COUNCILMEMBERS
Melissa Hernandez, Mayor
Michael McCorriston, Vice Mayor
Jean Josey, Councilmember
Dr. Sherry Hu, Councilmember
Kashef Qaadri, Councilmember

DUBLIN
CALIFORNIA

City Council Chamber
Dublin Civic Center
100 Civic Plaza
Dublin, CA 94568
www.dublin.ca.gov

Regular Meeting of the

DUBLIN CITY COUNCIL MEETING

Tuesday, October 3, 2023

Location: City Council Chamber
100 Civic Plaza
Dublin, CA 94568

REGULAR MEETING 7:00 PM

Additional Meeting Procedures

This City Council meeting will be broadcast live on Comcast T.V. channel 28 beginning at 7:00 p.m. This meeting will also be livestreamed at www.tv30.org and on the City's website at: https://dublin.ca.gov/ccmeetings

For the convenience of the City and as a courtesy to the public, members of the public who wish to offer comments electronically have the option of giving public comment via Zoom, subject to the following procedures:

□ Fill out an online speaker slip available at www.dublin.ca.gov. The speaker slip will be made available at 10:00 a.m. on Tuesday, October 3, 2023. Upon submission, you will receive Zoom link information from the City Clerk. Speakers slips will be accepted until the public comment period ends, or until the public comment period on non-agenda items is closed.

□ Once connected to the Zoom platform using the Zoom link information from the City Clerk, the public speaker will be added to the Zoom webinar as an attendee and muted. The speaker will be able to observe the meeting from the Zoom platform.

□ When the agenda item upon which the individual would like to comment is addressed, the City Clerk will announce the speaker in the meeting when it is their time to give public comment. The speaker will then be unmuted to give public comment via Zoom.

□ Technical difficulties may occur that make the option unavailable, and, in such event, the meeting will continue despite the inability to provide the option.

REGULAR MEETING 7:00 PM

I. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ORAL COMMUNICATIONS

3.1 Presentation of the Domestic Violence Awareness and Prevention Month Proclamation

The City Council will present the Domestic Violence Awareness and Prevention Month Proclamation.

STAFF RECOMMENDATION:

Present the proclamation.

Staff Report

Attachment 1 - Domestic Violence Awareness and Prevention Month Proclamation

3.2 Presentation of the Hindu American Awareness and Appreciation Month Proclamation

The City Council will present the Hindu American Awareness and Appreciation Month Proclamation.

STAFF RECOMMENDATION:

Present the proclamation.

Staff Report

Attachment 1 - Hindu American Awareness and Appreciation Month Proclamation

3.3 Employee Introduction

New City of Dublin Staff member, Stephanie Tsoi, Senior Accountant in the Finance Department, will be introduced.

STAFF RECOMMENDATION:

Welcome the new City of Dublin Staff member.

Staff Report

3.4 Public Comment

At this time, the public is permitted to address the City Council on non-agendized items. Please step to the podium and clearly state your name for the record. COMMENTS SHOULD NOT EXCEED THREE (3) MINUTES. In accordance with State Law, no action or discussion may take place on any item not appearing on the posted agenda. The Council may respond to statements made or questions asked, or may request Staff to report back at a future meeting concerning the matter. Any member of the public may contact the City Clerk's Office related to the proper procedure to place an item on a future City Council agenda. The exceptions under which the City Council MAY discuss and/or take action on items not appearing on the agenda are contained in Government Code Section 54954.2(b)(1)(2)(3).

4. CONSENT CALENDAR

Consent Calendar items are typically non-controversial in nature and are considered for approval by the City Council with one single action. Members of the audience, Staff or the City Council who would like an item removed from the Consent Calendar for purposes of public input may request the Mayor to remove the item.

4.1 Approval of the September 19, 2023 Regular City Council Meeting Minutes

The City Council will consider approval of the minutes of the September 19, 2023 Regular City Council Meeting.

STAFF RECOMMENDATION:
Approve the minutes of the September 19, 2023 Regular City Council Meeting.
Staff Report
Attachment 1 - September 19, 2023 Regular City Council Meeting Minutes

5. WRITTEN COMMUNICATION – None.

6. PUBLIC HEARING

6.1 Quarry Lane School Performing Arts Center (PLPA-2021-00041)
The applicant, Dr. Sabri Arac of Quarry Lane School, proposes to construct a 13,800-square-foot performing arts center and related site, landscape, and parking improvements for the Quarry Lane School located at 6237 and 6363 Tassajara Road. The requested approvals include an amendment to the Planned Development Zoning Stage 1 and 2 Development Plans, a Conditional Use Permit, and a Site Development Review Permit. A Supplemental Mitigated Negative Declaration has been prepared for consideration as part of the project. The Planning Commission reviewed the project and unanimously recommended approval.
STAFF RECOMMENDATION:
Conduct the public hearing, deliberate and take the following actions: 1) adopt the **Resolution** Adopting a Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for a New Performing Arts Center at the Quarry Lane School; 2) waive the reading and INTRODUCE the Ordinance Amending the Zoning Map and Approving an Amended Planned Development Zoning District and Related Stage 1 and Stage 2 Development Plans for the Quarry Lane School; and 3) adopt the **Resolution** Approving a Conditional Use Permit and Site Development Review Permit for a New Performing Arts Center at the Quarry Lane School.
Staff Report
Attachment 1 - Resolution Adopting a Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for a New Performing Arts Center at the Quarry Lane School
Attachment 2 - Exhibit A to the Resolution - Supplemental Mitigated Negative Declaration
Attachment 3 - Exhibit B to the Resolution - Mitigation Monitoring and Reporting Program
Attachment 4 - Ordinance Amending the Zoning Map and Approving an Amended Planned Development Zoning District and Related Stage 1 and Stage 2 Development Plans for the Quarry Lane School
Attachment 5 - Resolution Approving a Conditional Use Permit and Site Development Review Permit for the New Performing Arts Center at the Quarry Lane School
Attachment 6 - Exhibit A to the Resolution - Plans Prepared by BKBC Architects Inc
Attachment 7 - Planning Commission Resolution Recommending the City Council Approve Performing Arts Center at Quarry Lane School
Item 6.1 PowerPoint Presentation
Item 6.1 - SB 343

7. UNFINISHED BUSINESS – None.

8. NEW BUSINESS

8.1 Dublin Arts Center Operations Overview

The City Council will receive an overview of the planned operation of the Dublin Arts Center.

STAFF RECOMMENDATION:

Receive the report.

Staff Report
Attachment 1 - Dublin Arts Center Operations Guide
Item 8.1 PowerPoint Presentation

9. OTHER BUSINESS

Brief information only reports from City Council and/or Staff, including committee reports and reports by City Council related to meetings attended at City expense (AB1234).

10. ADJOURNMENT

This AGENDA is posted in accordance with Government Code Section 54954.2(a)
If requested, pursuant to Government Code Section 54953.2, this agenda shall be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Section 12132) (ADA), and the federal rules and regulations adopted in implementation thereof. To make a request for disability-related modification or accommodation, please contact the City Clerk's Office (925) 833-6650 at least 72 hours in advance of the meeting. Upon receiving a request, the City will swiftly resolve requests for reasonable accommodation for individuals with disabilities, consistent with the federal ADA, and resolve any doubt in favor of accessibility.

Agenda materials that become available within 72 hours in advance of the meeting, and after publishing of the agenda, will be available at Civic Center, 100 Civic Plaza, and will be posted on the City's website at www.dublin.ca.gov/ccmeetings.

Mission

The City of Dublin promotes and supports a high quality of life, ensures a safe and secure environment, fosters new opportunities, provides equity across all programs, and champions a culture of diversity and inclusion.

Agenda Item 3.1

STAFF REPORT
CITY COUNCIL

DATE: October 3, 2023

TO: Honorable Mayor and City Councilmembers

FROM: Linda Smith, City Manager

SUBJECT: Presentation of the Domestic Violence Awareness and Prevention Month Proclamation
Prepared by: Marissa Clevenger, Administrative Technician

EXECUTIVE SUMMARY:

The City Council will present the Domestic Violence Awareness and Prevention Month proclamation.

STAFF RECOMMENDATION:

Present the proclamation.

FINANCIAL IMPACT:

None.

DESCRIPTION:

Domestic Violence Awareness and Prevention Month is recognized annually during the month of October. October is significant because in October 1987, the first Domestic Violence Awareness Month was observed, which also marked the introduction of the first national domestic violence toll-free hotline. In 1989 the U.S. Congress designated October as National Domestic Violence Awareness Month and such legislation has passed every year since.

STRATEGIC PLAN INITIATIVE:

None.

NOTICING REQUIREMENTS/PUBLIC OUTREACH:

The City Council Agenda was posted.

ATTACHMENTS:

1) Domestic Violence Awareness and Prevention Month Proclamation

A PROCLAMATION OF THE CITY COUNCIL
CITY OF DUBLIN
CALIFORNIA

"Domestic Violence Awareness and Prevention Month"

WHEREAS, one in every three women will experience domestic violence during her lifetime; and approximately 15.5 million children are exposed to domestic violence every year; and

WHEREAS, the problem of domestic violence is not confined to any group or groups of people, but crosses all economic, racial, gender, educational, religious, and societal barriers, and is sustained by societal indifference; and

WHEREAS, victims of violence should have access to medical and legal services, counseling, transitional housing, and other supportive services so that they can escape the cycle of abuse; and

WHEREAS, the City of Dublin encourages domestic violence victims and their families to seek assistance from Rewire Community, Tri-Valley Haven, and other appropriate victims services organizations, and recognizes the compassion and dedication of the individuals who provide services to victims of domestic violence; and

WHEREAS, local programs, state coalitions, national organizations, and other agencies nationwide are committed to increasing public awareness of domestic violence and its prevalence, and to eliminating it through prevention and education.

NOW, THEREFORE, BE IT RESOLVED, that the Dublin City Council does hereby proclaim October 2023 as "Domestic Violence Awareness and Prevention Month" in the City of Dublin and encourages the community to be cognizant of the important work done by domestic violence programs and victims service providers, as well as actively participate in the scheduled activities and programs that work towards the elimination of personal and institutional violence against women and children.

DATED: October 3, 2023

Mayor Melissa Hernandez

Vice Mayor Michael McCorriston

Councilmember Sherry Hu

Councilmember Jean Josey

Councilmember Kashef Qaadri

Agenda Item 3.2

STAFF REPORT
CITY COUNCIL

DATE: October 3, 2023

TO: Honorable Mayor and City Councilmembers

FROM: Linda Smith, City Manager

SUBJECT: Presentation of the Hindu American Awareness and Appreciation Month Proclamation
Prepared by: Marissa Clevenger, Administrative Technician

EXECUTIVE SUMMARY:

The City Council will present the Hindu American Awareness and Appreciation Month proclamation.

STAFF RECOMMENDATION:

Present the proclamation.

FINANCIAL IMPACT:

None.

DESCRIPTION:

Hindu American Awareness and Appreciation Month is celebrated annually in the month of October. October is significant because it is the birth month of Mahatma Gandhi and is often when major Hindu holidays such as Navaratri and Diwali are celebrated. Hindu Heritage Month is a global movement highlighting Hinduism as a tradition and the celebrating the contributions Hinduism has made to human society.

STRATEGIC PLAN INITIATIVE:

None.

NOTICING REQUIREMENTS/PUBLIC OUTREACH:

The City Council Agenda was posted.

ATTACHMENTS:

1) Hindu American Awareness and Appreciation Month Proclamation

A PROCLAMATION OF THE CITY OF DUBLIN, CALIFORNIA

"Hindu American Awareness and Appreciation Month"

WHEREAS, the City of Dublin, along with the nation, has been shaped by the extraordinary cultural and ethnic linguistic and religious diversity of its residents; and

WHEREAS, there are an estimated 1.2 billion Hindus worldwide, and approximately 3.4 million Hindu Americans live across the country; and

WHEREAS, Hindu Americans in the City of Dublin represent diverse ethnic backgrounds, including individuals of Indian, Pakistani, Bangladeshi, Malaysian, Indonesian, Afghan, Nepali, Bhutanese, Sri Lankan, Fijian, Caribbean, and European descent; and

WHEREAS, the City of Dublin and its greater community has benefited from its connection with Hindu Americans, especially through the Vedanta philosophy, Ayurvedic medicine, classical Indian art, dance, music, meditation, yoga, literature, and community service; and

WHEREAS, the year 2023 marks the 130th anniversary of Hinduism being officially introduced to the United States by Swami Vivekananda at the 1893 World's Parliament of Religions in Chicago, IL, and the 123rd anniversary of when he founded the Vedanta Society in San Francisco, California in 1900; and

WHEREAS, Hindu Americans promote the ideals of tolerance, pluralism, and religious freedom, and respect the diversity of all faiths, and the Vedas, the 5,000-year-old texts of Hindu Americans, provide the basis for these core principles: "Truth is one, the wise call it by many names" (Ekam sat vipra bahudha vadanti); and

WHEREAS, our diversity is one of our greatest strengths, and the City of Dublin joins with all those around the world celebrating Hindu Americans.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Dublin does hereby proclaim October 2023 as "Hindu American Awareness and Appreciation Month" in the City of Dublin.

DATED: October 3, 2023

Mayor Melissa Hernandez

Vice Mayor Michael McCorriston

Councilmember Sherry Hu

Councilmember Jean Josey

Councilmember Kashef Qaadri

Agenda Item 3.3

STAFF REPORT

CITY COUNCIL

DATE: October 3, 2023

TO: Honorable Mayor and City Councilmembers

FROM: Linda Smith, City Manager

SUBJECT: Employee Introduction
Prepared by: Sarah Monnastes, Human Resources Director

EXECUTIVE SUMMARY:

New City of Dublin Staff member, Stephanie Tsoi, Senior Accountant in the Finance Department, will be introduced.

STAFF RECOMMENDATION:

Welcome the new City of Dublin Staff member.

FINANCIAL IMPACT:

None.

DESCRIPTION:

New City of Dublin Staff member, Stephanie Tsoi, Senior Accountant in the Finance Department, will be introduced.

STRATEGIC PLAN INITIATIVE:

None.

NOTICING REQUIREMENTS/PUBLIC OUTREACH:

The City Council Agenda was posted.

ATTACHMENTS:

None.

Agenda Item 4.1

DUBLIN
CALIFORNIA

STAFF REPORT

CITY COUNCIL

DATE: October 3, 2023

TO: Honorable Mayor and City Councilmembers

FROM: Linda Smith, City Manager

SUBJECT: Approval of the September 19, 2023 Regular City Council Meeting Minutes
Prepared by: Marsha Moore, MMC, City Clerk

EXECUTIVE SUMMARY:

The City Council will consider approval of the minutes of the September 19, 2023 Regular City Council Meeting.

STAFF RECOMMENDATION:

Approve the minutes of the September 19, 2023 Regular City Council Meeting.

FINANCIAL IMPACT:

None.

DESCRIPTION:

The City Council will consider approval of the minutes of the September 19, 2023 Regular City Council Meeting.

STRATEGIC PLAN INITIATIVE:

None.

NOTICING REQUIREMENTS/PUBLIC OUTREACH:

The City Council Agenda was posted.

ATTACHMENTS:

1) September 19, 2023 Regular City Council Meeting Minutes

MINUTES OF THE CITY COUNCIL OF THE CITY OF DUBLIN

Regular Meeting: September 19, 2023

The following are minutes of the actions taken by the City of Dublin City Council. A full video recording of the meeting with the agenda items indexed and time stamped is available on the City's website at: https://dublin.ca.gov/ccmeetings

REGULAR MEETING 7:00 PM

A Regular Meeting of the Dublin City Council was held on Tuesday, September 19, 2023, in the City Council Chamber. The meeting was called to order at 7:00 PM, by Mayor Hernandez.

1) CALL TO ORDER

Attendee Name	Status
Melissa Hernandez, Mayor	Present
Michael McCorriston, Vice Mayor	Present
Jean Josey, Councilmember	Present
Dr. Sherry Hu, Councilmember	Present
Kashef Qaadri, Councilmember	Present

2) PLEDGE OF ALLEGIANCE

3) ORAL COMMUNICATIONS

3.1) Public Comment

Jennifer Lininger provided public comment.

4) CONSENT CALENDAR

4.1) Approved the September 5, 2023 Regular City Council Meeting Minutes.

4.2) Adopted Resolution No. 102-23 titled, "Finding that Developers Having Obligations Under Active Development Agreements and Supplemental Agreements as Amended, Have Complied in Good Faith with the Terms and Provisions of the Agreements."

4.3) Received a report of payments issued from August 1, 2023 – August 31, 2023, totaling $21,524,852.44.

4.4) Adopted Resolution No. 103-23 titled, "Approving a Deposit and Reimbursement Agreement with TH East Ranch Dublin LLC."

4.5) Approved and authorized the Mayor to execute the Fourth Amendment to the Amended and Restated Agreement for Legal Services.

On a motion by Vice Mayor McCorriston, seconded by Councilmember Qaadri, and by unanimous vote, the City Council adopted the Consent Calendar.

RESULT:	ADOPTED [UNANIMOUS]
MOVED BY:	Michael McCorriston, Vice Mayor
SECOND:	Kashef Qaadri, Councilmember
AYES:	Hernandez, McCorriston, Josey, Hu, Qaadri

5) WRITTEN COMMUNICATION – None.

6) PUBLIC HEARING – None.

7) UNFINISHED BUSINESS

7.1) Inclusionary Zoning and In-Lieu Fee Feasibility Study and Commercial Linkage Fee Nexus Study

The City Council received a report regarding a review of the Commercial Linkage Fee and the Inclusionary Zoning and In-Lieu Fee programs which addressed questions and feedback from the presentation at the August 15, 2023 Regular City Council Meeting.

Mayor Hernandez opened the public comment period. Upon receiving no public comment, Mayor Hernandez closed the public comment period.

The City Council asked clarifying questions, provided feedback, and unanimously supported the Staff and consultant's recommendation for the Commercial Linkage Fee and In-Lieu Fee calculations.

7.2) Strategic Plan Update – First Year

The City Council received a presentation on the annual status update on the City's Two-Year Strategic Plan.

Mayor Hernandez opened the public comment period. Upon receiving no public comment, Mayor Hernandez closed the public comment period.

8) NEW BUSINESS

8.1) Citywide Outdoor Seating Design Guidelines (PLPA-2023-00024)

The City Council received a presentation on the proposed Citywide Outdoor Seating Guidelines (PLPA-2023-00024).

Mayor Hernandez opened the public comment period. Upon receiving no public comment, Mayor Hernandez closed the public comment period.

On a motion by Councilmember Qaadri, seconded by Councilmember Josey, and by unanimous vote, the City Council adopted Resolution No. 104-23 titled, "Approving the Citywide Outdoor Seating Design Guidelines."

RESULT:	ADOPTED [UNANIMOUS]
MOVED BY:	Kashef Qaadri, Councilmember
SECOND:	Jean Josey, Councilmember
AYES:	Hernandez, McCorriston, Josey, Hu, Qaadri

9) OTHER BUSINESS

The City Council and Staff provided brief information-only reports, including committee reports and reports by City Council related to meetings attended at City expense (AB1234).

By consensus, the City Council requested Staff prepare and frame a certificate from the entire City Council in recognition of Dublin resident PFC Toft Jessen receiving the Legion of Honor Medal from France for his service in World War II and the liberation of France.

10) ADJOURNMENT

Mayor Hernandez adjourned the meeting at 8:58 PM.

_____
Mayor

ATTEST:

_____
City Clerk

Agenda Item 6.1

STAFF REPORT

City Council

DATE: October 3, 2023

TO: Honorable Mayor and City Councilmembers

FROM: Linda Smith, City Manager

SUBJECT: Quarry Lane Performing Arts Center (PLPA-2021-00041)
Prepared by: Jeff Baker, Community Development Director

EXECUTIVE SUMMARY:

The applicant, Dr. Sabri Arac of Quarry Lane School, proposes to construct a 13,800-square-foot performing arts center and related site, landscape, and parking improvements for the Quarry Lane School located at 6237 and 6363 Tassajara Road. The requested approvals include an amendment to the Planned Development Zoning Stage 1 and 2 Development Plans, a Conditional Use Permit, and a Site Development Review Permit. A Supplemental Mitigated Negative Declaration has been prepared for consideration as part of the project. The Planning Commission reviewed the project and unanimously recommended approval.

STAFF RECOMMENDATION:

Conduct the public hearing, deliberate and take the following actions: 1) adopt the Resolution Adopting a Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for a New Performing Arts Center at the Quarry Lane School; 2) waive the reading and INTRODUCE the Ordinance Amending the Zoning Map and Approving an Amended Planned Development Zoning District and Related Stage 1 and Stage 2 Development Plans for the Quarry Lane School; and 3) adopt the Resolution Approving a Conditional Use Permit and Site Development Review Permit for a New Performing Arts Center at the Quarry Lane School.

FINANCIAL IMPACT:

All costs associated with the processing of this application are paid for by the applicant.

DESCRIPTION:

Background

The Quarry Lane School is located on approximately 12.6 acres on the east side of Tassajara Road at 6237 and 6363 Tassajara Road. The school is located within the Eastern Dublin Specific Plan area and has Planned Development Zoning (Ordinance 12-14 and Ordinance 24-00). The project site has a General Plan and Eastern Dublin Specific Plan land use designation of Medium Density Residential. The site is surrounded by open space, parkland, and residential uses as described in Figure 1 and Table 1 below. This includes an existing riparian area that borders the project site to the south. In 2020, the Quarry Lane School acquired the 2.6-acre property immediately to the south of the existing school site with the intent to expand their campus. The site, historically known as the Kobold Property, has a single-family home and associated outbuildings, which most recently was used as a landscape supply business. The Kobold Property is highlighted in orange with the existing school facilities shown immediately to the north on Figure 1.

Figure 1: Project Site



Table 1: Surrounding Land Uses

Location	Zoning	General Plan Land Use	Current Use
North	PD	Medium Density – Residential (6.1 -14 du/ac)	Single-Family Homes
South	PD	Open Space and Medium Density – Residential (6.1 -14 du/ac)	Open Space and Single-Family Homes
East	PD	Open Space	Open Space
West	PD	Open Space	Open Space

In April 1999, prior to the site being annexed to the City of Dublin, Alameda County approved a Planned Development Zoning District to allow the development of the first phase of the Quarry Lane School. At the time, the proposed project included a 15,600-square-foot building for a day care, preschool, and elementary school with a maximum enrollment of 200 students. A programmatic Environmental Impact Report was certified by Alameda County for the Quarry Lane School Master Plan.

On December 19, 2000, the City Council adopted a Planned Development District pre-zoning and annexation application for the Quarry Lane School (Ordinance 24-00). This pre-zoning and annexation included both the Quarry Lane School and the Kobold Property. The approval included Phase II of the Quarry Lane School which allowed construction of an additional 66,685-square-foot middle and high school building, recreation areas, landscaping, and grading. This allowed the school to increase enrollment to 950 students including middle and high school students. The pre-zoning for the Kobold Property allowed for interim agricultural uses on the property until such time the property was redeveloped.

On May 25, 2004, the Planning Commission approved minor amendments to the Planned Development Zoning and a Site Development Review Permit to allow construction of Phase II of the Quarry Lane School (Resolution 04-46). These approvals allowed Phase II to be increased to 70,289 square feet of new building area (an increase from the 66,685 square feet approved in 2000). While the building area increased, the total maximum student population remained at 950 students.

On June 17, 2014, the City Council approved a Planned Development Rezone with a Stage 1 and 2 Development Plan (Ordinance 12-14) and a Site Development Review Permit for Phase III of the Quarry Lane School. These approvals allowed a maximum of 110,602 square feet of development and construction of the cafeteria and science buildings. The total maximum student population remained at 950 students.

In 2020, the Quarry Lane School purchased the Kobold Property to expand the campus. A lot merger was recorded on March 31, 2022 (Application No. M-2022-001, 2022065678), which merged the existing Quarry Lane School parcel and the Kobold Property to create one 12.6-acre parcel.

The applicant is currently requesting approval to construct a 13,800-square-foot performing arts center, a 126-space parking lot, and related site and landscape improvements on the former Kobold property. The requested entitlements include an amendment to the Planned Development Zoning, a Conditional Use Permit, and a Site Development Review Permit.

Analysis

The proposed building will include a performance hall with seating for up to 350 people, along with drama, music, dance classes, and rehearsal studios for Quarry Lane School students. The new facility will provide a dedicated space to host the school's existing performance art shows and events, as well as an improved space for high school commencement ceremonies. Currently, the school hosts approximately eight events annually, including the high school graduation ceremony. These events occur in the evenings and on weekends and are held in existing buildings on the campus. Implementation of the proposed project will not increase student enrollment capacity or change the frequency or capacity of such events but will provide a new, modernized, and dedicated facility to host these events.

Planned Development Zoning

The application includes an amendment to the Planned Development Zoning Stage 1 and Stage 2 Development Plans. The proposed amendment will apply the existing Planned Development Zoning for the Quarry Lane School to the expanded school site which includes the former Kobold Property, and amends the Stage 1 and Stage 2 Development Plan to allow for development of the Performing Arts Center and related improvements.

Figure 2. Expanded Campus



The Planned Development Zoning is proposed to be amended and restated as shown in Attachment 4. However, the proposed amendments to the Planned Development Zoning are limited to the following, which enable development of the performing arts center but do not increase the student enrollment capacity:

- Incorporate in the Planned Development Zoning District the recently acquired 2.6-acre site immediately to the south of the school, formerly known as the Kobold property (Attachment 4, Section 3);
- Add a school performing arts center as a conditionally permitted use (Attachment 4, Section 4.2);
- Increase the Maximum Building Area from 110,602 square feet to 124,402 square feet (Attachment 4, Section 4.4);
- Decrease the Floor-to-Area Ratio from 0.253 to 0.226 (Attachment 4, Section 4.4); and
- Adjust the Parking Spaces requirement to include the 117 parking spaces required for the performing arts center (Attachment 4, Section 4.4).

The Ordinance approving the proposed amendments to the Planned Development Zoning is included as Attachment 4.

Conditional Use Permit

The Planned Development Zoning, as amended, allows a performing arts center at the school as a conditionally permitted use. A Conditional Use Permit enables the City to place conditions of approval on a project to ensure that the operating characteristics are compatible with surrounding uses. The proposed project has been reviewed for issues related to operating characteristics, access and parking. Conditions of approval have been placed on the project, where appropriate, to ensure compatibility with the surrounding uses.

The proposed performing arts center will provide a dedicated space to host the school's existing performance art shows and events, as well as an improved space for high school commencement ceremonies. The new building will be used to support only the existing arts programs at the school, thus there will be no increase in school enrollment capacity or change in day-to-day operations.

A new, right-in-only driveway is proposed on Tassajara Road. Vehicles will continue to exit the school using the existing signalized intersection that provides access to the school. Conditions of approval have been included to ensure the driveway is designed and operated as a right-in-only (Attachment 5, Conditions 28 and 29). Parking requirements are regulated by the Zoning Ordinance (Section 8.76.080.D), which requires one space per three fixed seats, or 117 spaces for the proposed facility. The proposed project is not anticipated to increase the existing demand for parking because it will host functions that already occur at the school. However, the proposed project does include an additional 126 parking spaces, which exceeds the requirement.

The Resolution approving the Conditional Use Permit is included as Attachment 5.

Site Development Review Permit

Site Layout, Circulation & Parking

The proposed 13,800-square-foot performing arts center will be located to the south of the existing school buildings and the 126 additional parking spaces would be located east and south of the proposed performing arts center. Access to the site is proposed from Tassajara Road via a new right-in-only driveway at the southern end of the project site. An internal drive aisle will connect to the existing school parking lot to the north. Vehicles will continue to exit the site from the existing signalized entry and exit on Tassajara Road. Figure 3 below shows the proposed project in context with the existing school. A new auxiliary lane will be provided to facilitate access to this new driveway. The applicant will construct this auxiliary lane unless the City's Tassajara Road gap closure project is completed first. The gap closure project is in the planning phase to build Tassajara Road to its ultimate width in the area of the school.

Paved pedestrian walkways will be provided to connect the parking area with the proposed performing arts center, as well as to provide pedestrian connections to proposed sidewalks along Tassajara Road. Safety and security lighting will be provided along pedestrian pathways, around the new building and in the parking area. Drive aisle and parking area lighting will consist of 15-foot-high, pole-mounted LED lights. Lighting for pedestrian pathways will consist of three-foot-high bollards.

The parking requirement for the school is based on the Off-Street Parking and Loading Regulations in the Zoning Ordinance (Section 8.76.080.D). The requirement is to provide one space per three fixed seats. The 350-seat performing arts center has a requirement to provide 117 parking spaces. The applicant proposes to provide 126 new parking spaces to accommodate this requirement.

Figure 3: Proposed Site Plan



Architecture

The architecture for the new building is characterized as modern with simple lines and will be integrated into the overall campus design (see Figure 4 below). The side and front facades, most visible from Tassajara Road, consistent of a prominent roofline and large canopy providing cover for vehicle pickup and drop off. The materials of the new building will match the existing campus buildings. The stucco siding will be painted to match the existing campus buildings and the standing seam metal roof color will complement the roof of the other school buildings. The window design and placement will also compliment the other buildings on the school campus to create a unified aesthetic.

Figure 4: Proposed West Elevation



Landscaping

The proposed landscape design includes a landscape buffer along Tassajara Road with trees and shrubs, including coast live oak, glossy abelia, Point Reyes creeper, and desert carpet. Existing street trees on the Tassajara Road frontage would be retained and the landscaping enhanced. Landscape plantings, including a variety of trees, shrubs, flowering perennials, and grasses would be provided around the building and in the parking lot. In addition, the proposed project includes several landscaped stormwater basins totaling approximately 3,460 square feet. Stormwater basins would include Berkeley sedge, blue rush, and blue wild rye. A three-inch layer of wood mulch would be provided adjacent to the existing riparian area associated with an unnamed tributary that borders the project site to the south. A rail fence would be provided along the edge of a City-required creek setback to prevent intrusion into the riparian area.

The Resolution approving the Site Development Review Permit is included as Attachment 5 with the project plans included at Attachment 6.

PLANNING COMMISSION REVIEW:

The Planning Commission held a public hearing on September 12, 2023 to consider the proposed project. Four community members spoke in support of the project. The Planning Commission voted unanimously to recommend that the City Council approve the project (Attachment 7).

ENVIRONMENTAL DETERMINATION:

Development of the project site was previously addressed in the Eastern Dublin General Plan Amendment (EDGPA) and the Eastern Dublin Specific Plan Environmental Impact Report (EDSP EIR) for which the City Council certified an Environmental Impact Report (EIR) and an addendum on August 22, 1994. Pursuant to Resolution No. 53-93, the City Council adopted a Mitigation Measures and Monitoring Program, which continue to apply to development in Eastern Dublin. The City Council also adopted a Statement of Overriding Considerations in connection with certification of the 1993 EDGPA/EDSP Environmental Impact Report.

Consistent with the requirements of the California Environmental Quality Act (CEQA) including Section 21166 and related CEQA Guidelines Sections 15162 and 15163, the City prepared an Initial Study to determine whether additional environmental review was required for the proposed Quarry Lane School Performing Arts Center Project. Pursuant to CEQA Guidelines Section 15163, the City determined that the environmental impacts associated with the proposed project would be the same as or similar to those identified in the EDSP EIR and mitigated to less-than-significant levels with implementation of the mitigation measures identified in the EDSP EIR. New impacts were identified in the following environmental areas: air quality and noise. None of these impacts would result in significant effects that cannot be mitigated to less-than-significant levels with implementation of project-specific mitigation measures, the Initial Study/Supplemental Mitigated Negative Declaration. Therefore, the City has determined that the proposed project requires a Supplemental Mitigated Negative Declaration, in compliance with Public Resource Code Section 21166 and CEQA Guidelines Section 15163. The Supplemental Mitigated Negative Declaration/Initial Study was circulated for a public review period from July 5, 2023, to August 4, 2023. One comment letter was received from Zone 7.

The resolution adopting a supplemental mitigated negative declaration and mitigation monitoring and reporting program for the performing arts center is attached as Attachment 1, with the Supplemental Mitigated Negative Declaration included as Attachment 2 and the Mitigation and Monitoring Program included as Attachment 3.

NOTICING REQUIREMENTS/PUBLIC OUTREACH:

A Planning Application sign was posted on the project site and the project was also included on the City's development projects webpage.

Two City-led Community Meetings were held on August 8 and August 9, 2023, to provide Dublin residents with information about the proposed project. Four residents attended the meeting on August 8 and three residents attended the meeting on August 9. Staff provided a presentation that included an overview of the proposed project.

In accordance with State law, a public notice was mailed to all property owners and occupants within 300 feet of the proposed project to advertise the project and this public hearing. A public notice was also published in the *East Bay Times* and posted at several locations throughout the City. This Staff Report was made available on the City's website and a copy provided to the Applicant. The City Council Agenda was posted.

STRATEGIC PLAN INITIATIVE:

None.

ATTACHMENTS:

1) Resolution Adopting a Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for a New Performing Arts Center at the Quarry Lane School
2) Exhibit A to the Resolution - Supplemental Mitigated Negative Declaration

3) Exhibit B to the Resolution - Mitigation Monitoring and Reporting Program
4) Ordinance Amending the Zoning Map and Approving an Amended Planned Development Zoning District and Related Stage 1 and Stage 2 Development Plans for the Quarry Lane School
5) Resolution Approving a Conditional Use Permit and Site Development Review Permit for a New Performing Arts Center at the Quarry Lane School
6) Exhibit A to the Resolution - Plans Prepared by BKBC Architects Inc.
7) Planning Commission Resolution Recommending the City Council Approve Performing Arts Center at Quarry Lane School

RESOLUTION NO. XX - 23

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DUBLIN

ADOPTING A SUPPLEMENTAL MITIGATED NEGATIVE DECLARATION AND MITIGATION MONITORING AND REPORTING PROGRAM FOR A NEW PERFORMING ARTS CENTER AT THE QUARRY LANE SCHOOL 6237 AND 6363 TASSAJARA ROAD (APNS 985-0072-002-00 AND 985-0002-006-03) PLPA-2021-00041

WHEREAS, the Applicant, Dr. Sabri Arac of Quarry Lane School (School), has requested approval of a Site Development Review Permit and a Conditional Use Permit to operate and construct a 13,800 square foot performing arts center, 126 parking spaces, and related site and landscape improvements on the southern 2.6-acre portion of the School property acquired by the School in 2020 (formerly known as Kobold Property), and to amend to the Planned Development Zoning District and related Stage 1 and 2 Development Plan to incorporate the southern 2.6-acres and allow development of the performing arts center. These planning and implementing actions are collectively known as the "Project"; and

WHEREAS, the project site is 12.63 acres located at 6237 and 6363 Tassajara Road (APNS 985-0072-002-00 AND 985-0002-006-03); and

WHEREAS, the existing General Plan and Eastern Dublin Specific Plan land use designations are Medium-Density Residential; and

WHEREAS, the California Environmental Quality Act (CEQA) together with State guidelines and Dublin's CEQA Guidelines and Procedures require that certain projects be reviewed for environmental impacts and when applicable, environmental documents prepared; and

WHEREAS, the Project area was previously analyzed in the Eastern Dublin General Plan Amendment and Specific Plan, which was adopted in 1993 and has a certified Program Environmental Impact Report (EIR) (SCH No. 91-103064) and analyzed in the Quarry Lane Master Plan, which was adopted in 1998 by the County of Alameda and has a certified EIR (SCH No. 97122109); and

WHEREAS, the City prepared an Initial Study to determine whether supplemental environmental review was required for the proposed Project under CEQA standards. The Initial Study examined whether there were substantial changes to the proposed development, substantial changes in circumstances, or new information, any of which would result in new or more severe significant impacts than previously analyzed in the 1993 General Plan Amendment/Specific Plan EIR, or whether any standards for supplemental environmental review were met; and

WHEREAS, upon completion of the Initial Study, it was determined that a Supplemental Mitigated Negative Declaration was required to mitigate impacts related to noise and air quality associated with the Project and, therefore, a Mitigation Monitoring and Reporting Program was prepared; and

WHEREAS, on September 12, 2023, the Planning Commission held a properly noticed public hearing in which interested parties had the opportunity to be heard, and adopted Resolution No. 23-08 recommending that the City Council adopt the Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the Project; and

WHEREAS, on October 3, 2023, the City Council held a properly noticed public hearing on the Project and Supplemental Mitigated Negative Declaration, at which time all interested parties had the opportunity to be heard; and

WHEREAS, a Staff Report dated October 3, 2023, incorporated herein by reference, described and analyzed the Project and related Supplemental Mitigated Negative Declaration for the City Council and recommended adoption of the Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program and approval of the Project; and

WHEREAS, the City Council considered the Supplemental Mitigated Negative Declaration and all above-referenced reports, recommendations, and testimony before taking any action on the project.

NOW, THEREFORE BE IT RESOLVED that the foregoing recitals are true and correct and made a part of this Resolution.

BE IT FURTHER RESOLVED that the City Council of the City of Dublin finds the following:

A. The Dublin City Council has reviewed and considered the Supplemental Mitigated Negative Declaration including the comment received during the public review period prior to taking action on the Project.

B. The Supplemental Mitigated Negative Declaration adequately describes the environmental impacts of the Project. On the basis of the whole record before it, the City Council finds that there is no substantial evidence that the Project, as approved with mitigation, will have a significant effect on the environment.

C. The Supplemental Mitigated Negative Declaration has been completed in compliance with CEQA, the State CEQA Guidelines, and the City of Dublin Environmental Regulations.

D. The Supplemental Mitigated Negative Declaration is complete and adequate and reflects the City's independent judgement and analysis as to the environmental effects of the Project.

E. Following adoption of this Resolution, City staff is authorized and directed to file with the County of Alameda a Notice of Determination pursuant to CEQA.

BE IT FURTHER RESOLVED that based on the above findings, the Dublin City Council adopts the Supplemental Mitigated Negative Declaration (attached as **Exhibit A**) and Mitigation Monitoring and Reporting Program (attached as **Exhibit B)** for the Project.

PASSED, APPROVED AND ADOPTED this 3rd day of October 2023 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

_____
Mayor

ATTEST:

_____
City Clerk

DUBLIN
CALIFORNIA

Quarry Lane School Performing Arts Center

Supplemental Mitigated Negative Declaration/Initial Study

June 30, 2023
Planning Application Number: PLPA-2021-00041

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Quarry Lane School
Performing Arts Center
Supplemental Mitigated Negative Declaration

June 30, 2023

Project Overview

This Initial Study has been prepared in accordance with the provisions of the California Environmental Quality Act (CEQA) and assesses the potential environmental impacts of implementing the proposed project described below. The Initial Study consists of a completed environmental checklist and a brief explanation of the environmental topics addressed in the checklist.

Because the proposed project is within the Eastern Dublin Specific Plan (EDSP or Eastern Dublin EIR) area and is generally based on the land use designation established by the City of Dublin General Plan for the subject property, this Initial Study relies on a Program Environmental Impact Report (EIR) prepared for the Eastern Dublin General Plan Amendment (Eastern Extended Planning Area) and EDSP (Eastern Dublin EIR), [1] which evaluated development of over 3,300 acres in the eastern part of the City. The Eastern Dublin EIR was certified by the City in 1993.

The subject of this Initial Study is the Quarry Lane School Performing Arts Center project, which includes development of a performing arts building and associated surface parking on 2.64 acres located just south of the existing Quarry Lane School at 6363 and 6237 Tassajara Road in eastern Dublin.

Prior CEQA Analysis

The project is located in eastern Dublin within the EDSP area; therefore, the Eastern Dublin EIR and associated addenda are applicable to the proposed project. This environmental document is described below.

Eastern Dublin General Plan Amendment and Eastern Dublin Specific Plan Program EIR (State Clearinghouse No. 1991103064). A Program EIR for the Eastern Dublin General Plan Amendment (Eastern Extended Planning Area) and the EDSP was certified by the City Council in 1993 by Resolution No. 51-93. This document and its related addenda collectively are referred

to as the Eastern Dublin EIR. The Eastern Dublin EIR evaluated the impacts on the following environmental topical areas:

- Land Use
- Population, Employment and Housing
- Traffic and Circulation
- Community Services and Facilities
- Sewer, Water and Storm Drainage
- Soils, Geology and Seismicity
- Biological Resources
- Visual Resources
- Cultural Resources
- Noise
- Air Quality
- Fiscal Considerations

The following significant and unavoidable impacts were identified:

- Cumulative loss of agriculture and open space land
- Cumulative traffic
- Extension of certain community facilities (natural gas, electric and telephone service)
- Consumption of non-renewable natural resources
- Increases in energy uses through increased water treatment and disposal and through operation of the water distribution system
- Inducement of substantial growth and concentration of population
- Earthquake ground shaking
- Loss or degradation of botanically sensitive habitat
- Regional air quality
- Noise
- Alteration of visual character

The City adopted a Mitigation Monitoring Plan, which specifies mitigation measures and a monitoring plan that continue to apply to development in eastern Dublin. The City Council also adopted a Statement of Overriding Considerations (Resolution No. 53–93) in connection with certification of the Eastern Dublin EIR.

Two addenda to the Eastern Dublin EIR were subsequently approved by the City. The first Addendum[2] addressed a modification to Alternative 2 identified in the Eastern Dublin EIR showing land beyond the Sphere of Influence designated as "Future Study Area" and providing a total of approximately 14,000 dwelling units and approximately 10.9 million square feet of commercial development on 4,200 acres. The second Addendum[3] provided updated information related to the plans of the City and the Dublin San Ramon Services District (DSRSD) to provide sewer service to Eastern Dublin.

Proposed CEQA Analysis in this Document

The proposed project is generally based on the land use designations established by the City of Dublin General Plan and EDSP. This Initial Study relies on the EDSP EIR, which evaluated the development of over 3,300 acres in the eastern part of the City.

Pursuant to the requirements of CEQA, the City must evaluate the potential for construction or operation of the proposed project to create adverse environmental effects. The City prepared a CEQA analysis using the City's Initial Study Checklist, dated June 30, 2023, incorporated herein by reference, to assess whether any further environmental review is required for the proposed project. This Supplemental Initial Study/Mitigated Negative Declaration (IS/MND) has been prepared for the proposed project pursuant to the rules for supplemental environmental review under Public Resources Code (PRC) Section 21166 and *State CEQA Guidelines* Section 15163. This Initial Study analyzes whether proposed changes to the Eastern Dublin Specific Plan, as represented by the proposed project, would result in any new or substantially more severe significant environmental impacts than those analyzed in the prior CEQA documents or whether any of the other standards requiring further environmental review under CEQA are met.

Based on the attached Initial Study, the proposed project would not have a significant effect on the environment. For the most part, the environmental impacts associated with the proposed project would be the same as or similar to those identified in the EDSP EIR and mitigated to less-than-significant levels with implementation of the mitigation measures identified in the EDSP EIR. New impacts were identified in the following environmental areas: air quality, and noise. None of these impacts would result in significant effects that cannot be mitigated to less-than-significant levels with implementation of project-specific mitigation measures identified in the attached Initial Study. Therefore, the City has determined that the proposed project requires a Supplemental Mitigated Negative Declaration, in compliance with PRC Section 21166 and CEQA Guidelines Section 15163.

---

[2] Dublin, City of. 1993. Addendum to Eastern Dublin General Plan Amendment and Specific Plan Environmental Impact Report. May 4.

[3] Dublin, City of. 1994. Addendum to the Eastern Dublin General Plan Amendment/Specific Plan Environmental Impact Report, Update of Plans to Provide Sewer Service. August 22.

DUBLIN
CALIFORNIA

Quarry Lane School
Performing Arts Center
Supplemental Mitigated Negative Declaration/Initial Study

June 30, 2023
Planning Application Number: PLPA-2021-00041

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Quarry Lane School Performing Arts Center Supplemental Mitigated Negative Declaration/Initial Study

Background & Project Description

Project Title

Quarry Lane School Performing Arts Center

Lead Agency Name and Address

City of Dublin
Community Development Department
100 Civic Plaza
Dublin, CA 94568

Contact Person and Phone Number

Linda Ajello, AICP
Senior Planner
Phone: 925-452-2152
Linda.Ajello@dublin.ca.gov

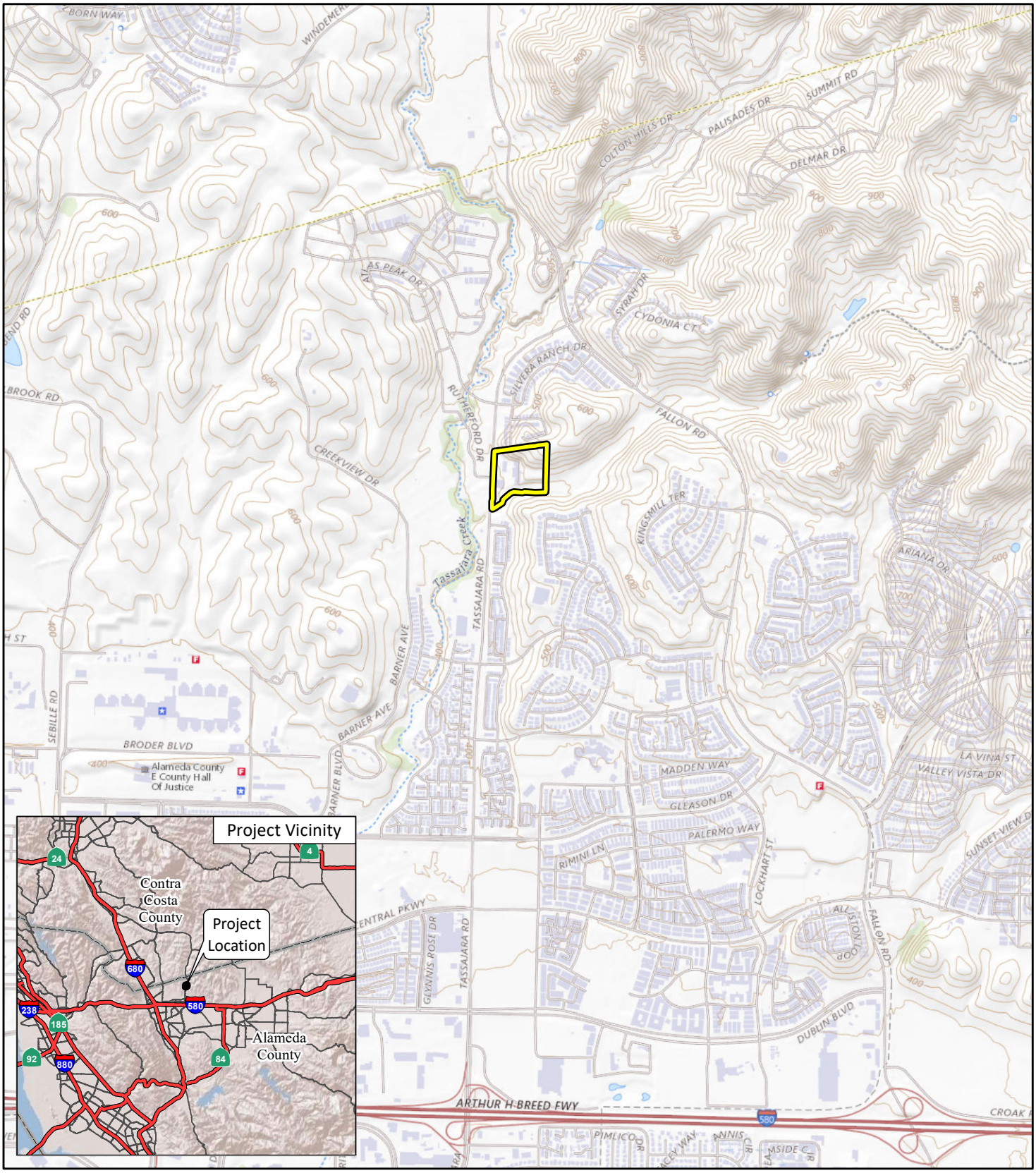
Project Location

The project site is located at 6363 and 6237 Tassajara Road in eastern Dublin within the EDSP area (Assessor's Parcel Numbers [APNs]: 985-0072-002-00 and 985-0002-006-03[4]). The proposed project is located just east of Tassajara Road and immediately to the south of the existing Quarry Lane School. Figures 1 and 2 provide the regional location and an aerial photograph of the project site and surrounding area, respectively.

Project Applicant's/Sponsor's Name and Address

Dr. Sabri Arac
Quarry Lane School
3750 Boulder Street
Pleasanton, CA 94566

[4] The two parcels are subject to a recent Lot Merger.



LSA

LEGEND

Project Location

FIGURE 1

N

0 1000 2000

FEET

SOURCE: USGS The National Map (2018)

I:\DUB2101.03\GIS\MXD\Project Location and Vicinity.mxd (11/2/2022)

Performing Arts Center at Quarry Lane School

Project Location and Vicinity



LSA

Project Site Boundary

0 250 500
FEET

FIGURE 2

Performing Arts Center at Quarry Lane School
Aerial Photograph of the Project Site and Surrounding Land Uses

SOURCES: Google Earth, 3/11/2022; LSA, 2022

I:\DUB2101.03\G\Aerial Photo of Site & Surrounding LU.ai (11/2/2022)

General Plan Designation

Medium Density Residential (6.1-14.0 dwelling units per acre)

Zoning

Planned Development (PD) Ordinance No. 24-00 and Ordinance No. 12-14

Project Description

Project Background

Opened in 1991, the Quarry Lane School (East Dublin campus) offers education for elementary through high school (K-12) students with an approved total student enrollment capacity of 950 students. The existing school facility, located at 6363 Tassajara Road, includes four buildings as follows:

- Building 1 (7,611 square feet) includes the school admissions office, multi-purpose room, and elementary school library.

  Building 2 (15,578 square feet) includes the elementary school classrooms.
- Building 3 (70,701 square feet) includes the middle and high school classrooms and laboratories, library, and gymnasium.
- Building 4 (13,003 square feet) includes the engineering/science and technology classrooms and laboratories, dining hall, and lecture hall.

In 2020, Quarry Lane School purchased the property immediately to the south with the intent to develop a dedicated space for the existing performing arts program and associated parking.

Prior Environmental Review

The project is located in eastern Dublin within the Eastern Dublin Specific Plan (EDSP) area; therefore, the Eastern Dublin EIR and associated addenda are applicable to the proposed project. This environmental document is described below.

Eastern Dublin General Plan Amendment and Eastern Dublin Specific Plan Program EIR (State Clearinghouse No. 1991103064). A Program EIR for the Eastern Dublin General Plan Amendment (Eastern Extended Planning Area) and the EDSP was certified by the City Council in 1993 by Resolution No. 51-93. This document and its related addenda collectively are referred to as the Eastern Dublin EIR. The Eastern Dublin EIR evaluated the impacts on the following environmental topical areas:

- Land Use
- Population, Employment and Housing
- Traffic and Circulation
- Community Services and Facilities

- Sewer, Water and Storm Drainage
- Soils, Geology and Seismicity
- Biological Resources
- Visual Resources
- Cultural Resources
- Noise
- Air Quality
- Fiscal Considerations

The following significant and unavoidable impacts were identified:

- Cumulative loss of agriculture and open space land
- Cumulative traffic
- Extension of certain community facilities (natural gas, electric and telephone service)
- Consumption of non-renewable natural resources
- Increases in energy uses through increased water treatment and disposal and through operation of the water distribution system
- Inducement of substantial growth and concentration of population
- Earthquake ground shaking
- Loss or degradation of botanically sensitive habitat
- Regional air quality
- Noise
- Alteration of visual character

The City adopted a Mitigation Monitoring Plan, which specifies mitigation measures and a monitoring plan that continue to apply to development in eastern Dublin. The City Council also adopted a Statement of Overriding Considerations (Resolution No. 53–93) in connection with certification of the Eastern Dublin EIR.

Two addenda to the Eastern Dublin EIR were subsequently approved by the City. The first Addendum[5] addressed a modification to Alternative 2 identified in the Eastern Dublin EIR showing land beyond the Sphere of Influence designated as "Future Study Area" and providing a total of approximately 14,000 dwelling units and approximately 10.9 million square feet of

[5] Dublin, City of. 1993. Addendum to Eastern Dublin General Plan Amendment and Specific Plan Environmental Impact Report. May 4.

commercial development on 4,200 acres. The second Addendum[6] provided updated information related to the plans of the City and the Dublin San Ramon Services District (DSRSD) to provide sewer service to Eastern Dublin.

Proposed Project

The City of Dublin is considering an application to construct a performing arts center on the southern portion of an approximately 12-acre property that currently contains the existing private K-12 Quarry Lane School and an existing single-family home. The proposed project would consist of a new 13,800-square-foot building with a 350-seat auditorium, three classrooms, and other support spaces and approximately 126 additional parking spaces. The proposed project would be constructed within the newly acquired southern portion of the school property, which was formerly used as a landscaping supply business and currently contains a single-family home and associated outbuildings. These existing structures would be demolished to accommodate development of the proposed project. Figure 3 shows the overall site plan. Figure 4 shows the expansion site plan, which includes details of the proposed performing arts center.

The proposed project would provide a dedicated space for the existing performing arts program but would not include any increase in total student enrollment or an expansion of existing school operations. The proposed building would include a performance hall with seating for up to 350 people, along with drama, music, dance, and rehearsal studios for current Quarry Lane School students. The new facility would provide space to host the school's existing performance art shows and events, as well as an improved space for high school commencement ceremonies. Currently, the school hosts approximately eight events annually, including the high school graduation ceremony. These events occur in the evenings and on weekends. Implementation of the proposed project would not change the frequency or capacity of such events but would provide a new modernized and dedicated facility in which to host these events.

Access, Circulation, and Parking

New vehicular access is proposed from Tassajara Road via a right-in only driveway at the southern end of the project site with a connection to the existing school parking lot to the north, which has a signalized entry and exit on Tassajara Road. The proposed additional parking area, consisting of 126 spaces, would be located east and south of the proposed performing arts center.

To accommodate existing parking demand on campus, the school has a student parking policy, which limits the total number of student parking permits to approximately 30 percent of the existing total parking spaces. Student and staff parking would not change with implementation

[6] Dublin, City of. 1994. Addendum to the Eastern Dublin General Plan Amendment/Specific Plan Environmental Impact Report, Update of Plans to Provide Sewer Service. August 22.

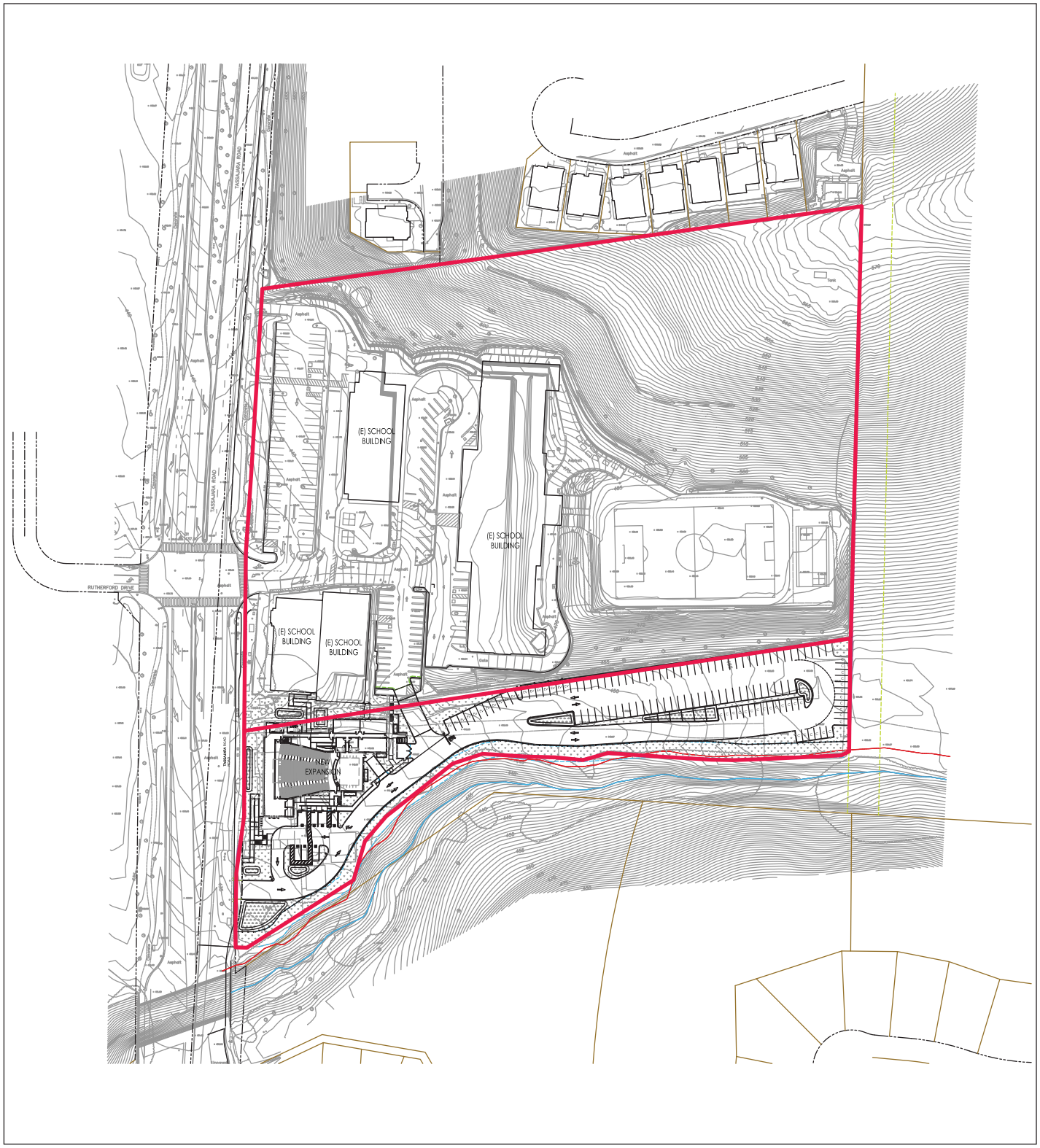


FIGURE 3

Performing Arts Center at Quarry Lane School
Overall Site Plan

SOURCE: BKBC Architects, Inc., 8/4/2022

I:\DUB2101.03\G\Overall Site Plan.ai (11/2/2022)



LSA

FIGURE 4

NOT TO SCALE

SOURCE: BKBC Architects, Inc., 8/4/2022

I:\DUB2101.03\G\Expansion Site Plan.ai (11/2/2022)

Performing Arts Center at Quarry Lane School
Expansion Site Plan

of the proposed project. Inbound traffic would have a dedicated right lane entering the parking lot. This access would be used for inbound entry only. Students, staff, and visitors would continue to exit the site via the existing signalized entry on Tassajara Road. The school uses a staggered system for morning arrival and afternoon dismissal times for different grade levels to facilitate traffic operations in the morning and afternoon.

Paved pedestrian walkways would be provided to connect the parking area with the proposed performing arts center, as well as to provide pedestrian connections to proposed sidewalks along Tassajara Road.

Safety and security lighting would be provided along pedestrian pathways, around the new building and in the parking area. Drive aisle and parking area lighting would consist of 15-foot-high, pole-mounted LED lights. Lighting for pedestrian pathways would consist of 3-foot-high bollards.

Landscaping

A landscape buffer would be provided along Tassajara Road with trees and shrubs, including coast live oak (*Quercus agrifolia),* glossy abelia (*Abelia* g. *"Edward Goucher),* Point Reyes creeper (*Ceanothus gloriosus)*, and desert carpet (*Acacia redolens)*. Existing street trees on Tassajara Road would be retained. Landscape plantings, including a variety of trees, shrubs, flowering perennials, and grasses would be provided around the building and in the parking lot. In addition, the proposed project would include several landscaped stormwater basins, as further described below, totaling approximately 3,460 square feet. Stormwater basins would include Berkeley sedge (*Carex divulsa*), blue rush (*Juncus patens*), and blue wild rye (*Elymus glaucus*). A three-inch layer of wood mulch would be provided between the new right-in only driveway to the proposed parking area and an existing riparian area associated with an unnamed tributary that borders the project site to the south. A rail fence would be provided along the edge of a City-required creek setback to prevent intrusion into the riparian area.

Utilities and Infrastructure

The project site is currently served by existing utilities. Proposed utility connections are discussed below.

Water. Water service is provided by the Dublin San Ramon Services District (DSRSD). The proposed project would include the installation of new water lines on the site that would connect to the existing water main within Tassajara Road. Proposed water lines would include eight-inch water lines for fire suppression and four-inch water lines for domestic water use.

Wastewater. Wastewater service is provided by DSRSD. New four-inch sanitary sewer lines would be installed within the project site and would tie into the existing sanitary sewer main within Tassajara Road.

Stormwater. The project site is currently largely undeveloped and, therefore, contains minimal impervious surfaces. Upon construction of the proposed project, approximately 70 percent of the project site would be covered with impervious surfaces, and the remaining 30 percent

would be covered by pervious surfaces, consisting of landscaped and stormwater retention areas. The proposed project would include approximately 3,460 square feet of bioretention area on the project site that would be used for stormwater quality control. The proposed project would include approximately 18 bioretention basins and storm drains throughout the project site, which would connect to the existing stormdrain pipeline in Tassajara Road. Proposed storm drainage facilities would conform with the Alameda County C.3 Stormwater Technical guidelines and requirements.

Electricity and Gas. Electricity service is provided to the project site by the Pacific Gas & Electric Company (PG&E). The proposed project would include connections to proposed electrical lines within Tassajara Road. In Dublin, no new natural gas service is permitted beginning in January 2023, therefore, new natural gas connections would not be required.

Demolition, Grading and Construction

Excavation for the proposed project would require approximately 3,150 cubic yards of cut and 375 cubic yards of fill, resulting in approximately 2,775 cubic yards of material that would need to be off hauled from the project site. In addition, the proposed project would require demolition of the existing residence and associated outbuildings, resulting in approximately 6,200 square feet of material that would be removed from the project site. It is anticipated that the maximum depth of excavation for building pads would be approximately three feet and the maximum depth of utility trenching would be approximately five feet.

If approved, construction of the proposed project is anticipated to begin in fall of 2023 and be completed by fall of 2024. However, no vertical combustion construction can commence until the Tassajara Road Street Improvements Project[7] being conducted by the City of Dublin Department of Public Works is completed.

Project Entitlements

The City is the CEQA Lead Agency for the proposed project and will consider the environmental impacts of the proposed project as part of the project approval. The proposed project includes a minor amendment to the Stage 1 and Stage 2 Development Plan adopted by City Council in May 2014 for the Quarry Lane School (Ordinance No. 12-14). Pursuant to Dublin Municipal Code Section 8.32.080, the Planning Commission by means of a Conditional Use Permit may approve minor amendments to an adopted Development Plan upon a finding that the amendment substantially complies with and does not materially change the provisions or intent of the adopted Planned Development Zoning District Ordinance for the site. Thus, permits and approvals required for the proposed project include a Conditional Use Permit and Site Development Review Permit. Ministerial actions would be required for implementation of the

[7] The Tassajara Road Street Improvements project provides for design and construction of street improvements on Tassajara Road, between North Dublin Ranch Drive and Quarry Lane School. The project will widen Tassajara Road to a four-lane arterial standard, with bike lanes, sidewalks, landscaped median, stormwater treatment areas, and other associated street improvements.

project including issuance/approval of grading permits, encroachment permits, improvement plans, and building permits.

Public Agencies Whose Approval is Required (e.g., permits, financial approval, or participation agreements):

- State Water Resources Control Board (SWRCB) – National Pollutant Discharge Elimination System (NPDES) General Permit for Industrial and Construction Stormwater Discharges and Stormwater Pollution Prevention Plan (SWPPP) approval

Tribal Consultation

In March 2022, the City provided formal notification to the California Native American tribe that has requested notification under Assembly Bill 52. No response was received and no formal tribal consultation was requested.

Environmental Setting

Project Site and Existing Facilities

The site contains native and introduced tree and other vegetation species, as further described in Section 4, Biological Resources of this Initial Study. The site has historically been used as a landscape contracting business with outdoor storage and contains one single-family home and associated outbuildings. Building materials and similar equipment are currently stored on the site. The project site has a gradual slope to the south toward an unnamed tributary. A six-foot chain link fence with a four-foot-tall sheet metal barrier at the base has been installed along the southern property line to provide a wildlife barrier between the project site and adjacent tributary.

Surrounding land uses include Quarry Lane School to the north. To the east of the project site are open space lands that are part of the Northern Drainage Conservation Area (NDCA). Immediately south of the project site is the unnamed tributary of Tassajara Creek. Single-family residential development and undeveloped open space are located further to the south. Tassajara Road is located immediately to the west of the project site.

The project site is located immediately north of the unnamed tributary of Tassajara Creek, a major regional watercourse located west of the project site. The tributary was previously part of the project site but was subsequently parceled off to be restored and incorporated into a 245-acre permanent conservation easement with open space lands to the east. The restoration of the creek and the open space lands serve as mitigation for development allowed on portions of the nearby Dublin Ranch development. This mitigation was required by the Regional Water Quality Control Board (RWQCB). Today, the tributary is a separate parcel owned and managed by the Center for Natural Lands Management and is not part of the project site. The tributary is maintained in a natural open space area and provides suitable habitat for several special-status wildlife species. The tributary has been dedicated as a permanent conservation area and is

managed accordingly. No development is proposed within or immediately adjacent to the tributary.

Environmental Checklist

Environmental Factors Potentially Affected by the Project

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" or “Less than Significant with Mitigation Incorporated” as indicated by the checklist on the following pages.

	Aesthetics		Agricultural and Forestry Resources	X	Air Quality
	Biological Resources		Cultural Resources		Energy
	Geology / Soils		Greenhouse Gas Emissions		Hazards & Hazardous Materials
	Hydrology / Water Quality		Land Use / Planning		Mineral Resources
X	Noise		Population / Housing		Public Services
	Recreation		Transportation / Traffic		Tribal Cultural Resources
	Utilities / Service Systems		Wildfire	X	Mandatory Findings of Significance

Instructions

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question (see Source List, attached). A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that any effect may

be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

4. "Negative Declaration: Less Than Significant With Mitigation Incorporated: applies where incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level.
5. Earlier Analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, one or more effects have been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case a discussion should identify the following on attached sheets:
    a. Earlier analysis used. Identify earlier analyses and state where they are available for review.
    b. Impacts adequately addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
    c. Mitigation measures. For effects that are "Less than Significant with Mitigation Incorporated," describe the mitigation measures, which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
    - the significance criteria or threshold, if any, used to evaluate each question; and
    - the mitigation measure identified, if any, to reduce the impact to less than significance
10. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section

21080.3.1? If so, has consultation begun?

Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

Determination

On the basis of this initial evaluation:

I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.	
I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A SUPPLEMENTAL MITIGATED NEGATIVE DECLARATION will be prepared.	X
I find that the proposed project MAY have a significant effect on the environment and an ENVIRONMENTAL IMPACT REPORT is required.	
I find that the proposed project MAY have a potentially significant or a potentially significant unless mitigated impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.	
I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.	

CITY OF DUBLIN

_____ _____

Linda Ajello, AICP, Senior Planner Date

Explanation of Environmental Checklist Responses

Aesthetics

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
1.	**AESTHETICS. Would the project:**				
a)	Have a substantial adverse effect on a scenic vista?				X
b)	Substantially damage scenic resources, including but not limited to trees, rock outcroppings, and historic buildings within a state scenic highway?				X
c)	Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality				X
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			X	

Environmental Setting

The proposed project is located in eastern Dublin within the EDSP area. The project site is located just east of Tassajara Road and immediately to the south of the existing Quarry Lane School. The site has historically been used as landscape contracting business with outdoor storage and contains one single-family home and associated outbuildings. Building materials and similar equipment are currently stored on the site. Ruderal (weedy) vegetation is located in the middle and eastern half of the site.

The project site is located immediately north of the unnamed tributary of Tassajara Creek, a major regional watercourse located west of the project site. The tributary was previously part of the project site but was subsequently parceled off to be restored and incorporated into a 245-acre permanent conservation easement with open space lands to the east. The tributary is maintained in a natural open space area and provides suitable habitat for several special-status wildlife species. The tributary has been dedicated as a permanent conservation area and is managed accordingly.

The project site has a gradual slope to the south toward the unnamed tributary. A six-foot chain link fence with a four-foot-tall sheet metal barrier at the base has been installed along the

southern property line to provide a wildlife barrier between the project site and adjacent tributary.

No designated State scenic highways are visible from the project site. I-580, located 1.7 miles south of the project site, is an eligible State scenic highway and a designated Alameda County scenic route. I-680, located 3.5 miles west of the project site is an officially designated State scenic highway; however, due to the distance from the site and intervening development, there are no views to the project site from I-680. Tassajara Road, which borders the site to the east, is designated as a scenic route by Alameda County.

The site is located in a developed area. Streetlights, vehicle head and taillights on area roadways, and lighting associated with adjacent development are the existing sources of light and glare in the project area.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified potentially significant impacts related to standardized tract development, obscuring distinctive natural features, alteration of hillsides, ridges, and watercourses, alteration of Dublin's visual identity as a freestanding city, scenic vistas, and scenic routes. All of these impacts were determined to be less than significant with implementation of mitigation measures identified in the Eastern Dublin EIR. The Eastern Dublin EIR determined that impacts associated with the alteration of the rural/open space visual character of the project area and alteration of the visual character of the flatlands would be significant and unavoidable. Thus, a Statement of Overriding Considerations was adopted. The following mitigation measures would apply to the proposed project:

MM 3.8/1.0 Establish a visually distinctive community which preserves the character of the natural landscape by protecting key visual elements and maintaining views from major travel corridors and public spaces.

MM 3.8/2.0 Implement the land use plan for the Project site which emphasizes retention of the predominant natural features, such as ridgelines and watercourses, and sense of openness that characterize eastern Dublin.

MM 3.8/3.0 Preserve the natural open beauty of the hills and other important visual resources, such as creeks and major stands of vegetation.

MM 3.8/4.0 Visual impacts of extensive grading shall be reduced by sensitive engineering design, by using gradual transition from graded areas to natural slopes and by revegetation.

MM 3.8/4.1 Alterations of existing natural contours shall be minimized. Grading shall maintain the natural topography as much as possible. Grading beyond actual development areas shall be for remedial purposes only.

MM 3.8/4.4 Graded slopes shall be re-contoured to resemble existing landforms in the immediate area. Cut and graded slopes shall be revegetated with native vegetation suitable to hillside environments.

MM 3.8/4.5 The height of cut and fill slopes shall be minimized to the greatest degree possible. Grades for cut and fill slopes should be 3:1 or less whenever feasible.

MM 3.8/5.1 Structures shall not be located where they would obstruct scenic views or appear to extend above an identified scenic ridgetop (i.e., silhouetted) when viewed from designated scenic routes.

MM 3.8/6.0 Tassajara Creek and other stream corridors are visual features that have special scenic value for the planning area. The visual character of these corridors should be protected from unnecessary alteration or disturbance and adjoining development should be sites to maintain visual access to the stream corridors.

MM 3.8/7.0 Preserve views of designated open space areas.

MM 3.8/8.1 The City should require that projects with potential impacts on scenic corridors to submit a detailed visual analysis with development project application. Applicants will be required to submit graphic simulations and/or section drawn from affected travel corridors through the parcel in question, representing typical views of the parcel from scenic routes. The graphic depiction of the location and massing of the structure and associated landscaping can then be used to adjust the project design to minimize the visual impacts.

Project Impacts and Mitigation Measures

(a) Scenic vistas, views

No New Impact. A scenic vista is defined as a viewpoint that provides expansive views of a highly valued landscape for the benefit of the general public. Aesthetic components of a scenic vista generally include: 1) scenic quality; 2) sensitivity level; and 3) view access. According to the EDSP, views within the planning area are dominated by rolling hills; long-range views of scenic vistas are available from the flatlands near I-580 and higher elevations. Due to topographic conditions and residential development, scenic vistas from the surrounding hillsides to the east and west are obscured offering limited views from the project site.

The proposed project would result in the development of a dedicated space for the existing Performing Arts program for Quarry Lane School, with associated parking. Visible elements of the proposed project would include the new auditorium, a new vehicular access point and parking area, metal fencing, landscaping, and lighting. The most evident new features within the viewshed would be the auditorium measuring approximately 30 feet high, at the highest point, which is consistent with the maximum height limits established by the City.

The Eastern Dublin EIR contains Figure 3.8-H, Visually Sensitive Ridgelands, depicting portions of the Eastern Dublin area that contains ridges and ridgelands which are considered to be visually sensitive. As identified in the Eastern Dublin EIR, the hillside areas located to the east of the project site are designated as "Visually Sensitive Ridgelands-restricted development." As described above, the Eastern Dublin EIR determined that development associated with implementation of the EDSP would alter the character of existing scenic vistas and obscure important sightlines. These impacts were determined to be less than significant with implementation of mitigation measures identified in the Eastern Dublin EIR and listed above.

Although the proposed project would be visible from public vantage points, including Tassajara Road, it would not impede views from Tassajara Road to the scenic ridgelines to the east, which are already obscured by existing development and roadway infrastructure. The mass and scale of proposed facilities would be consistent with the existing school facility to the north and site topography, so as not to obstruct or impair scenic vistas of the ridgelines and hillsides in the project area. Landscaping along Tassajara Road would provide further screening of proposed built features. Consistent with Mitigation Measure 3.8/5.0, identified in the Eastern Dublin EIR, the proposed project would be required to undergo site-specific design review to ensure the project is consistent with City of Dublin design standards, property development regulations and performance standards related to aesthetics and to lessen the severity of visual changes resulting from the proposed project. Further, the proposed project would be required to implement other Mitigation Measures (MM 3.8/3.0, MM 3.8/4.0, MM 3.8/4.1, MM 3.8/4.4, MM 3.8/4.5, MM 3.8/5.1) identified in the Eastern Dublin EIR, which include design features to minimize visual impacts (e.g., sensitive grading, sensitive engineering design, revegetation).

Therefore, the project does not propose substantial changes affecting scenic vistas that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, the project would not substantially increase the severity of the previously identified impacts to scenic vistas/views, nor result in new significant impacts.

With adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR there would be no new or substantially more severe significant impacts to scenic vistas/views beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Scenic resources

No New Impact. As described above, no designated State scenic highways are located near the project site. The nearest eligible State scenic highway to the project area is I-580, which is approximately 1.7 miles south of the project site. However, Tassajara Road, which borders the site to the east, is designated as a scenic route by Alameda County.

The Eastern Dublin EIR determined that implementation of the EDSP has the potential to alter visual resources along scenic routes, including Tassajara Road (Impact 3.8/J). With

implementation of Mitigation Measures 3.8/8.0 and 8.1 which require the City to adopt scenic corridor policies and review procedures for projects within the scenic corridor viewshed and to require a detailed visual analysis for projects with potential impacts on scenic corridors, this impact was determined to be less than significant.

No substantial damage to scenic resources within a scenic corridor would occur as a result of implementation of the proposed project. Proposed improvements would include demolition of the existing structures on the site and development of a new performing arts center, entry, surface parking, and associated landscaping and safety lighting. The proposed project would not impact historic structures, or rock outcroppings, as these resources are not present on the project site. The proposed project would maintain the existing stream setback established for the tributary that borders the site to the south and would preserve existing trees within the setback area. In addition, new landscaping, including tree planting, is proposed along Tassajara Road and within the project site. Further, the mitigation measures identified in the Eastern Dublin EIR and the visual policies in the EDSP would apply to the proposed project and the proposed project would be required to undergo site-specific design review to ensure the project is consistent with City of Dublin design standards.

Therefore, the project does not propose substantial changes affecting scenic resources that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, the project would not substantially increase the severity of the previously identified impacts to scenic resources, nor result in new significant impacts.

With adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR there would be no new or substantially more severe significant impacts to scenic resources beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required..

(c) Substantially degrade the visual character of public views of the site or surrounding area

No New Impact. Implementation of the proposed project would result in the demolition of the existing structures on the project site and redevelopment of the site with a performing arts center and associated improvements (e.g., parking, landscaping, and lighting). The proposed project has been designed to be similar to and consistent with the existing Quarry Lane School facility. Landscaping would be provided along Tassajara Road and throughout the proposed parking area to provide additional visual screening from public vantage points. In addition, the proposed project would preserve existing visual features on the project site, including the riparian area associated with the unnamed tributary and provide new visual elements (e.g., entries, landscaping) to enhance and complement project improvements.

As described above, the Eastern Dublin EIR determined that visual impacts associated with the alteration of the rural/open space character of the project area and alteration of the visual character of the flatlands would be significant and unavoidable and therefore a Statement of

Overriding Considerations was adopted for the project. Other impacts to visual resources, including impacts to distinctive natural features, scenic vistas, and scenic routes, and alteration of hillsides, ridges, and watercourses were determined to be less than significant with implementation of mitigation measures identified in the Eastern Dublin EIR.

Consistent with the findings of the Eastern Dublin EIR, the proposed project would alter the visual character of the project site, which would be converted from residential/commercial development to public use/school. However, the mass and architectural style of the proposed project would be consistent with the visual character of the immediately adjacent existing school facility. In addition, existing vegetation associated with the unnamed tributary, which defines the site's southern boundary would be preserved and new landscaping, including tree planting, is proposed along Tassajara Road and within the project site, which would enhance the visual quality of the project site. The mitigation measures identified in the Eastern Dublin EIR and the visual policies in the City of Dublin General Plan would apply to the proposed project. In addition, the proposed project would be required to undergo site-specific design review to ensure the project is consistent with City of Dublin design standards, property development regulations and performance standards related to aesthetics and to lessen the severity of visual changes resulting from the proposed project. These existing requirements would include review of the physical improvements to the project site, including the overall building scale, massing, and design to ensure compatibility and compliance with City requirements governing scenic quality.

Therefore, the project does not propose substantial changes affecting visual character that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, the project would not substantially increase the severity of the previously identified impacts to visual character, nor result in new significant impacts.

With adherence to applicable regulatory requirements (e.g., design review) and mitigation measures identified in the Eastern Dublin EIR, there would be no new or substantially more severe significant impacts to visual character beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(d) Create a new source of substantial light or glare

Less Than Significant Impact. Streetlights, vehicle head and taillights on area roadways, and lighting associated with adjacent development are the existing sources of light and glare in the vicinity of the project site. The proposed project would include demolition of the existing structures on the project site and development of a new auditorium with associated parking, landscaping and other improvements. Safety and security lighting would be provided along pedestrian pathways, around the building and in the parking area. Drive aisle and parking area lighting would consist of 15-foot-high, pole-mounted LED lights. Lighting for pedestrian pathways would consist of 3-foot-high bollards.

At night, these new sources of light would be visible from a distance; however, the addition of new light sources associated with the proposed project would generally blend in with existing development on the project site and would represent a continuation of the existing development within this area of the City.

Light and glare impacts were not identified in the Eastern Dublin EIR. Therefore, development of the proposed project would result in a change in light and glare conditions as compared to the project evaluated in the Eastern Dublin EIR and would result in impacts that were not identified in the Eastern Dublin EIR. However, the proposed project would be required to comply with the lighting policies outlined in the City's Municipal Code, which establish minimum safety lighting levels and require light fixtures to be directed downward and away from adjoining properties, so that no on-site light fixture would directly illuminate any off-site areas. With adherence to these requirements, the proposed project would not create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area. Therefore, this impact would be less than significant.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new or substantially more severe significant impacts to aesthetics beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Agricultural and Forestry Resources

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
2. AGRICULTURE RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				X
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				X
c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?				X
d) Result in the loss of forest land or conversion of forest land to non-forest use?				X
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				X

Environmental Setting

The project site is not used for agricultural production and is not designated Prime Farmland, Unique Farmland, or Farmland of Statewide Importance on maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency. The surrounding area is characterized by undeveloped open space and residential uses.

The Farmland Mapping and Monitoring Program categorizes the project site as Urban and Built-Up Land and Grazing Land. Urban and Built-Up Land is defined as land that is occupied by structures with a building density of at least one unit to 1.5 acres, or approximately six structures to a 10-acre parcel. Examples of Urban and Built-Up Land include residential, industrial, commercial, institutional facilities, cemeteries, airports, golf courses, sanitary landfills, sewage treatment, and water control structures. Grazing Land is defined as land on which the existing vegetation is suited to the grazing of livestock.

No forest land exists on the project site; however, riparian vegetation associated with the unnamed tributary borders the project site to the south.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified less than significant impacts related to discontinuation of agricultural uses, loss of farmlands of local importance, indirect impacts resulting from non-renewal of Williamson Act contracts, and conversion of non-urban lands. Although the Eastern Dublin EIR determined that the loss of agricultural uses within the EDSP was less than significant, the Eastern Dublin EIR identified the cumulative loss of agricultural lands and open space as a significant unavoidable impact and a Statement of Overriding Considerations was adopted for this impact.

Project Impacts and Mitigation Measures

(a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (farmland)

No New Impact. As described above, the project site is not used for agricultural production and is not designated Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Therefore, the proposed project would not convert Prime Farmland, Unique Farmland, Farmland of Statewide Importance, or any other type of farmland to non-agricultural uses. No new impacts or substantially more severe significant impacts to Prime Farmland, Unique Farmland, or Farmland of Statewide Importance would occur. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to Prime Farmland, Unique Farmland or Farmland of Statewide Importance beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Conflict with existing zoning for agricultural use or a William Act contract

No New Impact. The project site is currently classified as Planned Development (PD) Ordinance No. 24-00 and Ordinance No. 12-14 on the City's Zoning Map. The project site is not currently used for agricultural purposes, not zoned for agricultural uses, and is not protected by, or eligible for, a Williamson Act contract. Therefore, the proposed project would not conflict with existing zoning for agricultural uses or Williamson Act contracts. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to zoning for agricultural use or Williamson Act contract beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(c) Conversion of land from Farmland or forest use

No New Impact. As described above, the project site is currently classified as PD Ordinance No. 24-00 and Ordinance No. 12-14 on the City's Zoning Map, which allows for residential uses on the project site. Neither the project site nor the surrounding area is zoned for agricultural use, forest land, timberland, or timberland production. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to conversion of farmland or forest land beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(d) Result in loss of forest land or conversion of forest

No New Impact. No forest or timberland exists on the project site or in the surrounding area and the proposed project would not result in the loss of forest land or the conversion of forest land to non-forest use. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to conversion of forest land beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(e) Conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use

No New Impact. The project site is not currently used as farmland or forest land. The proposed project would not result in the conversion of farmland on or off the project site to non-agricultural uses because there are no agricultural uses on or in the immediate vicinity of the project site. Likewise, the proposed project would not result in impacts related to changes in the existing environment that could result in the conversion of agricultural land to non-agricultural uses. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to conversion of farmland or forest land beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts to agricultural and forestry resources beyond what has been analyzed in the previous Eastern Dublin EIR, and no other

CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

California Department of Conservation (DOC). California Farmland Conservancy. California Important Farmland Finder. Website: maps.conservation.ca.gov/dlrp/ciff/ (accessed April 3, 2023).

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Air Quality

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
3. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?			X	
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?				X
c) Expose sensitive receptors to substantial pollutant concentrations?		X		
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?				X

Environmental Setting

The proposed project is located in the City of Dublin and is within the jurisdiction of the Bay Area Air Quality Management District (BAAQMD), which regulates air quality in the San Francisco Bay Area. Air quality conditions in the San Francisco Bay Area have improved significantly since BAAQMD was created in 1955. Ambient concentrations of air pollutants and the number of days during which the region exceeds air quality standards have fallen substantially. In Dublin, and the rest of the Air Basin, exceedances of air quality standards occur primarily during meteorological conditions conducive to high pollution levels, such as cold, windless winter nights or hot, sunny summer afternoons.

Within BAAQMD, ambient air quality standards for ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter (PM_{10}, $PM_{2.5}$), and lead (Pb) have been set by both the State of California and federal government. The State has also set air quality standards for sulfate and visibility. BAAQMD is listed as a State non-attainment area for ozone and particulate matter air quality standards. BAAQMD is classified as a non-attainment area for the federal ozone 8-hour standard and non-attainment for the federal $PM_{2.5}$ 24-hour standard.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified that mobile source CO emissions would be less than significant and construction dust emissions would be less than significant with implementation of mitigation measures identified in the Eastern Dublin EIR. In addition, the Eastern Dublin EIR identified that impacts associated with construction equipment/vehicle emissions, mobile source reactive organic gases (ROG) and nitrogen oxide (NO_x) emissions, and stationary source emissions would be significant and unavoidable. Thus, a Statement of Overriding Considerations was adopted. The following mitigation measures would apply to the proposed project:

MM 3.11/1.0 The City of Dublin shall:

- Require watering in late morning and at the end of the day; the frequency of watering should increase if wind exceeds 15 mph. Watering should include all excavated and graded areas and material to be transported off-site. Use recycled or other non-potable water resources where feasible.
- Require daily cleanup of mud and dust carried onto street surfaces by construction vehicles.
- Require excavation haul trucks to use tarpaulins or other effective covers.
- Require that, upon completion of construction, measures shall be taken to reduce wind erosion. Replanting and repaving should be completed as soon as possible.
- Require that unnecessary idling of construction equipment is avoided.
- Require that, after grading is completed, fugitive dust on exposed soil surfaces shall be controlled using the following methods:
    - All inactive portions of the construction site should be seeded and watered until grass growth is evident.
    - Require that all portions of the site shall be sufficiently watered to prevent excessive amounts of dust.
    - Require that, at all times, the following procedures should be followed:
        - On-site vehicle speed shall be limited to 15 mph.
        - Use of petroleum-based palliative shall meet the road oil requirements of the Air Quality District. Non-petroleum-based tackifiers may be required by the Public Works Director.
        - The Public Works Department will handle all dust complaints. The Public Works Director may require the services of an air quality consultant to

advice the City on the severity of the dust problem and additional ways to mitigate impacts on residents, including temporarily halting project construction. Dust concerns in adjoining communities as well as the City of Dublin shall be controlled. Control measures shall be related to wind conditions. Air quality monitoring of PM levels shall be provided as directed by the Public Works Director in Dublin.

MM 3.11/2.0 Minimize construction interference with regional non-project traffic movement by:

- Scheduling receipt of construction materials to non-peak travel periods.
- Routing construction traffic through areas of least impact sensitivity.
- Limiting lane closures and detours to off-peak travel periods.
- Providing ride-share incentives for contractor and subcontractor personnel.

MM 3.11/3.0 Require emissions control from on-site equipment through a routine mandatory program of low-emissions tune-ups.

MM 3.11/4.0 Require preparation of a construction impact reduction plan that incorporates all proposed air quality mitigation strategies with clearly defined responsibilities for plan implementation and supervision.

MM 3.11/5.0 Exercise interagency cooperation with a sub-regional and on a regional basis to integrate air quality planning efforts with transportation, transit, and other infrastructure plans.

MM 3.11/6.0 Maintain consistency among specific development plans and regional transportation and growth management plans.

MM 3.11/7.0 Implement transportation demand management (TDM) techniques to reduce mobile source emissions.

MM 3.11/8.0 Optimize the existing transportation system to reduce congestion and shift travel to non-peak travel periods.

MM 3.11/9.0 Coordinate levels of growth with roadway transportation facilities improvements to accommodate travel demand without inducing demand by providing excess system capacity.

MM 3.11/10.0 Encourage mixed-use development that provides housing, jobs, goods and services in close proximity.

MM 3.11/11.0 Require linkage between growth of housing and job opportunities consistent with a positive sub-regional contribution to jobs/housing ratio balances.

MM 3.11/12.0 Stationary source emissions associated with Project development should also be minimized where feasible to reduce overall cumulative impacts. Minimum energy conservation standards are established in Title 24 of the California Code of Regulations. Design practice can achieve a slightly greater level of conservation than the minimum standards. A conservation target level for some fraction of Eastern Dublin development of 10 percent above the minimum should be implemented as an appropriate acknowledgement of the desired "environmentally-friendly" community character for this Project.

MM 3.11/13.0 Solid waste recycling should be included in all development planning to ensure that recycling criteria specified in AB-939 can be most easily met.

Project Impacts and Mitigation Measures

(a) Consistency with air quality plans

Less Than Significant Impact. BAAQMD's Clean Air Plan is a comprehensive plan to improve Bay Area air quality and protect public health. The Clean Air Plan defines control strategies to reduce emissions and ambient concentrations of air pollutants; safeguard public health by reducing exposure to air pollutants that pose the greatest heath risk, with an emphasis on protecting the communities most heavily affected by air pollution; and reduce greenhouse gas (GHG) emissions to protect the climate. Consistency with the Clean Air Plan can be determined if the project: (1) supports the goals of the Clean Air Plan; (2) includes applicable control measures from the Clean Air Plan; and (3) would not disrupt or hinder implementation of any control measures from the Clean Air Plan.

Clean Air Plan Goals. The primary goals of the Bay Area Clean Air Plan are to: attain air quality standards, reduce population exposure and protect public health in the Bay Area, and reduce GHG emissions and protect climate.

BAAQMD has established significance thresholds for project construction and operational impacts at a level at which the cumulative impact of exceeding these thresholds would have an adverse impact on the region's attainment of air quality standards. The health and hazards thresholds were established to help protect public health. As discussed below in Section 3b, implementation of the proposed project would result in less-than-significant operation-period emissions and, with implementation of implementation of Mitigation Measures 3.11/2.0 and 3.11/3.0 from the Eastern Dublin EIR, the project would result in less-than-significant construction-period emissions. Therefore, the project would not conflict with the Clean Air Plan goals.

Clean Air Plan Control Measures. The control strategies of the Clean Air Plan include measures in the following categories: Stationary Source Measures, Transportation Measures, Energy

Measures, Building Measures, Agriculture Measures, Natural and Working Lands Measures, Waste Management Measures, Water Measures, and Super-GHG Pollutants Measures.

Stationary Source Control Measures. The Stationary Source Control Measures, which are designed to reduce emissions from stationary sources such as metal melting facilities, cement kilns, refineries, and glass furnaces, are incorporated into rules adopted by BAAQMD and then enforced by BAAQMD's Permit and Inspection programs. Since the project would not include any stationary sources of emissions, the Stationary Source Control Measures of the Clean Air Plan are not applicable to the project.

Transportation Control Measures. BAAQMD identifies Transportation Control Measures as part of the Clean Air Plan to decrease emissions of criteria pollutants, toxic air contaminants (TACs), and GHGs by reducing demand for motor vehicle travel, promoting efficient vehicles and transit service, decarbonizing transportation fuels, and electrifying motor vehicles and equipment. The project would construct a performing arts center on a site immediately adjacent to the existing Quarry Lane School. The proposed project would provide a dedicated space for the existing performing arts program but would not include any growth in total student enrollment or an expansion of existing school operations. In addition, the proposed project would not result in a change in trip generation. Therefore, the project would not conflict with the BAAQMD's initiatives to reduce vehicle trips and vehicle miles traveled (VMT) and would increase the use of alternate means of transportation.

Energy Control Measures. The Clean Air Plan also includes Energy Control Measures, which are designed to reduce emissions of criteria air pollutants, TACs, and GHGs by decreasing the amount of electricity consumed in the Bay Area, as well as decreasing the carbon intensity of the electricity used by switching to less GHG-intensive fuel sources for electricity generation. Since these measures apply to electrical utility providers and local government agencies (and not individual projects), the Energy Control Measures of the Clean Air Plan are not applicable to the project.

Building Control Measures. BAAQMD has authority to regulate emissions from certain sources in buildings such as boilers and water heaters but has limited authority to regulate buildings themselves. Therefore, the strategies in the control measures for this sector focus on working with local governments that do have authority over local building codes, to facilitate adoption of best GHG control practices and policies. The proposed project would be required to comply with the latest California Green Building Standards Code (CALGreen) standards. Therefore, the Building Control Measures of the Clean Air Plan are not applicable to the project.

Agriculture Control Measures. The Agriculture Control Measures are designed to primarily reduce emissions of methane. Since the project does not include any agricultural activities, the Agriculture Control Measures of the Clean Air Plan are not applicable to the project.

Natural and Working Lands Control Measures. The Natural and Working Lands Control Measures focus on increasing carbon sequestration on rangelands and wetlands, as well as encouraging local governments to enact ordinances that promote urban-tree plantings. Since

the project does not include the disturbance of any rangelands or wetlands, the Natural and Working Lands Control Measures of the Clean Air Plan are not applicable to the project.

Waste Management Control Measures. The Waste Management Measures focus on reducing or capturing methane emissions from landfills and composting facilities, diverting organic materials away from landfills, and increasing waste diversion rates through efforts to reduce, reuse, and recycle. The project would comply with local requirements for waste management (e.g., recycling and composting services). Therefore, the project would be consistent with the Waste Management Control Measures of the Clean Air Plan.

Water Control Measures. The Water Control Measures focus on reducing emissions of criteria pollutants, TACs, and GHGs by encouraging water conservation, limiting GHG emissions from publicly owned treatment works (POTWs), and promoting the use of biogas recovery systems. Since these measures apply to POTWs and local government agencies (and not individual projects), the Water Control Measures are not applicable to the project.

Super-GHG Control Measures. The Super-GHG Control Measures are designed to facilitate the adoption of best GHG control practices and policies through BAAQMD and local government agencies. Since these measures do not apply to individual projects, the Super-GHG Control Measures are not applicable to the project.

Clean Air Plan Implementation. As discussed above, the proposed project would implement the applicable measures outlined in the Clean Air Plan, including Transportation Control Measures. Therefore, the project would not disrupt or hinder implementation of a control measure from the Clean Air Plan. The Eastern Dublin EIR did not evaluate consistency with the applicable clean air plan; therefore, development of the proposed project would result in impacts that were not identified in the Eastern Dublin EIR. However, because the proposed project would be consistent with the Clean Air Plan, this impact would be less than significant.

(b) Violate air quality standards or cause cumulatively considerable air pollutants

No New Impact. Both State and federal governments have established health-based Ambient Air Quality Standards for six criteria air pollutants: CO, ozone (O_3), NO_2, SO_2, Pb, and suspended particulate matter (PM). These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. As identified above, BAAQMD is under State non-attainment status for ozone, PM_{10}, and $PM_{2.5}$ standards. The Air Basin is also classified as non-attainment for both the federal ozone 8-hour standard and the federal $PM_{2.5}$ 24-hour standard.

Air quality standards for the proposed project are regulated by the BAAQMD CEQA Air Quality Guidelines. According to the BAAQMD CEQA Air Quality Guidelines, to meet air quality standards for operational-related criteria air pollutant and air precursor impacts, the project must not:

- Contribute to CO concentrations exceeding the State ambient air quality standards;

- Generate average daily construction emissions of ROG, NO_x, or $PM_{2.5}$ greater than 54 pounds per day or PM_{10} exhaust emissions greater than 82 pounds per day; or
- Generate average operational emissions of ROG, NO_x or $PM_{2.5}$ of greater than 10 tons per year or 54 pounds per day or PM_{10} emissions greater than 15 tons per year or 82 pounds per day.

The following sections describe the proposed project's construction- and operation-related air quality impacts and CO impacts.

Construction Emissions. As discussed above, the Eastern Dublin EIR found that that proposed development would result in significant and unavoidable impacts associated with construction activities. Mitigation Measures 3.11/1.0, 3.11/2.0, 3.11/3.0, and 3.11/4.0 were identified, but were insufficient to reduce impacts to a less-than-significant level and therefore a Statement of Overriding Considerations was adopted for the project.

During construction of the proposed project, construction dust would affect local and regional air quality at various times during the build-out period of the project. The dry, windy climate of the area during the summer months combined with the fine, silty soils of the region create a high potential for dust generation. Emissions during the grading phase of construction are primarily associated with the exhaust of large earth moving equipment and the dust which is generated through grading activities. Emissions in later stages of construction are primarily associated with construction employee commute vehicles, asphalt paving, mobile equipment, stationary equipment, and architectural coatings.

The effects of construction activities would be increased dustfall and locally elevated levels of PM_{10} near the construction activity. Depending on the weather, soil conditions, the amount of activity taking place, and nature of dust control efforts, these impacts could affect existing or future residential areas within or near the project.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. BAAQMD has established standard measures for reducing fugitive dust emissions (PM_{10}). With the implementation of these Basic Construction Mitigation Measures, fugitive dust emissions from construction activities would not result in adverse air quality impacts.

In addition to dust related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, SO_2, NO_x, ROGs and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles are delayed. These emissions would be temporary and limited to the immediate area surrounding the construction site.

Construction emissions were estimated for the project using the California Emissions Estimator Model (CalEEMod) version 2022.1, consistent with BAAQMD recommendations. Construction of the proposed project is anticipated to begin in fall of 2023 and be completed by fall of 2024,

which was included in CalEEMod. In addition, the project would require the off-haul of approximately 2,775 cubic yards of material which was also included in CalEEMod. The proposed project would require demolition of the existing residence and associated outbuildings, resulting in approximately 6,200 square feet of material that would be removed from the project site, which was included in CalEEMod. In addition, this analysis assumes the use of Tier 2 construction equipment. Construction-related emissions are presented in Table A. CalEEMod output sheets are included in Appendix A.

Table A: Project Construction Emissions in Pounds Per Day

Project Construction	ROG	NO_x	Exhaust PM_{10}	Fugitive Dust PM_{10}	Exhaust $PM_{2.5}$	Fugitive Dust $PM_{2.5}$
Average Daily Emissions	0.8	9.9	0.4	0.3	0.4	0.1
BAAQMD Thresholds	54.0	54.0	82.0	BMP	54.0	BMP
Exceed Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: LSA (January 2023).
BMP = Best Management Practices

As shown in Table A, construction emissions associated with the project would be less than significant for ROG, NO_x, $PM_{2.5}$, and PM_{10} exhaust emissions. BAAQMD requires the implementation of the BAAQMD's Basic Construction Mitigation Measures (best management practices) to minimize construction fugitive dust impacts. The Eastern Dublin EIR identified Mitigation Measure 3.11/1.0 to minimize emission of dust. BAAQMD has since adopted newer and more restrictive standards to reduce construction dust and construction vehicle emissions to which the project applicant must adhere in order to reduce this construction impact to a less-than-significant level. Mitigation Measure 3.11-1.0 has been modified (with additions in double-underline and deletions in ~~strikethrough~~), as shown below, to include the latest BAAQMD Basic Construction Measures. Mitigation Measures 3.11/2.0, 3.11/3.0, and 3.11/4.0 would still be applicable to the proposed project.

MM 3.11/1.0 The City of Dublin shall:

- Require watering in late morning and at the end of the day; the frequency of watering should increase if wind exceeds 15 mph. Watering should include all excavated and graded areas and material to be transported off-site. Use recycled or other non-potable water resources where feasible.
- Require daily cleanup of mud and dust carried onto street surfaces by construction vehicles.
- Require excavation haul trucks to use tarpaulins or other effective covers.
- Require that, upon completion of construction, measures shall be taken to reduce wind erosion. Replanting and repaving should be completed as soon as possible.

- Require that unnecessary idling of construction equipment is avoided.
- Require that, after grading is completed, fugitive dust on exposed soil surfaces shall be controlled using the following methods:
  - All inactive portions of the construction site should be seeded and watered until grass growth is evident.
  - Require that all portions of the site shall be sufficiently watered to prevent excessive amounts of dust.
  - Require that, at all times, the following procedures should be followed:
    - On-site vehicle speed shall be limited to 15 mph.
    - Use of petroleum-based palliative shall meet the road oil requirements of the Air Quality District. Non-petroleum-based tackifiers may be required by the Public Works Director.
    - The Public Works Department will handle all dust complaints. The Public Works Director may require the services of an air quality consultant to advice the City on the severity of the dust problem and additional ways to mitigate impacts on residents, including temporarily halting project construction. Dust concerns in adjoining communities as well as the City of Dublin shall be controlled. Control measures shall be related to wind conditions. Air quality monitoring of PM levels shall be provided as directed by the Public Works Director in Dublin.
  - All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
  - All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
  - All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
  - All vehicle speeds on unpaved roads shall be limited to 15 mph.
  - All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible.
  - Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
  - Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California

Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.

- All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
- A publicly visible sign shall be posted with the telephone number and person to contact at the City of Dublin regarding dust complaints. This person shall respond and take corrective action within 48 hours. BAAQMD's phone number shall also be visible to ensure compliance with applicable regulations.

With implementation of Mitigation Measure 3.11/1.0, as modified above, and Mitigation Measures 3.11/2.0, 3.11/3.0 and 3.11/4.0, the proposed project would not result in any new or more severe impacts related to construction period emissions compared to those previously identified in the Eastern Dublin EIR.

Operational Emissions. The Eastern Dublin EIR found that proposed development would result in significant and unavoidable impacts associated with project operation activities. Mitigation Measures 3.11/5.0, 3.11/6.0, 3.11/7.0, 3.11/8.0, 3.11/9.0, 3.11/10.0, and 3.11/11.0 were identified but were insufficient to reduce impacts to a less than significant level and therefore a Statement of Overriding Considerations was adopted for the project.

Long-term air pollutant emission impacts associated with the proposed project are those related to mobile sources (e.g., vehicle trips), energy sources (e.g., electricity and natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment).

PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways. Entrainment of PM_{10} occurs when vehicle tires pulverize small rocks and pavement and the vehicle wakes generate airborne dust. The contribution of tire and brake wear is small compared to the other PM emission processes. Gasoline-powered engines have small rates of particulate matter emissions compared with diesel-powered vehicles. The project would construct a performing arts center immediately adjacent to the existing Quarry Lane School site. The proposed project would provide a dedicated space for the existing performing arts program but would not include any growth in total student enrollment or an expansion of existing school operations. As discussed in Section 17, Transportation, the proposed project would not result in a change in trip generation; therefore, the proposed project would not result in mobile source emissions.

Energy source emissions result from activities in buildings for which natural gas is used. The quantity of emissions is the product of usage intensity (i.e., the amount of gas) and the emission factor of the fuel source. No new natural gas service is permitted beginning in January

2023, so no new natural gas connections would be required. As such, the proposed project would not result in energy source emissions.

Typically, area source emissions consist of direct sources of air emissions located at the project site, including architectural coatings and the use of landscape maintenance equipment.

Emission estimates for operation of the project were calculated using CalEEMod. Model results are shown in Table B. The primary emissions associated with the project are regional in nature, meaning that air pollutants are rapidly dispersed on release or, in the case of vehicle emissions associated with the project, emissions are released in other areas of the Air Basin. The daily and annual emissions associated with project operational trip generation, energy, and area sources are identified in Table B for ROG, NO_x, PM_{10}, and $PM_{2.5}$.

Table B: Project Operational Emissions

	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**
Pounds Per Day				
Area Source Emissions	0.4	<0.1	<0.1	<0.1
Energy Source Emissions	0.0	0.0	0.0	0.0
Mobile Source Emissions	0.0	0.0	0.0	0.0
Total Project Emissions	**0.4**	**<0.1**	**<0.1**	**<0.1**
BAAQMD Thresholds	54.0	54.0	82.0	54.0
Exceed Threshold?	**No**	**No**	**No**	**No**
Tons Per Year				
Area Source Emissions	0.1	<0.1	<0.1	<0.1
Energy Source Emissions	0.0	0.0	0.0	0.0
Mobile Source Emissions	0.0	0.0	0.0	0.0
Total Project Emissions	**0.1**	**<0.1**	**<0.1**	**<0.1**
BAAQMD Thresholds	10.0	10.0	15.0	10.0
Exceed Threshold?	**No**	**No**	**No**	**No**

Source: LSA (January 2023).

The results shown in Table B indicate the project would not exceed the significance criteria for daily or annual ROG, NO_x, PM_{10} or $PM_{2.5}$ emissions; therefore, the proposed project would not have a significant effect on regional air quality.

Localized CO Impacts. The Eastern Dublin EIR found that the project would generate additional traffic volumes, increasing local levels of carbon monoxide. However, the Eastern Dublin EIR determined that such increases would be below the standard of air quality significance.

Emissions and ambient concentrations of CO have decreased dramatically in the Bay Area with the introduction of the catalytic converter in 1975. No exceedances of the State or federal CO standards have been recorded at Bay Area monitoring stations since 1991. BAAQMD's 2017 CEQA Guidelines include recommended methodologies for screening and quantifying concentrations of localized CO levels for intersections that would be in a project vicinity. A screening level analysis using guidance from the BAAQMD CEQA Guidelines was performed to determine the impacts of the project. The screening methodology provides a conservative indication of whether the implementation of a proposed project would result in significant CO emissions. According to BAAQMD's CEQA Guidelines, a proposed project would result in a less-than-significant impact to localized CO concentrations if the following screening criteria are met:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, and the regional transportation plan and local congestion management agency plans.
- Project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.
- The project would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, or below-grade roadway).

Implementation of the proposed project would not conflict with the Alameda County Transportation Commission's congestion management programs. The proposed project would not result in a change in trip generation; therefore, the project would not contribute to peak hour traffic volumes at intersections in the vicinity of the project site would be well below 44,000 vehicles per hour. Therefore, the proposed project would not result in localized CO concentrations that exceed State or federal standards.

With adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, as modified above, there would be no new or substantially more severe significant impacts to air quality resources beyond what has been analyzed in the Eastern Dublin EIR.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, as modified above, there would be no new impacts related to air emissions and pollutant

concentrations beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met for this project impact. Therefore, no further environmental review is required.

(c) Expose sensitive receptors to pollutant concentrations

Less Than Significant Impact with Mitigation Incorporated. Sensitive receptors are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Individuals particularly vulnerable to diesel particulate matter include children, whose lung tissue is still developing, and the elderly, who may have serious health problems that can be aggravated by exposure to diesel particulate matter. Exposure from diesel exhaust associated with construction activity contributes to both cancer and chronic non-cancer health risks.

The project site is located in an urban area in close proximity to existing residential uses that could be exposed to diesel emission exhaust during the construction period. In addition, the project site is located at the existing Quarry Lane School, and construction could expose students to diesel emission exhaust.

To estimate the potential cancer risk from project construction equipment exhaust (including diesel particulate matter), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location (i.e., a nearby residential land use). Dispersion modeling varies from a simpler, more conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the California Air Resources Board (CARB) exposure methodology, with the air dispersion modeling performed using the United States Environmental Protection Agency (USEPA) dispersion model AERMOD. The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and site-specific meteorological data. Table C, below, identifies the results of the analysis utilizing the standard Tier 2 construction equipment. Model snap shots of the sources are provided in Appendix B.

Table C: Unmitigated Inhalation Health Risks from Project Construction to Off-Site Receptors

	Carcinogenic Inhalation Health Risk in One Million	**Chronic Inhalation Hazard Index**	**Acute Inhalation Hazard Index**	**Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)**
School Receptor Risk	15.16	0.057	0.000	0.284
Residential Receptor Risk	14.55	0.015	0.000	0.074
BAAQMD Significance Threshold	**10.0**	**1.0**	**1.0**	**0.30**
Exceed Threshold?	**Yes**	**No**	**No**	**No**

Source: LSA (January 2023).
BMP = Best Management Practices

As shown in Table C, the maximum cancer risk for the school receptor maximally exposed individual (MEI) would be 15.16 in one million, which would exceed the BAAQMD cancer risk threshold of 10 in one million. The residential receptor MEI risk would be lower at 14.55 in one million, but which would also exceed the threshold. The total chronic hazard index would be 0.057 for the school receptor MEI and 0.015 for the residential receptor MEI, which is below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.000), which would also not exceed the threshold of 1.0. The results of the analysis indicate that the total $PM_{2.5}$ concentration would be 0.284 µg/m^3 for the school receptor MEI and 0.074 for the residential receptor MEI, both of which would not exceed the BAAQMD significance threshold of 0.30 µg/m^3. As indicated above, the cancer risk of 15.16 in one million for the school receptor MEI and 14.55 in one million for the residential receptor MEI would exceed BAAQMD thresholds. Therefore, implementation of Project-Specific Mitigation Measure AIR-1 would be required to reduce substantial pollutant concentrations during project construction.

Project-Specific MM AIR-1: During construction of the proposed project, the project contractor shall ensure all off-road diesel-powered construction equipment of 50 horsepower or more used for the project construction at a minimum meets the California Air Resources Board Tier 2 emissions standards equipped with Level 3 diesel particulate filters or the equivalent.

Table D identifies the results of the analysis with implementation of Project-Specific Mitigation Measure Mitigation Measure AIR-1.

Table D: Mitigated Inhalation Health Risks from Project Construction to Off-Site Receptors

	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration (µg/m^3)
School Receptor Risk	2.34	0.009	0.000	0.046
Residential Receptor Risk	2.25	0.002	0.000	0.012
BAAQMD Significance Threshold	**10.0**	**1.0**	**1.0**	**0.30**
Exceed Threshold?	**No**	**No**	**No**	**No**

Source: LSA (January 2023).
BMP = Best Management Practices

As shown in Table D, the mitigated cancer risk would be 2.34 in one million at the school receptor MEI and 2.25 in one million at the residential receptor MEI, which would not exceed the BAAQMD cancer risk of 10 in one million. Therefore, with implementation of Project-Specific Mitigation Measure AIR-1, construction of the proposed project would not exceed BAAQMD thresholds and would not expose nearby sensitive receptors to substantial pollutant concentrations.

Once the proposed project is constructed, the proposed project would not be a source of substantial emissions. Therefore, implementation of the proposed project would not result in new sources of TACs.

Therefore, the project would not expose sensitive receptors to substantial levels of TACs and this impact would be less than significant with mitigation incorporated.

(d) Odors

No New Impact. During construction, the various diesel-powered vehicles and equipment in use on the site would create localized odors. These odors would be temporary and are not likely to be noticeable for extended periods of time beyond the project site because construction activities would be temporary and odors generated from construction activities would be isolated to the immediate vicinity of the construction site. The potential for diesel odor impacts is, therefore, considered to be less than significant. In addition, the proposed project would not include any activities or operations that would generate objectionable odors and once operational, it would not be a source of odors Therefore, the proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to odors beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met for these two project impacts. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR for the following project impacts (subsections (b), and (d)): violation of air quality standards or cause cumulatively considerable air pollutants and odors. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR and modified above, there would be no new impacts to air quality beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met for these two project impacts. Therefore, no further environmental review is required for these project impacts.

Although the Eastern Dublin EIR did not evaluate consistency with the applicable clean air plan, the proposed project would be consistent with the Clean Air Plan. Therefore, based on this environmental analysis, the project impact related to consistency with air quality plans (subsection (a)) would be less than significant and no mitigation is required.

For the project impact related to exposure of sensitive receptors to pollutant concentrations (subsection (c)), the proposed project would not expose sensitive receptors to substantial levels

of TACs and this impact would be less than significant with implementation of a project specific mitigation measure (Mitigation Measure AIR-1).

Source(s)

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Biological Resources

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
4.	**BIOLOGICAL RESOURCES. Would the project:**				
a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				X
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				X
c)	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				X
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				X
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				X
f)	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				X

Environmental Setting

Methods

To identify special-status plant and animal species known to occur or potentially occurring in the project site vicinity, the following resources were queried: 1) California Department of Fish

and Wildlife California Natural Diversity Database (CNDDB[8]) for species records within a 5-mile radius of the project site using Geographic Information Systems (GIS) software; 2) California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants of California[9] for records of special-status plant species; 3) U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation on-line system;[10] and 4) milkweed tracker.[11] Previous biological resources reports for the project site were also reviewed.[12,13]

A biologist conducted a reconnaissance-level field survey on January 6, 2023. During this survey, preliminary information on vegetation types, wildlife habitat, and sensitive habitat (e.g., wetlands) was collected.

The scientific and vernacular nomenclature for the plant and wildlife species used in this analysis are from the following standard sources: plants, Baldwin et al.[14] and updates listed on the Jepson Herbarium website (ucjeps.berkeley.edu/eflora/); amphibians and reptiles, Crother;[15] birds, American Ornithologists' Union and supplements through 2022;[16] and mammals, Bradley et al.[17]

Project Site

The proposed project would redevelop the approximately 2.64-acre project site with the performing arts center. The house and associated buildings are situated at the western boundary along Tassajara Road, while ruderal (weedy) vegetation is located in the middle and eastern half of the site. Almost all of the site was disturbed in the past for its use as a landscape storage yard. An old foundation is located near the eastern boundary of the site. The ruderal vegetation is interspersed with gravel. A tributary to Tassajara Creek and its associated riparian woodland is located to the south and the existing school campus and landscaping are located to

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8 California Department of Fish and Wildlife. 2023. California Natural Diversity Database, commercial version dated January 2023. Biogeographic Data Branch, California Department of Fish and Wildlife, Sacramento.

9 California Native Plant Society, Rare Plant Program. 2023. Rare Plant Inventory (online edition, v9.5). Website https://www.rareplants.cnps.org [accessed January 16, 2023].

10 United States Fish and Wildlife Service. 2023. Information for Planning and Consultation (IPaC). January 16.

11 Xerces Society for Invertebrate Conservation, Idaho Department of Fish and Game, Washington Department of Fish and Game, National Fish and Wildlife Foundation, and U.S. Fish and Wildlife Service.2023. Western Monarch Milkweed Mapper. Available at: https://www.monarchmilkweedmapper.org.

12 LSA Associates, Inc. 2014. Biological Resources Report for the 6237 Tassajara Road Property Dublin, Alameda County, California. January 15.

13 LSA Associates, Inc. 2017. Biological Resources Report Update, 6237 Tassajara Road, Dublin. May 9.

14 Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken, editors. 2012. The Jepson Manual: Vascular Plants of California, Second Edition. University of California Press, Berkeley.

15 Crother, B.I. (ed.). 2017. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in Our Understanding, pp. 1-102. SSAR Herpetological Circular No. 43.

16 American Ornithologists' Union (AOU). 1998. Check-list of North American Birds. 7th Edition. American Ornithologists' Union, Washington, D.C.

17 Bradley, R.D., L.K. Ammerman, R.J. Baker, L.C. Bradley, J.A. Cook, R.C. Dowler, D.J. Schmidly, F.B. Stangl, Jr., R.A. Van Den Bussche, and B. Würsig. 2014. Revised Checklist of North American Mammals North of Mexico, 2014. Occasional Papers, Museum of Texas Tech University No. 237.

the north. The riparian woodland and tributary are part of the Northern Drainage Conservation Area (NDCA) and are separated from the project site by an existing 6-foot-high chain link fence with a 3.5-foot-high sheet metal barrier along its base that was constructed along the southern site boundary. A concrete v-ditch and planted coast live oak (*Quercus agrifolia*), valley oak (*Q. lobata*), and ornamental plants are located north of the site between the project site and the existing school campus. An off-site eucalyptus (*Eucalyptus* sp.) grove is located to the east. A potentially jurisdictional seasonal wetland was also observed just east of the site. Elevations at the site range from approximately 435 to 460 feet (132 to 140 meters) above sea level.

The existing chain-link fence and sheet metal barrier that parallels the southern site boundary is an important component of the adjacent NDCA since it prevents wildlife from moving onto the site. The fence would remain intact during and after construction and should also extend from its current end at the southeastern corner of the site to the northeastern corner.

Vegetation and Cover Types. Vegetation includes mostly ruderal plants and non-native annual grasses, ornamental plants near the existing structures, and branches of riparian trees that are growing extending over the project site's southern boundary. A tributary to Tassajara Creek and associated riparian woodland occurs along the southern boundary. Other cover types on the site include paved and graveled hardscape.

Ruderal Non-Native Annual Grassland. The majority of the project site supports non-native annual grassland and ruderal vegetation. Grass species observed in the annual grasslands are almost exclusively non-native grasses, including wild oats (*Avena* spp.), ripgut brome (*Bromus diandrus*), soft chess (*B. hordeaceus*), and fox tail barley (*Hordeum murinum*). Non-native shrubs and forbs observed include black mustard (*Brassica nigra*), Russian thistle (*Salsola tragus*), Italian thistle (*Carduus pycnocephalus*), bull thistle (*Cirsium vulgare*), purple star thistle (*Centaurea calcitrapa*), yellow star thistle (*C. solstitialis*), curly dock (*Rumex crispus*), filaree (*Erodium* spp.), bristly ox-tongue (*Helminthotheca echioides*), cheeseweed (*Malva parviflora*), and ornamental sage (*Salvia* sp.). A few small native coyote brush (*Baccharis pilularis*) shrubs and coast live oaks are also present in the grassland.

Riparian Woodland and Tributary. Riparian woodland vegetation that is associated with a tributary to Tassajara Creek is located along the southern boundary of the site. The riparian woodland is located within the 267-acre NDCA unit of the Dublin Ranch Preserve, managed by the Center for Natural Lands Management. The 717-acre preserve was established in 2010 as mitigation for the nearby Dublin Ranch development project. The stream associated with the riparian woodland is an unnamed tributary to Tassajara Creek, which flows to the west of the site. Woody vegetation along the approximately 880-foot channel section that parallels the southern site boundary consists of native species that have been planted as mitigation for the nearby Dublin Ranch development. The upper portions of the channel bank support remnant orchard tree snags likely retained as habitat for cavity-nesting birds, planted valley oak (*Quercus lobata*) saplings, and coyote brush (*Baccharis pilularis*) shrubs. Native riparian tree and shrub species planted on the lower bank and adjacent to the channel include box elder (*Acer negundo*), Fremont cottonwood (*Populus fremontii*), arroyo willow (*Salix lasiolepis*), and

California rose (*Rosa californica*). Other species observed in the riparian woodland include poison oak (*Toxicodendron diversilobum*) and non-native annual grasses. Branches of riparian trees, such as the arroyo willow, box elder, and valley oak hang over the chain-link fence along the property line.

Developed. Developed areas within the project site includes the existing houses, structures, gravel, driveways, old concrete foundations, and mowed grass, and various ornamental plants and a few orchard trees.

Wildlife. The project site is located mostly within an undeveloped ruderal non-native grassland interspersed with gravel and old concrete foundations, which provide suitable habitat for sparrows and small and medium-sized mammals. Trees and shrubs on the project site provide nesting habitat for bird species, such as white-tailed kite (*Elanus leucurus*) and California scrub-jay (*Aphelocoma californica*). The ruderal grassland provides habitat for ground-nesting passerines, such as western meadowlark (*Sturnella neglecta*). The gravel areas provide suitable nesting habitat for killdeer (*Charadrius vociferus*). During the winter, the resident bird community may be supplemented by species that breed further north or at higher elevations.

The ruderal grassland vegetation provides suitable habitat for common amphibians, such as Pacific treefrog (*Pseudacris regilla*), California slender salamander (*Batrachoseps attenuatus*), and arboreal salamander (*Aneides lugubris*) as well as common reptiles, such as southern alligator lizard (*Elgaria multicarinata*), western skink (*Plestidon skiltonianus*), and gopher snake (*Pituophis catenifer*).

Common mammal species that were observed or are likely to occur at the project site include northern raccoon (*Procyon lotor*), striped skunk (*Mephitis mephitis*), Virginia opossum (*Didelphis virginiana*), Botta's pocket gopher (*Thomomys bottae*), California ground squirrel (*Otospermophilus beecheyi*), Audubon's cottontail (*Sylvilagus audubonii*), and black-tailed deer (*Odocoileus hemionus columbianus*). Other small mammal species likely to occur on site include California vole (*Microtus californicus*), house mouse (*Mus musculus*), and roof rat (*Rattus rattus*). The grasslands also provide foraging habitat for common bat species, such as big brown bat (*Eptesicus fuscus*) and Brazilian free-tailed bat (*Tadarida brasiliensis*), although no bat roosts were observed during the reconnaissance-level field survey.

Wildlife species observed during the reconnaissance-level survey are listed in Table E. This analysis assumes many additional species are likely to occur on the site throughout the year based on the review of other databases.

Table E: Wildlife Species Observed During the Field Survey

Common Name	Scientific Name	Status
Birds		
Rock pigeon	*Columba livia*	R/I
Anna's hummingbird	*Calypte anna*	R

Table E: Wildlife Species Observed During the Field Survey

Common Name	Scientific Name	Status
Turkey vulture	*Cathartes aura*	R
Golden eagle	*Aquila chrysaetos*	R
Red-tailed hawk	*Buteo jamaicensis*	R
Acorn woodpecker	*Melanerpes formicivorus*	R
Northern flicker	*Colaptes auratus*	R
American kestrel	*Falco sparverius*	R
Black phoebe	*Sayornis nigricans*	R
Say's phoebe	*Sayornis saya*	W
California scrub-jay	*Aphelocoma californica*	R
Common raven	*Corvus corax*	R
Ruby-crowned kinglet	*Regulus calendula*	W
Northern mockingbird	*Mimus polyglottos*	R
Cedar waxwing	*Bombycilla cedrorum*	W
Dark-eyed junco	*Junco hyemalis*	R
White-crowned sparrow	*Zonotrichia leucophrys*	W
Golden-crowned sparrow	*Zonotrichia atricapilla*	W
Yellow-rumped warbler	*Setophaga coronata*	W
Mammals		
Botta's pocket gopher	*Thomomys bottae*	R/burrows
California ground squirrel	*Otospermophilus beecheyi*	R/burrows
Audubon's cottontail	*Sylvilagus audubonii*	R
Black-tailed deer	*Odocoileus hemionus columbianus*	R/tracks

Source: Compiled by LSA (2023).
I = Introduced
R = Year-round resident; expected to nest/breed on the Project site or vicinity
W = Winter resident; winters on or near site but migrates out of Bay Area to nest

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified potentially significant impacts related to direct habitat loss, indirect habitat loss due to vegetation removal for construction and development activities, and loss or degradation of sensitive habitat. The Eastern Dublin EIR also identified potentially significant impacts related to special-status wildlife, including San Joaquin kit fox, California red-legged frog (CRLF), California tiger salamander (CTS), western pond turtle, tri-colored blackbird, golden eagle, burrowing owl, American badger, special-status invertebrates and others. Mitigation measures were identified to reduce significant impacts. One significant and unavoidable impact was identified related to the cumulative loss or degradation of botanically sensitive habitat, and a Statement of Overriding Considerations was adopted. The following mitigation measures would apply to the proposed project:

MM 3.7/1.0 Direct disturbance or removal of trees or native vegetation cover should be minimized and be restricted to those areas actually designated for the construction of improvements.

MM 3.7 /2.0 (Policy 6-23) Vegetation enhancement/management plans should be prepared for all open space areas (whether held publicly or privately) with the intent to

enhance the biologic potential of the area as wildlife habitat. The focus of such plans will be to reintroduce native species in order to increase the vegetative cover and plant diversity.

MM 3.7 / 3.0 The City will require a detailed revegetation/restoration plan to be developed for all disturbed areas that are to remain undeveloped. The plan will be developed by a qualified revegetation specialist, and should incorporate stockpiling of native topsoils as appropriate, for later reapplication to cut slopes, shoulders, and pads.

MM 3.7/5.0 All areas of disturbance should be revegetated as quickly as possible to prevent erosion. Native trees (preferably those species already on site), shrubs, herbs, and grasses should be used for revegetation of areas to remains as natural open space. The introduction of non-native plant species should be avoided.

MM 3.7 /6.0 Natural stream corridors, ponds, springs, seeps, and wetland areas shall be preserved wherever possible. Prior to submittal of development applications, the California Department of Fish and Game and the Army Corps of Engineers (COE) must be consulted to determine whether they have jurisdiction over the watercourse or wetland area.

MM 3.7 /7.0 Riparian and wetland areas shall be incorporated into greenbelt and open space areas as a means of preserving and enhancing their hydrologic and habitat value. Unavoidable loss of riparian habitat due to development shall be replaced as requested by CDFG. Loss of wetlands must be mitigated consistent with the COE's "no net loss" policy.

MM 3.7 /8.0 All stream corridors should be revegetated with native plant species to enhance their natural appearance and improve habitat values. Revegetation must be implemented by a professional approved by the California Department of Fish and Game.

MM 3.7 /9.0 Maintain natural open stream channels to carry storm runoff wherever feasible, rather than replacing with underground storm drainage systems. When extra capacity is necessary, retention basins are preferable to channelization, if the channelization would disturb riparian habitat. When channelization is necessary, the channel should be designed and constructed to accommodate both the projected flows and the growth of riparian vegetation, and to have more natural-appearing contours.

MM 3.7 / 10.0 (Policy 6-13). Establish a stream corridor system, which provides multi-purpose open space corridors capable of accommodating wildlife and pedestrian circulation. In order to facilitate the use of these corridors by both humans and wildlife, human activities (e.g., trails) should be limited to one side of the stream.

MM 3.7 / 11.0 The City shall require all project applicants to submit a multi-parameter wetlands delineation to the COE for verification and jurisdictional establishment and submit plans for proposed alteration to any watercourse to the DFG for their review and approval. Applicants will be required to submit these agencies' determinations, any required permits, and approved mitigation plans as part of the final development plan submittal.

MM 3.7/14.0 The City should enact and enforce an erosion and sedimentation control ordinance establishing performance standards to ensure maintenance of water quality and protection of stream channels. The ordinance should regulate grading and development activities adjacent to streams and wetland areas and require revegetation of all ground disturbance immediately after construction to reduce erosion potential. Until such an ordinance is in place, the City shall require project applicants to provide a detailed erosion and sedimentation control plan as part of the project submittal.

MM 3.7/16.0 Existing sensitive habitats shall be avoided and protected where feasible.

MM 3.7/17.0 Construction near drainages shall take place during the dry season.

MM 3.7/19.0 The use of rodenticides and herbicides within the Project area should be restricted to avoid impacts on wildlife. The City shall require any poisoning programs to be done in cooperation with and under supervision of the Alameda County Department of Agriculture.

MM 3.7/20.0 The City shall require development applicants to conduct a pre-construction survey within 60 days prior to habitat modification (clearing construction and road site, etc.) to verify the presence of sensitive species, especially the San Joaquin kit fox, nesting raptors, the red-legged frog, the western pond turtle, the California tiger salamander, the tri-colored blackbird and other species of concern.

MM 3.7 /21.0 Sensitive habitat shall be protected and enhanced by implementation of Mitigation Measures 3.7/2.0, 3.7/3.0, 3.7/6.0-3.7/18.0 inclusive.

MM 3.7/22.0 Maintain a minimum buffer (at least 100 feet) around breeding sites of the red-legged frog, California tiger salamander and the western pond turtle identified by MM 3.7/20.0.

MM 3.7 /23.0 Maintain a natural open space zone (Golden Eagle Protection Zone) around the golden eagle nest located in the northeast corner of the planning area. Exceptions to this setback will have to be approved by the U.S. Fish and Wildlife Service (USFWS), based on field examinations of the site to determine what constitutes "harassment" of the eagles at this particular location. Construction within this protection zone will not be allowed unless it is determined that the eagles have ceased to use the nest site for two consecutive years as verified by the USFWS.

MM 3.7 /24.0 During the golden eagle reproductive period (July-January), an additional temporal buffer will be established within 250 feet of the Golden Eagle Protection Zone. During this period, construction and development activities will not be allowed within this temporal zone.

MM 3.7 /25.0 Partial mitigation for the loss of useable foraging habitat will be provided by MM 3.7 / 23 which establishes a Golden Eagle Protection Zone. Additional mitigation will be provided by the 571 .1 acres of Open Space and 2,672.3 acres of Rural Residential land use of the Project. Combined, the Golden Eagle Protection Zone and the 3,243.4 acres of land projected for open space protection or low intensity development would provide suitable foraging habitat.

MM 3.7/27.0 Maintain a minimum buffer (at least 300 feet) around known or those identified by pre-construction surveys (MM 3.7/20.0) nesting sites of the burrowing owl and breeding sites of the American badger during the breeding season to avoid direct loss of individuals (March – September).

Project Impacts and Mitigation Measures

(a) Substantial adverse effect on candidate, sensitive, or special status species

No New Impact. Special-status species are defined as follows:

- Species that are listed, formally proposed for listing, or designated as candidates for listing as threatened or endangered under the federal Endangered Species Act (ESA);
- Species that are listed, or designated as candidates for listing, as rare, threatened, or endangered under the California Endangered Species Act (CESA);
- Plant species on California Rare Plant Rank (CRPR) Lists 1A, 1B, and 2 in the CNPS Inventory of Rare and Endangered Plants;
- Animal species designated as Species of Special Concern or Fully Protected by the California Department of Fish and Wildlife (CDFW);
- Species that meet the definition of rare, threatened, or endangered under Section 15380 of the CEQA guidelines; and
- Species considered being a taxon of special concern by the relevant local agencies.

Special-Status Plants. Based on the results of the database search and literature review, five special-status plant species were evaluated as potentially occurring in the site vicinity (Table F). No special-status plants are likely to occur on the site due to the lack of suitable habitat.

Special-Status Wildlife. Based on the results of the data base search, literature review and the reconnaissance-level field surveys, 25 special-status wildlife species were evaluated for the project area (Table F). Of these species, the following were determined to be present or potentially present on the project site due to the presence of suitable habitat. These species are further discussed below.

- Monarch butterfly (*Danaus plexippus*; Candidate Federally Listed)
- Western bumble bee (*Bombus occidentalis*; Candidate State Listed)
- Crotch bumble bee (*Bombus crotchii*; Candidate State Listed)
- California red-legged frog (CRLF; *Rana draytonii;* Federally Threatened, California Species of Special Concern)
- California tiger salamander (CTS; *Ambystoma californiense*; Federally and State Threatened)

Table F: Special-Status Species Evaluated for the Project

Species	Status[1]	Habitat/Blooming Period	Discussion
PLANTS			
Centromadia parryi ssp. *congdonii* Congdon's tarplant	1B	Grazed and ungrazed annual grassland. Alkaline or saline soils sometimes described as heavy white clay (saline clay soil). Elevation: 1-230 m. Blooms: May–October.	No potential to occur. Not likely to occur due to lack of suitable alkaline or saline substrates and prior disturbance at the site. The closest CNDDB occurrence (#91) is approximately 0.12 mile west of the site, on the west side of Tassajara Road.
Extriplex (Atriplex) joaquinana San Joaquin spearscale	1B	Chenopod scrub, meadows and seeps, playas, valley and foothill grassland/alkaline. Elevation: 1-835 m. Blooms: April–October.	No potential to occur. Not likely to occur due to lack of habitat. The closest CNDDB occurrence (#98) is approximately 1.1 miles from the site.
Helianthella castanea Diablo helianthella	1B	Rocky soils in chaparral/oak woodland interface. Elevation: 60-300 m. Blooms: March–June.	No potential to occur. Not likely to occur due to lack of suitable chaparral/oak woodland habitat. The closest CNDDB occurrence (#94) is approximately 3.2 miles from the site.
Navarretia prostrata Prostrate vernal pool navarretia	1B	Wetlands in coastal sage scrub and wetland riparian habitat. Elevation: 15-40 m. Blooms: April–July.	No potential to occur. Not likely to occur due to lack of suitable habitat. The closest CNDDB occurrence (#61) is approximately 1.7 miles from the site.
Trifolium hydrophilum Saline clover	1B	Wetlands and riparian habitat. Elevation: 0-45 m. Blooms: April–June.	No potential to occur. Not likely to occur due to lack of suitable habitat. The closest CNDDB occurrence (#7) is a possibly extirpated record approximately 1.5 miles from the site.
ANIMALS			
Fish			

Species	Status[1]	Habitat/Blooming Period	Discussion
Steelhead (central California coast DPS) *Oncorhynchus mykiss*	FT	Anadromous. Coastal streams from Russian River south to Aptos Creek (Santa Cruz Co.), including streams tributary to San Francisco and San Pablo Bays.	No potential to occur. No suitable habitat present. Tassajara Creek and its tributaries do not provide suitable salmonid habitat.[18]
BRACHIOPODS			
Conservancy fairy shrimp *Branchinecta conservatio*	FE	Short-lived alkaline pools and ephemeral drainages.	No potential to occur. No suitable habitat present. Off-site ponded area north of site does not provide suitable habitat. Not known to occur in the Project vicinity. No CNDDB occurrences within 5 miles of the project site.
Insects			
Monarch butterfly *Danaus plexippus*	FC/ Sensitive Winter Roosting Sites	Winter roosts along the coast from northern Mendocino to Baja California, Mexico in wind-protected tree groves (eucalyptus, Monterey pine, cypress) with nectar and water sources nearby. Uses milkweed (Asclepias spp.) as host plants.	Low potential to occur. No suitable overwintering roost sites present, but species could briefly forage in ruderal vegetation. No milkweed (Asclepias spp.) host plants observed during prior surveys. No CNDDB occurrences within 5 miles of the project site.
Western bumble bee *Bombus occidentalis*	Candidate SE	Variety of habitat types supporting native flowering plants. Species has declined precipitously, perhaps from disease.	Low potential to occur. Low quality habitat present at the project site due to limited native flowering plants. The closest CNDDB occurrence (#230) is a 1932 and 1951 record approximately 3.4 miles from the site.
Crotch bumble bee *Bombus crotchii*	Candidate SE	Variety of habitat types supporting native flowering plants. Species has declined precipitously, perhaps from disease.	Low potential to occur. Low quality habitat present at the project site due to limited native flowering plants. The closest CNDDB occurrence (#17) is a 1932 record approximately 3.4 miles from the site.
Amphibians and Reptiles			
California red-legged frog *Rana draytonii*	FT/SSC	Ponds, streams, drainages and associated uplands; requires areas of deep, still, and/or slow-moving water for breeding	Low potential to occur. Suitable breeding habitat occurs in Tassajara Creek and tributary adjacent to site, but existing barrier fencing would likely preclude species from occurring. The closest CNDDB occurrence is a 2016 record (#278) from Tassajara Creek and Moller Creek drainage approximately 0.01 mile from the site.

[18] Leidy, R.A., G.S. Becker, B.N. Harvey. 2005. Historical Distribution and Current Status of Steelhead/Rainbow Trout (*Oncorhynchus mykiss*) in Streams of the San Francisco Estuary, California. Center for Ecosystem Management and Restoration, Oakland, CA.

Species	Status[1]	Habitat/Blooming Period	Discussion
California tiger salamander *Ambystoma californiense*	FT/ST	Breeds in vernal pools, ponds, and stock ponds. Spends summer and early fall in uplands surrounding breeding sites, taking refuge in small mammal burrows or other underground cover.	Low potential to occur. Poor quality upland habitat present, but existing houses along the western boundary and the existing barrier fencing to the south would likely preclude species from occurring. The closest CNDDB occurrence (#371) of an extant breeding record is west of Tassajara Road at a seasonal pond approximately 1.2 miles from the site.
Western pond turtle *Emys marmorata*	SSC	Ponds, streams, drainages, and associated uplands.	Low potential to occur. Suitable habitat present in Tassajara Creek and tributary adjacent to site, but existing barrier fencing would likely preclude species from occurring. The closest CNDDB occurrence is a 2000 record (#246) approximately 0.1 mile from the site in Tassajara Creek.
Alameda striped racer (=whipsnake) *Masticophis lateralis euryxanthus*	FT/ST	Chaparral and sage scrub with rock outcrops and an abundance of prey species such as western fence lizard (*Sceloporus occidentalis*).	Low potential to occur. Not likely to occur due to lack of chaparral and scrub at or adjacent to the project site. Marginally suitable habitat (grasslands) present, however it is not combined with scrub stands, an important feature. This species would not likely occur. The closest CNDDB occurrence is a possibly extirpated record from 1991 (#39) approximately 4.5 miles from the site.
Birds			
Short-eared owl *Asio flammeus*	SSC	Open grasslands, meadows, and marshes with few trees. Requires dense ground vegetation for both roosting and nesting.	Low potential to occur. Poor quality nesting and foraging habitat present. No CNDDB occurrences within 5 miles of the project site.
Burrowing owl *Athene cunicularia*	SSC	Open habitats (e.g., grasslands, agricultural areas) with mammal burrows or other features (e.g., culverts, pipes, debris piles) suitable for nesting and roosting.	Moderate potential to occur. May breed and/or winter on the site. Ground squirrel burrows observed on site, but dense cover of surrounding ruderal vegetation may preclude use. The closest CNDDB occurrence is a 2008 record (#1233) approximately 0.9 mile from the site.
White-tailed kite *Elanus leucurus*	CFP	Open grasslands, meadows, or marshes. Require dense-topped trees or shrubs for nesting and perching.	Moderate potential to occur. Suitable nesting habitat present in large trees and shrubs and suitable foraging habitat present. The closest CNDDB occurrence (#81) is approximately 1.3 miles from the site.
Northern harrier *Circus hudsonius*	SSC	Nests in wet meadows and marshes, forages over open grasslands and agricultural fields.	Low potential to occur. Suitable foraging and nesting habitat present, but small size and proximity of human disturbance may preclude nesting. The closest CNDDB occurrence (#27) is approximately 2 miles from the site.

Species	Status[1]	Habitat/Blooming Period	Discussion
Golden eagle *Aquila chrysaetos*	CFP	Forages in rolling foothill or coast-range terrain, with open grassland and scattered large trees. Nests in large trees, on cliffs, and occasionally on power line poles.	High potential to occur. No suitable nesting habitat present on-site, but species known to regularly nest in eucalyptus grove east of site (LSA pers. obs.). Species may fly or forage over the site. Species observed flying east of site and inactive stick nests observed in eucalyptus grove during reconnaissance-level field survey. The closest CNDDB occurrence (#84) is approximately 1.7 miles from the site.
American peregrine falcon *Falco peregrinus anatum*	CFP	Forages in open country, mountains, and sea coasts. Nests on high cliffs, bridges, and buildings.	Moderate potential to occur. No suitable nesting habitat present, but species may briefly fly or forage over the site. CNDDB occurrences suppressed by CDFW.
Loggerhead shrike *Lanius ludovicianus*	SSC	Grasslands and open shrub or woodland communities. Nests in dense shrubs or trees and forages in scrub, open woodlands, grasslands, and croplands. Frequently uses fences, posts, and utility lines as hunting perches.	Moderate potential to occur. Suitable nesting and foraging habitat present at the project site. No CNDDB occurrences within 5 miles of the project site.
Vaux's swift *Chaetura vauxi*	SSC	Grasslands and agricultural fields; nests in dense vegetation in large hollow trees near open water; forages in most habitats but prefers rivers and lakes.	Low potential to occur. No suitable roosting or nesting habitat present, but could fly or forage over the site during migration. Species not tracked in the CNDDB.
Grasshopper sparrow *Ammodramus savannarum*	SSC	Grasslands with coyote brush and other shrubs.	Low potential to occur. No suitable grassland habitat present. Species not tracked in the CNDDB.
Tricolored blackbird *Agelaius tricolor*	ST, SSC	Breeds in large colonies near freshwater, preferably emergent wetland such as cattails and tules but also in thickets of willow and other shrubs. Requires nearby foraging areas with large numbers of insects.	Low potential to occur. May forage on site during the winter, but no suitable nesting habitat present. The closest CNDDB occurrence (#226) is 1990s record, which is possibly extirpated, approximately 1.9 miles from the site.
Mammals			
Townsend's western big-eared bat *Corynorhinus townsendii*	SSC	Found in wooded areas with caves or old buildings for roost sites.	Low potential to occur. No suitable roosting and hibernating habitat present, but could forage over the site. No CNDDB occurrences within 5 miles of the project site.
Pallid bat *Antrozous pallidus*	SSC	Roosts in caves, tunnels, buildings, under bridges, and in tree hollows; forages over variety of habitats.	Moderate potential to occur. Suitable roosting habitat may be present in trees adjacent to site; this bat could occasionally occur as a transient while foraging at night. No trees with large hollows observed during the field survey. The closest CNDDB occurrence (#331) is approximately 3.9 miles from the site.

Species	Status[1]	Habitat/Blooming Period	Discussion
Western red bat *Lasiurus blossevillii*	SSC	Often roosts and forages on or near riparian habitat. Roosts primarily in trees, 2-40 feet above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging. Does not breed in the San Francisco Bay Area.	Moderate potential to occur. Suitable roosting habitat present in trees adjacent to site and suitable foraging habitat present, but species does not breed in the area. No CNDDB occurrences recorded within 5 miles of the project site.
San Joaquin kit fox *Vulpes macrotis mutica*	FE/ST	Found in open grasslands and arid areas with ground squirrel and/or kangaroo rat populations. Dens in rodent burrows.	Very Low potential to occur. Limited foraging and denning habitat; species is very rare in the region. This species was recorded in the mid-1970s (CNDBB occurrence #1031), denning at an unknown location near Tassajara Creek Regional Park in San Ramon.
American badger *Taxidea taxus*	SSC	Grassland, scrub, and woodland with loose-textured soils.	Low potential to occur. Unlikely to occur due to the small size of grassland habitat present and limited prey. The closest CNDDB occurrence (#349) is approximately 0.3 mile from the site.

Source: LSA 2023
[1] Status Codes:
FE = federally endangered
FT = federally threatened
FC = federal candidate
SE = State endangered
ST = State threatened
1B = California Rare Plant Rank (CRPR) 1B (plants rare, threatened, or endangered in California and elsewhere)
SSC = California Species of Special Concern
CFP = California Fully Protected Species
[2] DPS = distinct population segment

- Western pond turtle (*Emys marmorata*; California Species of Special Concern)
- Burrowing owl (*Athene cunicularia*; California Species of Special Concern)
- Northern harrier (*Circus hudsonius*; California Species of Special Concern)
- White-tailed kite (*Elanus leucurus*; California Fully Protected Species)
- Golden eagle (*Aquila chrysaetos*; California Fully Protected Species)
- Pallid bat (*Antrozous pallidus*; California Species of Special Concern)
- Western red bat (*Lasiurus blossevillii*; California Species of Special Concern)

None of the remaining species are likely to occur due to a lack of habitat (e.g., tidal marsh, wetlands, scrub) or rarity of the species.

The proposed project would result in the loss of ruderal grassland habitat within the project site. Special-status wildlife species could be impacted both directly and indirectly during construction activities after construction has been completed. The potential for protected resources to be impacted by construction of the proposed project are a function of the likelihood the species is present when the project is constructed, as well as the type and duration of construction activities. Another factor is the sensitivity of the species or resource to disturbance. For example, roosting bats may not react to construction activities near roosts during the day, whereas a raptor may abandon its nest if construction is within 100 feet from the nest. The following discussion addresses direct and indirect impacts to special-status wildlife species from project-related construction activities as well as potential impacts to special-status wildlife species from use of the project site.

Monarch Butterfly. The monarch butterfly is a federal Candidate listed species that could feed on flowering plants and/or breed at the site if milkweed (*Asclepias* spp.) is present. The project site is outside of the known overwintering range for this species, and therefore, monarchs would not overwinter at the project site. Monarch butterflies breed from June to September and require their obligate larval host plant, milkweed, for laying eggs, larval development, and metamorphosis. This species utilizes other flowering species for nectaring during the breeding season.

The project site does not support suitable habitat for wintering monarch butterflies, and therefore, winter roosts (which are considered sensitive by CDFW) would not be impacted by the proposed project. Due to prior disturbance at the site, milkweed plants are unlikely to occur at the site. If present, milkweed could be used by breeding monarchs, related impacts would be less than significant due to the small likelihood of monarchs to occur, and because winter roosts would not be disturbed.

Western and Crotch Bumble Bee. The western bumble bee and Crotch bumble bee are Candidate State Endangered listed species. These species are known to occur in grassland and scrub habitat where suitable native nectar plants are present. These species historically occurred in the region but are considered rare and no records have been recorded near the site.[19] Western and Crotch bumble bee specimens were collected in 1932 and 1952 at an unknown location in Pleasanton, approximately 3.4 miles from the site.[20] Due to the lack of native flowering plant species at the site and their current rarity in the area, these species are unlikely to occur at the site.

California Tiger Salamander and California Red-Legged Frog. California tiger salamander (CTS) is a federal and State threatened species that is known to occur in the area. This species breeds in vernal pools and seasonal wetlands and uses grasslands as upland habitat. Numerous occurrences have been recorded within 5 miles of the site, with the closest being an adult and breeding pond approximately 0.1 mile from the site, on the western side of Tassajara Road. The existing houses along the western boundary, the school along the northern boundary, and the barrier fencing along the southern boundary would likely preclude this species from occurring. CTS, however, could access the site from the eastern boundary, but the limited suitable grassland habitat on the site likely precludes its occurrence. The project would install barrier fencing along the eastern boundary to keep CTS from accessing the site during and after construction of the project.

California red-legged frog (CRLF) is a federally threatened species and California Species of Special Concern that occurs in and along freshwater marshes, streams, ponds, and other semi-permanent water sources. CRLF have been observed in Tassajara Creek and within the Moller Creek drainage in close proximity to the site.[21] This species could use the off-site tributary and Tassajara Creek as breeding or non-breeding aquatic habitat. CRLF could disperse through the site, but the houses along the western boundary, the school to the north, and the barrier fencing to the south likely cause barriers for this species. Alternatively, dispersing CRLF would more likely disperse through the tributary and riparian woodland to the south.

CRLF and CTS are unlikely to occur on the project site due to the degraded nature of the site and the presence of the barrier wall that was installed specifically to prevent CRLF and CTS from entering the site. A 6-foot-high chain link fence with a 3.5-foot-high sheet metal barrier along its base was constructed along the southern site boundary. The sheet metal barrier was specifically installed to prevent wildlife from moving from the adjacent Northern Drainage Conservation Area riparian corridor onto the site.

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[19] California Department of Fish and Wildlife. 2019. Evaluation of the Petition from the Xerces Society, Defenders of Wildlife, and the Center for Food Safety to List Four Species of Bumble Bees as Endangered Under the California Endangered Species Act. State of California, Natural Resources Agency. Report to the Fish and Game Commission. April 4.

[20] CDFW. 2022, op. cit.

[21] CDFW, 2023.

No suitable breeding habitat for CRLF or CTS exists in the Northern Drainage Conservation Area west of Fallon Road. The creek adjacent to the project site has an ephemeral to intermittent flow depending on the rainfall year. No deep pools that could provide habitat for long-term occupancy or breeding by either species was observed in the tributary. However, both CRLF and CTS are known to be present in the upstream reach of this drainage east of Fallon Road.

The barrier wall that defines the southern boundary of the property and separates the degraded project site conditions from the adjacent riparian corridor acts as a barrier to the movement of terrestrial species. The location of this wall is fixed by the permit conditions that established the NDCA and would remain in place. The buffer needed to separate site activities from wildlife use of the tributary is established by the barrier wall and is not a function of distance, which most buffers are based on. The requirement for the project to construct a secondary barrier wall along the eastern property line would further buffer project activities from the adjacent riparian corridor.

The tributary and associated riparian woodland provide suitable habitat for foraging, resting, and possibly breeding (if suitable plunge pools are present) for CRLF. Ponds and pools that are suitable for CRLF breeding usually have a minimum depth of 20 inches, but CRLF do sometimes breed successfully in pools as shallow as 10 inches.[22] Regardless of water depth, suitable breeding habitat must contain water during the entire development period for eggs and tadpoles, which is considered to be around 5 months during the winter and spring. Also, CRLF from nearby locations in Tassajara Creek are unlikely to disperse through the site due to the existing barrier along the southern boundary and the intervening houses and school, which are unsuitable as foraging or movement habitat and form a barrier to dispersal from occupied habitat.

The proposed project would result in the conversion of upland habitat potentially used by these species. Given that this species can still disperse around the site, a large amount of surrounding habitat is present, the project would not create a barrier to movement, and the project would not affect expected breeding habitat, impacts associated with habitat loss/conversion would be less than significant.

However, the proposed project could result in construction-related direct and indirect impacts to CRLF and CTS, which are known to occur near the site. Grading and other construction activities could result in mortality or harm if individual CRLF or CTS using burrows, soil crevices, or other retreats within the project site. Migrating CRLF or CTS may also seek refuge under construction equipment and in excavations and trenches, exposing them to potential harm from other construction activities. In the absence of avoidance and minimization measures, spills of oil or fuel from construction equipment could impact habitat for these species and food-related trash left on the construction site could attract additional predators, leading to

[22] Fellers. 2005. Rana draytonii Baird and Girard 1852, California Red-Legged Frog. In M. Lannoo (ed.), Amphibian Declines: The Conservation Status of United States Species. Volume 2, pp. 552-554. University of California Press, Berkeley.

increased predation pressure on these species. Therefore, construction-related direct and indirect impacts are potentially significant. The proposed project would be required to implement Mitigation Measures 3.7/20.0 through 3.7/22.0, as identified in the Eastern Dublin EIR. Implementation of these measures would reduce potential direct impacts to CRLF and CTS to a less-than-significant level by requiring pre-construction surveys and establishment of a buffer around identified breeding sites for these species.

Western Pond Turtle. The western pond turtle is a California Species of Special Concern. Pond turtles use permanent or nearly permanent water bodies in a variety of habitats. They can be found in ponds, marshes, rivers, streams, and irrigation ditches within grasslands, woodlands, and open forests. Basking sites such as logs, rocks, mats of floating vegetation, or open mud banks are necessary for thermoregulation. Upland areas, frequently in grassland, are used for egg laying. Pond turtles could pass through the site, especially when water is present within the adjacent tributary. Pond turtles have been recorded approximately 0.1 mile of the site in Tassajara Creek.[23] Pond turtles could occur in the tributary and riparian woodland south of the project site.

The proposed project could result in direct and indirect impacts to western pond turtle. No construction activities are proposed within ponds or pools providing suitable habitat for this species. However, western pond turtle could occur in the tributary and adjacent uplands and could nest along the banks of the tributary or adjacent riparian or grassland habitat (known as communal/traditional nesting areas). Therefore, grading and other construction activities could result in mortality or harm of individual western pond turtles. In the absence of avoidance and minimization measures, spills of oil or fuel from construction equipment could impact habitat for this species and food-related trash left on the construction site could attract additional predators, leading to increased predation pressure on the species. Therefore, construction-related direct and indirect impacts are potentially significant. The proposed project would be required to implement Mitigation Measures 3.7/20.0 through 3.7/22.0, as identified in the Eastern Dublin EIR. Implementation of these measures would reduce potential direct impacts to western pond turtle to a less-than-significant level by requiring pre-construction surveys for western pond turtle and establishment of a buffer around identified breeding sites for western pond turtle.

Burrowing Owl. Burrowing owl is a California Species of Special Concern that occurs in open, well-drained grasslands with abundant small mammal burrows, particularly those of California ground squirrels. Burrowing owls also prefer areas with short vegetation so they can easily scan their surroundings and spot potential predators.[24] The closest CNDDB occurrence is a 2008 record of an occurrence approximately 0.9 mile from the site.[25] The presence of ground squirrel burrows and low grass height in some areas provide suitable habitat conditions for the species,

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[23] CDFW. 2023. op. cit.

[24] Zarn, M., 1974. Burrowing owl (*Speotyto cunicularia hypugaea*). Habitat Management Series for Unique or Endangered Species, Technical Report T-N-250. Bureau of Land Management, Denver, Colorado.

[25] CDFW. 2023, op. cit.

which could winter or nest at or near the site. No owls or sign of their presence were observed during the reconnaissance survey, but burrowing owls may nest and/or winter within the grasslands in the project area.

Construction-related activities could result in loss or abandonment of an active burrowing nest through direct disturbance of an occupied burrow or through noise, vibration, or visual disturbance. In addition, construction-related activities could result in harm to wintering burrowing owls, should they occur in or near the construction area. The proposed project would be required to implement Mitigation Measures 3.7/20.0 and 3.7/27.0, as identified in the Eastern Dublin EIR. Implementation of these measures would reduce potential impacts to burrowing owl to a less-than-significant level by requiring pre-construction surveys for burrowing owl and establishment of a buffer around identified burrowing owl nests.

Northern Harrier, White-tailed Kite and Other Nesting Birds The northern harrier is a California Species of Special Concern that occurs in grasslands, fields, marshes, and meadows. This raptor could nest in the grasslands and/or ruderal habitat at or near the site.

The white-tailed kite is a California Fully Protected Species. This species nests in trees or large shrubs with dense foliage located near suitable foraging habitat (e.g., grasslands, marshes, agricultural fields). Preferred prey includes voles and mice. Although no nests were observed during the reconnaissance survey, the numerous trees near the site provide suitable nest sites and foraging habitat is present in the ruderal grasslands.

The proposed project has the potential to impact other special-status birds, such as short-eared owl, northern harrier, white-tailed kite, and loggerhead shrike, and other nesting birds protected by the MBTA and/or California Fish and Game code, either directly from removing the nest or indirectly from noise or human presence during construction of the project. Breeding seasons vary from year to year depending on the species, weather, and other conditions, but nesting birds could be disturbed anytime from February through August. Within the project area, birds may nest in trees, shrubs, grasslands, bare ground, and on manmade structures and equipment. Breeding birds are most likely to abandon nests early in the nest cycle. If the young birds are forced to fledge early, they could be subject to predation or starvation, which could result in reproductive failure.

Project contract specifications (as stipulated in the conditions of approval) would stipulate that vegetation removal should occur outside of the nesting season, if possible, which is typically January 1 through September 15. If vegetation removal or construction activities during the nesting season are not avoidable, project contract specifications would stipulate that, in compliance with the MBTA and the California Fish and Game Code, the project applicant should retain a qualified biologist to conduct a pre-construction survey within 36 hours prior to construction activities. The survey area should include the proposed construction site and surrounding habitat areas that could be indirectly impacted by increased noise and vibration. If active bird nests are observed within the direct and/or indirect disturbance limits, the qualified biologist should identify an appropriately sized exclusion zone around the nest in which no work would be allowed until the qualified biologist determines that the nest is no longer active.

In addition, the proposed project would be required to implement Mitigation Measure 3.7/20.0, as identified in the Eastern Dublin EIR, which requires a pre-construction survey for sensitive species prior to project construction. Compliance with the requirements of the MBTA and California Fish and Game Code and implementation of Mitigation Measure 3.7/20.0 identified in the Eastern Dublin EIR would ensure that the proposed project would result in less-than-significant impacts to northern harrier, white-tailed kite, and other nesting birds.

Golden Eagle. The golden eagle is a California Fully Protected Species. This species typically nests in sheltered groves of tall trees. A large stick nest, which has been used by nesting golden eagles, was observed approximately 200 feet to the east in the eucalyptus grove during the reconnaissance survey. This nest has been used by golden eagles for several years based on observations by LSA biologists. A golden eagle was observed flying north of the eucalyptus grove during the reconnaissance survey, suggesting that this nesting territory is likely active.

The proposed project has the potential to indirectly impact the adjacent golden eagle nest due to noise or human presence during construction of the project. The current nest is situated approximately 200 feet from the site within an offsite eucalyptus grove. This nest could be disturbed during construction activities anytime from February through June, but due to the nest's location within close proximity to a school, these nesting birds are likely habituated to ongoing disturbance. The eagles are most likely to abandon nests early in the nest cycle. If the young birds are forced to fledge early, they could be subject to predation or starvation, which could result in reproductive failure. Implementation of Mitigation Measure 3.7/20.0, and Mitigation Measures 3.7/23 through 3.7/26.0, identified in the Eastern Dublin EIR and listed above, would reduce potential impacts to golden eagle to a less-than-significant level by requiring that preconstruction surveys are conducted and that construction activities are prohibited within the buffer zone during the nesting season.

With implementation of Mitigation Measure 3.7/20.0 and Mitigation Measures 3.7/23.0 through MM 3.7/26.0 identified in the Eastern Dublin EIR and listed above, potential impacts to golden eagle would be reduced to a less-than-significant level.

Pallid Bat and Western Red Bat. The pallid bat and western red bat are a California Species of Special Concern that could roost and/or forage within the site. Pallid bats roost in caves, tunnels, and occasionally buildings and hollow trees. Western red bat typically roosts in riparian trees and forages in or near riparian habitat. Suitable roosting habitat may be present in the structures and larger trees on and adjacent to the site. No bat roosts or signs of roosting bats were observed in any of the onsite structures during the reconnaissance-level survey.

Bats, including special-status bats, such as the pallid bat and western red bat, could roost in the structures and large trees in the project area and forage on the project site. Roosting bats could be disturbed, killed, or injured by tree removal activity, if present in construction areas. Trees may be trimmed or removed. Disturbance of roosting special-status bats would be a potentially significant impact. All bats are protected from take as non-game mammals under Section 4150 of the California Fish and Game Code. Therefore, to ensure compliance with Section 4150 of the California Fish and Game Code, project contract specifications as stipulated in the conditions of

approval) should stipulate that the project applicant retain a qualified biologist to conduct a pre-construction survey for roosting bats within a week prior to tree removal or trimming activities. If maternity roosts or nonvolant (flightless) bats are found to be roosting in trees or other areas subject to direct or indirect project disturbance, a protective buffer should be established wherein no project activities will take place until the qualified biologist confirms that roosting and nonvolant bats are absent. The qualified biologist will monitor any tree trimming activities. In addition, the proposed project would be required to implement Mitigation Measure 3.7/20.0, as identified in the Eastern Dublin EIR, which requires a pre-construction survey for sensitive species prior to project construction. Compliance with the requirements of the California Fish and Game Code and implementation of Mitigation Measure 3.7/20.0 identified in the Eastern Dublin EIR would ensure that the proposed project would result in less-than-significant impacts to pallid bat and western red bat.

Conclusion. As indicated above, due to the site's proximity to open space lands that are part of the Northern Drainage Conservation Area (NDCA) and the unnamed tributary of Tassajara Creek, implementation of the proposed project has the potential to adversely affect candidate, sensitive, or special status species, resulting in potentially significant impacts. Implementation of the mitigation measures identified in the Eastern Dublin EIR and listed above, would be required to reduce potential impacts to special-status species. With implementation of the mitigation measures identified in the Eastern Dublin EIR and compliance with the MBTA and California Fish and Game Code, impacts to special-status species would be reduced to a less-than-significant level.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to special-status species other than what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Substantial adverse effect on any riparian habitat or other natural community

No New Impact. CDFW tracks the occurrences of natural plant communities that are of limited distribution Statewide or within a county or region and are often vulnerable to environmental effects of projects. A Manual of California Vegetation, Second Edition, lists vegetation alliances with State rarity rankings of S1-S3 as considered "highly imperiled" and project impacts to "high-quality occurrences" of these alliances could be considered significant under CEQA. Most types of wetlands, including alkali wetlands, and riparian communities are also considered sensitive natural communities due to their limited distribution in California. The CNDDB does not identify any sensitive natural communities on the site and no sensitive plant communities were observed during the reconnaissance-level survey. However, riparian woodland occurs along the southern boundary of the project site within the 20-foot setback from the top of the creek bank. This area would be preserved as part of the proposed project. No other riparian habitat is present on the project site; therefore, the proposed project would not have a substantial adverse effect on any riparian habitat or other natural community as no such

community occurs within the development footprint. Further, implementation of Mitigation Measures 3.7/6.0, 3.7/9.0, 3.7/14.0, and 3.7/17.0 identified in the Eastern Dublin EIR and listed above, which require preservation of riparian corridors, maintenance of natural stream channels, and implementation of erosion and sedimentation control and construction during the dry season, would ensure that impacts to these features would be reduced to a less than significant level. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to riparian habitat other than what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(c) Substantial adverse effect on wetlands

No New Impact. The project site does not contain any wetlands or other jurisdictional features. A tributary to Tassajara Creek is situated just south of the site, while a ponded potential seasonal wetland was observed just east of the site. However, the proposed project would avoid impacts to these features as these features do not occur within the development footprint. Further, implementation of Mitigation Measures 3.7/6.0, 3.7/9.0, 3.7/14.0, and 3.7/17.0 identified in the Eastern Dublin EIR and listed above, which require preservation of riparian corridors, maintenance of natural stream channels, implementation of erosion and sedimentation control and construction during the dry season, would ensure that impacts to these features would be reduced to a less than significant level. Therefore, the proposed project would not have a substantial adverse effect on wetlands. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to wetlands other than what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(d) Interfere or impede the movement of migratory fish or wildlife

No New Impact. Wildlife movement includes migration (i.e., usually annual roundtrip), inter-population movement (i.e., long-term genetic flow), and small travel pathways (i.e., daily movement corridors within an animal's territory). While small travel pathways usually facilitate movement for daily home range activities such as foraging or escape from predators, they also provide connection between outlying populations and the main corridor, permitting an increase in gene flow among populations. In the San Francisco Bay Area, landscape elements that facilitate local and/or regional wildlife movement include stream drainages, canyons, ridges, or other prominent natural or man-made landscape features.

The proposed project would not substantially interfere with wildlife movement or corridors. Because of the existing school north of the project site and the houses along the western boundary, the extent of terrestrial or amphibian wildlife movement under existing conditions is

limited and would not be affected by development of the proposed project. The riparian woodland and tributary provide a wildlife movement corridor, but the riparian woodland and intermittent tributary would be preserved as part of project implementation; therefore, wildlife that currently move through this corridor would continue to do so after project construction. Wildlife that currently move through the site would likely continue to move through the site during and after construction of the project since most of the species that occur in the area are generalists that are adept at moving through urban landscapes. Therefore, impacts to wildlife movement corridors would be less than significant.

The project site does not contain native wildlife nursery sites, such as heron rookeries or salmonid spawning areas. Any bat roosts or bird nests would be protected by implementing Mitigation Measure 3.7/20.0 identified in the Eastern Dublin EIR and complying with the provisions of the MBTA and California Fish and Game Code.

Because the project site is already developed with an existing school and residential uses and provides limited opportunity for wildlife movement and does not support any native wildlife nursery sites, development of the proposed project would not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to wildlife movement other than what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(e) Conflict with local policies or ordinance protecting biological resources, include tree preservation

No New Impact. The following discussion addresses the project's consistency with applicable local policies protecting biological resources.

Northern Drainage Conservation Area – Dublin Ranch Preserve. The project site abuts the NDCA unit of the Dublin Ranch Preserve (preserve) to the south, as described above in the Environmental Setting. The preserve was established in 2010 and is currently managed by the CNLM as habitat for CRLF, CTS, golden eagle, burrowing owl, and San Joaquin kit fox. These species are the primary ones of concern to the USFWS, CDFW, and local municipalities when evaluating potential development impacts on biological resources. None of these species are expected to occur on the site due to past and ongoing disturbance and consequent lack of habitat. CRLF are known to occur in the NDCA and could move and forage along the adjacent riparian corridor but would be prevented from moving onto the site by the sheet metal barrier at the base of the fence that parallels the southern site boundary. The riparian corridor and annual grasslands to the east are known to support CTS that potentially move through the area. The only location where they could enter the project site is along its eastern boundary, which

does not have a complete barrier fence. The NDCA has supported nesting golden eagles for many years. The current nest site is located approximately 200 feet east of the site. Given the nest's location within close proximity to the school and ongoing human disturbance, the nesting eagles are likely habituated to human activity and associated noise. Therefore, the proposed project would not result in significant disturbance of the nesting eagles. Therefore, the proposed project would not conflict with the provisions of the Northern Drainage Conservation Area.

East Alameda County Conservation Strategy. The East Alameda County Conservation Strategy (EACCS) is a collaborative document developed by multiple federal, State, and local entities (e.g., Alameda County, East Bay Regional Park District, RWQCB, CDFW, USFWS) that is intended to "provide an effective framework to protect, enhance, and restore natural resources in eastern Alameda County, while improving and streamlining the environmental permitting process for impacts resulting from infrastructure and development projects." The EACCS enables project proponents to comply with federal and State regulatory requirements within a framework of comprehensive conservation goals and objectives by implementing standardized mitigation requirements. The City of Dublin does not require private development projects to comply with the provisions of the EACCS. Therefore, the proposed project would not conflict with the provisions of the EACCS.

Dublin Municipal Code. Stream setbacks are addressed in Chapter 7.20, Article III of the City's Municipal Code (Code), which was adopted as a result of Ordinance 52-87. Section 7.20.220 states, "the purpose of setbacks is to safeguard watercourses by preventing activities that would contribute significantly to flooding, erosion, or sedimentation, would inhibit access for watercourse maintenance, or would destroy riparian areas or inhibit their restoration. Accordingly, no development shall be permitted within setbacks except as otherwise provided herein." Although the Code does not provide specific setback distances, it defines the Director of Public Works as the primary City staff member responsible for permitting limited development within setbacks and determining setback limits. Section 70.20.230 states that the Director of Public Works "may grant a permit for [limited development within a setback] provided that the above specified purpose would be satisfied. In such cases, the permit applicant shall submit sufficiently detailed plans and specifications, and any additional material required by the Director of Public Works, to demonstrate that a proposed development adjacent to an open channel watercourse would meet the requirements."

The project site is located immediately north of the unnamed tributary of Tassajara Creek, a major regional watercourse located west of the project site. The tributary was previously part of the project site but was subsequently parceled off to be restored and incorporated into a 245-acre permanent conservation easement with open space lands to the east. As described above, the Dublin Municipal Code does not provide specific setback distances; however, the proposed project would maintain a 20-foot setback from the top of the creek bank within which no development is proposed. Construction would be confined to the existing disturbed area of the site and the existing sheet metal barrier would be retained and protected during and after construction. The fence would be identified as an "Environmentally Sensitive Area" (ESA) to be

avoided during construction. Therefore, the proposed project would not conflict with Section 7.20, Article III of the City of Dublin Municipal Code.

Eastern Dublin Comprehensive Stream Restoration Program. Consistent with Mitigation Measure 3.7/12 of the Eastern Dublin EIR, the City prepared and adopted the Eastern Dublin Comprehensive Stream Restoration Program to promote the restoration, enhancement and stabilization of Tassajara Creek and its tributaries. The Eastern Dublin Comprehensive Stream Restoration Program establishes a 100-foot setback from Tassajara Creek and its major tributaries. The project site is located within 20 feet of the top of bank of a major tributary to Tassajara Creek and therefore, the existing development on the project site is located within the 100-foot setback prescribed by the Eastern Dublin Comprehensive Stream Restoration Program. The proposed project development would occur within the existing disturbance footprint on the site; therefore, implementation of the proposed project would not increase the encroachment into the stream setback. The proposed project would maintain a minimum 20-foot setback from proposed site improvements and the top of bank. Further, the existing barrier fence along the site's southern boundary would remain intact, preventing encroachment into the stream corridor. Therefore, implementation of the proposed project would not conflict with the requirements of the Eastern Dublin Comprehensive Stream Restoration Program.

City of Dublin Tree Ordinance. Chapter 5.60 of the City of Dublin Municipal Code requires a tree removal permit for impacts to heritage trees. "Heritage Tree" means any of the following:

- Any oak, bay, cypress, maple, redwood, buckeye, and sycamore tree having a trunk or main stem of twenty-four (24) inches or more in diameter measured at four (4) feet six (6) inches above natural grade;
- Any tree required to be preserved as part of an approved Development Plan, Zoning Permit, Use Permit, Site Development Review or Subdivision Map; or
- Any tree required to be planted as a replacement for an unlawfully removed tree.

If trees protected by the City of Dublin's Heritage Tree Ordinance would be impacted by proposed project, the applicant would be required to obtain a tree removal permit from the City, pay the necessary application fee, and replace impacts trees at a minimum 1:1 ratio. Compliance with the City's Heritage Tree Ordinance would ensure potential impacts related to tree removal would be less than significant. Therefore, the proposed project would not conflict with the City's Heritage Tree Ordinance.

Conclusion. Based on the information provided above, the proposed project would not conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance because the proposed development would occur within the existing disturbance footprint, would not extend into the established stream setback or the Northern Drainage Conservation Area, and would be required to obtain a tree removal permit in compliance with the City's Heritage Tree Ordinance. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major

changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts related to conflicts with local policies or ordinance protecting biological resources other than what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(f) Conflict with adopted habitat conservation or natural community conservation plans

No New Impact. The proposed project is not located within any approved local, regional, or state conservation plan. Therefore, the project would not conflict with any approved local, regional, or state habitat conservation plan. The EACCS is not a habitat conservation or natural community conservation plan and the proposed project would not conflict with the policies of the EACCS because the EACCS does not apply to private projects in the City of Dublin.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to conflict with adopted habitat conservation or natural community conservation plans other than what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, the project would not substantially increase the severity of the previously identified cultural resources impacts, nor result in new significant impacts.

With adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new or substantially more severe significant impacts to biological resources beyond what has been analyzed in the Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

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Cultural Resources

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
5.	**CULTURAL RESOURCES. Would the project:**				
a)	Cause a substantial adverse change in the significance of a historical resource pursuant to CEQA Guidelines section 15064.5?				X
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to section 15064.5?				X
c)	Disturb any human remains, including those interred outside of dedicated cemeteries?				X

Environmental Setting

CEQA defines a "historical resource" as a resource which meets one or more of the following criteria:

- Listed in, or eligible for listing in, the California Register of Historical Resources (California Register);
- Listed in a local register of historical resources as defined in Public Resources Code (PRC) Section 5020.1(k);
- Identified as significant in a historical resource survey meeting the requirements of Section 5024.1(g) of the Public Resources Code; or
- Determined to be a historical resource by a project's lead agency (PRC Section 21084.1 and State CEQA Guidelines Section 15064.5[a]).

The California Register defines a "historical resource" as a resource that meets one or more of the following criteria: (1) associated with events that have made a significant contribution to the broad patterns or local or regional history of the cultural heritage of California or the United States; (2) associated with the lives of persons important to local, California, or national history; (3) embodies the distinctive characteristics of a type, period, region, or method of construction or represents the work of a master or possesses high artistic values; or (4) has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation. Under CEQA, historical resources can include precontact (i.e., Native American) archaeological deposits, historic-period archaeological deposits, historic buildings, and historic districts.

Background research consisting of a records search at the Northwest Information Center (NWIC), a review of historical maps and aerial photographs, a search of the Sacred Lands File (SLF) at the Native American Heritage Commission (NAHC), and a review of published geological

information were conducted to determine the potential sensitivity for buried historic and archaeological sites. In addition, a Historic Resources Evaluation (HRE) was prepared to evaluate the potential significance of the existing residential building, which is over 50 years old.

A cultural resources records search was conducted on January 1, 2023, by staff at the NWIC of the California Historical Resources Information System to identify previous archaeological site records and cultural resource studies within the project site and vicinity. The NWIC, an affiliate of the Office of Historic Preservation (OHP), is the official State repository of cultural resources records and reports for Alameda County. The search encompassed the project site and surrounding 0.5-mile radius.

The project site contains a single-story, wood framed, Vernacular-styled, single-family residential building on a rectangular plan constructed in 1925 and located at the wester end of an irregularly shaped 2.64-acre parcel in a semi-rural setting. Background research indicates the residential buildings at 6327 Tassajara Road are associated with the early- to mid-20th century growth of the San Ramon Valley, northeastern Alameda County, and California. These building possesses characteristics of the Vernacular architectural style. Based on background research, including a records search, a literature review, archival research, and a field review by an architectural historian, the building's eligibility for inclusion on the California Register was evaluated in accordance with the criteria listed above. As described in the HRE, although the existing building is a typical example of the mid-20th century development of the San Ramon Valley in northeastern Alameda County and California, it is not associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage; is not associated with the life of persons important in our past; is not notable for its architectural or design qualities or as an important example of its architectural style; and is unlikely to yield information important to the history of the City of Dublin, the San Ramon Valley, Alameda County, or California. Therefore, the residence and detached shed and shop buildings are not significant under any evaluative criteria of the California Register. For these reasons, LSA concludes that the buildings at 6237 Tassajara Road do not appear eligible for inclusion in the California Register under any level of significance either individually or as part of an unidentified historic district and do not appear to qualify as historical resources for the purposes of CEQA (Public Resources Code [PRC] Section 21084.1). North of and adjacent to the project site is the Quarry Lane School, a private K-12 school at 6363 Tassajara Road. The campus contains an assemblage of buildings constructed in phases beginning circa 1982 and have not yet reached sufficient age to warrant evaluation for historical significance and inclusion in the California Register.

One previous cultural resource study overlapped the current project site, and another 18 were conducted within a half-mile radius. No archaeological resources are recorded within the project boundary. One archaeological resource was recorded within a half-mile of the project site.

A request was submitted to the NAHC to search the Sacred Lands File (SLF) for Native American cultural resources that may be impacted by the proposed project. The NAHC maintains the SLF database and is the official State repository of Native American sacred-site location records in California. The NAHC responded to the SLF search request on December 27, 2022, and stated that the results were negative and that there were no known Native American cultural resources in the project site. It was noted, however, that "the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area."

The review of aerial photographs and historic maps indicates that the project site has been developed since prior to 1941. Tassajara Creek is less than 1,000 feet west of the project site, and an unnamed stream creates the southern boundary of the project site. Both water sources would have been a food and water source for Native American occupants of the region. Clear Lake clay deposits (which have potential to contain previously unidentified archaeological deposits) likely extend at least 60 to 65 inches deep throughout the project site.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified potentially significant impacts related to the disruption or destruction of identified and unidentified prehistoric resources, and disruption or destruction of identified and unidentified historic resources. Mitigation measures were identified to reduce potential impacts to a less-than-significant level. The following mitigation measures would apply to the proposed project:

> **MM 3.9/1.0** All locations of prehistoric resources will need a program of mechanical and/or hand subsurface testing to determine the presence or absence of midden deposits associated with the surface indictors of aboriginal presence.
>
> **MM 3.9/2.0** All locations containing either midden components or concentrations of cultural materials located on the surface will be recorded on State of California site survey forms. The borders of any midden deposits or concentrations of cultural materials (other than single isolated artifact discoveries) will be staked so that accurate location maps can be produced by professional survey teams.
>
> **MM 3.9/3.0** If it can be demonstrated that these recorded and mapped locations will be impacted in any manner by future construction or indirectly impacted as a result of increased access to the area, a plan of evaluative testing of each resource will have to be devised in order to prepare responsive mitigation measures. Evaluative testing will consist of the collection and analysis of any surface concentrations of cultural materials, and the hand excavation and analysis of the scientific content of any midden components discovered during present or absence testing.
>
> **MM 3.9/4.0** The City shall retain the services of a qualified archaeologist to develop a protection program for prehistoric sites which contain either a surface or subsurface

deposit of cultural materials or information which qualify under Appendix K of CEQA as "significant" and which are located in areas of the project site where development will significantly alter the current conditions of the prehistoric resource.

MM 3.9/5.0 The discovery of historic or prehistoric remains during grading and construction will result in the cessation of such activities until the significant and extent of those remains can be ascertained by a certified archaeologist.

MM 3.9/6.0 The City of Dublin will require the following series of actions as part of the application process for development in eastern Dublin: site sensitivity determination; detailed research and field reconnaissance by a certified archaeologist; development of a mitigation plan pursuant to the policies of the Eastern Dublin Specific Plan and current CEQA guidelines.

MM 3.9/7.0 All properties with historic resources, which may be impacted by future development shall be subjected to in-depth archival research to determine the significance of the resources prior to any alteration.

Project Impacts and Mitigation Measures

(a) Historic resources

No New Impact. For a cultural resource to be considered a historical resource (i.e., eligible for listing in the California Register of Historical Resources), it generally must be 50 years or older. Under CEQA, historical resources can include precontact (i.e., Native American) archaeological deposits, historic-period archaeological deposits, historic buildings, and historic districts. CEQA requires agencies considering projects that are subject to discretionary action to consider the potential impacts on cultural resources that may occur from project implementation (see CEQA Guidelines Section 15064.5).

As described above, the project site contains a single-story, wood framed, Vernacular-styled, single-family residential building on a rectangular plan constructed in 1925. The residence and associated outbuildings were evaluated for significance as a historical resource. They were found to be not eligible, either individually or as a group, for inclusion on the California Register. Although these existing buildings would be demolished as part of the proposed project, this impact would be less than significant as these buildings do not qualify as historical resources for the purposes of CEQA.

However, given the historic-period development of the project site, the proximity of the project site to water, and the types of sediments mapped in the project site, implementation of the project has potential to impact subsurface cultural resources dating to either the historic period or the precontact period. These features could be uncovered during ground disturbing activities associated with the proposed project. Implementation of Mitigation Measure 3.9/4.0 from the Eastern Dublin EIR, as modified below (with additions in double-underline and deletions in ~~strikethrough~~), and Mitigation Measure 3.9/5.0 from the Eastern Dublin EIR would be implemented to reduce potential impacts to a less than significant level.

MM 3.9/4.0 The City shall retain the services of a qualified archaeologist to develop a protection program for prehistoric and/or historic-period sites which contain either a surface or subsurface deposit of cultural materials or information which qualify under Appendix K of CEQA as "significant" and which are located in areas of the project site where development will significantly alter the current conditions of the ~~prehistoric~~ resource. An archaeologist (either an archaeologist who meets the Secretary of the Interior's Professional Qualifications Standards for Archaeology or an archaeologist supervised by such an archaeologist) shall monitor all ground-disturbing activities associated with project implementation in non-bedrock sediments, including clearing and grubbing activities. Archaeological monitoring shall occur on a full-time basis during these excavation activities until the Project Archaeologist, based on the archaeological monitor's observations, is satisfied that there is little likelihood of encountering intact archaeological deposits. The Project Archaeologist may also determine it is appropriate to reduce monitoring to spot-checking on a part-time basis.

With implementation of Mitigation Measures 3.9/4.0 (as modified above) and 3.9/5.0 from the Eastern Dublin EIR, which requires archaeological monitoring and work stoppage in the event of an archaeological discovery, potential impacts to archaeological historical resources would be reduced to a less-than-significant level.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, the project would not substantially increase the severity of the previously identified cultural resources impacts, nor result in new significant impacts. With adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, as modified above, there would be no new or substantially more severe significant impacts to historical resources beyond what has been analyzed in the Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Archaeological resources

No New Impact. Pursuant to CEQA Guidelines Section 15064.5(c)(1), "When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource." Those archaeological sites that do not qualify as historical resources shall be assessed to determine if they qualify as "unique archaeological resources" pursuant to California Public Resource Code (PRC) Section 21083.2.

Although no archaeological resources have been identified at the project site, it cannot be entirely ruled out that archaeological cultural resources could be encountered during project construction at the project site. Should archaeological deposits be encountered during project ground disturbance, a substantial adverse change in the significance of a historical resource would occur from its demolition, destruction, relocation, or alteration such that the significance of the resource would be materially impaired (CEQA Guidelines Section 15064.5(b)(1)). If such resources are encountered, implementation of Mitigation Measure 3.9/5.0 from the Eastern Dublin EIR, which requires work stoppage in the event of an archaeological discovery, potential

impacts to archaeological would be reduced to a less-than-significant level. implementation of Mitigation Measure 3.9/5.0 as identified in the Eastern Dublin EIR would reduce any potential impacts to archaeological and/or Native American resources to a less-than-significant level. Therefore, the project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with implementation of the mitigation measures identified in the Eastern Dublin EIR, there would be no new impact related to archaeological resources other than what has been analyzed in the previous Eastern Dublin EIR. No other CEQA standards for supplemental review are met for this impact. No additional environmental analysis is required.

(c) Human remains

No New Impact. Based on previous archaeological investigation and analysis, there is a low potential for the disturbance of archaeological cultural resources or human remains. However, in the event that human remains are encountered at any time during project work, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be Native American, the County Coroner would notify the NAHC within 24 hours. The NAHC would determine and notify a Most Likely Descendant (MLD) per PRC 5097.98. With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection and make recommendations or preferences for treatment within 48 hours of being granted access to the site. The MLD's recommendations may include scientific removal and nondestructive analysis of human remains and items associated with Native American burials, preservation of Native American human remains and associated items in place, relinquishment of Native American human remains and associated items to the descendants for treatment, or any other culturally appropriate treatment.

Compliance with Section 7050.5 of the California Health and Safety Code and PRC Section 5097.98 regarding the treatment of human remains, which requires cessation of work, notification of the County Coroner, coordination with the NAHC and the MLD and treatment of the remains in accordance with the MLD's recommendations, potential impacts to human remains would be less than significant. Therefore, the project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impact related to human remains other than what has been analyzed in the previous Eastern Dublin EIR. No other CEQA standards for supplemental review are met for this impact. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the

information in the Eastern Dublin EIR and this environmental analysis, the project would not substantially increase the severity of the previously identified cultural resources impacts, nor result in new significant impacts.

With adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, as modified above, there would be no new or substantially more severe significant impacts to cultural resources beyond what has been analyzed in the Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Energy

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
13.	**ENERGY. Would the project:**				
a)	Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?				X
b)	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				X

Environmental Setting

Electricity

Electricity is a man-made resource. The production of electricity requires the consumption or conversion of energy resources (including water, wind, oil, gas, coal, solar, geothermal, or nuclear resources) into energy. Electricity is used for a variety of purposes (e.g., lighting, heating, cooling, and refrigeration, and for operating appliances, computers, electronics, machinery, and public transportation systems).[26] In 2021, California consumed approximately 280,738 gigawatt-hours (GWh) or 280,738,376,720 kWh.[27] Of this total, Alameda County consumed 10,237 GWh or 10,237,401,835 kWh.[28]

Natural Gas

Natural gas is a non-renewable fossil fuel. Fossil fuels are formed when layers of decomposing plant and animal matter are exposed to intense heat and pressure under the surface of the Earth over many years. Natural gas is a combustible mixture of hydrocarbon compounds (primarily methane) that is used as a fuel source. Natural gas is found in naturally occurring reservoirs in deep underground rock formations. Natural gas is used for a variety of uses (e.g., heating buildings, generating electricity, and powering appliances such as stoves, washing machines and dryers, gas fireplaces, and gas grills).[29] In 2021, California consumed

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[26] California Energy Commission, 2021. 2021 Total System Electric Generation. Website: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2021-total-system-electric-generation (accessed January 2023).

[27] California Energy Commission, 2022a. Energy Consumption Data Management Service. Electricity Consumption by County. Website: www.ecdms.energy.ca.gov/elecbycounty.aspx (accessed January 2023).

[28] Ibid.

[29] U.S. Energy Information Administration. 2021. Natural Gas Explained-Use of Natural Gas. Website: https://www.eia.gov/energyexplained/natural-gas/use-of-natural-gas.php (accessed January 2023).

approximately 11,922 million therms or 11,922,705,640 therms, while Alameda County consumed approximately 377 million therms or approximately 377,052,605 therms.[30]

Fuel

Petroleum is also a non-renewable fossil fuel. Petroleum is a thick, flammable, yellow-to-black mixture of gaseous, liquid, and solid hydrocarbons that occurs naturally beneath the earth's surface. Petroleum is primarily recovered by oil drilling. It is refined into a large number of consumer products, primarily fuel oil and gasoline. Gasoline is the most used transportation fuel in California, with 97 percent of all gasoline being consumed by light-duty cars, pickup trucks, and sport utility vehicles. Based on fuel consumption obtained from EMFAC2021, vehicle trips in Alameda County in 2023 are anticipated to consume 152,376,810 gallons of diesel fuel and 553,890,645 gallons of gasoline.

Previous CEQA Documents

Eastern Dublin EIR

At the time the Eastern Dublin EIR was prepared, the Environmental Checklist Form (Appendix G of the CEQA Guidelines) did not include energy. Therefore, the Eastern Dublin EIR did not specifically analyze impacts to energy. Utilities and service systems impacts and mitigation measures, some of which are related to the demand for energy of additional service systems, were identified and found that the demand for utility extensions and consumption of non-renewable natural resources would result in a significant and unavoidable impact. The following mitigation measure would apply to the proposed project:

> **MM 3.4/46.0** Site Planning, Building Design, and Landscaping. The City shall require project applicants to demonstrate that specific site planning, building design, and landscaping measures have been incorporated into their projects to conserve the use of energy during construction and long-term operation. Such measures might include orientation of lots; buildings and windows; protection of solar access; active and passive solar applications; use of energy efficient materials; and function of landscaping. These measures will be incorporated into an energy conservation plan and shall be reviewed and approved by the City as part of specific development proposals.

Project Impacts and Mitigation Measures

(a) Wasteful consumption of energy resources

No New Impact. The Eastern Dublin EIR determined that development of the EDSP area would result in a significant and unavoidable impact due to the consumption of non-renewable natural resources, including energy consumption and therefore a Statement of Overriding Considerations was adopted for the project. Mitigation measures were identified in the Eastern Dublin EIR to minimize this impact and Mitigation Measure 3.4/46.0, as identified above, would

[30] California Energy Commission, 2022b. Energy Consumption Data Management Service. Gas Consumption by County. Website: www.ecdms.energy.ca.gov/gasbycounty.aspx (accessed December 2022).

apply to the proposed project. Since preparation of the Eastern Dublin EIR, the California Building Energy Efficiency Standards contained in Title 24 in the California Code of Regulations have been revised and updated to include more stringent requirements to prevent the unnecessary consumption of energy. Development on the project site would be required to comply with these standards. In addition, Chapter 7.94, Green Building, of the City of Dublin Municipal Code encourages sustainable construction in the following categories: planning and design, energy efficiency, water efficiency and conservation, materials conservation, and resource efficiency and environmental quality. Adherence to these regulatory requirements and implementation of Mitigation Measure 3.4/46.0, identified in the Eastern Dublin EIR and listed above, would ensure that the proposed project would not result in the wasteful consumption of energy resources.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to energy beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Conflict with local plan for renewable energy

No New Impact. The proposed project does not contain any features that would conflict with or obstruct a State or local plan for renewable energy or energy efficiency and is required to comply with state and local energy regulations, as described above.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to energy beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

California Energy Commission, 2021. 2021 Total System Electric Generation. Website: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2021-total-system-electric-generation (accessed January 2023).

California Energy Commission, 2022a. Energy Consumption Data Management Service. Electricity Consumption by County. Website: www.ecdms.energy.ca.gov/elecbycounty.aspx (accessed January 2023).

California Energy Commission, 2022b. Energy Consumption Data Management Service. Gas Consumption by County. Website: www.ecdms.energy.ca.gov/gasbycounty.aspx (accessed December 2022).

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Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Geology and Soils

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
6. GEOLOGY AND SOILS. Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?				X
ii) Strong seismic ground shaking?				X
iii) Seismic-related ground failure, including liquefaction?				X
iv) Landslides?				X
b) Result in substantial soil erosion or the loss of topsoil?				X
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				X
d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?				X
e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				X
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				X

Environmental Setting

The project site is located within the Coast Range Geomorphic Province of Northern California. This province is generally characterized by northwest-trending mountain ranges and intervening valleys, which reflect the dominant northwest structural trend of the bedrock in the

region. The Calaveras Fault separates the lowlands of the Dublin Valley from the hill areas to the west. Active faults in the vicinity of the project site include the Hayward Fault, approximately 8.3 miles to the west, the Calaveras Fault, located approximately 1.8 miles to the west, and the Greenville Fault, located approximately 9.6 miles to the east. The project site is not located within a State-designated Alquist-Priolo Earthquake Fault Zone.

The project site is located at the base of a west facing hill. The ground surface is essentially level with an average elevation of 438 feet above mean sea level (msl).

Based on subsurface exploration conducted as part of the Geotechnical Investigation, soils encountered on the project site included fill, clay, silt, sand and gravel. Fill, consisting of asphalt concrete and crushed rock, was encountered near the ground surface, varying in thickness between six inches and 12 inches. Near-surface native soil consists of dark brown to black plastic clay to a depth of between three and five feet. The clay is underlain by yellowish-brown sandy and silty clay that is moist to very moist and stiff to very stiff and has occasional gravel.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified potentially significant impacts related to earthquake ground shaking, alteration of landforms, expansive soils, landslide and slope stability, and erosion and sedimentation. With the exception of the primary effects associated with seismic ground shaking, which was determined to be significant and unavoidable and therefore a Statement of Overriding Considerations was adopted for the project. All other impacts related to geology and soils would be reduced to less than significant with implementation of the mitigation measure identified in the Eastern Dublin EIR. The following mitigation measures would apply to the proposed project:

> **MM 3.6/1.0** The primary effects of ground shaking to structures and infrastructures can be reduced to a generally acceptable level below failure/loss of life by using modern seismic design for resistance to lateral forces in construction. Building in accordance with Uniform Building Code and applicable County and City code requirements should reduce the potential for structural failure, major structural damage, and loss of life. However, some structural damage may occur, and it is possible that some residences/structures and infrastructures will not be safe for occupation/use after a large earthquake.
>
> **MM 3.6/2.0** In relatively flat areas which can be developed with minimal grading (the southern portion of the Project site and along Tassajara and Cottonwood Creeks):
>
> - Locate improvements off (setback from) unstable and potentially unstable landforms such as landslides, colluvium filled swales, creek banks, and steep hill slopes.
> - Remove, stabilize or reconstruct potentially unstable landforms, or

- Employ modern design, including appropriate foundation design and applicable codes and policies, in the construction of improvements that must be located on potentially unstable landforms or in areas underlain by alluvium with shallow groundwater levels which could be locally susceptible to liquefaction.

MM 3.6/4.0 Engineered retention structures and surface and subsurface drainage improvement should be uses as appropriate to improve the stability of sidehill fills and potentially unstable materials, particularly colluvium not entirely removed by grading.

MM 3.6/5.0 Seismically induced fill settlement can be substantially reduced if fills are properly designed with keyways and subsurface drainage, and are adequately compacted (i.e., minimum 90 percent relative compaction as defined by the American Society for Testing and Materials (ASTM) test method D1557).

MM 3.6/6.0 Design roads, structural foundations, and underground utilities to accommodate estimated settlement without failure, especially across transitions between fills and cuts. Potentially unstable stock pond embankments should be removed in development areas, unless they are reconstructed to current earthquake design standards.

MM 3.6/7.0 Final design of improvements in the Project site should be made in conjunction with a design-level geotechnical investigations and the reports should be submitted to the City of review prior to issuing any permits. These investigations should incorporate stability analysis of both natural slopes that could impact planned improvements, and planned engineered (cut and fill) slopes, assuming saturated conditions and earthquake shaking. Significant slopes should achieve a minimum factor of safety against failure of 1.5 for static conditions (where 1.0 is failure) and 1.2 under design pseudo-static earthquake loading. A displacement analysis should be performed for critical slopes to confirm the effectiveness of mitigation measures.

MM 3.6/14.0 The potential impact of expansive soils and rock with respect to Project improvements can be significantly reduced, or in many cases prevented by the recognition and characterization of site-specific conditions, and the formulation of appropriate design-level geotechnical investigation conducted for each specific proposed project.

MM 3.6/15.0 The potential for shrink and swell of expansive soils and rock can be reduced by controlling moisture and by treatment through measures listed below. Subsurface drainage alone is not generally effective against the effects of regional wet/drought cycles. Required measures for a specific project should be based on the recommendation of the project geotechnical consultant and approved by the City and include:

- Moisture conditioning prior to construction;

- Construction of surface and subsurface drainage to control infiltration after construction;
- Lime treatment, which can be used to produce non-expansive fill.

MM 3.6/16.0 The potential effects of expansive soil can be reduced by appropriate foundation and pavement design, including those design elements listed below.

- Adjustable foundation systems are not generally effective against the effects of regional wet/drought cycles and are considered undesirable because the systems require periodic maintenance, and their use should be discouraged. Appropriate design criteria should be developed by the project geotechnical consultant and approved by the City:
- Founding structural foundations below the zone of seasonal moisture change;
- Use of structurally supported floors; and
- Removal and replacement with non-expansive fill beneath structure slabs and asphaltic concrete.

MM 3.6/27.0 The potential impacts of short-term construction-related erosion and sedimentation can be reduced by timing grading activities to avoid the rainy season as much as possible, and by implementing one or more of the following interim control measures, which are designed to prevent concentration of runoff, control runoff velocity, and trap silt. Required measures for a specific project will be determined by the City and be a requirement of the grading permit.

- Water bars;
- Mulch-and-net blankets on exposed slopes;
- Straw bale dikes;
- Temporary culverts and swales;
- Sediment traps; and/or
- Silt fences.

MM 3.6/28.0 The potential impacts of long-term erosion and sedimentation can be reduced by the appropriate design, construction, and continued maintenance of surface and subsurface drainage of one or more of the following long-term control measures.

- Required measures for a specific project should be based on the recommendations of the project geotechnical consultants and approved by the City.
- Construction of sediment catch basins at strategic locations to prevent off site sedimentation from existing and/or potential on-site sources;

- Design and construction of storm sewer systems that incorporate the cumulative effects of project buildout
- Creek bank stabilization and repair of existing gullies;
- Revegetation and continued maintenance of graded slopes;
- Construction of drainage ditches or cut and fill slopes and/or natural slopes above developed areas;
- Closed downspout collection systems for individual structures;
- Design of cut and fill slopes to minimize, as much as possible, natural low velocity sheet flow runoff; and
- Periodic homeowner/landowner maintenance.

Project Impacts and Mitigation Measures

(a) Seismic hazards

No New Impact. Potential impacts related to seismic hazards are described below:

Fault Rupture. The project site is not located within or adjacent to an Alquist-Priolo Earthquake Fault Zone. Therefore, the project would have no impact related to fault rupture.

Ground Shaking. The project site and the entire San Francisco Bay Area are located in a seismically active region subject to strong seismic ground shaking. The intensity of an earthquake is a subjective measure of the perceptible effects of a seismic event at a given point. The Modified Mercalli Intensity (MMI) scale is the most commonly used scale to measure the subjective effects of earthquake intensity. It uses values ranging from I to XII.

Mapping has been compiled by the Metropolitan Transportation Commission (MTC) and Association of Bay Area Governments (ABAG) for the likely shaking intensities in the Bay Area that would have a 10 percent chance of occurring in any 50-year period. A large earthquake (magnitude 6.7 or greater) on one of the major active faults in the region would generate severe (MMI 8) ground shaking at the project site.

The most significant adverse impact associated with strong seismic shaking is potential damage to structures and improvements. Implementation of the proposed project would increase the use of the project site and result in the construction of improvements in areas subject to seismic shaking. The risk of ground shaking impacts is reduced through adherence to the design and materials standards set forth in building codes. The City of Dublin has adopted the 2022 CBC (Title 24, Part 2 of the California Code of Regulations), which provides for stringent construction requirements on projects in areas of high seismic risk. Consistent with MM 3.6/1.0 and MM 3.6/2.0 identified in the Eastern Dublin EIR and described above, the design and construction for the proposed project would be required to conform with, or exceed, current best standards for earthquake resistant construction in accordance with the most recent CBC adopted by the City and with the generally accepted standards of geotechnical practice for seismic design in Northern California. In addition, the proposed project would be designed and

constructed in accordance with the site-specific grading and construction techniques identified in the Geotechnical Investigation to reduce impacts related to seismic ground shaking to a less-than-significant level. With adherence to MM 3.6/1.0 and MM 3.6/2.0 identified in the Eastern Dublin EIR, there would be not new or substantially more severe significant impacts related to ground shaking beyond what has been analyzed in the Eastern Dublin EIR.

Liquefaction. Liquefaction is the transformation of loose, fine-grained sediment to a fluid-like state similar to quicksand. This phenomenon occurs due to strong seismic activity and lessens the soil's ability to support a structural foundation. The primary factors affecting the possibility of liquefaction in soil are: (1) intensity and duration of earthquake shaking; (2) soil type and relative density; (3) overburden pressures; and (4) depth to groundwater. Soil most susceptible to liquefaction is clean, loose, fine-grained sands and non-plastic silts that are saturated.

The California Geological Survey (CGS) has mapped Seismic Hazard Zones that delineate areas susceptible to liquefaction and/or landslides that require proposed new developments in these areas to conduct additional investigation to determine the extent and magnitude of potential ground failure. According to mapping by CGS, the project site is located in an area mapped as a liquefaction hazard zone. However, the Geotechnical Investigation concludes that even under the influence of severe ground shaking, the soils at the project site are unlikely to liquefy. The proposed project would be designed and constructed consistent with the most current earthquake resistance standards for Seismic Zone 4 in the CBC and the site-specific recommendations identified in the Geotechnical Investigation, which includes specifications for site preparation, such as grading and compaction requirements and foundation design criteria. In addition, implementation of mitigation measures MM 3.6/2.0, MM 3.6/4.0, MM 3.6/5.0, MM 3.6/6.0, and MM 3.6/7.0, identified in the Eastern Dublin EIR and described above would reduce potential impacts associated with these hazards to less than significant by requiring minimal grading and avoidance of unstable landforms, use of retention structures to improve slope stability, adequate compaction of fill material, accommodation of estimated settlement, and implementation of site-specific geotechnical recommendations.

Landslide. As described above, the proposed project is located on generally level terrain and the potential for landslide is low. Therefore, the proposed project would not expose people or structures to potential substantial adverse effects from landslides. This impact would be less than significant.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, including the site-specific recommendations identified in the Geotechnical Investigation, and mitigation measures identified in the Eastern Dublin EIR there would be no new impacts related to seismic hazards beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Erosion/topsoil loss

No New Impact. The potential for soil erosion exists during the period of earthwork activities and between the time when earthwork is completed, and new vegetation is established, or hardscape is installed. Exposed soils could be entrained in stormwater runoff and transported off the project site. Construction specifications require the preparation of a Stormwater Pollution and Prevention Plan (SWPPP) prior to any ground disturbance activities as required by the National Pollutant Discharge Elimination System (NPDES) General Permit (GP) for Construction (Order 2009-009-DWQ). The SWPPP would provide the details of the erosion control measures to be applied on the project site during the construction period, including Best Management Practices (BMPs) for erosion control that are recognized by the RWQCB. Additional details regarding the SWPPP are provided in Section 9, Hydrology and Water Quality. In addition, the proposed project would be required to comply with MM 3.6/27.0 and MM 3.6/28.0, identified in the Eastern Dublin EIR and described above, to reduce short- and long-term erosion and sedimentation associated with project construction and operation.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR there would be no new impacts related to erosion beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required for this impact.

(c-d) Soil stability

No New Impact. Expansive soils are characterized by the potential for shrinking and swelling as the moisture content of the soil decreases and increases, respectively. Shrink-swell potential is influenced by the amount and type of clay minerals present and can be measured by the percent change of the soil volume. Soils underlying the project site are primarily composed of Clear Lake clay, drained, 0 to 2 percent slopes and Clear Lake clay, drained, 3 to 7 percent slopes, according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service Web Soil Survey. Clear Lake clay is a very deep, poorly drained soil type, with high shrink-swell potential.

The proposed project would be designed and constructed consistent with the most current earthquake resistance standards for Seismic Zone 4 in the CBC and the site-specific recommendations identified in the Geotechnical Investigation, which includes specifications for site preparation, such as compaction requirements and foundation design criteria. Therefore, the project site is not anticipated to become unstable as a result of the proposed project, or potentially result in on- or off-site landslides, liquefaction, lateral spreading or settlement. In addition, implementation of mitigation measures MM 3.6/2.0, MM 3.6/4.0, MM 3.6/5.0, MM 3.6/6.0, and MM 3.6/7.0, identified in the Eastern Dublin EIR and described above would reduce potential impacts associated with unstable soils to a less-than-significant level by requiring minimal grading and avoidance of unstable landforms, use of retention structures to

improve slope stability, adequate compaction of fill material, accommodation of estimated settlement, and implementation of site-specific geotechnical recommendations.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, including City development requirements, and mitigation measures identified in the Eastern Dublin EIR there would be no new impacts related to unstable soils beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(e) Soil capability to support wastewater disposal, including septic

No New Impact. The proposed project would connect to the existing wastewater conveyance system. On-site treatment and disposal of wastewater is not proposed for the project; therefore, the proposed project would have no impacts associated with soils incapable of supporting alternative wastewater disposal systems.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to septic systems beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(f) Paleontological/unique geological resources

No New Impact. Artificial Fill has no paleontological sensitivity, the Surficial Sediments have low paleontological sensitivity, and the Livermore Gravel, which may be encountered at undetermined depths below the Surficial Sediments within the project site, has high paleontological sensitivity (see Figure 5). Project plans and information providing by the project applicant indicate that the deepest excavation associated with the project is expected to be for the storm drain line, which would extend to a maximum depth of approximately 10 feet. Excavation for sewer lines would extend to a depth of 7 feet, trenching for utilities would extend to a depth of 5 feet, and excavation for bioretention areas would extend to a depth of 4 feet. Grading for the building pads and roads/parking would extend to depths of 3 feet and 2 feet, respectively. Excavation for these activities may extend into the high sensitivity Livermore Gravel located at undetermined depths below the Surficial Sediments. Therefore, there is a potential for the project to impact scientifically significant paleontological resources. If such resources are encountered during ground-disturbing activities, implementation of Mitigation Measure 3.9/5.0 as identified in the Eastern Dublin EIR and listed in Section 5. Cultural Resources, which requires work stoppage in the event of discovery, would reduce any potential impacts to paleontological resources to a less-than-significant level.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to the mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to paleontological resources beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the EDSP EIRs that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, the project would not substantially increase the severity of the previously identified geology and soils impacts, nor result in new significant impacts.

With adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR there would be no new or substantially more severe significant impacts to geology and soils beyond what has been analyzed in the previous EDSP EIRs, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

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Greenhouse Gas Emissions

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
7.	**GREENHOUSE GAS EMISSIONS. Would the project:**				
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				X
b)	Conflict with applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				X

Previous CEQA Documents

Since certification of the Eastern Dublin EIR, the issue of the contribution of greenhouse gasses to climate change has become a more prominent issue of concern as evidenced by passage of Assembly Bill 32 in 2006 and Senate Bill 32 in 2016.

Because the Eastern Dublin EIR has been certified, the determination of whether greenhouse gasses and climate change need to be analyzed for this project is governed by the law on supplemental or subsequent EIRs (Public Resources Code section 21166 and CEQA Guidelines, Sections 15162 and 15163). Greenhouse gas and climate change is not required to be analyzed under those standards unless it constitutes “new information of substantial importance, which was not known and could not have been known at the time the Eastern Dublin EIR was certified as complete” (CEQA Guidelines Sec. 15162 (a) (3)).

Greenhouse gas and climate change impacts were not analyzed in the Eastern Dublin EIR; however, these impacts are not new information that was not known or could not have been known at the time this previous EIR was certified. The issue of climate change and greenhouse gasses was widely known prior to the certification of this EIR. The United Nations Framework Convention on Climate Change was established in 1992. The regulation of greenhouse gas emissions to reduce climate change impacts was extensively debated and analyzed throughout the early 1990s. The studies and analyses of this issue resulted in the adoption of the Kyoto Protocol in 1997.

Therefore, the impact of greenhouse gases on climate change was known at the time of the certification of the Eastern Dublin EIR. Under CEQA standards, it is not new information that requires analysis in a supplemental EIR or Negative Declaration. No supplemental environmental analysis of the project's impacts on this issue is required under CEQA.

Project Impacts and Mitigation Measures

(a-b) Generate greenhouse gas (GHG) emissions or conflict with GHG plans or regulations

As discussed above, no additional environmental analysis is required under CEQA Section 21166 and CEQA Guidelines section 15162.

Conclusion

No CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Hazards and Hazardous Materials

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
8.	**HAZARDS AND HAZARDOUS MATERIALS. Would the project:**				
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				X
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				X
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within ¼ mile of an existing or proposed school?				X
d)	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				X
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				X
f)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				X
g)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				X

Environmental Setting

The site contains native and introduced tree and other vegetation species, as further described in Section 4, Biological Resources of this Initial Study. The site has historically been used as a landscape contracting business with outdoor storage and contains one single-family home and associated outbuildings. Building materials and similar equipment are currently stored on the site. The project site has a gradual slope to the south toward an unnamed tributary. A six-foot

chain link fence with a four-foot-tall sheet metal barrier at the base has been installed along the southern property line to provide a wildlife barrier between the project site and adjacent tributary.

Surrounding land uses include Quarry Lane School to the north. To the east of the project site are open space lands that are part of the Northern Drainage Conservation Area (NDCA). Immediately south of the project site is the unnamed tributary of Tassajara Creek. Single-family residential development and undeveloped open space are located further to the south. Tassajara Road is located immediately to the west of the project site.

Previous CEQA Documents

The Eastern Dublin EIR did not include a discussion of hazards and hazardous materials as an identified environmental topic area as it was not determined to be an environmental issue of concern; however, the Eastern Dublin EIR did discuss the potential for hazardous materials releases as part of the analysis of solid waste disposal and fire protection. Mitigation measures identified for solid waste disposal are included in Section 18, Utilities and Service Systems of this Initial Study. The Eastern Dublin EIR did identify potentially significant impacts related to wildfire and fire hazards. Mitigation measures identified for wildfire and fire hazards are included in Section 19, Wildfire of this Initial Study.

Because the Eastern Dublin EIR has been certified, the determination of whether impacts related to hazards or hazardous materials need to be analyzed for this project is governed by the law on supplemental or subsequent EIRs (Public Resources Code section 21166 and CEQA Guidelines, Sections 15162 and 15163). Hazardous materials are not required to be analyzed under those standards unless it constitutes “new information of substantial importance, which was not known and could not have been known at the time the Eastern Dublin EIR was certified as complete” (CEQA Guidelines Sec. 15162 (a) (3)).

Hazardous materials impacts were not analyzed in the Eastern Dublin EIR; however, these impacts are not new information that was not known or could not have been known at the time this previous EIR was certified. The issue of hazards and hazardous materials was widely known prior to the certification of this EIR.

Therefore, the impact of hazardous materials was known at the time of the certification of the Eastern Dublin EIR. Under CEQA standards, it is not new information that requires analysis in a supplemental EIR or Negative Declaration. No supplemental environmental analysis of the project's impacts on this issue is required under CEQA.

Project Impacts and Mitigation Measures

(a-d) Exposure to hazardous materials, upset/accident, near school, hazardous materials list

As discussed above, no additional environmental analysis is required under CEQA Section 21166 and CEQA Guidelines section 15162.

(e) Proximity to a public airport

No New Impact. The project site is not located within an airport land use plan, or within two miles of a public airport or public use airport. The project site is located approximately 3.14-mile northwest of the Livermore Municipal Airport. The proposed project would not be an incompatible land use, would not add structures of a height such that it would create a hazard or obstruction, and would not result in the addition of a characteristic that would create a hazard to air navigation.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to proximity to a public airport beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(f) Impair implementation of an emergency response plan or emergency evacuation plan

No New Impact. The Tri-Valley Local Hazard Mitigation Plan was developed in compliance with State requirements and also meets the requirements of the Federal Emergency Management Agency (FEMA) as the City's local hazard mitigation plan. The Tri-Valley Local Hazard Mitigation Plan provides a uniform hazard mitigation strategy for the Tri-Valley area, addressing a range of hazards including, but not limited to, earthquakes, floods and wildland fire. The City of Dublin also has an adopted Comprehensive Emergency Management Plan and a Local Hazard Mitigation Plan to assess hazards and mitigate risks prior to a disaster event.

The proposed project would construct a performing arts complex to serve the existing Quarry Lane School, along Tassajara Road. It is not located along an identified evacuation route, nor would it affect local roadways. The proposed project would not interfere with an adopted emergency response plan or emergency evacuation plan. Because the proposed project would not substantially alter or block the adjacent roadways, the proposed project would not be expected to impair the function of nearby emergency evacuation routes, including Tassajara Road.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to implementation of an adopted emergency response plan or emergency evacuation plan beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(g) Expose people or structures to wildland fires

No New Impact. A wildland fire is a fire occurring in a suburban or rural area which contains uncultivated land, timber, range, brush, or grasslands. Wildland fires are primarily a concern in areas where there is a mix of developed and undeveloped lands. A portion of the project site is

located within a moderate Fire Hazard Severity Zone within a State Responsibility Area (SRA), as mapped by the California Department of Forestry and Fire Protection (CAL FIRE).

The proposed project would be constructed in accordance with the requirements of the CBC, California Fire Code, and the City's Wildfire Management Plan. In addition, consistent with the City's entitlement process and Mitigation Measure 3.5/9.0 (discussed below in Section 18. Wildfire) in the Eastern Dublin EIR, project plans would be reviewed by the Alameda County Fire Department to ensure that required fire protection elements are incorporated into final building plans, including provision of adequate water supply and pressure, and use of appropriate landscape and building materials.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and MM 3.5/9.0 identified in the Eastern Dublin EIR, there would be no new impacts related to wildfire beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to hazards and hazardous materials beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

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Hydrology and Water Quality

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
9. HYDROLOGY AND WATER QUALITY. Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?				X
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?				X
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				X
(i). Result in substantial erosion or siltation on- or off-site;				X
(ii). Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;				X
(iii). Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or				X
(iv). Impede or redirect flood flows?				X
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				X
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				X

Environmental Setting

The project site is located within the Alameda Creek watershed which drains to the San Francisco Bay. The 660-square-mile Alameda Creek watershed is the largest watershed in the Bay Area, extending from Mount Hamilton north to Mount Diablo, east to the Altamont Hills and west to San Francisco Bay. The project site is located within the jurisdiction of Zone 7 of the Alameda County Flood Control and Water Conservation District (Zone 7).

The project site is located within the San Francisco Bay Hydrologic Region. The San Francisco Bay RWQCB Basin Plan identifies the Project as being within the Livermore Valley groundwater basin (Basin ID 2-10). As defined in DWR Bulletin 118 Update 2003 (California's Groundwater), the Livermore Valley Groundwater Basin (DWR Basin 2-10) extends from the Pleasanton Ridge east to the Altamont Hills and from the Livermore Uplands north to the Tassajara Uplands. According to the Geotechnical Investigation prepared for the proposed project, groundwater was not encountered in any of the exploratory holes, which extended to a maximum depth of 20.5 feet below the existing ground surface.

As described in Section 4, Biological Resources, a tributary to Tassajara Creek and its associated riparian woodland is located to the south of the project site. The riparian woodland and tributary are part of the Northern Drainage Conservation Area (NDCA) and are separated from the project site by an existing 6-foot-high chain link fence with a 3.5-foot-high sheet metal barrier along its base that was constructed along the southern site boundary. A potentially jurisdictional seasonal wetland was also observed just east of the site.

Based on the Flood Insurance Rate Map (FIRM) published by the Federal Emergency Management Agency (FEMA) [06001C0326G, dated August 3, 2009], the project site is located in an area of minimal flood hazard.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified potentially significant impacts related to the overdraft of potential flooding, reduced groundwater recharge, and non-point sources of pollution. Mitigation measures were identified to reduce potential impacts to a less-than-significant level. The following mitigation measures would apply to the proposed project:

> **MM 3.5/44.0** Require drainage facilities that will minimize any increased potential or erosion or flooding.
>
> **MM 3.5/45.0** Require channel improvements consisting of natural creek bottoms and side slopes with natural vegetation where possible to meet Policy 9.7 above.
>
> **MM 3.5/46.0** Storm Drainage Master Plan. Require a Master Drainage Plan be prepared for each development application prior to development approval. The plan shall include:
>
> - Hydrologic studies of entire related upstream watersheds.
> - Phase approach and system modeling.
> - Documentation of existing conditions.
> - Design-level analysis of the impacts of proposed development of the existing creek channels and watershed areas.

- Detailed analysis of effects of development on water quality of surface runoff.
- Detailed drainage design plans for each phase of the proposed project.
- Design features to minimize runoff flows within existing creeks/channels in order to alleviate potential erosion impacts and maintain riparian vegetation.

MM 3.5/47.0 Flood Control. Require development in the Planning Area to provide facilities to alleviate potential downstream flooding due to project development. These facilities shall include:

- Retention/detention facilities as appropriate to control peak runoff discharge rates.
- Energy dissipators at discharge locations to prevent channel erosion, as per Zone 7 guidelines. Energy dissipators should be designed to minimize adverse effects on biological resources and the visual environment; in particular, widespread use of riprap should be avoided.

MM 3.5/49.0 Plan facilities and select management practices in the Eastern Dublin Specific Plan EIR area that protect and enhance water quality.

MM 3.5/50.0 Zone 7 supports ongoing groundwater recharge program from the Central Basin.

MM 3.5/51.0 Develop community-based programs to educate local residents and businesses on methods to reduce non-point sources of pollution. Coordinate such programs with current Alameda County programs. Such programs include:

- Increased availability of liquid recycling centers (i.e., oil, greases, etc.) to reduce potential for dumping into storm drains.
- Programs that educate the public that catch basins and storm drains flow to creeks, to potable groundwater basins, and to the San Francisco Bay, including a potential program to paint labels at each catch basin and storm drain to alert people to these facts.

Project Impacts and Mitigation Measures

(a) Violate water quality or waste discharge requirements or degrade surface or groundwater quality

No New Impact. Construction activities associated with the proposed project would cause disturbance of soil during excavation work, which could adversely impact water quality. Contaminants from construction vehicles and equipment and sediment from soil erosion could increase the pollutant load in runoff being transported to receiving water during development. Although surface runoff from the site would likely decrease with the proposed project (due to proposed stormwater treatment measures), runoff from the proposed landscaped areas may contain residual pesticides and nutrients (associated with landscaping) and sediment and trace

metals (associated with atmospheric deposition) during operation of the project. Implementation of mitigation measures Mitigation Measure 3.6/27.0 and Mitigation Measure 3.6/28.0, as described in Section 6, Geology and Soils, would ensure that potential water quality impacts associated with project construction are reduced to a less-than-significant level. The project would be required to comply with these mitigation measures.

In addition, because the project would result in the disturbance of greater than one acre of soil, project implementation is required to comply with the Construction General Permit, which requires preparation of a SWPPP and implementation of BMPs to reduce the discharge of construction-related stormwater pollutants. A SWPPP must include a detailed description of controls to reduce pollutants and outline maintenance and inspection procedures. Typical sediment and erosion BMPs include protecting storm drain inlets, establishing and maintaining construction exits and perimeter controls to avoid tracking sediment off-site onto adjacent roadways. A SWPPP also defines proper building material staging and storage areas, paint and concrete washout areas, describes proper equipment/vehicle fueling and maintenance practices, measures to control equipment/vehicle washing and allowable non-stormwater discharges, and includes a spill prevention and response plan. Compliance with the requirements of the Construction General Permit and implementation of mitigation measures Mitigation Measure 3.6/27.0 and Mitigation Measure 3.6/28.0 ensure that the proposed project would result in less-than-significant impacts to water quality during construction.

Although the site is partially developed, the proposed project would increase the total amount of impervious surface on the project site. The increase in impervious surface could result in increased stormwater runoff (both flow rate and volume) from the project site relative to pre-project conditions, which may result in hydromodification impacts (i.e., increased potential for erosion of creek beds and banks, silt pollution generation, or other adverse impacts on beneficial uses due to increased erosive force). Hydromodification is the alteration of the natural flow of water through a landscape, and often takes the form of creek channel erosion. Hydromodification is one of the leading sources of impairment in streams, lakes, and estuaries.

The proposed project is subject to the conditions of the Municipal Regional Permit (MRP) (Order No. R2-2022-0018 NPDES Permit No. CAS612008). The C.3 Stormwater Technical Guidance updated in February 2021 as per the Alameda County Clean Water Program, outlines low impact development (LID) provisions that the MRP permit holders can use during planning of development activities to manage and reduce occurrences of stormwater runoff pollutant discharges. These low impact development methods aim to preserve existing natural landscapes to minimize imperviousness and water quality impacts.

The proposed project would be considered a “regulated project” under the MRP. Provision C.3 of the MRP requires new development and redevelopment projects that would replace more than 5,000 square feet of existing impervious surfaces to include post-construction stormwater control in project designs, including measures for site design, source control, runoff reduction, stormwater treatment, and baseline hydromodification management. Under the C.3 requirements, the preparation and submittal of a Stormwater Control Plan (SCP) would be

required for the project site. The purpose of a SCP is to detail the design elements and implementation measures necessary to meet the post-construction stormwater control requirements of the MRP. In particular, SCPs must include LID design measures, which reduce water quality impacts by preserving and recreating natural landscape features, minimizing imperviousness, and using stormwater as a resource, rather than a waste product. The proposed project would also be required to prepare a Stormwater Facility Operation and Maintenance Plan to ensure that stormwater control measures are inspected, maintained, and funded for the life of the project. Compliance with the C.3 requirements of the MRP would ensure that operation-period impacts to water quality would be less than significant.

As outlined in the project description, the proposed project would include approximately 3,460 square feet of bioretention area on the project site that would be used for stormwater quality control. The proposed project would include approximately 18 bioretention basins and storm drains throughout the project site, which would connect to the existing stormdrain pipeline in Tassajara Road.

In addition, Mitigation Measure 3.5/46.0, identified in the Eastern Dublin EIR, which requires preparation of a storm drainage plan for the proposed project, would ensure that potential impacts associated with stormwater runoff would be reduced to a less-than-significant level.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with compliance with existing regulatory requirements and implementation of the mitigation measures identified in the Eastern Dublin EIR, no new impacts or substantially more severe significant impacts related to water quality violations, wastewater discharges, or water quality degradation would occur, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Substantially decrease or interfere with groundwater supplies

No New Impact. Although the proposed project would result in a net increase in impervious surface coverage compared to the existing condition, the proposed project would include the use of LID, including multiple bioretention basins and storm drains throughout the site that would retain and clean stormwater on-site before discharging it into the municipal stormwater system, consistent with Provision C.3 of the MRP.

The proposed project would connect to the existing water lines within the vicinity of the project site and would not require the use of groundwater. Due to the depth of groundwater and the shallow excavations required for project construction, dewatering is not anticipated during construction activities.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin

EIR, there would be no new impacts to groundwater supplies beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(c) Substantially alter existing drainage patterns re: erosion/siltation, re: flooding, or degrade water quality

No New Impact. The proposed project would create new landscaped areas and impermeable pavement surfaces, which would alter the existing drainage pattern of the project site. However, as discussed above, the proposed project would be required to comply with the C.3 requirements of the MRP, standard City development requirements related to stormwater, and mitigation measures identified in the Eastern Dublin EIR, including Mitigation Measure 3.5/47.0, which requires preparation of a flood control plan for the proposed project.

As noted in Section 8.b and 9.a, the proposed project would be required to prepare a SWPPP as required by the Construction General Permit and consistent with Mitigation Measure 3.6/27.0 and Mitigation Measure 3.6/28.0, identified in the Eastern Dublin EIR, to reduce short- and long-term erosion and sedimentation associated with project construction and operation.

Required compliance with applicable regulations, implementation of City policies, and the mitigation measures identified in the Eastern Dublin EIR, would reduce potential impacts of the project related to changes in drainage patterns to a less-than-significant level by requiring preparation and implementation of a SWPPP during project construction, compliance with the C.3 requirements of the MRP to manage stormwater during project operation, and preparation of a flood control plan.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to existing drainage patterns beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(d) Flood hazard, seiche, or tsunami

No New Impact. As described above, the project site is not located within a flood hazard area mapped by FEMA, or a mapped tsunami inundation area for Alameda County, and no seismically induced seiche waves have ever been documented in the San Francisco Bay Area. Additionally, the proposed project would implement various design features to ensure contaminants would be contained.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin

EIR, there would be no new impacts related to flood hazard, seiche or tsunami beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(e) Water Quality

No New Impact. The Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan)[31] is the master policy document that establishes the water quality objectives and strategies needed to protect designated beneficial water uses in the San Francisco Bay region. The State Water Board and the Regional Water Board enforce compliance with the water quality objectives of the Basin Plan through the issuance of NPDES permits. As noted above, the proposed project would implement various design features to ensure the proposed project would have a less-than-significant impact related to water quality, including multiple bioretention basins and storm drains throughout the site that would retain and clean stormwater on-site before discharging it into the municipal stormwater system, consistent with Provision C.3 of the MRP, with which all projects in the City of Dublin must comply.

The project site is not located within a mapped Division of Water Rights groundwater basin boundary. Therefore, the proposed project would not interfere with groundwater recharge in the vicinity of the project site. The proposed project would not conflict with or obstruct the implementation of a sustainable groundwater management plan.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to water quality beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to hydrology and water quality beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

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[31] California Regional Water Quality Control Board San Francisco Bay Region. 2017. *Water Quality Control Plan for the San Francisco Bay Basin*. May 4.

Source(s)

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Dublin, City of. 2002. Final Revised Supplemental Environmental Impact Report, State Clearinghouse No. 2001052114, East Dublin Properties Stage 1 Development Plan and Annexation. March.

Federal Emergency Management Agency. 2021. FEMA Flood Map Service Center (map). Website: https://msc.fema.gov/portal/search?AddressQuery=1881%20Collier%20Canyon%20Road%2C%20Dublin%2C%20CA#searchresultsanchor (accessed June 21, 2022).

Haag, Jerry. 2005. Fallon Village Project, Final Supplemental Environmental Impact Report, State Clearinghouse No. 2005062010. November.

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Land Use and Planning

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
10.	**LAND USE AND PLANNING. Would the project:**				
a)	Physically divide an established community?				X
b)	Cause a significant environmental impact due to a conflict with any applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				X

Environmental Setting

The project site consists of an approximately 12-acre property that currently contains the existing private K-12 Quarry Lane School in the north and the proposed area for the performing arts complex in the south. The proposed expansion area has historically been used as a landscape contracting business with outdoor storage and contains one single-family home and associated outbuildings. Building materials and similar equipment are currently stored on the site. Surrounding land uses include residential development to the north; to the east of the project site are open spaces that are part of the NDCA. Immediately south of the project site is an unnamed tributary of Tassajara Creek. Single-family residential development and undeveloped open space are located further to the south. Tassajara Road is located immediately to the west of the project site.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified less than significant impacts related to the substantial alteration to existing land use, on-site project land use conflicts, conversion of non-urban lands, potential conflicts with land uses to the south, east and north. A potentially significant impact was identified related to potential conflicts with land uses to the west, which was determined to be less than significant with implementation of Mitigation Measure 3.1/1.0, which requires the City to coordinate with the U.S. Army regarding future development proposals in the vicinity of the U.S. Army's Parks Reserve Forces Training Area (Camp Parks RFTA). This mitigation measure does not apply to the proposed project.

Project Impacts and Mitigation Measures

(a) Physically divide an established community

No New Impact. The physical division of an established community typically refers to the construction of a feature (such as an interstate highway or railroad tracks) or removal of a

means of access (such as a local road or bridge) that would impair mobility within an existing community, or between a community and outlying areas.

The proposed project would involve the demolition of the existing structures on the project site and development of a new auditorium and associated parking lot directly south of the existing Quarry Lane School. Access to the project site would be via a new right-in driveway from Tassajara Road at the southern end of the project site, with a connection to the existing school parking lot, which has a signalized entry and exit to Tassajara Road. The proposed project would not result in the realignment or closure of any existing roads. Therefore, the proposed project would not result in the physical division of an established community or adversely affect the continuity of land uses in the vicinity. No new significant or substantially more severe significant impacts would occur.

(b) Conflict with land use plan, policy, or regulation

No New Impact. The proposed project would involve the demolition of the existing structures on the site and development of a new performing arts center and associated parking lot to serve the existing Quarry Lane School. The new facility would provide space to host the Quarry Lane School's existing performance art shows and events, as well as an improved space for high school commencement ceremonies.

As outlined in the project description, the project proposes a Conditional Use Permit to approve a minor amendment to the Stage 1 and Stage 2 Development Plan for the Community Facility use. The City of Dublin Planning Commission may approve minor amendments to an adopted Development Plan upon a finding that the amendment substantially complies with and does not materially change the provisions or intent of the adopted Planned Development Zoning District Ordinance for the site. As part of the project entitlements, the City may grant a Conditional Use Permit to allow for the proposed use. In addition, the proposed performing arts center would be compatible with the mix and intensity of uses located within the vicinity of the site, which generally consist of residential and open spaces, as well as the existing school. Therefore, the proposed project would not conflict with any applicable land use plans, policies, or regulations.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts to land use and planning beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to

applicable regulatory requirements, there would be no new impacts to land use and planning beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Mineral Resources

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
11.	**MINERAL RESOURCES. Would the project:**				
a)	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				X
b)	Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?				X

Environmental Setting

Minerals are any naturally occurring chemical element or compound, or groups of elements and compounds, formed from inorganic processes and organic substances including, but not limited to, coal, peat, and oil-bearing rock, but excluding geothermal resources, natural gas, and petroleum. Rock, sand, gravel, and earth are also considered minerals by the Department of Conservation when extracted by surface mining operations.

Neither the State Geologist nor the California Department of Mines and Geology (CDMG) have classified any areas in the City as containing mineral deposits that are either of Statewide significance or the significance of which requires further evaluation.

Previous CEQA Documents

The Eastern Dublin EIR does not indicate that significant mineral resource deposits exist on the project site. Therefore, no impacts related to mineral resources were identified.

Project Impacts and Mitigation Measures

(a-b) Loss of known or identified mineral resources

No New Impact. The project site does not have any mineral extraction areas so there would be no new or substantially more severe impacts to mineral resources. The proposed project would not result in the loss of available of a known mineral resource that would be of value of the region and residents of the state or the loss of availability of any known locally important mineral resource recovery site. No new impact or increase in the severity of the impact would occur.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to mineral resources beyond what has been analyzed in the previous Eastern Dublin

EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to mineral resources beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Noise

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
12. NOISE. Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies?				X
b) Generation of excessive ground borne vibration or ground borne noise levels?		X		
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				X

Environmental Setting

Noise is usually defined as unwanted sound. Noise consists of any sound that may produce physiological or psychological damage and/or interfere with communication, work, rest, recreation, or sleep. Several noise measurement scales exist that are used to describe noise in a particular location. A decibel (dB) is a unit of measurement that indicates the relative intensity of a sound. Sound levels in dB are calculated on a logarithmic basis. An increase of 10 dB represents a 10-fold increase in acoustic energy, while 20 dB is 100 times more intense and 30 dB is 1,000 times more intense. Each 10 dB increase in sound level is perceived as approximately a doubling of loudness; and similarly, each 10 dB decrease in sound level is perceived as half as loud. Sound intensity is normally measured through the A-weighted sound level (dBA). This scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. The A-weighted sound level is the basis for 24-hour sound measurements that better represent human sensitivity to sound at night.

As noise spreads from a source, it loses energy so that the farther away the noise receiver is from the noise source, the lower the perceived noise level would be. Geometric spreading causes the sound level to attenuate or be reduced, resulting in a 6 dB reduction in the noise level for each doubling of distance from a single point source of noise to the noise sensitive receptor of concern.

Vibration refers to ground-borne noise and perceptible motion. Ground-borne vibration is almost exclusively a concern inside buildings and is rarely perceived as a problem where the motion may be discernible, but there is less adverse reaction without the effects associated

with the shaking of a building. Vibration energy propagates from a source through intervening soil and rock layers to the foundations of nearby buildings. The vibration then propagates from the foundation throughout the remainder of the structure. Building vibration may be perceived by occupants as motion of building surfaces, the rattling of items on shelves or hanging on walls, or a low-frequency rumbling noise, otherwise referred to as ground-borne noise. Typically, sources that have the potential to generate ground-borne noise are likely to produce airborne noise impacts that mask the radiated ground-borne noise. The rumbling noise is caused by the vibrating walls, floors, and ceilings radiating sound waves. Annoyance from vibration often occurs when the vibration exceeds the threshold of perception by 10 dB or less. This is an order of magnitude below the damage threshold for normal buildings.

Typical sources of ground-borne vibration are construction activities (e.g., blasting, pile driving, and operating heavy-duty earthmoving equipment) and occasional traffic on rough roads. Problems with ground-borne vibration and noise from these sources are usually localized to areas within approximately 100 feet of the vibration source, although there are examples of ground-borne vibration causing interference out to distances greater than 200 feet. When roadways are smooth, vibration from traffic, even heavy trucks, is rarely perceptible. For most projects, it is assumed that the roadway surface will be smooth enough that ground-borne vibration from street traffic will not exceed the impact criteria; however, construction of the project could result in ground-borne vibration that could be perceptible and annoying.

Existing Noise Levels

Major sources of noise on and adjacent to the project site include noise generated by vehicles on Tassajara Road, aircraft flyovers (most likely private aircraft originating from Livermore Municipal Airport), and children playing at the Quarry Lane School. The existing noise conditions are based on baseline noise conditions identified in the 2016 Environmental Noise Impact Study for 6237 Tassajara Road, prepared by RGD Acoustics.[32] Based on the results, the Community Noise Equivalent Level (CNEL) ranges between 46 dBA and 68 dBA at the project site. Table G shows the results of the noise measurements.

32 RGD Acoustics. 2016. Environmental Noise Impact Study for 6237 Tassajara Road, Dublin, CA. March 10.

Table G: Ambient Noise Measurement Results (RGD Acoustics 2016)

Location	Date/Time	A-Weighted Noise Level, dBA					
		L_{eq}	L_{max}	L_{10}	L_{50}	L_{90}	CNEL
ST-1: Near northeastern corner of the project site boundary at 5 ft height above ground.	16 October 2014 11:45 – 12:00 p.m.	49	64	59	47	36	46**
ST-1: Near northeastern corner of the project site boundary at 24 ft height above ground.	18 October 2014 11:30 – 1:00 p.m.	55	72	65	49	37	52**
ST-2: Near western edge of project site boundary at 5 ft above ground close to Tassajara Road	16 October 2014 12:15 – 12:30 p.m.	69	87	80	63	50	68*
ST-3: Near northern edge of project site boundary at 5 ft above ground closest to Quarry Lane School parking lot.	16 October 2014 12:35 – 1:50 p.m.	57	65	62	56	52	54**

Source: RGD Acoustics. 2016. Environmental Noise Impact Study for 6237 Tassajara Road, Dublin, CA. March 10
CNEL = Community Noise Equivalent Level
Leq = Equivalent Continuous Noise Level
* CNEL based on correlation with simultaneous measurement at long-term measurement location.
** CNEL due to children playing is calculated assuming the activity continues from 7 a.m. to 7 p.m.

Surrounding Noise Sensitive Land Uses

Certain land uses are considered more sensitive to noise than others. Examples of these include residential areas, educational facilities, hospitals, childcare facilities, and senior housing. The nearest noise sensitive uses are the Quarry Lane School which is north and adjacent to the site, and single-family residential buildings approximately 150 feet south of the project site boundary.

Local Regulations

City of Dublin General Plan. The Noise Element of the City of Dublin General Plan establishes residential, commercial, and industrial land use compatibility standards for noise measured at the property line of the receiving land use. The land use compatibility noise criteria, as shown in Table H, provide the basis for decisions on location of land uses in relation to noise sources and for determining noise mitigation requirements.

The Noise Element of the Dublin General Plan identifies "normally acceptable" noise levels for all schools, churches and nursing home uses as 60 dBA CNEL or less. Noise levels from 61-70 CNEL are considered “conditionally acceptable”, while noise levels between 71-80 CNEL are considered “normally unacceptable.” Noise levels over 80 dBA CNEL are considered clearly unacceptable for new development of these types of land uses.

Table H: City of Dublin Land Use/Noise Compatibility Standards (dBA CNEL)

Land Use Category	Normally Acceptable	Conditionally Acceptable[1]	Normally Unacceptable	Clearly Unacceptable
Residential	60 or less	61-70	71-75	Over 75
Motels, hotels	60 or less	61-70	71-80	Over 80
Schools, churches, nursing homes	60 or less	61-70	71-80	Over 80
Neighborhood parks	60 or less	61-65	66-70	Over 70
Offices: retail commercial	70 or less	71-75	76-80	Over 80
Industrial	70 or less	71-75	Over 75	-

Source: Dublin General Plan Noise Element, Table 9-1, 2012
CNEL = Community Noise Equivalent Level
[1] Conditionally acceptable exposure requires noise insulation features in building design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.

Eastern Dublin Specific Plan. As described in Section 6.4.2 of the EDSP, the primary source of noise in eastern Dublin is traffic along I-580. The 60 dB contour for noise levels, which is considered the maximum normally acceptable level of residential uses and other sensitive uses extends approximately 2,000 feet north of the freeway. As specified in Policy 6-44, development along the I-580 frontage will be required to provide adequate mitigation to conform to the State Land Use Compatibility Standards for noise and policies and standards in the City of Dublin's Noise Element.

City of Dublin Municipal Code. The City of Dublin Municipal Code (Section 5.28.020) prohibits any person within the City from making any loud, or disturbing, or unnecessary, or unusual or habitual noise or any noise which annoys or disturbs or injures or endangers the health, repose, peace, or safety of any reasonable person of normal sensitivity present in the area.

Section 8.36.060(C)(3) states that for lots 5,000 square feet or larger, mechanical equipment that generates noise when located within a required setback as allowed by this subsection, and within 10 feet of an existing or potential residence, or an existing paved patio area on adjoining property, shall be enclosed as necessary to reduce noise at the property line to a maximum of 50 dBA at any time.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified that impacts related to the exposure of existing and proposed development to airport noise would be less than significant. The Eastern Dublin EIR also found that impacts related to exposure of proposed housing to future roadway noise, exposure of existing and proposed residences to construction noise, and noise conflicts due to the adjacency of diverse land uses permitted by plan policies supporting mixed-use development would be less than significant with implementation of mitigation measures identified in the

Eastern Dublin EIR. In addition, the Eastern Dublin EIR identified that impacts associated with exposure of existing residences to future roadway noise and exposure of proposed residential development to noise from future military training activities at Camp Parks RFTA and the County jail would be significant and unavoidable. The following mitigation measures would apply to the proposed project:

MM 3.10/2.0 Require that development projects provide for noise barriers or berms near existing residences to control noise in outdoor use spaces. One possibility is the construction of solid fences around outdoor use areas. The noise control for existing residences should be evaluated on a case-by-case basis.

MM 3.10/3.0 Require an acoustical study prior to future development in the Tassajara Foothill Residential, Tassajara Village Center, County Center, and Hacienda Gateway sub-area to determine if future noise impact from Parks RFT A or the County jail will be within acceptable limits. The goal of the study will be to identify all potential noise-generating operations and determine if future noise levels will exceed the acceptable levels as defined by the City and Army.

MM 3.10/4.0 Developers shall submit to the City a Construction Noise Management Program that identifies measures to be taken to minimize impacts on existing planning area residents. The program will include a schedule for grading and other major noise-generating activities that will limit these activities to the shortest possible number of days. Hours of construction activities shall be limited in keeping with Dublin ordinances. The Program for construction vehicle access to the site shall minimize construction truck traffic through residential areas. If construction traffic must travel through residential areas, then a mitigation plan should be developed. The Program may include barriers, berms, or restrictions on hours.

MM 3.10/5.0 In order to minimize the impact of construction noise, all operations should comply with local noise standards relating to construction activities. When construction occurs near residential areas, then it should be limited to normal daytime hours to minimize the impact. Stationary equipment should be adequately muffled and located as far away from sensitive receptors as possible.

MM 3.10/6.0 Noise management plans shall be prepared and reviewed as part of development application for all mixed-use projects in which residential units would be combined with commercial, office, or other urban non-residential uses. The objective of the noise management plan would be to provide a high-quality acoustic environment for residents and nonresidential tenants/ owners by taking steps to minimize or avoid potential noise problems. The plan would be prepared by a qualified acoustical consultant. The plan would take into account the concerns of residents, nonresidential tenants/ owners, and maintenance personnel. The plan should be prepared at an early stage of the design process. Ideally, the acoustical consultant should provide input to

the architect at a preliminary site plan stage, to make maximum use of detailed site planning to avoid noise conflicts.

Project Impacts and Mitigation Measures

(a) Generate noise exceeding standards

No New Impact. The short-term construction and long-term noise impacts associated with the proposed project are described below.

Short-Term Construction Noise Impacts. Project construction would result in short-term noise impacts on the nearby sensitive receptors. Maximum construction noise would be short-term, generally intermittent depending on the construction phase, and variable depending on receiver distance from the active construction zone. The duration of noise impacts generally would be from one day to several days depending on the phase of construction. The level and types of noise impacts that would occur during construction are described below.

Table I lists typical construction equipment noise levels (L_{max}) recommended for noise impact assessments, based on a distance of 50 feet between the equipment and a noise receptor, obtained from the Federal Highway Administration (FHWA) Roadway Construction Noise Model. Construction-related short-term noise levels would be higher than existing ambient noise levels currently in the project area but would no longer occur once construction of the project is completed.

Two types of short-term noise impacts could occur during construction of the proposed project. The first type involves construction crew commutes and the transport of construction equipment and materials to the site, which would incrementally increase noise levels on roads leading to the site. As shown in Table I, there would be a relatively high single-event noise exposure potential at a maximum level of 84 dBA L_{max} with trucks passing at 50 feet.

The second type of short-term noise impact is related to noise generated during site preparation and the construction of the proposed project. According to the construction schedule, the phases of construction include: (1) demolition; (2) site preparation; (3) grading; (4) building construction; (5) paving; and (6) architectural coating. Construction of the proposed project is anticipated to begin in fall of 2023 and be completed by fall of 2024.

Construction would be undertaken in discrete steps, each of which would have its own mix of equipment, and consequently its own noise characteristics. These various sequential phases would change the character of the noise generated on the project site. Therefore, the noise levels would vary as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase.

Table I lists the maximum noise levels from the Highway Construction Noise Handbook recommended for noise impact assessments for the loudest anticipated construction that would be used for the project based on a distance of 50 feet between the equipment and a

noise receptor. Typical operating cycles for these types of construction equipment may involve one to two minutes of full power operation followed by three to four minutes at lower power settings.

Table I: Typical Maximum Construction Equipment Noise Levels (L_{max})

Type of Equipment	Acoustical Usage Factor	Suggested Maximum Sound Levels for Analysis (dBA L_{max} at 50 ft)
Air Compressor	40	80
Backhoe	40	80
Crane	16	85
Dozers	40	85
Excavator	40	85
Forklift	20	85
Generator	50	80
Grader	40	85
Loader	40	80
Paver	50	85
Roller	20	85
Scraper	40	85
Skid Steer Loader	40	80
Tractor	40	84
Trencher	50	82
Water Truck	40	84

Source: *Highway Construction Noise Handbook* (FHWA 2006).
dBA = A-weighted decibel
FHWA = Federal Highway Administration
ft = foot/feet
HP = horsepower
L_{max} = maximum noise level

Each piece of construction equipment operates as an individual point source. Utilizing the following equation, a composite noise level can be calculated when multiple sources of noise operate simultaneously:

$$Leq\ (composite) = 10 * \log_{10}\left(\sum_{1}^{n} 10^{\frac{Ln}{10}}\right)$$

Table J shows the composite noise levels of the two loudest pieces of equipment for each construction phase, at a distance of 50 feet from the construction area.

Once composite noise levels are calculated, reference noise levels can then be adjusted for distance using the following equation:

$$Leq\ (at\ distance\ X) = Leq\ (at\ 50\ feet) - 20 * \log_{10}\left(\frac{X}{50}\right)$$

In general, this equation shows that doubling the distance would decrease noise levels by 6 dBA while halving the distance would increase noise levels by 6 dBA.

Table J: Equipment Noise by Construction Phase

Construction Phase	Loudest Equipment	Composite Noise Level at (dBA L_{eq} at 50 ft)
Demolition	Concrete Saw	88
	Dozer	
	Tractor	
Site Preparation	Grader	85
	Dozer	
	Tractor	
Grading	Grader	86
	Dozer	
	Tractor	
Building Construction	Crane	83
	Forklift	
	Generator	
	Tractor	
	Welder	
Paving	Paver	85
	Paving Equipment	
	Roller	
Architectural Coating	Air Compressor	74

Sources: Compiled by LSA Associates, Inc. (2023). *Construction Noise Handbook* (FHWA 2006).
dBA = A-weighted decibel
FHWA = Federal Highway Administration
ft = foot/feet
L_{max} = maximum noise level

Based on the typical construction equipment noise levels shown in Table J, noise levels associated with these pieces of construction equipment operating simultaneously would be approximately 88 dBA L_{eq} at 50 feet during the demolition phase.

The closest sensitive receptors to the project site include the Quarry Lane School located approximately 100 feet north from the center of project site and the residences located approximately 450 feet south from the center of project site. Noise levels were calculated from the center of site as an average distance of where construction activities would occur, resulting in short-term noise levels of approximately 81 dBA L_{eq} at the Quarry Lane School and 68 dBA L_{eq} at the residences.

Construction equipment would operate at various locations throughout project site and construction activities at any one receptor location would occur for a limited duration. While construction-related, short-term noise levels have the potential to be higher than existing ambient noise levels in the project area, the noise impacts would no longer occur once project construction is completed.

As compared to the Eastern Dublin EIR, the proposed project would generate similar noise levels during construction and would implement the previously required mitigation measures,

Mitigation Measures 3.10/4.0 and 3.10/5.0, identified above, to reduce construction related impacts to a less-than-significant level. With implementation of these mitigation measures, which require preparation and implementation of a Construction Noise Management Program that includes limiting major noise-generative activities, compliance with Dublin ordinances, and compliance with local noise standards relating to construction activities, the proposed project would not result in any new or more severe impacts compared to those identified in the Eastern Dublin EIR.

Long-Term Off-Site Traffic Noise Impacts. The Eastern Dublin EIR identified the sources of major noise affecting the EDSP area to be vehicular traffic stemming from I-580. The proposed project is not expected to generate any additional traffic. The Eastern Dublin EIR identified a potentially significant impact for future roadway noise as a result of the build out of the EDSP, which includes the proposed project. Implementation of the mitigation measures identified within the Eastern Dublin EIR would reduce these impacts to a less-than-significant level.

Long-Term Off-Site Operation-Related Noise Impacts. Noise impacts associated with the long-term operation of the project must comply with the noise standards specified in the City's Municipal Code, which sets a 50 dBA L_{eq} standard for residential land uses. Stationary noise generated by the proposed project include heating, ventilation, and air conditioning (HVAC) equipment, and parking lot activities.

Parking Lot Activities. Typical parking lot activities, such as people conversing or doors slamming, would generate noise levels of approximately 60 dBA to 70 dBA L_{max} at 50 feet, based on measurements previously conducted by LSA.

The closest off-site sensitive receptors to the project site include the residence located approximately 350 feet south of the proposed parking lot at the project site. At this distance, parking lot activities would only result in maximum noise levels of 53 dBA L_{max}. Peak noise levels from parking lot activities would be intermittent and when averaged over one hour, these sources would not exceed the City's 50 dBA L_{eq} standard for residential land uses.

Mechanical Equipment. In addition, adjacent off-site land uses would be potentially exposed to stationary-source noise impacts from HVAC equipment. The project is expected to have HVAC units serving the proposed building at the project site. The HVAC equipment could operate 24 hours per day. One HVAC unit would generate a noise level of 72 dBA L_{eq} at 3.3 feet, based on manufacturer testing of typical equipment for such uses. However, based on the distance of 40 feet to the closest off-site sensitive receptor to the north (Quarry Lane School) and accounting for shielding from the rooftop parapet wall, the noise level associated with the operation of the proposed HVAC equipment would approach 46 dBA L_{eq} and would be below the City's 50 dBA L_{eq} exterior noise standard for mechanical equipment. Therefore, the project would not result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or any other applicable standards.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and Mitigation Measures 3.10/4.0 and 3.10/5.0 identified in the Eastern Dublin EIR, there would be no new impacts related to noise beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Generate excessive ground borne vibration or ground borne noise

Less Than Significant with Mitigation Incorporated. Construction of the proposed project could result in the generation of ground borne vibration. This construction vibration impact analysis assesses the potential for building damages using vibration levels in peak particle velocity (PPV). The criteria for environmental impacts resulting from ground borne vibration are based on the maximum levels for a single event. The guidelines within the Federal Transit Administration (FTA) Manual have been used to determine vibration impacts (refer to Table K, below).

Table K: Construction Vibration Damage Criteria

Building Category	PPV (inches/second)
Reinforced concrete, steel, or timber (no plaster)	0.50
Engineered concrete and masonry (no plaster)	0.30
Non-engineered timber and masonry buildings	0.20
Buildings extremely susceptible to vibration damage	0.12

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018), Table 12-3.
FTA = Federal Transit Administration PPV = peak particle velocity

The FTA Manual guidelines show that a vibration level of up to 0.2 inches/second PPV is considered safe for non-engineered timber and masonry buildings and would not result in any construction vibration damage. Therefore, in order to be conservative, the 0.2 inches/second PPV threshold has been used when evaluating vibration impacts at the nearest structures to the site.

Table L shows the PPV values at 25 feet from a construction vibration source. Bulldozers and other heavy-tracked construction equipment (except for vibratory rollers) generate approximately 0.089 inches/second PPV of ground borne vibration when measured at 25 feet.

Table L: Vibration Source Amplitudes for Construction Equipment

Equipment	Reference PPV (inches/second) at 25 feet
Vibratory Roller	0.210
Hoe Ram	0.089
Large Bulldozer	**0.089**
Caisson Drilling	0.089
Loaded Trucks	0.076
Jackhammer	0.035
Small Bulldozer	0.003

Sources: *Transit Noise and Vibration Impact Assessment* (FTA 2018).
PPV = peak particle velocity

Construction vibration, similar to vibration from other sources, would not have any significant effects on outdoor activities (e.g., those outside of residential buildings in the project vicinity). While vibration from construction activity was not assessed in the Eastern Dublin EIR, the proposed project is expected to include the use of heavy equipment similar to a large bulldozer. The distance to the nearest buildings for vibration impact analysis is measured between the nearest off-site buildings and the project disturbance areas because vibration impacts occur normally within the buildings. The formula for vibration transmission is provided below.

$$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$$

The closest structure to the project site includes the Quarry Lane School building located approximately 10 feet north of the project site. At this distance, the closest structure would experience vibration levels of approximately 0.352 inches/second PPV with the use of heavy equipment at the property line. Based on this analysis, vibration levels would exceed the established guidelines considered for damage potential. Vibration levels at all other buildings, which are further from construction activity, would be lower due to distance propagation and would be below the thresholds for damage potential. With implementation of Project Specific Mitigation Measure NOI-1, which requires preparation and implementation of a vibration and construction contingency plan during project construction activities, impacts related to vibration would be less than significant. In addition, short-term construction impacts related to ground-borne vibration or ground-borne noise would be minimal and temporary in nature and would cease upon construction.

Project-Specific MM-NOI-1: **Construction Vibration Damage**. Due to the close proximity to surrounding structures, the City of Dublin (City) Director of Community Development, or designee, shall verify prior to issuance of demolition or grading permits, that the approved plans require that the construction contractor to implement the following noise reduction measures during project construction activities to ensure that damage does not occur at surrounding

structures should heavy equipment be necessary within 15 feet of surrounding structures:

- Identify structures that are located within 15 feet of heavy construction activities and that have the potential to be affected by ground-borne vibration. This task shall be conducted by a qualified structural engineer as approved by the City's Director of Community Development, or designee.

- Develop a vibration monitoring and construction contingency plan for approval by the City Director of Community Development, or designee, to identify structures where monitoring would be conducted; set up a vibration monitoring schedule; define structure-specific vibration limits; and address the need to conduct photo, elevation, and crack surveys to document before and after construction conditions. Construction contingencies would be identified for when vibration levels approached the limits.

- At a minimum, monitor vibration during initial demolition activities. Monitoring results may indicate the need for more or less intensive measurements.

- When vibration levels approach limits, suspend construction and implement contingencies as identified in the approved vibration monitoring and construction contingency plan to either lower vibration levels or secure the affected structures.

As indicated above, vibration levels at the existing Quarry Lane school would exceed the established vibration guidelines considered for damage potential, resulting in a new significant impact than was previously identified in the Eastern Dublin EIR. Therefore, implementation of Project-Specific Mitigation Measure NOI-1 would be required to reduce vibration during project construction. With implementation of Project-Specific Mitigation Measure NOI-1, this impact would be reduced to a less-than-significant level.

(c) Excessive noise level near an airport

No New Impact. The project site is located approximately 3.14-mile northwest of the Livermore Municipal Airport. Aircraft noise is occasionally audible at the project site; however, no portion of the project site lies within the 60 dBA CNEL noise contours of this airport nor does any portion of the project site lie within two miles of any other airfield or heliport. Therefore, the

proposed project would not result in the exposure of people residing or working in the project area to excessive noise levels and there would be no impact.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to excessive noise levels near an airport beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met for these two project impacts. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR for the following project impacts (subsections (a) and (c)): generate noise exceeding standards and excessive noise level near an airport. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts related to noise beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met for these two project impacts. Therefore, no further environmental review is required for these two project impacts.

For the project impact related to generation of excessive ground borne vibration or ground borne noise (subsection (b)), with the implementation of a project-specific mitigation measure (Mitigation Measure NOI-1), impacts to noise would be less than significant.

Source(s)

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Dublin, City of. 2020. Municipal Code. December.

Federal Highway Administration (FHWA). 2006. Highway Construction Noise Handbook. Roadway Construction Noise Model, FHWA-HEP-06-015. DOT-VNTSC-FHWA-06-02. NTIS No. PB2006-109012. August

Federal Transit Administration (FTA). 2018. Office of Planning and Environment. Transit Noise and Vibration Impact Assessment. FTA Report No. 0123. September.

RGD Acoustics. 2016. Environmental Noise Impact Study for 6237 Tassajara Road, Dublin, CA. March 10.

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7

Population and Housing

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
13. POPULATION AND HOUSING. Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				X
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				X

Environmental Setting

According to the City of Dublin General Plan, in 2010, Dublin's total population was estimated at 46,036 and represented 17 percent of the 269,437 residents in the Tri-Valley area. Data from the 2020 United States Census indicates that Dublin's total population has grown to 72,589 and 24,426 housing units.

Previous CEQA Documents

Eastern Dublin EIR

Section 3.2 in the Eastern Dublin EIR provides the demographics, housing, and employment context for the EDSP. The Eastern Dublin EIR provided a program-level analysis of the development potential envisioned for the EDSP Area, including the increased development potential in the City, the Tri-valley area, and the entire San Francisco Bay Area. The Eastern Dublin EIR specifically evaluated new development potential in the EDSP Area of up to 17,970 residential units and approximately 12 million square feet of non-residential space, including approximately 5 million square feet of commercial, 4 million square feet of office, and 2 million square feet of industrial park. No impacts related to population or displacement of existing housing were identified. Growth-inducing impacts associated with implementation of the EDSP were evaluated in Section 5.2 of the Eastern Dublin EIR. Growth-inducing impacts were identified for utilities and community services.

Project Impacts and Mitigation Measures

(a) Population growth

No New Impact. The proposed project would construct a Performing Arts Center for the existing Quarry Lane School, including a performance hall with seating for approximately 350 people. The proposed project would provide a dedicated space for the existing performing arts program but would not include any growth in total student enrollment or an expansion of

existing school operations. No new housing, commercial, or industrial space would be developed as part of the proposed project. The proposed project would not result in the conversion of adjacent land uses or provide access to previously inaccessible areas. It would not provide additional major infrastructure or increase the capacity of the existing water system. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to population growth beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Housing and resident displacement

No New Impact. The project site contains an existing residence and various out-buildings. The Eastern Dublin EIR determined that due to the limited number of current residents, development of the project site would not displace substantial number of existing housing units or people; therefore, no impact was identified. As the Eastern Dublin EIR addressed the removal of the existing residence on the project site, there would be no impact, and no new or substantially more severe impacts would occur. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to housing and resident displacement beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to population and housing beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Association of Bay Area Governments and Metropolitan Transportation Commission. 2018. Plan Bay Area Projections 2040. May.

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

U.S. Census Bureau. 2020. QuickFacts, Dublin city website: https://www.census.gov/quickfacts/fact/table/dublincitycalifornia/PST040221 (accessed July 21, 2022).

U.S. Census Bureau. 2021. Longitudinal Employer-Household Dynamics Origin-Destination Employment Statistics (2002-2019). Washington, DC: U.S. Census Bureau, Longitudinal-Employer Household Dynamics Program, accessed on June 20, 2022, at https://onthemap.ces.census.gov. LEHD Origin-Destination Employment Statistics Version 7.5

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Public Services

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
14. PUBLIC SERVICES. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or need for new or physical altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
a) Fire protection?				X
b) Police protection?				X
c) Schools?				X
d) Parks?				X
e) Other public facilities?				X

Environmental Setting

The proposed project is located within the City of Dublin and is served by the following existing public services.

Fire Protection

Fire suppression, emergency medical and rescue services, and other life safety services are provided to the project area and site by the Alameda County Fire Department (ACFD). There are three fire stations in Dublin, with the closest to the project site being Fire Station No. 18 at 4800 Fallon Road, approximately 4.4 miles northwest. Back up service to the Project area would be provided by Fire Station 17, located at 6200 Madigan Road in Dublin.

Police Protection

The Alameda County Sherriff's Office provides contracted police protection to the project area and project site. The Dublin Police Services headquarters are located at 6361 Clark Avenue, west of the project site.

Schools

The project site is served by the Dublin Unified School District, which operates seven elementary, two middle, one K-8, one comprehensive high school, and one continuation high school, within the City of Dublin. The closest schools to the project site include Fallon Middle School, Jose Maria Amador Elementary School, and Cottonwood Creek K-8 School.

Parks

The City's Public Works Department oversees the maintenance of parks and recreational facilities throughout the City.

Library Services

The Dublin Library is operated by Alameda County Library, with additional funding from the City of Dublin. The Dublin Public Library is located at 200 Civic Plaza, southwest of the project site.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified potentially significant impacts related to increased demand for police and fire protection services, fire response to outlying areas, exposure to wildlands hazards, increased demand for schools and school overcrowding, increased demand for parks, and impacts on existing park and trail facilities. Mitigation measures were identified to reduce potential impacts to a less-than-significant level. The following mitigation measures would be applicable to the proposed project:

> **MM 3.4 /1.0 (Policy 8-4).** Provide additional personnel and facilities and revise "beats" as needed in order to establish and maintain City standards for police protection service in Eastern Dublin.
>
> **MM 3.4/2.0 (Action Program 8D).** Coordinate with the City Police Department regarding the timing of annexation and proposed development, so that the Department can adequately plan for the necessary expansion of services to the area.
>
> **MM 3.4/3.0 (Action Program 8E).** Incorporate into the requirements of project approval Police Department recommendations on project design that affect traffic safety and crime prevention.
>
> **MM 3.4/5.0 Police Review of Proposed Projects.** As a part of the development approval process in Eastern Dublin, the City shall require the Police Department to review and respond to the planned development with respect to:
>
> - Project design layout relating to visibility, security, and safety.
> - Project circulation system and access issues.
> - Project implications for emergency response times.
>
> Prior to final approval of non-residential development and improvement plans, the City Police Department shall review the proposed use, layout, design, and other project features for police surveillance/access, security devices, such as alarms and lighting, visibility, and any other police issues or concerns.

MM 3.4/7.0 (Program 8F). Establish appropriate funding mechanisms (e.g., Mello Roos District, developer financing with reimbursement agreements, etc.) to cover up-front costs of capital improvements (i.e., fire stations and related facilities and equipment).

MM 3.4/9.0 (Program 8H). Incorporate DRFA recommendations on project design relating to access, water pressure, fire safety and prevention into the requirements for development approval. Require that the following DRF A design standards are incorporated where appropriate:

- Use of non-combustible roof materials in all new construction.
- Available capacity of 1,000 GPM at 20 PSI fire flow from project fire hydrants on public water mains. For groupings of one-family and small two-family dwellings not exceeding two stories in height, the fire flow requirements are a minimum of 1,000 GPM. Fire flow requirements for all other buildings will be calculated based on building size, type of construction, and location.
- A buffer zone along the backs of homes, which are contiguous with the wildland area. This buffer zone is to be landscaped with irrigated (wet banding) or equivalent fire-resistive vegetation.
- Automatic fire alarm systems and sprinklers in all nonresidential structures for human use.
- Compliance with DRF A minimum road widths, maximum street slopes, parking recommendations, and secondary access road requirements.
- Require residential structures outside the DRFA's established response time and zone to include fire alarm systems and sprinklers.

MM 3.4/17.0 (Policy 8-3). Ensure that new development in Eastern Dublin, including both residential and non-residential development, fully mitigates the impact of such growth on school facilities.

MM 3.4/29.0 (Policy 4-29). Ensure, as part of the approval process, that each new development provide its fair share of planned open space, parklands, and trail corridors.

MM 3.4/31.0 (Action Program 4N). Calculate and assess in-lieu park fees based on the City's parkland dedication ordinance. Credit toward parkland dedication requirements will only be given for level or gently sloping areas suitable for active recreation use.

Project Impacts and Mitigation Measures

(a) Fire Protection

No New Impact. The proposed project would consist of a new Performing Arts Center, three classrooms, and other support spaces with a total building area of 13,800 square feet and

approximately 126 additional parking spaces. Implementation of the proposed project would provide a new facility to host previously existing events for Quarry Lane School and would not include any growth in total student enrollment or an expansion of existing school operations. Therefore, development would not increase demand for public services and would not exceed the physical and financial capabilities of the Alameda County Fire Department (ACFD). Further, the proposed project is required to adhere to the CBC, the California Fire Code and City of Dublin codes, ordinance and regulations to minimize fire hazards, including fire prevention and suppression measures; fire hydrants and sprinkler systems; emergency access; and other similar requirements. ACFD would continue to provide services to the project site and would not require additional firefighters to serve the proposed project. The demand for fire protection services resulting from the proposed project would not require the construction of new or alteration of existing fire protection facilities to maintain an adequate level of fire protection service. No physical impacts associated with the provision of fire protection services would occur.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to fire protection beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Police Protection

No New Impact. As stated above, the proposed project would consist of a new Performing Arts Center. Development would not increase demand for public services and would not exceed the physical and financial capabilities of the Alameda County Sherriff's Office, resulting in the need for new or expanded police. Demand for police protection services resulting from the proposed project would have no impact compared to the level of service identified in the Eastern Dublin EIR and would not require the construction of new or alteration of existing police protection facilities to maintain an adequate level of police protection service. No physical impacts associated with the provision of police protection services would occur.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to police protection beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(c) Schools

No New Impact. As stated above, the proposed project involves the development of a new Performing Arts Center as an addition to the existing Quarry Lane School. Implementation of the proposed project would provide a new facility to host previously existing events for Quarry Lane School and would not include any growth in total student enrollment or an expansion of

existing school operations. No new housing, commercial, or industrial space would be developed as part of the proposed project; therefore, the proposed project would not generate increased demand for school facilities and services. No physical impacts associated with the provision of school services would occur.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to schools beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(d) Parks

No New Impact. As stated above, the proposed project would consist of a new Performing Arts Center to serve the existing Quarry Lane School and would not include any growth in total student enrollment or an expansion of existing school operations. No new housing, commercial, or industrial space would be developed as part of the proposed project; therefore, the proposed project would not generate increased demand for park facilities and recreational services. The proposed project would have no on existing parks and would not require the construction of new or alteration of existing park or recreational facilities.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to parks beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(e) Other public facilities

No New Impact. As stated above, the proposed project would consist of a new Performing Arts Center. Implementation of the proposed project would provide a new facility to host existing events for Quarry Lane School and would not include any growth in total student enrollment or an expansion of existing public facilities; demand for public facilities and recreational services resulting from the proposed project would have no impact compared to the level of service identified in the prior environmental review and would not require the construction of new or alteration of existing public or recreational facilities.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts to other public facilities beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to public services beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Recreation

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
15.	**RECREATION. Would the project:**				
a)	Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				X
b)	Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				X

Environmental Setting

The City of Dublin has a variety of recreational facilities including neighborhood parks, community parks, community facilities, a senior center, open space areas, and a series of trail networks. According to the City of Dublin Parks and Recreation Master Plan, the City of Dublin currently has 18 parks, five deeded park sites, and six school parks and City-owned open space areas that account for nearly 233 acres of dedicated open space and developed park land. In addition, the City has over 59 acres of undeveloped parkland that has either been offered for dedication by landowners or acquired by the City. In addition, the East Bay Regional Park District (EBRPD) operates the Dublin Hills Regional Park, a large open space park with regional trail connections. The Iron Horse Trail runs along the Union Pacific/Southern Pacific Railroad right-of-way, connecting Dublin, the Dublin/Pleasanton BART station, and the City of Pleasanton.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified potentially significant impacts related to increased demand for park facilities, fiscal impacts associated with the provision of new park and recreation facilities and impacts on the regional trail system and open space connections. Mitigation measures were identified to reduce potential impacts to a less than significant level. The following mitigation measures would be applicable to the proposed project:

> **MM 3.4/29.0 (Policy 4-29).** Ensure, as part of the approval process, that each new development provide its fair share of planned open space, parklands, and trail corridors.
>
> **MM 3.4/31.0 (Action Program 4N).** Calculate and assess in-lieu park fees based on the City's parkland dedication ordinance. Credit toward parkland dedication requirements will only be given for level or gently sloping areas suitable for active recreation use.

Project Impacts and Mitigation Measures

(a, b) Increase the use of existing recreation facilities causing deterioration or require new recreation facilities

The City's park and recreational facilities are comprised of neighborhood facilities, community facilities, community parks and community center. According to the City of Dublin Parks and Recreation Master Plan, the City of Dublin currently has 18 parks, five deeded park sites, and six school parks and City-owned open space areas that account for nearly 233 acres of dedicated open space and developed park land. In addition, the City has over 59 acres of undeveloped parkland that has either been offered for dedication by landowners or acquired by the City. The number, location and size of parks is consistent with the approved Stage 1 Development Plan as well as the City of Dublin Parks and Recreation Master Plan. The 11.5 acres of parkland within the project site meets the City of Dublin 2015 Parks and Recreation Master Plan ratio of 5.0 acres of parkland per 1,000 residents. Since the project includes sufficient park land it would not increase the use of existing neighborhood and/or regional parks such that a substantial physical deterioration of the facility would occur or be accelerated, nor would it require the construction/expansion of a recreational facility elsewhere which would have an adverse physical effect on the environment.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to the City of Dublin Parks and Recreation Master Plan and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to recreation beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to the City of Dublin Parks and Recreation Master Plan and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to recreation beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Dublin, City of. 1985. City of Dublin General Plan. February 11. (Amended November 21, 2017).

Dublin, City of. 2015. City of Dublin Parks and Recreation Master Plan.

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Transportation

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
16.	**TRANSPORTATION/TRAFFIC. Would the project:**				
a)	Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?				X
b)	Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?				X
c)	Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				X
d)	Result in inadequate emergency access?				X

Environmental Setting

The following section describes the existing conditions of the study area, including roadway, transit, bicycle, and pedestrian networks.

Roadway Network

The roadway network surrounding the project site is described in the following section.

Freeways

Interstate 580 (I-580) is a generally east-west freeway that runs south of the project site. I-580 connects the San Francisco Bay Area to the west and the City of Livermore to the east. The posted speed limit in the vicinity of the project is 65 miles per hour (mph). Express lanes are present in both directions and are in effect Monday through Friday from 5:00 a.m. to 8:00 p.m.

Arterials/Collectors/Local Roadways

Tassajara Road is a major north-south roadway in Dublin that connects to Fallon Road/Camino Tassajara to the north and the City of San Ramon and Contra Costa County to the south. Tassajara Road is classified as an arterial roadway within the City of Dublin; south of I-580 within the City of Pleasanton, the roadway becomes Santa Rita Road. The roadway varies from two lanes to five lanes and is divided along its southern portion, between Stoneridge Drive and Dublin Ranch Drive. On-street parking is not permitted along this roadway. The posted speed limit is 35 mph within the study area. Class II bicycle lanes are present, except for on the overpass over I-580.

Dublin Boulevard is a six-lane divided east-west roadway that extends west of the project site. Dublin Boulevard is classified in the City's General Plan[33] as an arterial between its western limits and Tassajara Road and classified as a collector between Tassajara Road and Fallon Road (as well as the proposed extension to North Canyons Parkway). On-street parking is not permitted along this roadway and the posted speed limit is 45 mph in the vicinity of the project. Dublin Boulevard is proposed to be extended connecting from its current terminus at Fallon Road to North Canyons Parkway in Livermore.

Fallon Road/El Charro Road is a north-south divided roadway that widens from four lanes south of Central Parkway to six lanes to the north; south of I-580, Fallon Road becomes El Charro Road within the City of Pleasanton. Fallon Road is classified as an arterial roadway near the project site. The roadway primarily serves residential land uses within the City of Dublin, with some retail located near I-580. On-street parking is not permitted along this roadway. The posted speed limit is 45 mph in the vicinity of the project.

Transit Facilities

The project area is served by Tri-Valley Wheels, which provides fixed-route bus service operated by the Livermore Amador Valley Transit Authority (LAVTA) to Dublin, Livermore, Pleasanton, and neighboring communities. Wheels also offers a Dial-A-Ride Paratransit service to eligible patrons in Dublin, available wherever fixed-route service is operating. Three routes directly serve the area surrounding the project – Route 2, Route 30R (Rapid), and Route 501 (School Route).

The area is also served by Bay Area Rapid Transit (BART), with the nearest station being Dublin/Pleasanton which is located approximately four miles west of the site. Table M provides details about the bus service that serves the project area.

[33] The City of Dublin General Plan. *Chapter 5: Land Use and Circulation – Circulation and Scenic Highways Element*. Amended 2022. https://www.dublin.ca.gov/DocumentCenter/View/7799/Chapter-5-May-2020?bidId=

Table M. Existing Transit Facilities

Route	Route Type	Major Destinations	Day	Times	Frequency
2	Fixed Route	E. Dublin/Pleasanton BART, Dublin Ranch, Emerald Glen Park, Fallon Middle School	Weekdays	One AM and one PM trip to serve Fallon Middle School (effective August 2021)	2 per day
30R	Rapid Route	Lawrence Livermore National Laboratory, East Ave., Livermore Transit Center, Portola Park and Ride, Las Positas College, N. Canyons, Dublin Blvd, E. Dublin BART, Dublin Civic Center, W. Dublin BART	Weekdays	5:00 AM to 11:00 PM	Every 30 minutes
			Weekends	5:00 AM to 11:00 PM	Hourly
501	School Route	Positano, Fallon Road, Silvera Ranch, Tassajara Road, Central Pwky, Dublin HS	Weekdays	One AM and one PM trip for each route	2 per day

Source: wheelsbus.com

Bicycle and Pedestrian Facilities

Sidewalks and Class II bike lanes are provided along Tassajara Road adjacent to the project site.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified potentially significant impacts related to increased traffic associated with implementation of the EDSP, including impacts to freeway, intersection, and roadway operations, transit service extensions, and potential safety hazards for pedestrians and bicycles at street crossings. Mitigation measures were identified to reduce most transportation impacts to a less than significant level. These mitigation measures require construction of new roadways, widening of existing roadways, and improvements to local freeway facilities to accommodate increased vehicle traffic associated with proposed development in Eastern Dublin.

Several traffic impacts were determined to be significant and unavoidable, even with implementation of mitigation. These impacts include impacts to I-580 between Tassajara Road and Airway Boulevard (Impact 3.3/B), cumulative freeway impacts (Impact 3.3E), impacts to the Santa Rita Road/I-580 eastbound ramps (Impact 3.3/I) and cumulative impacts to Tassajara Road (Impact 3.3/N). Applicable mitigation measures from the Eastern Dublin EIR include:

> **MM 3.3/2.0 (Policy 5-21).** Require all non-residential projects with 50 or more employees within the Eastern Dublin General Plan Amendment and Specific Plan area to

participate in a Transportation Systems Management (TSM) program. A TSM program would include strategies to reduce the use of single-occupant vehicles such as on-site distribution of transit information and passes, provision of shuttle services to and from BART stations, participation in regional ridesharing services, preferential parking for vanpools and carpools, and flexible or staggered work hours.

MM 3.3/2.1 The Project shall contribute a proportionate amount to regional transportation mitigation programs as determined by the current study by the Tri-Valley Transportation Council. Regional mitigation measures may include implementation of enhanced rail and feeder bus transit services, construction or upgrading of alternative road corridors to relieve demand on the I-580 and l-680 freeways.

MM 3.3/3.0 The Project shall contribute to the construction of auxiliary lanes on l-580 between Tassajara Road and Airway Boulevard. The auxiliary lanes would provide LOSE operations between Tassajara Road and Fallon Road, and LOS D operations between Fallon Road and Airway Boulevard.

MM 3.3/4.0 The Project should contribute a proportionate share to planned improvements at the l-580 /I-680 interchange and the associated mitigation on adjacent local streets. The improvements would provide additional capacity on I-680 north of I-580 and would provide LOS D operations.

MM 3.3/5.0 Local jurisdictions shall require that future developments participate in regional transportation mitigation programs as determined by the current study by the Tri-Valley Transportation Council.

MM 3.3/6.0 The City of Dublin shall coordinate construction of additional lanes on all approaches at the intersection. The required lanes on the northbound approach on Dougherty Road include two left-turn lanes, three through lanes (one more than existing) and one right-turn lane (one more than existing). The required lanes on the southbound approach on Dougherty Road include two left-turn lanes (one more than existing), three through lanes (one more than existing) and one right-turn lane. The required lanes on the eastbound approach on Dublin Boulevard include one left-turn lane, three through-lanes (one more than existing) and one right-turn lane. The required lanes on the westbound approach on Dublin Boulevard include two left-turn lanes, three through-lanes and one right-turn lane. The Project shall contribute a proportionate share of the improvement costs. The improvements would provide LOS D operations.

MM 3.3/7.0 The City of Dublin shall coordinate with the City of Pleasanton and Ca/trans to restripe the I-580 eastbound off-ramp to provide two left-turn lanes and one right-turn lanes (existing lanes are one left-turn lane and two right-turn lanes). The Project shall contribute a proportionate share of the improvement costs. The improvements would provide LOS C operations.

MM 3.3/8.0 The City of Dublin shall coordinate with Ca/trans to widen the l-580 westbound off-ramp to provide two left-turn lanes and two right-turn lanes, and to modify the northbound approach to provide three through lanes. The Project shall contribute a proportionate share of the improvement costs. The improvements would provide LOS B operations.

MM 3.3/9.0 The City of Dublin shall coordinate with the City of Pleasanton and Caltrans to widen the l-580 eastbound off-ramp to provide two left-turn lanes and two right-turn lanes. These improvements would provide LOS E operations. Further improvement to the level of service could be provided by prohibiting left turns from southbound Santa Rita Road to eastbound Pimlico Drive during peak periods. This left-turn prohibition would require out-of-direction travel for drivers wishing to access Pimlico Drive but would provide level of service D operations. The Project shall be required to contribute a proportionate share of the improvement costs.

MM 3.3/ 10.0 The City of Dublin shall coordinate with the City of Livermore to modify the intersection to provide three through-lanes and a right-turn lane eastbound, and two left-turn lanes and two through-lanes westbound. The Project shall contribute proportionate share of the improvement costs. The improvements would provide LOS operations.

MM 3.3/ 11.0 The City of Dublin shall coordinate with the City of Livermore and Caltrans to widen the Airway Boulevard overcrossing of l-580 by 12 feet to provide adequate storage for northbound left-turns and widen of the off-ramp to provide one left and one left-right lane. The Project shall contribute a proportionate amount toward the cost of these improvements. The improvements would provide LOS D operations.

MM 3.3/ 12.0 The City of Dublin shall coordinate with Ca/trans to ensure that modifications to the l-580 interchange at Fallon Road/El Charro Road include provisions for unimpeded truck movements to and from El Charro Road. The Project shall contribute a proportionate share of improvement costs.

MM 3.3/ 15.2 The Project shall contribute a proportionate amount to the capital and operating costs of transit service extensions.

MM 3.3/ 16.1 Locate pedestrian and bicycle paths so that their crossings of major arterial streets coincide with signalized street intersections, providing a signalized pedestrian and bicycle crossing of the major street.

Project Impacts and Mitigation Measures

(a) Conflict with applicable transportation plans standards, including bicycle and pedestrian facilities

No New Impact. As outlined in the Project Description, the proposed project would provide space to host the school's existing performance art shows and events, as well as an improved

space for high school commencement ceremonies. Currently, the school hosts approximately eight events annually, including the high school graduation ceremony. These events occur in the evenings and on weekends. Implementation of the proposed project would not change the frequency or capacity of such events but would provide a new, dedicated facility in which to host these events. As such, the proposed project would not generate additional vehicle trips to/from the school beyond what currently occurs under existing conditions.

The proposed project would not alter or interfere with transit, bicycle or pedestrian facilities. The proposed project would maintain existing sidewalks along Tassajara Road. Paved pedestrian walkways would be provided to connect the parking area with the proposed performing arts center, as well as, to provide pedestrian connections to proposed sidewalks along Tassajara Road. Therefore, impacts to bicyclists, pedestrians, and transit service providers resulting from implementation of the proposed project would remain less than significant and the proposed project would not result in new significant or substantially more severe impacts related to alternative forms of transportation.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, there would be no new impacts related to Conflict with applicable transportation plans standards, including bicycle and pedestrian facilities beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Conflict with CEQA Section 15064.3 (b)

No New Impact. Since certification of the Eastern Dublin EIR, the issue of vehicle miles traveled (VMT) has become a more prominent issue of concern as evidenced by passage of SB 743 in 2013. Previously, CEQA analysis was conducted using a level of service (LOS) measurement that evaluated traffic delay. As specified under SB 743 and implemented under Section 15064.3 of the State CEQA Guidelines (effective December 28, 2018), VMT is the required metric to be used for identifying CEQA impacts and mitigation. In December 2018, the Office of Planning and Research (OPR) published a Technical Advisory on Evaluating Transportation Impacts, including guidance for VMT analysis. The Office of Administrative Law approved the updated CEQA Guidelines and lead agencies were given until July 1, 2020, to implement the updated guidelines for VMT analysis.

The topic of the project's contribution to vehicle miles traveled (VMT) was not analyzed in the Eastern Dublin EIR. Because the Eastern Dublin EIR has been certified, the determination of whether VMT needs to be analyzed for this project is governed by the law on supplemental or subsequent EIRs (Public Resources Code section 21166 and CEQA Guidelines, Sections 15162 and 15163). VMT is not required to be analyzed unless it constitutes new information of substantial importance that was not known and could not have been known at the time the previous environmental documents were certified as complete (Public Resources Code Section 21166 and CEQA Guidelines Section 15162 and 15163). VMT was known at the time of the

certification of the Eastern Dublin EIR and could have been analyzed. A change in regulations for impact analysis under CEQA is not a trigger for further environmental review under supplemental review standards. Therefore, no supplemental environmental analysis of the project's impacts on this issue is required under CEQA.

(c) Substantially increase hazards due to a design feature

No New Impact. New vehicular access is proposed from Tassajara Road via a right-in only driveway at the southern end of the project site with a connection to the existing school parking lot to the north, which has a signalized entry and exit on Tassajara Road. The proposed additional parking area, consisting of 126 spaces, would be located east and south of the proposed performing arts center. The design, construction, and maintenance of project site access locations would be in compliance with the City's Municipal Code. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts related to design hazards beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(d) Result in inadequate emergency access

No New Impact. The proposed project would not result in inadequate emergency access. Emergency vehicle access to the project site would continue to be provided via Tassajara Road. The design, construction, and maintenance of project site access locations would be in compliance with the City's Municipal Code and would be required to meet all emergency access standards. In addition, through Site Plan Review, emergency services would review proposed plans to ensure that emergency vehicle access and circulation is adequate. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts to emergency access beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to transportation beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Tribal Cultural Resources

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
17.	**TRIBAL CULTURAL RESOURCES. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:**				
a)	Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				X
b)	A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.				X

Environmental Setting

Assembly Bill 52, which became law on January 1, 2015, provides for consultation with California Native American tribes during the CEQA environmental review process, and equates significant impacts to "tribal cultural resources" with significant environmental impacts. Public Resources Code (PRC) Section 21074 states that "tribal cultural resources" are:

> Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe and are one of the following:

- Included or determined to be eligible for inclusion in the California Register of Historical Resources.
- Included in a local register of historical resources as defined in subdivision (k) of PRC Section 5020.1.
- A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC Section 5024.1. In applying the criteria set forth in subdivision (c) of PRC Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

A “historical resource” (PRC Section 21084.1), a “unique archaeological resource” (PRC Section 21083.2(g)), or a “nonunique archaeological resource” (PRC Section 21083.2 (h)) may also be a tribal cultural resource if it is included or determined to be eligible for inclusion in the California Register.

The consultation provisions of the law require that a public agency consult with local Native American tribes that have requested placement on that agency’s notification list for CEQA projects. Within 14 days of determining that a project application is complete, or a decision by a public agency to undertake a project, the lead agency must notify tribes of the opportunity to consult on the project, should a tribe have previously requested to be on the agency’s notification list. California Native American tribes must be recognized by the California Native American Heritage Commission as traditionally and culturally affiliated with the project site and must have previously requested that the lead agency notify them of projects. Tribes have 30 days following notification of a project to request consultation with the lead agency.

The purpose of consultation is to inform the lead agency in its identification and determination of the significance of tribal cultural resources. If a project is determined to result in a significant impact on an identified tribal cultural resource, the consultation process must occur and conclude prior to adoption of a Negative Declaration or Mitigated Negative Declaration, or certification of an EIR (PRC Sections 21080.3.1, 21080.3.2, 21082.3).

In March 2022, the City provided formal notification to the California Native American tribe that has requested notification under Assembly Bill 52. No response was received and no formal tribal consultation was requested.

Previous CEQA Documents

The topic of the project’s potential impacts to tribal cultural resources was not specifically analyzed in the Eastern Dublin EIR. Since certification of the Eastern Dublin EIR, the topic of Tribal Cultural Resources has been added as a new category in the CEQA checklist. However, the Eastern Dublin EIR analyzed prehistoric and historic resources and included mitigation measures related to historical and archaeological resources. These measures are listed in the cultural resources section of this Initial Study Checklist.

Because the Eastern Dublin EIR has been certified, the determination of whether tribal cultural resources need to be analyzed for this proposed project is governed by the law on supplemental or subsequent EIRs (Public Resources Code section 21166 and CEQA Guidelines, Sections 15162 and 15163). Tribal cultural resources are not required to be analyzed under those standards unless it constitutes "new information of substantial importance, which was not known and could not have been known at the time the previous EIR was certified as complete” (CEQA Guidelines Sec. 15162 (a) (3)).

The topic of the project’s potential impacts to tribal cultural resources was not specifically analyzed in the EDSP EIRs; however, the issue of tribal cultural resources was widely known prior to the certification of these EIRs. Section 106 of the National Preservation Act, established

in 1966, requires tribal consultation in all steps of the process when a federal agency project or effort may affect historic properties that are either located on tribal lands, or when any Native American tribe or Native Hawaiian organization attaches religious or cultural significance to the historic property, regardless of the property's location. Further, tribal cultural resources have been considered in the evaluation of impact to historical and archaeological resources since CEQA was enacted.

Project Impacts and Mitigation Measures

(a) Listed or eligible for listing in the California Register of Historical Resources

No New Impact. As described in Section 5, Cultural Resources, the project site does contain a historic-period residence, which is over 50 years old. The residence and associated out-buildings were evaluated for significance as a historical resource. However, these resources were determined to be not eligible, either individually or as a group, for inclusion on the California Register because it is not associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage; associated with the life of persons important in our past; is not notable for its architectural or design qualities or as an important example of its architectural style; and is unlikely to yield information important to the history of the City of Dublin, the San Ramon Valley, Alameda County, or California. Although these existing buildings will be demolished as part of the proposed project, these buildings do not qualify as historical resources for the purposes of CEQA because they do not meet the eligibility criteria for inclusion on the California Register. As such, there are no known significant archaeological or tribal cultural resources within the project site and the proposed project would not cause a substantial adverse change in the significance of a tribal cultural resource defined as a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is listed or eligible for listing in the CRHR or in a local register of historical resources as defined in Public Resources Code (PRC) Section 5020.1(k). The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts to tribal cultural resources beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1

No New Impact. No archaeological resources were identified on the project site as part of the cultural resources study. Therefore, the City, in its role as lead agency, has determined that the project site is not a resource significant to a California Native American tribe. Development proposed as part of the current project would be consistent with the development previously analyzed in the Eastern Dublin EIR. As described in Section 5, Cultural Resources, implementation of Mitigation Measure 3.9/5.0 as identified in the Eastern Dublin EIR would

reduce any potential impacts to archaeological and/or Native American resources to a less-than-significant level. The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts to tribal cultural resources beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

No places, objects, or the like with cultural value to a California Native American Tribe have been previously identified in the project area and such artifacts are unlikely to be present.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts to tribal cultural resources beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Utilities and Service Systems

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
18.	**UTILITIES AND SERVICE SYSTEMS. Would the project:**				
a)	Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities the construction or relocation of which could cause significant environmental effects?				X
b)	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				X
c)	Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project projected demand in addition to the provider's existing commitments?				X
d)	Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				X
e)	Comply with federal, state, and local statutes and regulations related to solid waste?				X

Environmental Setting

A variety of local and regional providers in this area operate and maintain utility and service system facilities associated with electricity, water, stormwater, wastewater, solid waste, communications, and natural gas. As outlined in the Project Description, the project site is currently served by the Dublin San Ramon Services District (DSRSD) and PG&E.

Water

The Dublin San Ramon Services District (DSRSD) provides water service at the project site. DSRSD is responsible for providing both potable and recycled water to the City of Dublin, and the Dougherty Valley area of the City of San Ramon in Contra Costa County. DSRSD's water service area also includes Camp Parks, the Federal Correctional Institution (FCI), and Alameda County's Santa Rita Jail. Zone 7 supplies treated potable water to DSRSD. Treated potable water enters DSRSD's distribution system from five metered turnouts from the Zone 7 transmission system.

To reduce the demand for potable water, DSRSD promotes water recycling and is a member of the WaterReuse Association. In 1995, DSRSD and EBMUD, through a joint powers agreement, formed the DSRSD-EBMUD Recycled Water Authority (DERWA). DERWA serves as a wholesaler to deliver recycled water to DSRSD and EBMUD, who in turn deliver the recycled water to their respective service areas. DERWA's San Ramon Valley Recycled Water Project (SRVRWP) provides a backbone distribution system that delivers recycled water to both DSRSD and EBMUD distribution systems. DSRSD's recycled water treatment facilities deliver recycled water to the SRVRWP. Recycled water is produced at DSRSD's wastewater treatment plant at the Recycled Water Treatment Facility (RWTF). The RWTF produces recycled water that meets the California Title 22 requirements for unrestricted reuse.

Wastewater

Wastewater collection and treatment services are also provided by DSRSD for the City of Dublin, City of Pleasanton, Camp Parks, FCI, Santa Rita Jail, and the southern portion of San Ramon. DSRSD owns and operates a wastewater treatment plant in Pleasanton that has a capacity of 17 million gallons per day (mgd). The existing wastewater service area encompasses approximately 13,340 acres, or 20.85 square miles. Within the wastewater service area there are currently 207 miles of gravity mains, one permanent lift station, and one temporary lift station. The permanent lift station has 26 feet of force main.

Stormwater

Drainage and flood control in the Eastern Dublin area is the responsibility of the City of Dublin and Zone 7. Zone 7 is responsible for master planning, overseeing construction coordination, and maintaining major storm drain channels and culverts in Eastern Dublin. The City has jurisdiction and maintenance responsibility for local storm drains that discharge to the Zone 7 flood control system. Runoff from the project area drains mostly via overland flow, which eventually collects just north and east of the Fallon Road/I-580 Interchange where it then flows, via a double box culvert west under Fallon Road.

Electricity

The East Bay Community Energy provides electricity to Dublin over PG&E's distribution system. PG&E provides natural gas service to the San Francisco Bay region and serves the project site.

Solid Waste

The City of Dublin has a Collection Services Agreement with a private solid waste collection company for residential and commercial garbage collection. The City also has comprehensive recycling and organics collection programs. All single-family residences are provided with three stream collection containers (landfill, recycle, organics). As of January 1, 2022, all service accounts (with a few exceptions) are required to subscribe to three-stream collection services due to State legislation (SB 1383).

Solid waste generated within the City is deposited at the Altamont Landfill which has a total estimated permitted capacity of 62 million cubic yards. The Altamont Landfill is approximately 26 percent full and is estimated to reach capacity in January 2029.

Previous CEQA Documents

Eastern Dublin EIR

The Eastern Dublin EIR identified potential significant impacts related to lack of a wastewater collection system, extension of a sewer trunk line with capacity to serve new developments, limited treatment plant capacity and wastewater disposal capacity, increased energy use for wastewater treatment and wastewater disposal, potential failure of the export disposal system, pump station noise and odors, storage basin odors and potential failure, recycled water system operations, recycled water storage failure, loss of recycled water system pressure, and secondary impacts from recycled water system operation. Mitigation measures were identified to reduce most wastewater impacts to a less than significant level. Impacts associated with increased energy use for wastewater treatment and disposal were determined to be significant and unavoidable, even with implementation of mitigation. The following mitigation measures would apply to the proposed project:

> **MM 3.5/1.0 (Program 9P). Connection to Public Sewers.** Require that all development in the Specific Plan area be connected to public sewers. Exceptions to this requirement, in particular septic tank systems, will only be allowed upon receipt of written approval from the Alameda County Environmental Health Department and DSRSD.
>
> **MM 3.5/4.0 (Program 9M). DSRSD Service.** Require a "will-serve" letter from DSRSD prior to permit approval for grading.
>
> **MM 3.5/5.0 (Program 9N). DSRSD Standards.** Require that design and construction of all wastewater systems be in accordance with DSRSD standards.

The Eastern Dublin EIR also identified potential significant impacts related to overdraft of local groundwater resources, increased demand for water, additional treatment plant capacity, lack of a water distribution system, inducement of substantial growth, increase in energy usage through operation of the water distribution system, potential water storage reservoir failure, potential loss of system pressure, and potential pump station noise. Mitigation measures were identified to reduce most water impacts to a less than significant level. Impacts associated with increased energy use for water distribution and population growth were determined to be significant and unavoidable, even with implementation of mitigation. The following mitigation measures would apply to the proposed project:

> **MM 3.5/25.0** Encourage all developments in the Specific Plan and Project to connect to the DSRSD water system.
>
> **MM3.5/26.0 (Program 9A). Water Conservation.** Require the following as conditions of project approval in eastern Dublin:
>
> - Use of water-conserving devices such as low-flow shower heads, faucets, and toilets.

- Support implementation of the DSRSD Water Use Reduction Plan where appropriate.
- Water efficient irrigation systems within public rights-of-way, median islands, public parks, recreation areas and golf course areas (see Program 9B on Water Recycling).
- Drought resistant plant palettes within public rights-of-way, median islands, public parks, recreation areas and golf course areas.

MM3.5/27.0 (Program 9B). Water Recycling. Require the following as conditions of project approval in eastern Dublin:

- Implementation of DSRSD and Zone 7 findings and recommendations on uses of recycled water to augment existing water supplies.
- Work with DSRSD to explore use of recycled water in eastern Dublin through potential construction of a recycled water distribution system. Construction of such a recycled water system will require approval of the use of recycled water for landscape irrigation by DSRSD, Zone 7, and the San Francisco Bay Regional Water Quality Control Board.

MM 3.5/37.0 (Program 9E). DSRSD Standards. Require that design and construction of all water system facility improvements be in accordance with DSRSD standards.

MM 3.5/38.0 (Program 9G). DSRSD Service. Require a "will-serve" letter from DSRSD prior to grading permit approval.

Potentially significant impacts related to storm drainage identified in the Eastern Dublin EIR are described in Section 9.0, Hydrology and Water Quality.

Project Impacts and Mitigation Measures

(a) Require relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas or telecommunications facilities

No New Impact. The proposed project would not require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunication facilities beyond that which was already anticipated in the Eastern Dublin EIR. The proposed project is not anticipated to generate greater demand for utility services than the residential development proposed as part of the EDSP and evaluated in the Eastern Dublin EIR as the proposed performing arts center would provide a dedicated facility to accommodate existing events that currently occur at the Quarry Lane School.

As described below, DSRSD provides potable water to the project site through an existing water main in Tassajara Road. DSRSD's 2020 Urban Water Management Plan (UWMP) describes the existing and planned sources of water available in the water system service area through the

year 2040. The UWMP has determined that water supplies would be adequate during normal year, single-dry year, and multiple-dry year scenarios through 2040 based on the development of the land uses within the DSRSD's service area, including the City of Dublin. The proposed project would not substantially increase demand for water and would therefore not exceed the capacity of existing water treatment facilities. The proposed project would not require the construction of new water treatment facilities, or the expansion of existing facilities, other than those already planned as part of the UWMP. The proposed project would include the installation of new water lines on the site that would connect to the existing water main within Tassajara Road. Proposed water lines would include 8-inch water lines for fire suppression and 4-inch water lines for domestic water use. The proposed project would connect directly to existing mains, which have sufficient capacity to accommodate the proposed project.

DSRSD maintains existing sanitary sewer lines within the vicinity of the project site, including the existing sanitary sewer main located within Tassajara Road. New 4-inch, sanitary sewer lines would be installed within the project site and would tie into the existing sanitary sewer main within Tassajara Road. The new sanitary sewer lines installed within the project site would be constructed in conformance with City and DSRSD standards, and their construction would not cause significant environmental effects.

The project site is largely undeveloped and contains minimal impervious surfaces. Upon construction of the proposed project, approximately 70 percent of the project site would be covered with impervious surfaces, and the remaining 30 percent would be covered by pervious surfaces, consisting of landscaped and stormwater retention areas. The proposed project would include approximately 3,460 square feet of bioretention space on the project site that would be used for stormwater quality control. The proposed project would include approximately 18 bioretention basins and storm drains throughout the project site, which would connect to existing storm drain pipeline in Tassajara Road. Proposed storm drainage facilities would conform with the Alameda County C.3 Stormwater Technical guidelines and requirements.

Electricity and gas service is provided to the project site by the Pacific Gas & Electric Company (PG&E). As described in the Project Description, lighting is proposed to promote security and safety for park users and to accommodate nighttime use of building facilities and parking security. Proposed lighting would tie into existing electric utilities within Tassajara Road and is not anticipated to generate substantial additional demand such that new facilities or expansion of facilities would be required.

The proposed project would include connections to existing utilities that run adjacent to the project site within Tassajara Road. These connections would not be considered "major" lines because these improvements would be made as additions to the existing infrastructure. Further, these connections would be conducted in accordance with each utility purveyor's specification and accordance with City guidelines.

On-site utility infrastructure necessary to serve the proposed project—including water, sanitary sewer, drainage, water quality treatment, and dry utilities (e.g., electricity, natural gas, cable)—would be installed within the project site and would connect to the existing utility lines within

Tassajara Road. No new or expanded utility lines or facilities are required off-site, except as needed for the utility connections.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts related to expanded water, wastewater, stormwater drainage, electric power, natural gas, or telecommunication facilities beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Sufficient water supply

No New Impact. Since the adoption of the Eastern Dublin EIR, the DSRSD has updated the UWMP (in 2020), which accounts for build out of the Eastern Dublin Area, including the project site. The 2020 UWMP determined that there would be adequate water supplies to meet demand through 2040 with existing entitlements. Additionally, consistent with the DSRSD District Code, the project applicant would be required obtain a certificate of capacity rights from DSRSD, prior to issuance of a building permit. The certificate of capacity rights, which is part of the entitlement review process, ensures the DSRSD can adequately serve the proposed project.

Currently, DSRSD's primary water supply source is purchased potable water from Zone 7, augmented by recycled water produced at DSRSD's RWTF. DSRSD also has a groundwater pumping quota (GPQ) from the local groundwater basin, pumped on its behalf by Zone 7, the local groundwater basin manager. Imported water from the State Water Project, which is owned and operated by the Department of Water Resources, is by far Zone 7's largest water source, providing approximately 90 percent of the treated water supplied to its customers on an annual average basis. The proposed project would be served by these systems. DSRSD anticipates the same water supply mix to be available through 2040. With the projects and programs implemented by DSRSD and Zone 7, water supplies are projected to meet demands.

As described above, the type and intensity of development associated with the proposed project (e.g., performing arts center to serve the existing school) would be less than assumed for the project site in the City's General Plan (e.g., medium density residential), including the EDSP and accounted for in the UWMP. As stated in the UWMP, DSRSD can meet its water demand under multiple dry years with diversified supply and conservation measures.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts related to water supply beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA

standards for supplemental review are met. Therefore, no further environmental review is required.

(c) Sufficient wastewater capacity

No New Impact. Wastewater collection and treatment services are provided by The Dublin San Ramon Services District (DSRSD) serving 196,000 customers. DSRSD is the purveyor of wastewater collection and treatment services within the City of Dublin. The wastewater collection system includes over 170 miles of sanitary sewers. Disposal of treated wastewater is under the jurisdiction of the Livermore-Amador Valley Water Management Authority (LAVWMA). Wastewater collected from the DSRSD service area travels by gravity to the DSRSD wastewater treatment plant which is located in the City of Pleasanton. The plant has a rated dry-weather capacity of 17.0 mgd. Disposal of treated effluent from the treatment plant in Pleasanton is the responsibility of LAVWMA who exports secondary treated wastewater to the East Bay Dischargers Authority interceptor pipeline for ultimate discharge to the San Francisco Bay via a deepwater outfall. LAVWMA facilities are designed to export a maximum flow of 41.2 mgd during wet weather events.

Since the adoption of the Eastern Dublin EIR, the DSRSD has updated the Wastewater Collection System Master Plan (in 2017), which accounts for build out of the project site. As described above, the type and intensity of development associated with the proposed project (e.g., performing arts center to serve the existing school) would be less than assumed for the project site in the City's General Plan (e.g., medium density residential), including the EDSP and accounted for in the Wastewater Collection System Master Plan. The proposed project would result in a very minor contribution to the daily permitted capacity of the DSRSD's wastewater treatment plant and would not exceed the plant capacity.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts related to wastewater capacity beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(d-e) Adequate landfill and compliance

No New Impact. Operation of the proposed project is not anticipated to generate a significant amount of solid waste. Users of the Quarry Lane School Performing Arts Center would dispose of garbage, but not in amounts that would greatly exceed average per capita garbage generation rates. In addition, recycling receptacles would be located throughout the facility, allowing the proposed project to be in full compliance with waste diversion goals mandated by the California Integrated Waste Management Act.

The amount of solid waste generated by both users of the Performing Arts Center and construction of the facility or infrastructure would not substantially decrease the amount of

space in the Altamont Landfill. Solid waste disposal off-site would comply with all local, State, and federal requirements.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts related to solid waste beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to utilities and service systems beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

West Yost. 2016. 2015 Urban Water Management Plan. June. Available online at: www.dsrsd.com/about-us/library/plans-studies (accessed June 12, 2022).

West Yost. 2019. 2017 Wastewater Collection System Master Plan. December. Available online at: www.dsrsd.com/about-us/library/plans-studies (accessed June 12, 2022).

West Yost. 2021. 2020 Urban Water Management Plan. June. Available online at: www.dsrsd.com/about-us/library/plans-studies (accessed June 12, 2022).

Wildfire

ENVIRONMENTAL IMPACTS Issues		Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
18.	**WILDFIRE. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:**				
a)	Substantially impair an adopted emergency response plan or emergency evacuation plan?				X
b)	Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?				X
c)	Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?				X
d)	Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?				X

Environmental Setting

The site is within the Diablo Range, an elongated system of northwest trending mountains, hills, ridges, and narrow intervening valleys formed within the Coast Ranges of Central California. The Diablo Range is part of the Coast Range Geomorphic province and is roughly parallel to the northwest-trending trace of the Calaveras Fault. The west-trending Dublin Canyon, cuts through the foothills with numerous creeks and small streams originating in the East Bay hills.

As described in Section 8, Hazards and Hazardous Materials, a portion of the project site is located within a moderate Fire Hazard Severity Zone within a SRA, as mapped by CAL FIRE.

Previous CEQA Documents

The Eastern Dublin EIR did not specifically analyze impacts for wildfires as it was not a separate topic for analysis when the Eastern Dublin EIR was completed. Public services impacts and mitigation measures, some of which relate to the provision of fire services pertain to wildfires, were identified. The following mitigation measure would apply to the proposed project:

> **MM 3.5/9.0** Incorporate DRFA recommendations on project design related to access, water pressure, fire safety and prevention into the requirements for development

approval. Required that the following DRFA design standards are incorporated where appropriate:

- Use of non-combustible roof materials in all new construction.
- Available capacity of 1,000 gallons per minute (gpm) at 20 pounds per square inch (PSI) fire flow from project fire hydrants on public water mains. For groupings of one-family and small two-family dwellings not exceeding two stories in height, the fire flow requirements are a minimum of 1,000 gpm. Fire flow requirements for all other buildings will be calculated based on building size, type of construction, and location.
- A buffer zone along the backs of homes which are contiguous with the wildland are. This buffer zone is to be landscaped with irrigated (wet banding) or equivalent fire-resistive vegetation.
- Compliance with DRFA minimum road widths, maximum street slopes, parking recommendations, and secondary access road requirements.
- Require residential structures outside the DRFA's established response time and zone to include fire alarm systems and sprinklers.

Project Impacts and Mitigation Measures

(a) Impair an emergency response plan

No New Impact. A portion of the project site is located within a moderate Fire Hazard Severity Zone within an SRA as mapped by CALFIRE. However, as outlined in the Project Description, the proposed project would provide a new facility to host previously existing events for Quarry Lane School and would not include any growth in total student enrollment or an expansion of existing school operations. The proposed project would not alter or block adjacent roadways, and implementation of the proposed project would not be expected to impair the function of nearby emergency evacuation routes. In addition, operation of the proposed project would not cause permanent alterations to vehicle circulation routes and patterns or impede public access or travel upon public rights-of-way. As part of Site Design Review, plan review and approval by the Alameda County Fire District is required. Internal roadways and ingress/egress would be required to meet State and local standards regarding turning radius, road width, and emergency vehicle access. In the event of an emergency on the site, employees, students, and/or school visitors could exit the site off Tassajara Road. Once off the project site, employees, students, and/or school visitors could access I-580 from Tassajara Road to exit the City and region.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts related to impairment of

an emergency response plan beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(b) Exposure to wildfire

No New Impact. The project site is relatively flat with expansive rolling hills located to the east. Prevailing winds are typically from the west between February and November and from the north from November to February in the City.

Construction of the proposed project would involve the use of some flammable materials such as gasoline, diesel fuel, hydraulic oils, paints, solvents, or other wastes. During construction, there would be increased human activity and ignition sources, including equipment that could create spark, be a source of heat, or leak flammable materials on the project site. However, all construction equipment is required to have fire suppression equipment (such as a fire extinguisher) on board or at the work site, secondary containment would be required for fuel-powered equipment, and a spill kit would be required to be kept on-site during construction for use in case of any leaks or spills of flammable materials. These existing requirements would reduce the potential exacerbation of wildfire risks related to construction activities.

The operation of the proposed project would be consistent with surrounding uses and allowable zoning for the project site. The project would be required to comply with the Uniform Fire Code (Section 6.04 of the County Ordinance Code) and the Building Code (Title 15), which call for the installation, maintenance, and ongoing inspection of fire protection systems under the direction of the local Fire Chief. In addition, the Uniform Fire Code authorizes the Fire Chief to specify water supply and road design standards. As part of Site Design Review, plan review and approval by the Alameda County Fire District would be required.

The proposed project would also be subject to requirements in Section 13000 et seq. of the California Health and Safety Code, California Building Standards Code, and California State Fire Code, which include regulations concerning the following: building standards for fire protection; fire protection and notification systems such as extinguishers and smoke alarms; safety for firefighters and emergency responders during emergency operations; minimum standards for hazardous vegetation and fuel management, defensible space, and building construction; and minimum standards for emergency access and water supply for fire response.

Compliance with these existing regulatory requirements would ensure that the proposed project would not exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts related to wildfire risk beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA

standards for supplemental review are met. Therefore, no further environmental review is required.

(c) Require installation or maintenance of infrastructure

No New Impact. As discussed above, a portion of the project site is located within a moderate Fire Hazard Severity Zone within an SRA as mapped by CALFIRE. However, all proposed project components including infrastructure, would be located within the boundaries of the project site and impacts associated with the development of the proposed project within the project site have been analyzed herein. Additionally, through Site Development Review, emergency services would review proposed plans to ensure that emergency vehicle access and circulation is adequate. Therefore, the proposed project would not require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts related to installation or maintenance of infrastructure beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

(d) Exposure to flooding or landslides

No New Impact. Construction of the proposed project would be required to obtain coverage under the National Pollutant Discharge Elimination System (NPDES) General Construction stormwater permit. As discussed in Section 4.10, Hydrology and Water Quality, the proposed project would implement a Stormwater Pollution and Prevention Plan (SWPPP) that specifies Best Management Practices (BMPs) and erosion control measures to be used during construction to manage runoff flows. Additionally, the proposed project would be required to implement Low Impact Development (LID) techniques as required by the Municipal Regional Stormwater NPDES Permit (MRP) and, as detailed in Section 4.10, would not significantly alter drainage patterns compared to existing conditions. Furthermore, the project site is not located within a flood zone or within an area identified as having potential for landslides. Therefore, the proposed project would not have the potential to expose people or structures to downslope or downstream flooding or landslides.

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements, there would be no new impacts related to exposure to downslope or downstream flooding or landslides beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Conclusion

The project does not propose substantial changes that were not previously analyzed in the Eastern Dublin EIR that would require major changes to the Eastern Dublin EIR. Based on the information in the Eastern Dublin EIR and this environmental analysis, with adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to wildfire beyond what has been analyzed in the previous Eastern Dublin EIR, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required.

Source(s)

CAL FIRE. 2020. California Fire Hazard Severity Zone Viewer. Website: egis.fire.ca.gov/FHSZ/ (accessed April 3, 2023).

Dublin, City of. 2017. City of Dublin General Plan, Adopted February 11, 1985 (Amended as of November 21, 2017).

Wallace Roberts & Todd. 2016. Eastern Dublin Specific Plan. January 7, 1994 (Updated September 20, 2016).

Wallace Roberts & Todd. 1992. Final Environmental Impact Report, State Clearinghouse Number 91103064. Eastern Dublin General Plan Amendment and Specific Plan. December 7.

Mandatory Findings of Significance

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No New Impact
18. MANDATORY FINDINGS OF SIGNIFICANCE. Does the project:				
a) Have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				X
b) Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of the past projects, the effects of other current projects, and the effects of probable future projects.)				X
c) Have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?		X		

Significant Impacts

(a) Degrade quality of environment, reduce habitat, cause population to drop below self-sustaining levels, reduce endangered animals or plants, or eliminate important examples of California history or prehistory.

No New Impact. As discussed, and analyzed in this document, the proposed project would not degrade the quality of the environment. For reasons discussed in Section 4. Biological Resources, the proposed project, would not substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or reduce the number or restrict the range of a rare or endangered plant or animal, with the implementation of the mitigation measures identified in the Eastern Dublin EIR and adherence to applicable regulatory requirements.

Further, for the reasons discussed in Section 5. Cultural Resources, the proposed project, with implementation of the mitigation identified in the Eastern Dublin EIR, would not eliminate important examples of California history or prehistory.

Implementation of the proposed project, with compliance with regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, would not result in any new impacts or

increase the severity of a previously identified significant impacts to biological or cultural resources as previously analyzed, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required for this impact area.

(b) Cumulative Impacts

No New Impact. The proposed project has the potential to result in incremental environmental impacts that are part of a series of approvals that were anticipated under the Eastern Dublin EIR. The Eastern Dublin EIR considered the project's cumulatively considerable impacts where effects had the potential to degrade the quality of the environment as a result of build-out of the EDSP. Implementation of the proposed project, with compliance with regulatory requirements and required mitigation measures, would not result in any new cumulative impacts or increase the severity of a previously identified significant cumulative impact as previously analyzed, and no other CEQA standards for supplemental review are met. Therefore, no further environmental review is required for this impact area.

(c) Substantial Adverse Effects on Human Beings

Less Than Significant with Mitigation Incorporated. As discussed and analyzed in this document, environmental impacts (including those that may have a direct or indirect adverse effect on humans [i.e., air quality, noise]) that are associated with the proposed project can be reduced to less than significant through implementation of mitigation measures identified in the Eastern Dublin EIR or project specific measures recommended in this document to address construction-related pollutant concentrations and vibration (Project-Specific MM AIR-1 and MM NOI-1). Therefore, the proposed project would not result in environmental effects that would cause a substantial adverse effect on human beings either directly or indirectly. Therefore, implementation of the proposed project would not increase the severity of a previously identified significant impact as previously analyzed.

Appendix A

CalEEMod Output Sheets

Quarry Lane School Performing Arts Center Detailed Report

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2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

3.2. Demolition (2023) - Mitigated

3.3. Site Preparation (2023) - Unmitigated

3.4. Site Preparation (2023) - Mitigated

3.5. Grading (2023) - Unmitigated

3.6. Grading (2023) - Mitigated

3.7. Building Construction (2023) - Unmitigated

3.8. Building Construction (2023) - Mitigated

3.9. Building Construction (2024) - Unmitigated

3.10. Building Construction (2024) - Mitigated

3.11. Paving (2024) - Unmitigated

3.12. Paving (2024) - Mitigated

3.13. Architectural Coating (2024) - Unmitigated

3.14. Architectural Coating (2024) - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.2. Unmitigated

4.3.1. Mitigated

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

4.4.1. Mitigated

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

4.5.1. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Quarry Lane School Performing Arts Center
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	14.8
Location	6363 Tassajara Rd, Dublin, CA 94568, USA
County	Alameda
City	Dublin
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1677
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Elementary School	13.8	1000sqft	0.32	13,800	3,460	3,460	—	—
Parking Lot	126	Space	1.13	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-6	Use Diesel Particulate Filters

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	15.8	13.5	10.7	0.02	0.55	0.10	0.62	0.51	0.02	0.53	—	1,914	1,914	0.08	0.03	0.47	1,923
Mit.	0.50	15.8	13.5	10.7	0.02	0.08	0.10	0.16	0.08	0.02	0.09	—	1,914	1,914	0.08	0.03	0.47	1,923
% Reduced	—	—	—	—	—	85%	—	75%	85%	—	82%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.70	15.8	20.5	15.3	0.03	0.67	3.17	3.75	0.62	1.44	1.97	—	3,795	3,795	0.17	0.22	0.08	3,864
Mit.	0.70	15.8	20.5	15.3	0.03	0.11	3.17	3.28	0.10	1.44	1.54	—	3,795	3,795	0.17	0.22	0.08	3,864
% Reduced	—	—	—	—	—	84%	—	13%	84%	—	22%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	0.69	6.86	5.46	0.01	0.28	0.23	0.34	0.26	0.10	0.27	—	968	968	0.04	0.02	0.11	973
Mit.	0.26	0.69	6.86	5.46	0.01	0.04	0.23	0.25	0.04	0.10	0.12	—	968	968	0.04	0.02	0.11	973
% Reduced	—	—	—	—	—	85%	—	26%	85%	—	57%	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.13	1.25	1.00	< 0.005	0.05	0.04	0.06	0.05	0.02	0.05	—	160	160	0.01	< 0.005	0.02	161
Mit.	0.05	0.13	1.25	1.00	< 0.005	0.01	0.04	0.05	0.01	0.02	0.02	—	160	160	0.01	< 0.005	0.02	161
% Reduced	—	—	—	—	—	85%	—	26%	85%	—	57%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.50	15.8	13.5	10.7	0.02	0.55	0.10	0.62	0.51	0.02	0.53	—	1,914	1,914	0.08	0.03	0.47	1,923
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.70	0.66	20.5	15.3	0.03	0.67	3.17	3.75	0.62	1.44	1.97	—	3,795	3,795	0.17	0.22	0.08	3,864
2024	0.50	15.8	13.5	10.7	0.02	0.55	0.06	0.62	0.51	0.02	0.53	—	1,910	1,910	0.08	0.03	0.01	1,919
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.11	0.10	3.17	2.42	< 0.005	0.10	0.23	0.34	0.10	0.10	0.20	—	498	498	0.02	0.02	0.11	504
2024	0.26	0.69	6.86	5.46	0.01	0.28	0.03	0.32	0.26	0.01	0.27	—	968	968	0.04	0.01	0.09	973
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.02	0.02	0.58	0.44	< 0.005	0.02	0.04	0.06	0.02	0.02	0.04	—	82.5	82.5	< 0.005	< 0.005	0.02	83.5
2024	0.05	0.13	1.25	1.00	< 0.005	0.05	0.01	0.06	0.05	< 0.005	0.05	—	160	160	0.01	< 0.005	0.01	161

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.50	15.8	13.5	10.7	0.02	0.08	0.10	0.16	0.08	0.02	0.09	—	1,914	1,914	0.08	0.03	0.47	1,923
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.70	0.66	20.5	15.3	0.03	0.11	3.17	3.28	0.10	1.44	1.54	—	3,795	3,795	0.17	0.22	0.08	3,864
2024	0.50	15.8	13.5	10.7	0.02	0.08	0.06	0.15	0.08	0.02	0.09	—	1,910	1,910	0.08	0.03	0.01	1,919
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.11	0.10	3.17	2.42	< 0.005	0.02	0.23	0.25	0.02	0.10	0.12	—	498	498	0.02	0.02	0.11	504
2024	0.26	0.69	6.86	5.46	0.01	0.04	0.03	0.08	0.04	0.01	0.05	—	968	968	0.04	0.01	0.09	973
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.02	0.02	0.58	0.44	< 0.005	< 0.005	0.04	0.05	< 0.005	0.02	0.02	—	82.5	82.5	< 0.005	< 0.005	0.02	83.5
2024	0.05	0.13	1.25	1.00	< 0.005	0.01	0.01	0.01	0.01	< 0.005	0.01	—	160	160	0.01	< 0.005	0.01	161

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.11	0.44	0.01	0.60	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	10.4	62.6	73.0	1.05	< 0.005	0.05	100
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.4	60.1	70.5	1.05	< 0.005	0.05	97.9

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.39	< 0.005	0.30	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	10.4	61.3	71.7	1.05	< 0.005	0.05	99.1
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.07	< 0.005	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	1.73	10.2	11.9	0.17	< 0.005	0.01	16.4

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.11	0.44	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.47	2.47	< 0.005	< 0.005	—	2.48
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	58.4	58.4	0.01	< 0.005	—	59.0
Water	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Waste	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	0.11	0.44	0.01	0.60	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	10.4	62.6	73.0	1.05	< 0.005	0.05	100
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	58.4	58.4	0.01	< 0.005	—	59.0
Water	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Waste	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.0

Total	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.4	60.1	70.5	1.05	< 0.005	0.05	97.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.05	0.39	< 0.005	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.22	1.22	< 0.005	< 0.005	—	1.22
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	58.4	58.4	0.01	< 0.005	—	59.0
Water	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Waste	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	0.05	0.39	< 0.005	0.30	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	10.4	61.3	71.7	1.05	< 0.005	0.05	99.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.01	0.07	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.20	0.20	< 0.005	< 0.005	—	0.20
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9.67	9.67	< 0.005	< 0.005	—	9.77
Water	—	—	—	—	—	—	—	—	—	—	—	0.13	0.28	0.41	0.01	< 0.005	—	0.83
Waste	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.60
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	0.01	0.07	< 0.005	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	1.73	10.2	11.9	0.17	< 0.005	0.01	16.4

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.11	0.44	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.47	2.47	< 0.005	< 0.005	—	2.48
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	58.4	58.4	0.01	< 0.005	—	59.0

Water	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Waste	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	0.11	0.44	0.01	0.60	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	10.4	62.6	73.0	1.05	< 0.005	0.05	100
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	58.4	58.4	0.01	< 0.005	—	59.0
Water	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Waste	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.4	60.1	70.5	1.05	< 0.005	0.05	97.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.05	0.39	< 0.005	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.22	1.22	< 0.005	< 0.005	—	1.22
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	58.4	58.4	0.01	< 0.005	—	59.0
Water	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Waste	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	0.05	0.39	< 0.005	0.30	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	10.4	61.3	71.7	1.05	< 0.005	0.05	99.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.01	0.07	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.20	0.20	< 0.005	< 0.005	—	0.20
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9.67	9.67	< 0.005	< 0.005	—	9.77
Water	—	—	—	—	—	—	—	—	—	—	—	0.13	0.28	0.41	0.01	< 0.005	—	0.83
Waste	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.6

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	0.01	0.07	< 0.005	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	1.73	10.2	11.9	0.17	< 0.005	0.01	16.4

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.61	19.6	14.6	0.02	0.66	—	0.66	0.61	—	0.61	—	2,494	2,494	0.10	0.02	—	2,502
Demolition	—	—	—	—	—	—	0.20	0.20	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.07	0.80	< 0.005	0.04	—	0.04	0.03	—	0.03	—	137	137	0.01	< 0.005	—	137
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.20	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	22.6	22.6	< 0.005	< 0.005	—	22.7

Demolitio	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.49	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	104	104	< 0.005	< 0.005	0.01	106
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.34	0.13	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	261	261	0.02	0.04	0.01	273
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.3	14.3	< 0.005	< 0.005	0.01	15.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.37	2.37	< 0.005	< 0.005	< 0.005	2.48

3.2. Demolition (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.61	19.6	14.6	0.02	0.10	—	0.10	0.09	—	0.09	—	2,494	2,494	0.10	0.02	—	2,502
Demolition	—	—	—	—	—	—	0.20	0.20	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.07	0.80	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	137
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.20	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.49	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	104	104	< 0.005	< 0.005	0.01	106
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.02	0.01	0.34	0.13	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	261	261	0.02	0.04	0.01	273
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.3	14.3	< 0.005	< 0.005	0.01	15.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.37	2.37	< 0.005	< 0.005	< 0.005	2.48

3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.46	15.6	11.9	0.02	0.45	—	0.45	0.41	—	0.41	—	2,063	2,063	0.08	0.02	—	2,070
Dust From Material Movement	—	—	—	—	—	—	2.44	2.44	—	1.17	1.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.21	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.3	28.3	< 0.005	< 0.005	—	28.4
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.68	4.68	< 0.005	< 0.005	—	4.70
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.30	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	62.6	62.6	< 0.005	< 0.005	0.01	63.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.46	15.6	11.9	0.02	0.07	—	0.07	0.06	—	0.06	—	2,063	2,063	0.08	0.02	—	2,070
Dust From Material Movement	—	—	—	—	—	—	2.44	2.44	—	1.17	1.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.21	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.3	28.3	< 0.005	< 0.005	—	28.4
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.68	4.68	< 0.005	< 0.005	—	4.70
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.30	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	62.6	62.6	< 0.005	< 0.005	0.01	63.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.56	18.8	14.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,453	2,453	0.10	0.02	—	2,462
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.03	0.78	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	135
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.19	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	22.3	22.3	< 0.005	< 0.005	—	22.3
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.39	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	83.5	83.5	< 0.005	< 0.005	0.01	84.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	0.03	1.65	0.63	0.01	0.02	0.09	0.11	0.02	0.03	0.05	—	1,258	1,258	0.07	0.20	0.07	1,318
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	4.60	4.60	< 0.005	< 0.005	0.01	4.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.09	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	68.9	68.9	< 0.005	0.01	0.06	72.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.01	12.0

3.6. Grading (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.56	18.8	14.2	0.02	0.08	—	0.08	0.08	—	0.08	—	2,453	2,453	0.10	0.02	—	2,462

Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.03	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	135
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.19	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.3	22.3	< 0.005	< 0.005	—	22.3
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.39	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	83.5	83.5	< 0.005	< 0.005	0.01	84.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	0.03	1.65	0.63	0.01	0.02	0.09	0.11	0.02	0.03	0.05	—	1,258	1,258	0.07	0.20	0.07	1,3

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	4.60	4.60	< 0.005	< 0.005	0.01	4.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.09	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	68.9	68.9	< 0.005	0.01	0.06	72.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.01	12.0

3.7. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	13.4	10.5	0.02	0.55	—	0.55	0.51	—	0.51	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.73	0.57	< 0.005	0.03	—	0.03	0.03	—	0.03	—	98.7	98.7	< 0.005	< 0.005	—	99.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.13	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.3	16.3	< 0.005	< 0.005	—	16.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	48.4	48.4	< 0.005	< 0.005	0.01	49.0
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.0	62.0	< 0.005	0.01	< 0.005	64.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.67	2.67	< 0.005	< 0.005	0.01	2.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.40	3.40	< 0.005	< 0.005	< 0.005	3.55
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.45
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	13.4	10.5	0.02	0.08	—	0.08	0.08	—	0.08	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.73	0.57	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	98.7	98.7	< 0.005	< 0.005	—	99.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.13	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.3	16.3	< 0.005	< 0.005	—	16.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	48.4	48.4	< 0.005	< 0.005	0.01	49.0
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.0	62.0	< 0.005	0.01	< 0.005	64.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.67	2.67	< 0.005	< 0.005	0.01	2.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.40	3.40	< 0.005	< 0.005	< 0.005	3.55
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.45
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	13.4	10.5	0.02	0.55	—	0.55	0.51	—	0.51	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	13.4	10.5	0.02	0.55	—	0.55	0.51	—	0.51	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	6.55	5.12	0.01	0.27	—	0.27	0.25	—	0.25	—	881	881	0.04	0.01	—	884

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.20	0.94	< 0.005	0.05	—	0.05	0.05	—	0.05	—	146	146	0.01	< 0.005	—	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.24	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	51.2	51.2	< 0.005	< 0.005	0.22	52.0
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	61.2	61.2	< 0.005	0.01	0.16	64.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	47.5	47.5	< 0.005	< 0.005	0.01	48.1
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	61.3	61.3	< 0.005	0.01	< 0.005	64.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	23.4	23.4	< 0.005	< 0.005	0.05	23.7
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	30.0	30.0	< 0.005	< 0.005	0.03	31.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	3.87	3.87	< 0.005	< 0.005	0.01	3.93
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.96	4.96	< 0.005	< 0.005	0.01	5.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	13.4	10.5	0.02	0.08	—	0.08	0.08	—	0.08	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	13.4	10.5	0.02	0.08	—	0.08	0.08	—	0.08	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	6.55	5.12	0.01	0.04	—	0.04	0.04	—	0.04	—	881	881	0.04	0.01	—	884
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.20	0.94	< 0.005	0.01	—	0.01	0.01	—	0.01	—	146	146	0.01	< 0.005	—	146
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.24	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	51.2	51.2	< 0.005	< 0.005	0.22	52.0
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	61.2	61.2	< 0.005	0.01	0.16	64.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	47.5	47.5	< 0.005	< 0.005	0.01	48.1
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	61.3	61.3	< 0.005	0.01	< 0.005	64.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	23.4	23.4	< 0.005	< 0.005	0.05	23.7
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	30.0	30.0	< 0.005	< 0.005	0.03	31.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	3.87	3.87	< 0.005	< 0.005	0.01	3.93
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.96	4.96	< 0.005	< 0.005	0.01	5.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.31	0.31	8.40	6.65	0.01	0.36	—	0.36	0.34	—	0.34	—	992	992	0.04	0.01	—	995
Paving	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.23	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.2	27.2	< 0.005	< 0.005	—	27.3
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.50	4.50	< 0.005	< 0.005	—	4.51
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.52	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	110	110	< 0.005	< 0.005	0.47	112
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.82	2.82	< 0.005	< 0.005	0.01	2.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	0.31	8.40	6.65	0.01	0.05	—	0.05	0.05	—	0.05	—	992	992	0.04	0.01	—	995
Paving	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.23	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.2	27.2	< 0.005	< 0.005	—	27.3
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.50	4.50	< 0.005	< 0.005	—	4.51
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.52	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	110	110	< 0.005	< 0.005	0.47	112
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.82	2.82	< 0.005	< 0.005	0.01	2.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	15.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	15.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.66	3.66	< 0.005	< 0.005	—	3.67
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—	0.61
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	10.2	10.2	< 0.005	< 0.005	0.04	10.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	9.50	9.50	< 0.005	< 0.005	< 0.005	9.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	1.09	0.96	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	15.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	1.09	0.96	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	15.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.66	3.66	< 0.005	< 0.005	—	3.67
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—	0.61
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	10.2	10.2	< 0.005	< 0.005	0.04	10.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	9.50	9.50	< 0.005	< 0.005	< 0.005	9.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	34.2	34.2	0.01	< 0.005	—	34.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	24.2	24.2	< 0.005	< 0.005	—	24.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	0.01	< 0.005	—	59.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	34.2	34.2	0.01	< 0.005	—	34.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	24.2	24.2	< 0.005	< 0.005	—	24.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	0.01	< 0.005	—	59.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	5.67	5.67	< 0.005	< 0.005	—	5.72
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.00	4.00	< 0.005	< 0.005	—	4.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	9.67	9.67	< 0.005	< 0.005	—	9.77

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Element School	—	—	—	—	—	—	—	—	—	—	—	—	34.2	34.2	0.01	< 0.005	—	34.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	24.2	24.2	< 0.005	< 0.005	—	24.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	0.01	< 0.005	—	59.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	34.2	34.2	0.01	< 0.005	—	34.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	24.2	24.2	< 0.005	< 0.005	—	24.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	0.01	< 0.005	—	59.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	5.67	5.67	< 0.005	< 0.005	—	5.72
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.00	4.00	< 0.005	< 0.005	—	4.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	9.67	9.67	< 0.005	< 0.005	—	9.77

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipme	0.11	0.10	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.47	2.47	< 0.005	< 0.005	—	2.48
Total	0.11	0.44	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.47	2.47	< 0.005	< 0.005	—	2.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.20	0.20	< 0.005	< 0.005	—	0.20
Total	0.01	0.07	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.20	0.20	< 0.005	< 0.005	—	0.20

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.11	0.10	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.47	2.47	< 0.005	< 0.005	—	2.48
Total	0.11	0.44	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.47	2.47	< 0.005	< 0.005	—	2.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.20	0.20	< 0.005	< 0.005	—	0.20
Total	0.01	0.07	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.20	0.20	< 0.005	< 0.005	—	0.20

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.13	0.28	0.41	0.01	< 0.005	—	0.83
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.13	0.28	0.41	0.01	< 0.005	—	0.83

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.77	1.69	2.46	0.08	< 0.005	—	4.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.13	0.28	0.41	0.01	< 0.005	—	0.83
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.13	0.28	0.41	0.01	< 0.005	—	0.83

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.60
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.60

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.67	0.00	9.67	0.97	0.00	—	33.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.60
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.60

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Element School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/2/2023	10/27/2023	5.00	20.0	—
Site Preparation	Site Preparation	10/30/2023	11/3/2023	5.00	5.00	—
Grading	Grading	11/6/2023	12/1/2023	5.00	20.0	—
Building Construction	Building Construction	12/4/2023	9/6/2024	5.00	200	—
Paving	Paving	9/9/2024	9/20/2024	5.00	10.0	—
Architectural Coating	Architectural Coating	9/23/2024	10/4/2024	5.00	10.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	1.00	8.00	84.0	0.37

Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	2.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	3.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Tier 2	1.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Tier 2	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 2	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	1.00	8.00	84.0	0.37

Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	2.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	3.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Tier 2	1.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Tier 2	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 2	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	3.60	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—

Site Preparation	Worker	7.50	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	17.4	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	5.80	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	2.26	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	1.16	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Demolition	—	—	—	—
Demolition	Worker	12.5	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	3.60	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	17.4	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	5.80	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	2.26	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	1.16	11.7	LDA,LDT1,LDT2

Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	20,700	6,900	2,964

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	6,200	—
Site Preparation	—	—	4.69	0.00	—
Grading	—	2,775	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.13

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Elementary School	0.00	0%
Parking Lot	1.13	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	204	0.03	< 0.005
2024	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	20,700	6,900	2,964

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Elementary School	61,237	204	0.0330	0.0040	0.00
Parking Lot	43,272	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Elementary School	61,237	204	0.0330	0.0040	0.00
Parking Lot	43,272	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Elementary School	400,157	87,356
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Elementary School	400,157	87,356
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Elementary School	17.9	0.00
Parking Lot	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Elementary School	17.9	0.00
Parking Lot	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	16.6	annual days of extreme heat
Extreme Precipitation	3.60	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	17.3	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	0	0	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	1	1	2
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
	275

Exposure Indicators	—
AQ-Ozone	32.1
AQ-PM	17.3
AQ-DPM	18.9
Drinking Water	37.3
Lead Risk Housing	1.17
Pesticides	56.3
Toxic Releases	35.8
Traffic	71.3
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	71.7
Haz Waste Facilities/Generators	58.3
Impaired Water Bodies	23.9
Solid Waste	52.9
Sensitive Population	—
Asthma	28.4
Cardio-vascular	23.8
Low Birth Weights	98.4
Socioeconomic Factor Indicators	—
Education	12.0
Housing	10.8
Linguistic	53.4
Poverty	0.55
Unemployment	9.72

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	96.20171949
Employed	94.72603619
Median HI	98.84511741
Education	—
Bachelor's or higher	85.62812781
High school enrollment	100
Preschool enrollment	79.14795329
Transportation	—
Auto Access	98.98626973
Active commuting	78.28820737
Social	—
2-parent households	93.03220839
Voting	59.38662903
Neighborhood	—
Alcohol availability	80.29000385
Park access	36.10932888
Retail density	22.53304247
Supermarket access	5.030155268
Tree canopy	39.34300013
Housing	—
Homeownership	90.44013859
Housing habitability	89.58039266
Low-inc homeowner severe housing cost burden	85.0891826
Low-inc renter severe housing cost burden	70.48633389
Uncrowded housing	51.23829077

Health Outcomes	—
Insured adults	94.43089953
Arthritis	95.4
Asthma ER Admissions	75.7
High Blood Pressure	98.9
Cancer (excluding skin)	68.9
Asthma	65.7
Coronary Heart Disease	98.3
Chronic Obstructive Pulmonary Disease	96.5
Diagnosed Diabetes	98.2
Life Expectancy at Birth	82.7
Cognitively Disabled	96.3
Physically Disabled	96.1
Heart Attack ER Admissions	63.6
Mental Health Not Good	79.6
Chronic Kidney Disease	98.0
Obesity	87.5
Pedestrian Injuries	19.6
Physical Health Not Good	96.7
Stroke	98.4
Health Risk Behaviors	—
Binge Drinking	4.8
Current Smoker	77.7
No Leisure Time for Physical Activity	96.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	32.5
Elderly	57.3
English Speaking	45.3
Foreign-born	86.4
Outdoor Workers	78.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	62.4
Traffic Density	91.8
Traffic Access	23.0
Other Indices	—
Hardship	10.1
Other Decision Support	—
2016 Voting	67.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	27.0
Healthy Places Index Score for Project Location (b)	98.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction of the proposed project is anticipated to begin in fall of 2023 and be completed by fall of 2024.
Operations: Vehicle Data	The proposed project would not result in a change in trip generation.
Operations: Energy Use	No new natural gas service is permitted beginning in January 2023, so no new natural gas connections would be required.
Construction: Off-Road Equipment	Assuming the use of Tier 2 construction equipment.

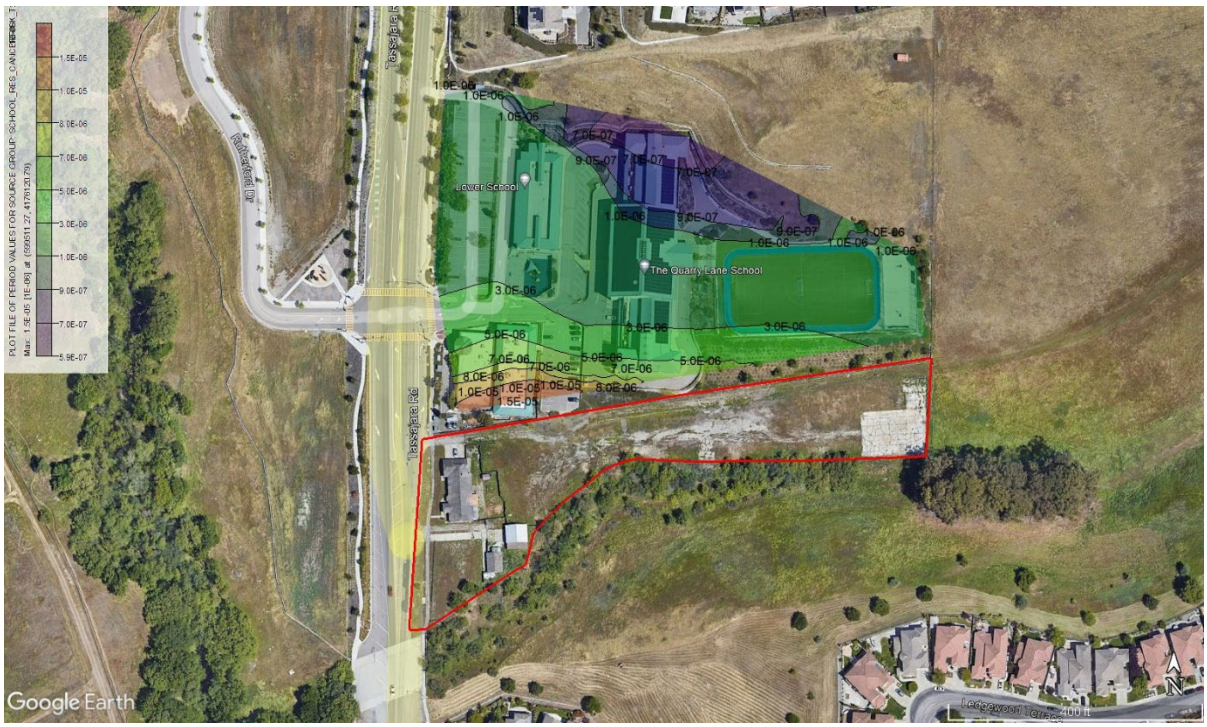
Appendix B

Model Snap Shots

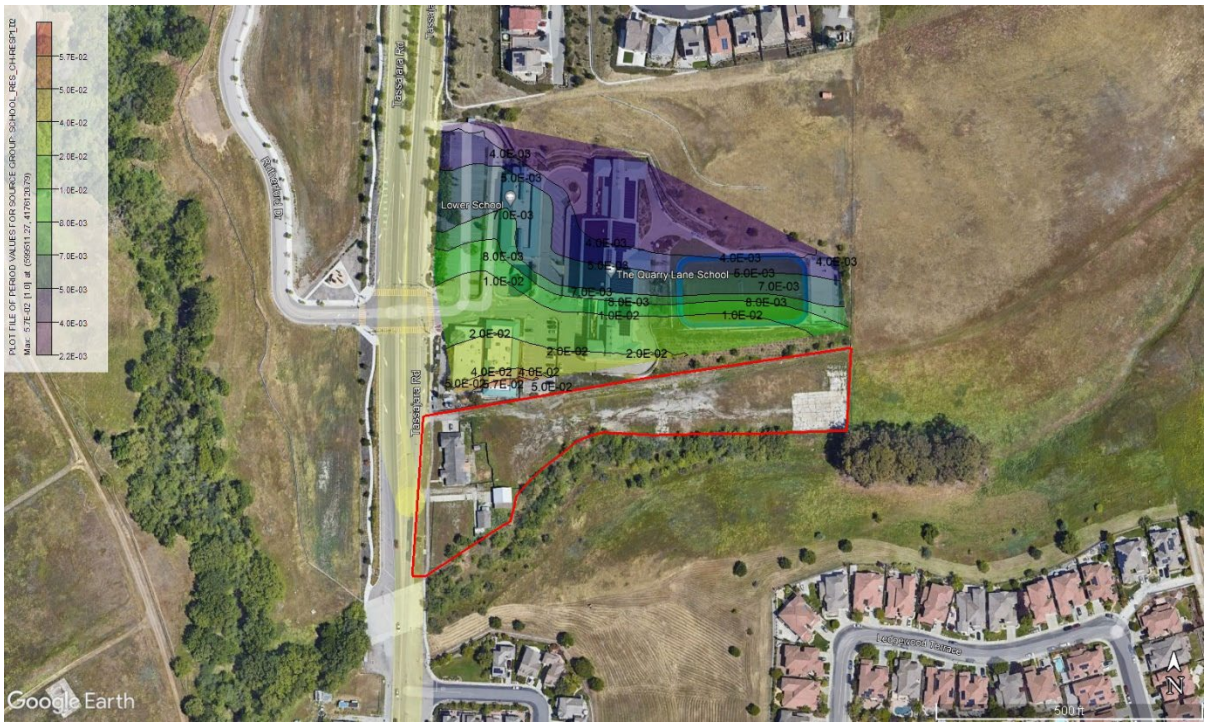
Receptor Grid



Unmitigated Cancer Risk – School Receptor



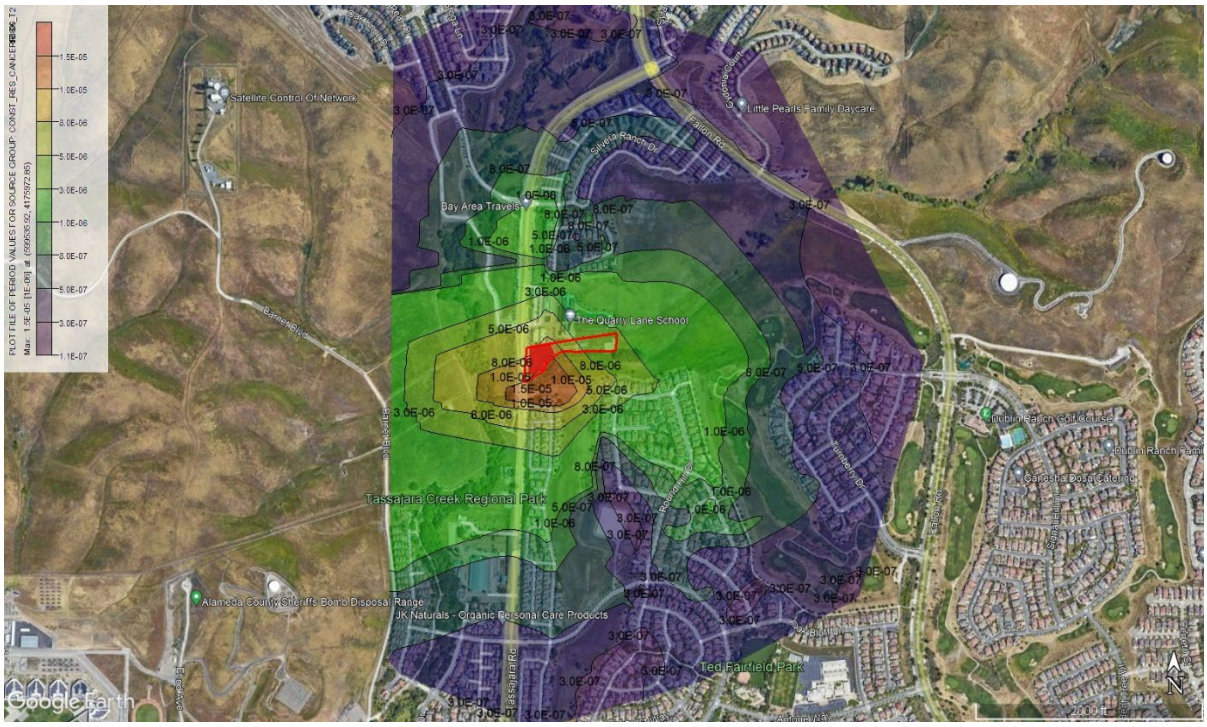
Unmitigated Chronic Hazard Index – School Receptor



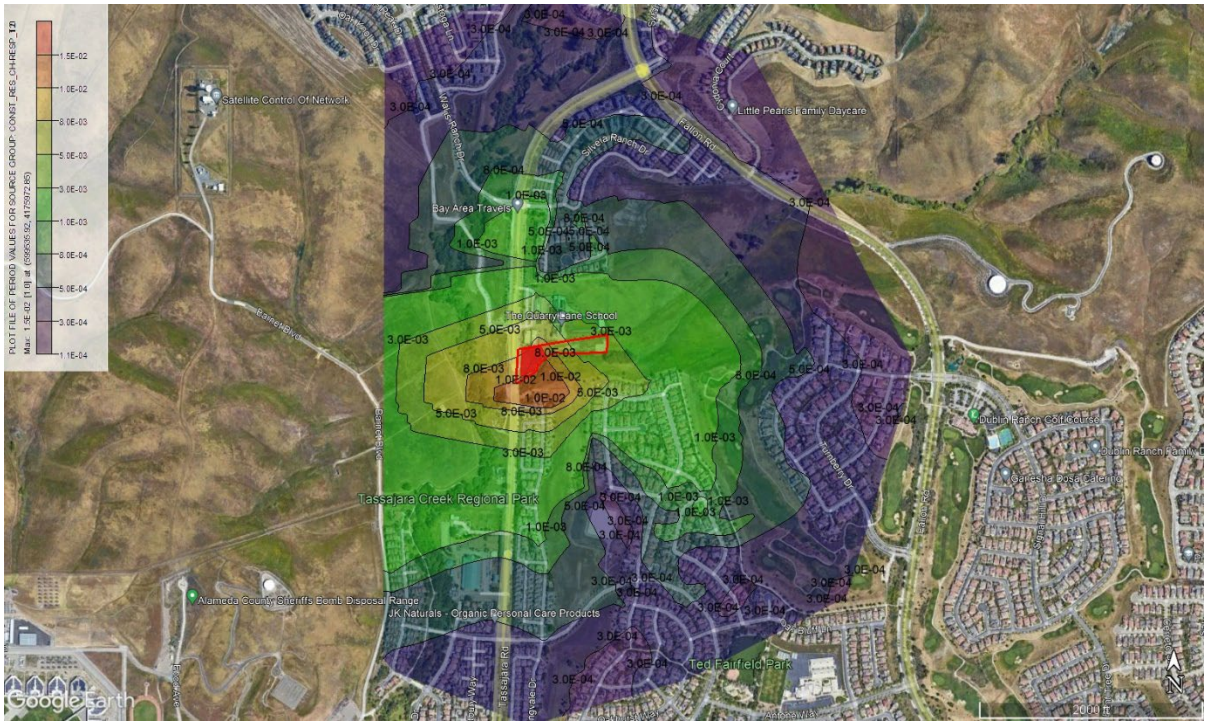
Unmitigated $PM_{2.5}$ Concentration – School Receptor



Unmitigated Cancer Risk – Residential Receptor



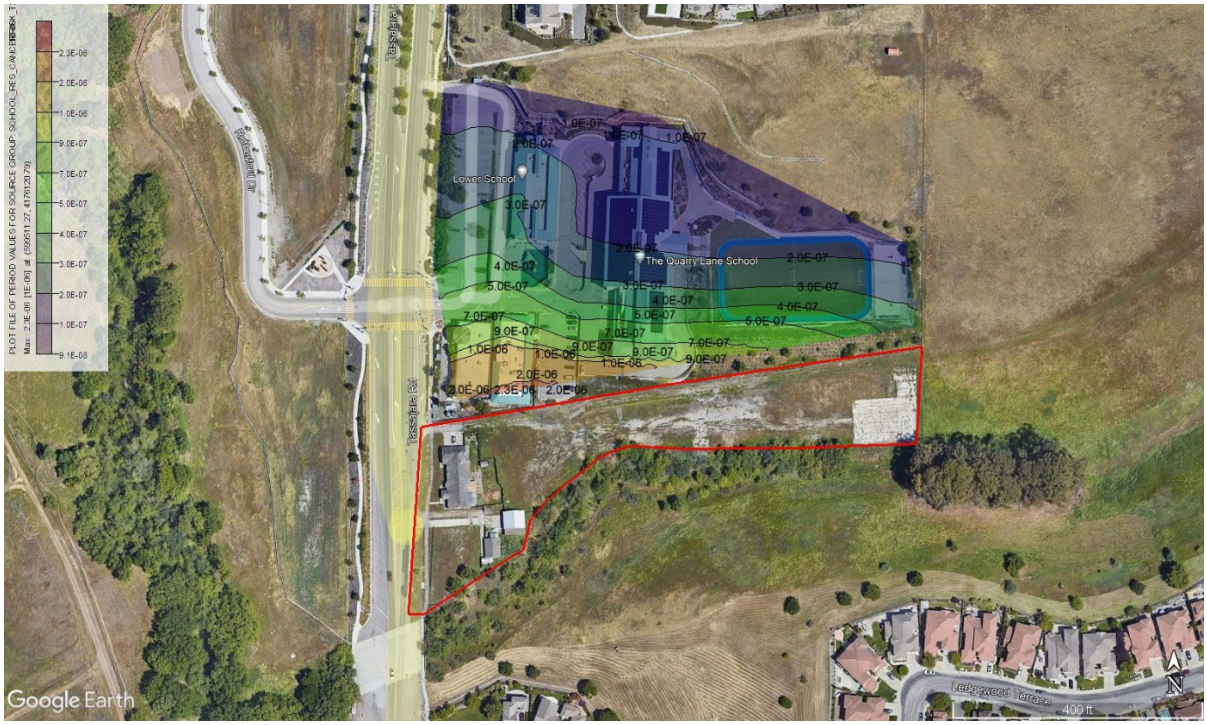
Unmitigated Chronic Hazard Index – Residential Receptor



Unmitigated $PM_{2.5}$ Concentration – Residential Receptor



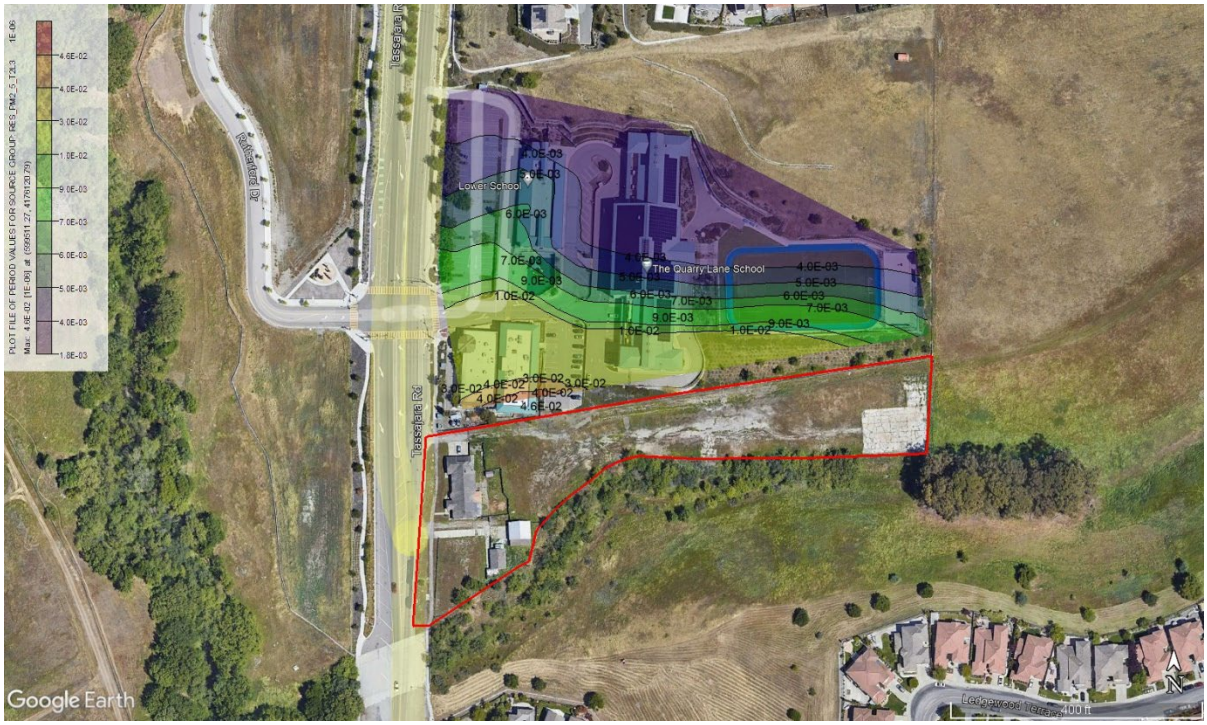
Mitigated Cancer Risk – School Receptor



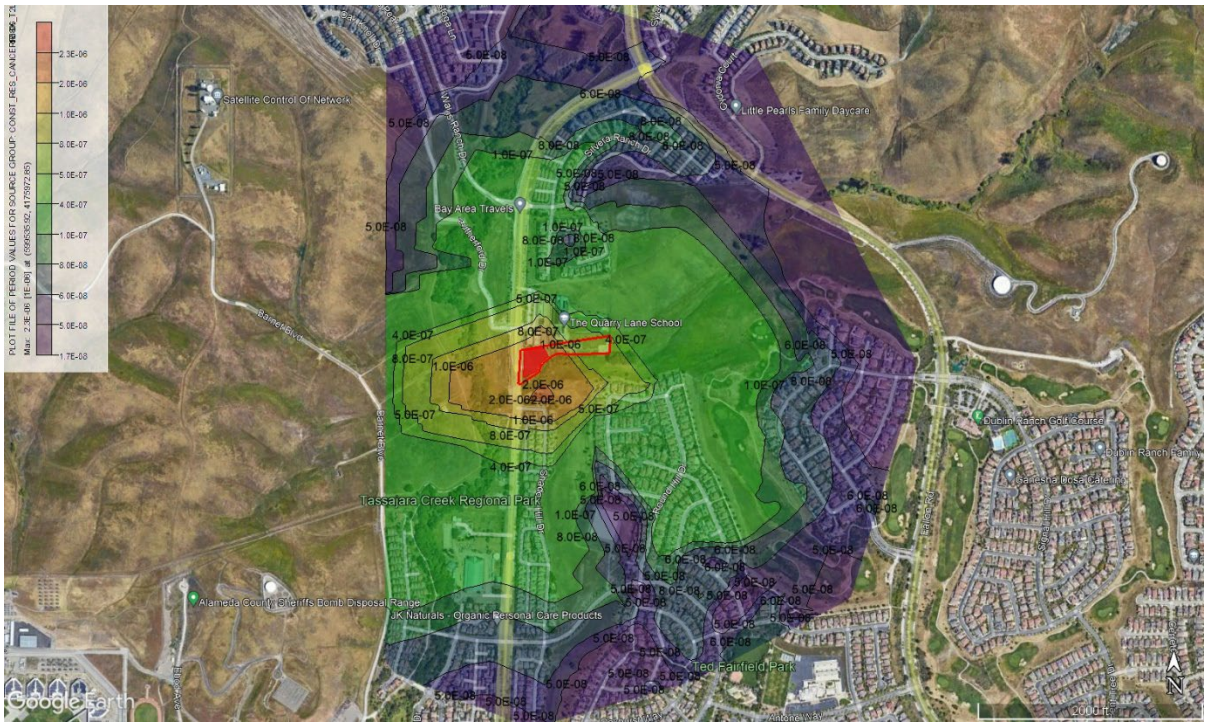
Mitigated Chronic Hazard Index – School Receptor



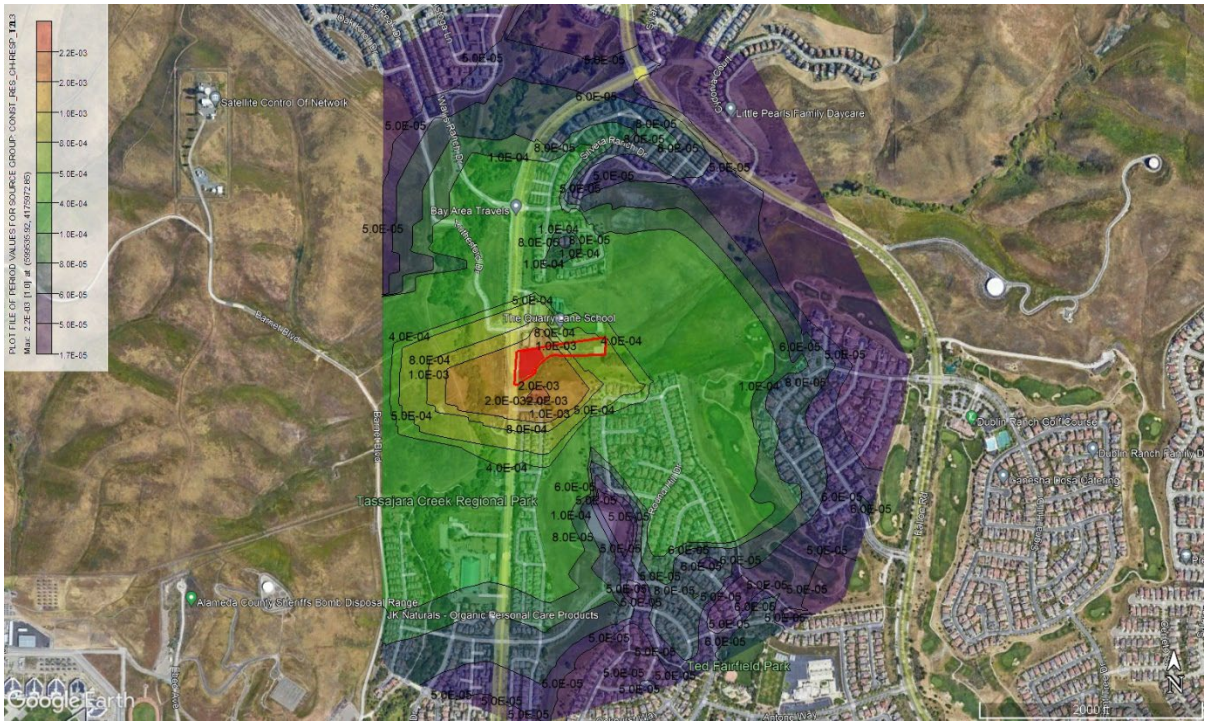
Mitigated $PM_{2.5}$ Concentration – School Receptor



Mitigated Cancer Risk – Residential Receptor



Mitigated Chronic Hazard Index – Residential Receptor



Mitigated $PM_{2.5}$ Concentration – Residential Receptor



Construction	School Receptor	Sensitive Receptor
Cancer Risk (in a Million)	15.16	14.55
Chronic HI	5.68E-02	1.49E-02
Acute HI	0.0	0.0
PM 2.5	0.284	0.074

Construction (T2)	School Receptor	Sensitive Receptor
Cancer Risk (in a Million)	15.16	14.55
Chronic HI	5.68E-02	1.49E-02
Acute HI	0.0	0.0
PM 2.5	0.284	0.074

Construction (T2L3)	School Receptor	Sensitive Receptor
Cancer Risk (in a Million)	2.34	2.25
Chronic HI	8.59E-03	2.25E-03
Acute HI	0.0	0.0
PM 2.5	0.046	0.012

Construction (T4)	School Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.99	0.95
Chronic HI	3.27E-03	8.57E-04
Acute HI	0.0	0.0
PM 2.5	0.024	0.006

PM 10				
Tons/Yr	UM	T2	T2L3	T4
Year 1	0.01912	0.01912	0.003111	1.62E-03
Year 2	0.05155	0.05155	7.80E-03	2.97E-03
Year 3	0	0	0	0

PM 2.5				
Tons/Yr	UM	T2	T2L3	T4
Year 1	0.01763	0.01763	0.002887	1.62E-03
Year 2	0.047635	0.047635	7.21E-03	2.97E-03
Year 3	0	0	0	0

PM 10				
Lbs /Yr	UM	T2	T2L3	T4
Year 1	38.24	38.24	6.221	3.247
Year 2	103.1	103.1	15.59	5.942
Year 3	0	0	0	0

PM 2.5				
Lbs /Yr	UM	T2	T2L3	T4
Year 1	35.26	35.26	5.774	3.247
Year 2	95.27	95.27	14.42	5.942
Year 3	0	0	0	0

PM 10				
% Chng	UM	M	T2L3	T4
Year 1	100%	100%	16%	8%
Year 2	100%	100%	15%	6%
Year 3	0%	0%	0%	0%

PM 2.5				
g/sec	UM	T2	T2L3	T4
Year 1	0.000507	0.000507	8.31E-05	4.67E-05
Year 2	0.00137	0.00137	0.000207	8.55E-05
Year 3	0	0	0	0

			UnMitigated				T2				T2L3				T4			
						1.46E-05				1.46E-05				2.25E-06				9.52E-07
			Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	599561.5	4176293	2.85E-07	7.09E-07	0.00E+00	9.94E-07	2.85E-07	7.09E-07	0.00E+00	9.94E-07	4.63E-08	1.07E-07	0.00E+00	1.54E-07	2.42E-08	4.09E-08	0.00E+00	6.50E-08
2	599570.7	4176294	2.86E-07	7.13E-07	0.00E+00	9.99E-07	2.86E-07	7.13E-07	0.00E+00	9.99E-07	4.66E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.11E-08	0.00E+00	6.54E-08
3	599580	4176296	2.94E-07	7.32E-07	0.00E+00	1.03E-06	2.94E-07	7.32E-07	0.00E+00	1.03E-06	4.78E-08	1.11E-07	0.00E+00	1.58E-07	2.49E-08	4.22E-08	0.00E+00	6.71E-08
4	599589.3	4176297	3.02E-07	7.53E-07	0.00E+00	1.05E-06	3.02E-07	7.53E-07	0.00E+00	1.05E-06	4.92E-08	1.14E-07	0.00E+00	1.63E-07	2.57E-08	4.34E-08	0.00E+00	6.90E-08
5	599598.6	4176299	3.08E-07	7.67E-07	0.00E+00	1.08E-06	3.08E-07	7.67E-07	0.00E+00	1.08E-06	5.01E-08	1.16E-07	0.00E+00	1.66E-07	2.62E-08	4.42E-08	0.00E+00	7.04E-08
6	599607.9	4176300	3.10E-07	7.72E-07	0.00E+00	1.08E-06	3.10E-07	7.72E-07	0.00E+00	1.08E-06	5.05E-08	1.17E-07	0.00E+00	1.67E-07	2.63E-08	4.45E-08	0.00E+00	7.09E-08
7	599617.2	4176302	3.09E-07	7.69E-07	0.00E+00	1.08E-06	3.09E-07	7.69E-07	0.00E+00	1.08E-06	5.03E-08	1.16E-07	0.00E+00	1.67E-07	2.62E-08	4.43E-08	0.00E+00	7.06E-08
8	599626.5	4176303	3.06E-07	7.61E-07	0.00E+00	1.07E-06	3.06E-07	7.61E-07	0.00E+00	1.07E-06	4.97E-08	1.15E-07	0.00E+00	1.65E-07	2.59E-08	4.38E-08	0.00E+00	6.98E-08
9	599635.8	4176304	3.00E-07	7.47E-07	0.00E+00	1.05E-06	3.00E-07	7.47E-07	0.00E+00	1.05E-06	4.88E-08	1.13E-07	0.00E+00	1.62E-07	2.55E-08	4.30E-08	0.00E+00	6.85E-08
10	599645.1	4176306	2.95E-07	7.34E-07	0.00E+00	1.03E-06	2.95E-07	7.34E-07	0.00E+00	1.03E-06	4.80E-08	1.11E-07	0.00E+00	1.59E-07	2.50E-08	4.23E-08	0.00E+00	6.73E-08
11	599654.4	4176307	2.94E-07	7.31E-07	0.00E+00	1.02E-06	2.94E-07	7.31E-07	0.00E+00	1.02E-06	4.78E-08	1.11E-07	0.00E+00	1.58E-07	2.49E-08	4.21E-08	0.00E+00	6.71E-08
12	599663.7	4176309	2.86E-07	7.12E-07	0.00E+00	9.98E-07	2.86E-07	7.12E-07	0.00E+00	9.98E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.10E-08	0.00E+00	6.53E-08
13	599673	4176310	2.82E-07	7.02E-07	0.00E+00	9.84E-07	2.82E-07	7.02E-07	0.00E+00	9.84E-07	4.59E-08	1.06E-07	0.00E+00	1.52E-07	2.39E-08	4.05E-08	0.00E+00	6.44E-08
14	599682.2	4176312	2.78E-07	6.92E-07	0.00E+00	9.70E-07	2.78E-07	6.92E-07	0.00E+00	9.70E-07	4.52E-08	1.05E-07	0.00E+00	1.50E-07	2.36E-08	3.99E-08	0.00E+00	6.35E-08
15	599559.9	4176302	2.51E-07	6.25E-07	0.00E+00	8.75E-07	2.51E-07	6.25E-07	0.00E+00	8.75E-07	4.08E-08	9.44E-08	0.00E+00	1.35E-07	2.13E-08	3.60E-08	0.00E+00	5.73E-08
16	599569.2	4176304	2.52E-07	6.27E-07	0.00E+00	8.79E-07	2.52E-07	6.27E-07	0.00E+00	8.79E-07	4.10E-08	9.48E-08	0.00E+00	1.36E-07	2.14E-08	3.61E-08	0.00E+00	5.75E-08
17	599578.5	4176305	2.57E-07	6.39E-07	0.00E+00	8.95E-07	2.57E-07	6.39E-07	0.00E+00	8.95E-07	4.17E-08	9.66E-08	0.00E+00	1.38E-07	2.18E-08	3.68E-08	0.00E+00	5.86E-08
18	599587.7	4176307	2.63E-07	6.54E-07	0.00E+00	9.17E-07	2.63E-07	6.54E-07	0.00E+00	9.17E-07	4.27E-08	9.89E-08	0.00E+00	1.42E-07	2.23E-08	3.77E-08	0.00E+00	6.00E-08
19	599597	4176308	2.67E-07	6.66E-07	0.00E+00	9.33E-07	2.67E-07	6.66E-07	0.00E+00	9.33E-07	4.35E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.84E-08	0.00E+00	6.11E-08
20	599606.3	4176310	2.70E-07	6.72E-07	0.00E+00	9.42E-07	2.70E-07	6.72E-07	0.00E+00	9.42E-07	4.39E-08	1.02E-07	0.00E+00	1.46E-07	2.29E-08	3.87E-08	0.00E+00	6.17E-08
21	599615.6	4176311	2.71E-07	6.75E-07	0.00E+00	9.46E-07	2.71E-07	6.75E-07	0.00E+00	9.46E-07	4.41E-08	1.02E-07	0.00E+00	1.46E-07	2.30E-08	3.89E-08	0.00E+00	6.19E-08
22	599624.9	4176313	2.74E-07	6.82E-07	0.00E+00	9.56E-07	2.74E-07	6.82E-07	0.00E+00	9.56E-07	4.46E-08	1.03E-07	0.00E+00	1.48E-07	2.33E-08	3.93E-08	0.00E+00	6.26E-08
23	599634.2	4176314	2.75E-07	6.85E-07	0.00E+00	9.60E-07	2.75E-07	6.85E-07	0.00E+00	9.60E-07	4.47E-08	1.04E-07	0.00E+00	1.48E-07	2.33E-08	3.95E-08	0.00E+00	6.28E-08
24	599643.5	4176316	2.74E-07	6.82E-07	0.00E+00	9.56E-07	2.74E-07	6.82E-07	0.00E+00	9.56E-07	4.46E-08	1.03E-07	0.00E+00	1.48E-07	2.33E-08	3.93E-08	0.00E+00	6.26E-08
25	599652.8	4176317	2.72E-07	6.78E-07	0.00E+00	9.50E-07	2.72E-07	6.78E-07	0.00E+00	9.50E-07	4.43E-08	1.02E-07	0.00E+00	1.47E-07	2.31E-08	3.90E-08	0.00E+00	6.22E-08
26	599662.1	4176319	2.68E-07	6.68E-07	0.00E+00	9.37E-07	2.68E-07	6.68E-07	0.00E+00	9.37E-07	4.37E-08	1.01E-07	0.00E+00	1.45E-07	2.28E-08	3.85E-08	0.00E+00	6.13E-08
27	599671.4	4176320	2.68E-07	6.67E-07	0.00E+00	9.35E-07	2.68E-07	6.67E-07	0.00E+00	9.35E-07	4.36E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.84E-08	0.00E+00	6.12E-08
28	599680.7	4176322	2.66E-07	6.61E-07	0.00E+00	9.27E-07	2.66E-07	6.61E-07	0.00E+00	9.27E-07	4.32E-08	1.00E-07	0.00E+00	1.43E-07	2.25E-08	3.81E-08	0.00E+00	6.07E-08
29	599558.3	4176312	2.22E-07	5.53E-07	0.00E+00	7.76E-07	2.22E-07	5.53E-07	0.00E+00	7.76E-07	3.62E-08	8.37E-08	0.00E+00	1.20E-07	1.89E-08	3.19E-08	0.00E+00	5.08E-08
30	599567.6	4176314	2.23E-07	5.55E-07	0.00E+00	7.78E-07	2.23E-07	5.55E-07	0.00E+00	7.78E-07	3.63E-08	8.40E-08	0.00E+00	1.20E-07	1.89E-08	3.20E-08	0.00E+00	5.09E-08
31	599576.9	4176315	2.26E-07	5.62E-07	0.00E+00	7.88E-07	2.26E-07	5.62E-07	0.00E+00	7.88E-07	3.67E-08	8.50E-08	0.00E+00	1.22E-07	1.92E-08	3.24E-08	0.00E+00	5.15E-08
32	599586.2	4176317	2.31E-07	5.74E-07	0.00E+00	8.05E-07	2.31E-07	5.74E-07	0.00E+00	8.05E-07	3.75E-08	8.69E-08	0.00E+00	1.24E-07	1.96E-08	3.31E-08	0.00E+00	5.27E-08
33	599595.5	4176318	2.35E-07	5.86E-07	0.00E+00	8.21E-07	2.35E-07	5.86E-07	0.00E+00	8.21E-07	3.83E-08	8.86E-08	0.00E+00	1.27E-07	2.00E-08	3.38E-08	0.00E+00	5.38E-08
34	599604.8	4176320	2.48E-07	6.17E-07	0.00E+00	8.65E-07	2.48E-07	6.17E-07	0.00E+00	8.65E-07	4.03E-08	9.33E-08	0.00E+00	1.34E-07	2.10E-08	3.55E-08	0.00E+00	5.66E-08
35	599614	4176321	2.51E-07	6.25E-07	0.00E+00	8.76E-07	2.51E-07	6.25E-07	0.00E+00	8.76E-07	4.08E-08	9.45E-08	0.00E+00	1.35E-07	2.13E-08	3.60E-08	0.00E+00	5.73E-08
36	599623.3	4176323	2.53E-07	6.29E-07	0.00E+00	8.82E-07	2.53E-07	6.29E-07	0.00E+00	8.82E-07	4.11E-08	9.51E-08	0.00E+00	1.36E-07	2.15E-08	3.63E-08	0.00E+00	5.77E-08
37	599632.6	4176324	2.53E-07	6.30E-07	0.00E+00	8.83E-07	2.53E-07	6.30E-07	0.00E+00	8.83E-07	4.11E-08	9.52E-08	0.00E+00	1.36E-07	2.15E-08	3.63E-08	0.00E+00	5.78E-08
38	599641.9	4176326	2.55E-07	6.35E-07	0.00E+00	8.90E-07	2.55E-07	6.35E-07	0.00E+00	8.90E-07	4.15E-08	9.60E-08	0.00E+00	1.38E-07	2.17E-08	3.66E-08	0.00E+00	5.82E-08
39	599651.2	4176327	2.56E-07	6.39E-07	0.00E+00	8.95E-07	2.56E-07	6.39E-07	0.00E+00	8.95E-07	4.17E-08	9.66E-08	0.00E+00	1.38E-07	2.18E-08	3.68E-08	0.00E+00	5.86E-08
40	599660.5	4176329	2.53E-07	6.30E-07	0.00E+00	8.83E-07	2.53E-07	6.30E-07	0.00E+00	8.83E-07	4.11E-08	9.52E-08	0.00E+00	1.36E-07	2.15E-08	3.63E-08	0.00E+00	5.78E-08
41	599669.8	4176330	2.51E-07	6.26E-07	0.00E+00	8.77E-07	2.51E-07	6.26E-07	0.00E+00	8.77E-07	4.09E-08	9.46E-08	0.00E+00	1.36E-07	2.13E-08	3.61E-08	0.00E+00	5.74E-08
42	599679.1	4176332	2.49E-07	6.20E-07	0.00E+00	8.69E-07	2.49E-07	6.20E-07	0.00E+00	8.69E-07	4.05E-08	9.37E-08	0.00E+00	1.34E-07	2.11E-08	3.57E-08	0.00E+00	5.69E-08
43	599556.7	4176322	2.02E-07	5.04E-07	0.00E+00	7.06E-07	2.02E-07	5.04E-07	0.00E+00	7.06E-07	3.29E-08	7.61E-08	0.00E+00	1.09E-07	1.72E-08	2.90E-08	0.00E+00	4.62E-08
44	599566	4176324	2.03E-07	5.06E-07	0.00E+00	7.09E-07	2.03E-07	5.06E-07	0.00E+00	7.09E-07	3.31E-08	7.65E-08	0.00E+00	1.10E-07	1.73E-08	2.92E-08	0.00E+00	4.64E-08
45	599575.3	4176325	2.05E-07	5.12E-07	0.00E+00	7.17E-07	2.05E-07	5.12E-07	0.00E+00	7.17E-07	3.34E-08	7.74E-08	0.00E+00	1.11E-07	1.74E-08	2.95E-08	0.00E+00	4.69E-08
46	599584.6	4176327	2.09E-07	5.21E-07	0.00E+00	7.31E-07	2.09E-07	5.21E-07	0.00E+00	7.31E-07	3.41E-08	7.88E-08	0.00E+00	1.13E-07	1.78E-08	3.00E-08	0.00E+00	4.78E-08
47	599593.9	4176328	2.13E-07	5.31E-07	0.00E+00	7.44E-07	2.13E-07	5.31E-07	0.00E+00	7.44E-07	3.47E-08	8.03E-08	0.00E+00	1.15E-07	1.81E-08	3.06E-08	0.00E+00	4.87E-08
48	599603.2	4176330	2.24E-07	5.58E-07	0.00E+00	7.82E-07	2.24E-07	5.58E-07	0.00E+00	7.82E-07	3.64E-08	8.43E-08	0.00E+00	1.21E-07	1.90E-08	3.21E-08	0.00E+00	5.12E-08
49	599612.5	4176331	2.28E-07	5.68E-07	0.00E+00	7.96E-07	2.28E-07	5.68E-07	0.00E+00	7.96E-07	3.71E-08	8.59E-08	0.00E+00	1.23E-07	1.94E-08	3.27E-08	0.00E+00	5.21E-08
50	599621.8	4176333	2.31E-07	5.75E-07	0.00E+00	8.06E-07	2.31E-07	5.75E-07	0.00E+00	8.06E-07	3.76E-08	8.70E-08	0.00E+00	1.25E-07	1.96E-08	3.32E-08	0.00E+00	5.28E-08
51	599631.1	4176334	2.33E-07	5.80E-07	0.00E+00	8.12E-07	2.33E-07	5.80E-07	0.00E+00	8.12E-07	3.79E-08	8.76E-08	0.00E+00	1.25E-07	1.98E-08	3.34E-08	0.00E+00	5.32E-08
52	599640.3	4176336	2.37E-07	5.89E-07	0.00E+00	8.26E-07	2.37E-07	5.89E-07	0.00E+00	8.26E-07	3.85E-08	8.91E-08	0.00E+00	1.28E-07	2.01E-08	3.40E-08	0.00E+00	5.41E-08
53	599649.6	4176337	2.41E-07	6.00E-07	0.00E+00	8.41E-07	2.41E-07	6.00E-07	0.00E+00	8.41E-07	3.92E-08	9.08E-08	0.00E+00	1.30E-07	2.05E-08	3.46E-08	0.00E+00	5.51E-08
54	599658.9	4176339	2.38E-07	5.93E-07	0.00E+00	8.31E-07	2.38E-07	5.93E-07	0.00E+00	8.31E-07	3.87E-08	8.96E-08	0.00E+00	1.28E-07	2.02E-08	3.42E-08	0.00E+00	5.44E-08
55	599668.2	4176340	2.39E-07	5.94E-07	0.00E+00	8.33E-07	2.39E-07	5.94E-07	0.00E+00	8.33E-07	3.88E-08	8.99E-08	0.00E+00	1.29E-07	2.03E-08	3.43E-08	0.00E+00	5.45E-08
56	599677.5	4176342	2.39E-07	5.94E-07	0.00E+00	8.33E-07	2.39E-07	5.94E-07	0.00E+00	8.33E-07	3.88E-08	8.98E-08	0.00E+00	1.29E-07	2.03E-08	3.42E-08	0.00E+00	5.45E-08
57	599555.1	4176332	1.87E-07	4.66E-07	0.00E+00	6.53E-07	1.87E-07	4.66E-07	0.00E+00	6.53E-07	3.05E-08	7.05E-08	0.00E+00	1.01E-07	1.59E-08	2.69E-08	0.00E+00	4.28E-08
58	599564.4	4176334	1.87E-07	4.67E-07	0.00E+00	6.54E-07	1.87E-07	4.67E-07	0.00E+00	6.54E-07	3.05E-08	7.05E-08	0.00E+00	1.01E-07	1.59E-08	2.69E-08	0.00E+00	4.28E-08
59	599573.7	4176335	1.88E-07	4.69E-07	0.00E+00	6.58E-07	1.88E-07	4.69E-07	0.00E+00	6.58E-07	3.07E-08	7.10E-08	0.00E+00	1.02E-07	1.60E-08	2.70E-08	0.00E+00	4.31E-08
60	599583	4176337	1.91E-07	4.76E-07	0.00E+00	6.67E-07	1.91E-07	4.76E-07	0.00E+00	6.67E-07	3.11E-08	7.19E-08	0.00E+00	1.03E-07	1.62E-08	2.74E-08	0.00E+00	4.36E-08
61	599592.3	4176338	1.94E-07	4.83E-07	0.00E+00	6.76E-07	1.94E-07	4.83E-07	0.00E+00	6.76E-07	3.15E-08	7.30E-08	0.00E+00	1.05E-07	1.65E-08	2.78E-08	0.00E+00	4.43E-08
62	599601.6	4176340	2.01E-07	5.02E-07	0.00E+00	7.03E-07	2.01E-07	5.02E-07	0.00E+00	7.03E-07	3.28E-08	7.58E-08	0.00E+00	1.09E-07	1.71E-08	2.89E-08	0.00E+00	4.60E-08
63	599610.9	4176341	2.07E-07	5.17E-07	0.00E+00	7.24E-07	2.07E-07	5.17E-07	0.00E+00	7.24E-07	3.37E-08	7.81E-08	0.00E+00	1.12E-07	1.76E-08	2.98E-08	0.00E+00	4.74E-08
64	599620.2	4176342	2.11E-07	5.26E-07	0.00E+00	7.37E-07	2.11E-07	5.26E-07	0.00E+00	7.37E-07	3.44E-08	7.95E-08	0.00E+00	1.14E-07	1.79E-08	3.03E-08	0.00E+00	4.82E-08
65	599629.5	4176344	2.14E-07	5.33E-07	0.00E+00	7.47E-07	2.14E-07	5.33E-07	0.00E+00	7.47E-07	3.48E-08	8.06E-08	0.00E+00	1.15E-07	1.82E-08	3.07E-08	0.00E+00	4.89E-08
66	599638.8	4176345	2.17E-07	5.41E-07	0.00E+00	7.58E-07	2.17E-07	5.41E-07	0.00E+00	7.58E-07	3.53E-08	8.18E-08	0.00E+00	1.17E-07	1.84E-08	3.12E-08	0.00E+00	4.96E-08
67	599648.1	4176347	2.21E-07	5.51E-07	0.00E+00	7.72E-07	2.21E-07	5.51E-07	0.00E+00	7.72E-07	3.60E-08	8.33E-08	0.00E+00	1.19E-07	1.88E-08	3.17E-08	0.00E+00	5.05E-08
68	599657.3	4176348	2.26E-07	5.63E-07	0.00E+00	7.89E-07	2.26E-07	5.63E-07	0.00E+00	7.89E-07	3.68E-08	8.51E-08	0.00E+00	1.22E-07	1.92E-08	3.24E-08	0.00E+00	5.16E-08
69	599666.6	4176350	2.31E-07	5.76E-07	0.00E+00	8.07E-07	2.31E-07	5.76E-07	0.00E+00	8.07E-07	3.76E-08	8.71E-08	0.00E+00	1.25E-07	1.96E-08	3.32E-08	0.00E+00	5.28E-08
70	599675.9	4176351	2.33E-07	5.80E-07	0.00E+00	8.12E-07	2.33E-07	5.80E-07	0.00E+00	8.12E-07	3.79E-08	8.76E-08	0.00E+00	1.26E-07	1.98E-08	3.34E-08	0.00E+00	5.32E-08
71	599553.6	4176342	1.74E-07	4.34E-07	0.00E+00	6.08E-07	1.74E-07	4.34E-07	0.00E+00	6.08E-07	2.84E-08	6.56E-08	0.00E+00	9.40E-08	1.48E-08	2.50E-08	0.00E+00	3.98E-08
72	599562.9	4176343	1.74E-07	4.32E-07	0.00E+00	6.06E-07	1.74E-07	4.32E-07	0.00E+00	6.06E-07	2.82E-08	6.54E-08	0.00E+00	9.36E-08	1.47E-08	2.49E-08	0.00E+00	3.97E-08
73	599572.1	4176345	1.74E-07	4.33E-07	0.00E+00	6.07E-07	1.74E-07	4.33E-07	0.00E+00	6.07E-07	2.83E-08	6.55E-08	0.00E+00	9.38E-08	1.48E-08	2.50E-08	0.00E+00	3.98E-08
74	599581.4	4176346	1.76E-07	4.37E-07	0.00E+00	6.13E-07	1.76E-07	4.37E-07	0.00E+00	6.13E-07	2.86E-08	6.61E-08	0.00E+00	9.47E-08	1.49E-08	2.52E-08	0.00E+00	4.01E-08
75	599590.7	4176348	1.78E-07	4.43E-07	0.00E+00	6.21E-07	1.78E-07	4.43E-07	0.00E+00	6.21E-07	2.89E-08	6.70E-08	0.00E+00	9.59E-08	1.51E-08	2.55E-08	0.00E+00	4.06E-08
76	599600	4176349	1.85E-07	4.60E-07	0.00E+00	6.44E-07	1.85E-07	4.60E-07	0.00E+00	6.44E-07	3.00E-08	6.95E-08	0.00E+00	9.96E-08	1.57E-08	2.65E-08	0.00E+00	4.22E-08
77	599609.3	4176351	1.91E-07	4.76E-07	0.00E+00	6.67E-07	1.91E-07	4.76E-07	0.00E+00	6.67E-07	3.11E-08	7.20E-08	0.00E+00	1.03E-07	1.62E-08	2.74E-08	0.00E+00	4.37E-08
78	599618.6	4176352	1.93E-07	4.80E-07	0.00E+00	6.72E-07	1.93E-07	4.80E-07	0.00E+00	6.72E-07	3.13E-08	7.26E-08	0.00E+00	1.04E-07	1.64E-08	2.77E-08	0.00E+00	4.40E-08
79	599627.9	4176354	1.98E-07	4.93E-07	0.00E+00	6.91E-07	1.98E-07	4.93E-07	0.00E+00	6.91E-07	3.22E-08	7.45E-08	0.00E+00	1.07E-07	1.68E-08	2.84E-08	0.00E+00	4.52E-08
80	599637.2	4176355	2.03E-07	5.05E-07	0.00E+00	7.08E-07	2.03E-07	5.05E-07	0.00E+00	7.08E-07	3.30E-08	7.64E-08	0.00E+00	1.09E-07	1.72E-08	2.91E-08	0.00E+00	4.63E-08
81	599646.5	4176357	2.10E-07	5.23E-07	0.00E+00	7.34E-07	2.10E-07	5.23E-07	0.00E+00	7.34E-07	3.42E-08	7.92E-08	0.00E+00	1.13E-07	1.79E-08	3.02E-08	0.00E+00	4.80E-08
82	599655.8	4176358	2.20E-07	5.47E-07	0.00E+00	7.66E-07	2.20E-07	5.47E-07	0.00E+00	7.66E-07	3.57E-08	8.27E-08	0.00E+00	1.18E-07	1.86E-08	3.15E-08	0.00E+00	5.02E-08
83	599665.1	4176360	2.29E-07	5.69E-07	0.00E+00	7.97E-07	2.29E-07	5.69E-07	0.00E+00	7.97E-07	3.72E-08	8.60E-08	0.00E+00	1.23E-07	1.94E-08	3.28E-08	0.00E+00	5.22E-08
84	599674.4	4176361	2.31E-07	5.75E-07	0.00E+00	8.06E-07	2.31E-07	5.75E-07	0.00E+00	8.06E-07	3.76E-08	8.70E-08	0.00E+00	1.25E-07	1.96E-08	3.31E-08	0.00E+00	5.28E-08
85	599552	4176352	1.70E-07	4.22E-07	0.00E+00	5.92E-07	1.70E-07	4.22E-07	0.00E+00	5.92E-07	2.76E-08	6.39E-08	0.00E+00	9.15E-08	1.44E-08	2.43E-08	0.00E+00	3.87E-08
86	599561.3	4176353	1.68E-07	4.18E-07	0.00E+00	5.86E-07	1.68E-07	4.18E-07	0.00E+00	5.86E-07	2.73E-08	6.32E-08	0.00E+00	9.05E-08	1.43E-08	2.41E-08	0.00E+00	3.83E-08
87	599570.6	4176355	1.67E-07	4.16E-07	0.00E+00	5.83E-07	1.67E-07	4.16E-07	0.00E+00	5.83E-07	2.72E-08	6.29E-08	0.00E+00	9.01E-08	1.42E-08	2.40E-08	0.00E+00	3.81E-08
88	599579.9	4176356	1.67E-07	4.16E-07	0.00E+00	5.83E-07	1.67E-07	4.16E-07	0.00E+00	5.83E-07	2.72E-08	6.29E-08	0.00E+00	9.00E-08	1.42E-08	2.40E-08	0.00E+00	3.81E-08
89	599589.2	4176358	1.67E-07	4.17E-07	0.00E+00	5.84E-07	1.67E-07	4.17E-07	0.00E+00	5.84E-07	2.72E-08	6.30E-08	0.00E+00	9.03E-08	1.42E-08	2.40E-08	0.00E+00	3.82E-08
90	599598.4	4176359	1.68E-07	4.20E-07	0.00E+00	5.88E-07	1.68E-07	4.20E-07	0.00E+00	5.88E-07	2.74E-08	6.34E-08	0.00E+00	9.08E-08	1.43E-08	2.42E-08	0.00E+00	3.85E-08
91	599607.7	4176361	1.78E-07	4.44E-07	0.00E+00	6.23E-07	1.78E-07	4.44E-07	0.00E+00	6.23E-07	2.90E-08	6.72E-08	0.00E+00	9.62E-08	1.52E-08	2.56E-08	0.00E+00	4.08E-08
92	599617	4176362	1.79E-07	4.45E-07	0.00E+00	6.23E-07	1.79E-07	4.45E-07	0.00E+00	6.23E-07	2.90E-08	6.72E-08	0.00E+00	9.63E-08	1.52E-08	2.56E-08	0.00E+00	4.08E-08
93	599626.3	4176364	1.84E-07	4.59E-07	0.00E+00	6.43E-07	1.84E-07	4.59E-07	0.00E+00	6.43E-07	3.00E-08	6.93E-08	0.00E+00	9.93E-08	1.56E-08	2.64E-08	0.00E+00	4.21E-08
94	599635.6	4176365	1.91E-07	4.75E-07	0.00E+00	6.66E-07	1.91E-07	4.75E-07	0.00E+00	6.66E-07	3.10E-08	7.18E-08	0.00E+00	1.03E-07	1.62E-08	2.74E-08	0.00E+00	4.36E-08
95	599644.9	4176367	2.02E-07	5.03E-07	0.00E+00	7.04E-07	2.02E-07	5.03E-07	0.00E+00	7.04E-07	3.28E-08	7.60E-08	0.00E+00	1.09E-07	1.71E-08	2.90E-08	0.00E+00	4.61E-08
96	599654.2	4176368	2.14E-07	5.33E-07	0.00E+00	7.47E-07	2.14E-07	5.33E-07	0.00E+00	7.47E-07	3.48E-08	8.06E-08	0.00E+00	1.15E-07	1.82E-08	3.07E-08	0.00E+00	4.89E-08
97	599663.5	4176370	2.28E-07	5.68E-07	0.00E+00	7.96E-07	2.28E-07	5.68E-07	0.00E+00	7.96E-07	3.71E-08	8.59E-08	0.00E+00	1.23E-07	1.94E-08	3.27E-08	0.00E+00	5.21E-08
98	599672.8	4176371	2.32E-07	5.77E-07	0.00E+00	8.09E-07	2.32E-07	5.77E-07	0.00E+00	8.09E-07	3.77E-08	8.73E-08	0.00E+00	1.25E-07	1.97E-08	3.33E-08	0.00E+00	5.29E-08
99	599550.4	4176362	1.73E-07	4.30E-07	0.00E+00	6.02E-07	1.73E-07	4.30E-07	0.00E+00	6.02E-07	2.81E-08	6.50E-08	0.00E+00	9.31E-08	1.47E-08	2.48E-08	0.00E+00	3.94E-08
100	599559.7	4176363	1.67E-07	4.16E-07	0.00E+00	5.83E-07	1.67E-07	4.16E-07	0.00E+00	5.83E-07	2.72E-08	6.29E-08	0.00E+00	9.01E-08	1.42E-08	2.40E-08	0.00E+00	3.82E-08
101	599569	4176365	1.63E-07	4.06E-07	0.00E+00	5.69E-07	1.63E-07	4.06E-07	0.00E+00	5.69E-07	2.65E-08	6.14E-08	0.00E+00	8.80E-08	1.39E-08	2.34E-08	0.00E+00	3.73E-08
102	599578.3	4176366	1.61E-07	4.00E-07	0.00E+00	5.60E-07	1.61E-07	4.00E-07	0.00E+00	5.60E-07	2.61E-08	6.04E-08	0.00E+00	8.66E-08	1.36E-08	2.30E-08	0.00E+00	3.67E-08
103	599587.6	4176368	1.59E-07	3.96E-07	0.00E+00	5.55E-07	1.59E-07	3.96E-07	0.00E+00	5.55E-07	2.59E-08	5.99E-08	0.00E+00	8.58E-08	1.35E-08	2.28E-08	0.00E+00	3.63E-08
104	599596.9	4176369	1.59E-07	3.95E-07	0.00E+00	5.53E-07	1.59E-07	3.95E-07	0.00E+00	5.53E-07	2.58E-08	5.97E-08	0.00E+00	8.55E-08	1.35E-08	2.28E-08	0.00E+00	3.62E-08
105	599606.2	4176371	1.67E-07	4.16E-07	0.00E+00	5.83E-07	1.67E-07	4.16E-07	0.00E+00	5.83E-07	2.72E-08	6.29E-08	0.00E+00	9.01E-08	1.42E-08	2.40E-08	0.00E+00	3.82E-08
106	599615.4	4176372	1.68E-07	4.17E-07	0.00E+00	5.85E-07	1.68E-07	4.17E-07	0.00E+00	5.85E-07	2.73E-08	6.31E-08	0.00E+00	9.03E-08	1.42E-08	2.40E-08	0.00E+00	3.83E-08
107	599624.7	4176374	1.74E-07	4.34E-07	0.00E+00	6.09E-07	1.74E-07	4.34E-07	0.00E+00	6.09E-07	2.84E-08	6.56E-08	0.00E+00	9.40E-08	1.48E-08	2.50E-08	0.00E+00	3.98E-08

108	599634	4176375	1.81E-07	4.51E-07	0.00E+00	6.32E-07	1.81E-07	4.51E-07	0.00E+00	6.32E-07	2.95E-08	6.82E-08	0.00E+00	9.76E-08	1.54E-08	2.60E-08	0.00E+00	4.14E-08
109	599643.3	4176377	1.95E-07	4.85E-07	0.00E+00	6.79E-07	1.95E-07	4.85E-07	0.00E+00	6.79E-07	3.17E-08	7.33E-08	0.00E+00	1.05E-07	1.65E-08	2.79E-08	0.00E+00	4.44E-08
110	599652.6	4176378	2.10E-07	5.22E-07	0.00E+00	7.32E-07	2.10E-07	5.22E-07	0.00E+00	7.32E-07	3.41E-08	7.90E-08	0.00E+00	1.13E-07	1.78E-08	3.01E-08	0.00E+00	4.79E-08
111	599661.9	4176380	2.27E-07	5.65E-07	0.00E+00	7.92E-07	2.27E-07	5.65E-07	0.00E+00	7.92E-07	3.69E-08	8.54E-08	0.00E+00	1.22E-07	1.93E-08	3.26E-08	0.00E+00	5.18E-08
112	599671.2	4176381	2.32E-07	5.77E-07	0.00E+00	8.09E-07	2.32E-07	5.77E-07	0.00E+00	8.09E-07	3.77E-08	8.72E-08	0.00E+00	1.25E-07	1.97E-08	3.33E-08	0.00E+00	5.29E-08
113	599548.8	4176372	1.81E-07	4.51E-07	0.00E+00	6.32E-07	1.81E-07	4.51E-07	0.00E+00	6.32E-07	2.94E-08	6.81E-08	0.00E+00	9.76E-08	1.54E-08	2.60E-08	0.00E+00	4.13E-08
114	599558.1	4176373	1.70E-07	4.23E-07	0.00E+00	5.93E-07	1.70E-07	4.23E-07	0.00E+00	5.93E-07	2.76E-08	6.39E-08	0.00E+00	9.16E-08	1.44E-08	2.44E-08	0.00E+00	3.88E-08
115	599567.4	4176375	1.62E-07	4.04E-07	0.00E+00	5.66E-07	1.62E-07	4.04E-07	0.00E+00	5.66E-07	2.64E-08	6.10E-08	0.00E+00	8.74E-08	1.38E-08	2.33E-08	0.00E+00	3.70E-08
116	599576.7	4176376	1.56E-07	3.90E-07	0.00E+00	5.46E-07	1.56E-07	3.90E-07	0.00E+00	5.46E-07	2.55E-08	5.89E-08	0.00E+00	8.44E-08	1.33E-08	2.25E-08	0.00E+00	3.57E-08
117	599586	4176378	1.53E-07	3.80E-07	0.00E+00	5.33E-07	1.53E-07	3.80E-07	0.00E+00	5.33E-07	2.49E-08	5.75E-08	0.00E+00	8.24E-08	1.30E-08	2.19E-08	0.00E+00	3.49E-08
118	599595.3	4176379	1.51E-07	3.76E-07	0.00E+00	5.27E-07	1.51E-07	3.76E-07	0.00E+00	5.27E-07	2.45E-08	5.68E-08	0.00E+00	8.14E-08	1.28E-08	2.17E-08	0.00E+00	3.45E-08
119	599604.6	4176381	1.51E-07	3.76E-07	0.00E+00	5.27E-07	1.51E-07	3.76E-07	0.00E+00	5.27E-07	2.46E-08	5.68E-08	0.00E+00	8.14E-08	1.28E-08	2.17E-08	0.00E+00	3.45E-08
120	599613.9	4176382	1.59E-07	3.97E-07	0.00E+00	5.56E-07	1.59E-07	3.97E-07	0.00E+00	5.56E-07	2.59E-08	6.00E-08	0.00E+00	8.59E-08	1.35E-08	2.29E-08	0.00E+00	3.64E-08
121	599623.2	4176383	1.68E-07	4.19E-07	0.00E+00	5.87E-07	1.68E-07	4.19E-07	0.00E+00	5.87E-07	2.74E-08	6.34E-08	0.00E+00	9.08E-08	1.43E-08	2.42E-08	0.00E+00	3.84E-08
122	599632.5	4176385	1.78E-07	4.42E-07	0.00E+00	6.20E-07	1.78E-07	4.42E-07	0.00E+00	6.20E-07	2.89E-08	6.68E-08	0.00E+00	9.57E-08	1.51E-08	2.55E-08	0.00E+00	4.05E-08
123	599641.7	4176386	1.91E-07	4.77E-07	0.00E+00	6.68E-07	1.91E-07	4.77E-07	0.00E+00	6.68E-07	3.11E-08	7.21E-08	0.00E+00	1.03E-07	1.63E-08	2.75E-08	0.00E+00	4.37E-08
124	599651	4176388	2.07E-07	5.16E-07	0.00E+00	7.24E-07	2.07E-07	5.16E-07	0.00E+00	7.24E-07	3.37E-08	7.81E-08	0.00E+00	1.12E-07	1.76E-08	2.98E-08	0.00E+00	4.74E-08
125	599660.3	4176389	2.25E-07	5.61E-07	0.00E+00	7.87E-07	2.25E-07	5.61E-07	0.00E+00	7.87E-07	3.67E-08	8.49E-08	0.00E+00	1.22E-07	1.91E-08	3.24E-08	0.00E+00	5.15E-08
126	599669.6	4176391	2.31E-07	5.75E-07	0.00E+00	8.06E-07	2.31E-07	5.75E-07	0.00E+00	8.06E-07	3.76E-08	8.69E-08	0.00E+00	1.24E-07	1.96E-08	3.31E-08	0.00E+00	5.27E-08
127	599547.3	4176381	1.93E-07	4.80E-07	0.00E+00	6.72E-07	1.93E-07	4.80E-07	0.00E+00	6.72E-07	3.13E-08	7.25E-08	0.00E+00	1.04E-07	1.64E-08	2.76E-08	0.00E+00	4.40E-08
128	599556.5	4176383	1.74E-07	4.33E-07	0.00E+00	6.07E-07	1.74E-07	4.33E-07	0.00E+00	6.07E-07	2.83E-08	6.55E-08	0.00E+00	9.38E-08	1.48E-08	2.50E-08	0.00E+00	3.97E-08
129	599565.8	4176384	1.61E-07	4.02E-07	0.00E+00	5.64E-07	1.61E-07	4.02E-07	0.00E+00	5.64E-07	2.63E-08	6.08E-08	0.00E+00	8.71E-08	1.37E-08	2.32E-08	0.00E+00	3.69E-08
130	599575.1	4176386	1.53E-07	3.82E-07	0.00E+00	5.35E-07	1.53E-07	3.82E-07	0.00E+00	5.35E-07	2.49E-08	5.77E-08	0.00E+00	8.26E-08	1.30E-08	2.20E-08	0.00E+00	3.50E-08
131	599584.4	4176387	1.48E-07	3.70E-07	0.00E+00	5.18E-07	1.48E-07	3.70E-07	0.00E+00	5.18E-07	2.41E-08	5.59E-08	0.00E+00	8.00E-08	1.26E-08	2.13E-08	0.00E+00	3.39E-08
132	599593.7	4176389	1.46E-07	3.62E-07	0.00E+00	5.08E-07	1.46E-07	3.62E-07	0.00E+00	5.08E-07	2.37E-08	5.48E-08	0.00E+00	7.85E-08	1.24E-08	2.09E-08	0.00E+00	3.32E-08
133	599603	4176390	1.44E-07	3.58E-07	0.00E+00	5.02E-07	1.44E-07	3.58E-07	0.00E+00	5.02E-07	2.34E-08	5.42E-08	0.00E+00	7.76E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
134	599612.3	4176392	1.53E-07	3.82E-07	0.00E+00	5.35E-07	1.53E-07	3.82E-07	0.00E+00	5.35E-07	2.49E-08	5.77E-08	0.00E+00	8.27E-08	1.30E-08	2.20E-08	0.00E+00	3.50E-08
135	599621.6	4176393	1.64E-07	4.09E-07	0.00E+00	5.73E-07	1.64E-07	4.09E-07	0.00E+00	5.73E-07	2.67E-08	6.18E-08	0.00E+00	8.86E-08	1.39E-08	2.36E-08	0.00E+00	3.75E-08
136	599630.9	4176395	1.76E-07	4.39E-07	0.00E+00	6.16E-07	1.76E-07	4.39E-07	0.00E+00	6.16E-07	2.87E-08	6.64E-08	0.00E+00	9.51E-08	1.50E-08	2.53E-08	0.00E+00	4.03E-08
137	599640.2	4176396	1.91E-07	4.76E-07	0.00E+00	6.68E-07	1.91E-07	4.76E-07	0.00E+00	6.68E-07	3.11E-08	7.20E-08	0.00E+00	1.03E-07	1.62E-08	2.74E-08	0.00E+00	4.37E-08
138	599649.5	4176398	2.08E-07	5.18E-07	0.00E+00	7.26E-07	2.08E-07	5.18E-07	0.00E+00	7.26E-07	3.39E-08	7.84E-08	0.00E+00	1.12E-07	1.77E-08	2.99E-08	0.00E+00	4.75E-08
139	599658.8	4176399	2.27E-07	5.66E-07	0.00E+00	7.93E-07	2.27E-07	5.66E-07	0.00E+00	7.93E-07	3.69E-08	8.55E-08	0.00E+00	1.22E-07	1.93E-08	3.26E-08	0.00E+00	5.19E-08
140	599668	4176401	2.34E-07	5.82E-07	0.00E+00	8.16E-07	2.34E-07	5.82E-07	0.00E+00	8.16E-07	3.80E-08	8.80E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.34E-08
141	599545.7	4176391	2.07E-07	5.16E-07	0.00E+00	7.23E-07	2.07E-07	5.16E-07	0.00E+00	7.23E-07	3.37E-08	7.80E-08	0.00E+00	1.12E-07	1.76E-08	2.97E-08	0.00E+00	4.73E-08
142	599555	4176393	1.81E-07	4.50E-07	0.00E+00	6.31E-07	1.81E-07	4.50E-07	0.00E+00	6.31E-07	2.94E-08	6.81E-08	0.00E+00	9.75E-08	1.53E-08	2.59E-08	0.00E+00	4.13E-08
143	599564.3	4176394	1.63E-07	4.06E-07	0.00E+00	5.70E-07	1.63E-07	4.06E-07	0.00E+00	5.70E-07	2.66E-08	6.15E-08	0.00E+00	8.80E-08	1.39E-08	2.34E-08	0.00E+00	3.73E-08
144	599573.5	4176396	1.51E-07	3.77E-07	0.00E+00	5.29E-07	1.51E-07	3.77E-07	0.00E+00	5.29E-07	2.46E-08	5.70E-08	0.00E+00	8.17E-08	1.29E-08	2.17E-08	0.00E+00	3.46E-08
145	599582.8	4176397	1.46E-07	3.63E-07	0.00E+00	5.08E-07	1.46E-07	3.63E-07	0.00E+00	5.08E-07	2.37E-08	5.48E-08	0.00E+00	7.85E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
146	599592.1	4176399	1.42E-07	3.53E-07	0.00E+00	4.94E-07	1.42E-07	3.53E-07	0.00E+00	4.94E-07	2.30E-08	5.33E-08	0.00E+00	7.64E-08	1.20E-08	2.03E-08	0.00E+00	3.24E-08
147	599601.4	4176400	1.39E-07	3.47E-07	0.00E+00	4.86E-07	1.39E-07	3.47E-07	0.00E+00	4.86E-07	2.27E-08	5.25E-08	0.00E+00	7.51E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08
148	599610.7	4176402	1.48E-07	3.69E-07	0.00E+00	5.17E-07	1.48E-07	3.69E-07	0.00E+00	5.17E-07	2.41E-08	5.58E-08	0.00E+00	7.98E-08	1.26E-08	2.12E-08	0.00E+00	3.38E-08
149	599620	4176403	1.62E-07	4.02E-07	0.00E+00	5.64E-07	1.62E-07	4.02E-07	0.00E+00	5.64E-07	2.63E-08	6.09E-08	0.00E+00	8.72E-08	1.37E-08	2.32E-08	0.00E+00	3.69E-08
150	599629.3	4176405	1.78E-07	4.43E-07	0.00E+00	6.21E-07	1.78E-07	4.43E-07	0.00E+00	6.21E-07	2.89E-08	6.70E-08	0.00E+00	9.59E-08	1.51E-08	2.55E-08	0.00E+00	4.06E-08
151	599638.6	4176406	1.95E-07	4.87E-07	0.00E+00	6.82E-07	1.95E-07	4.87E-07	0.00E+00	6.82E-07	3.18E-08	7.36E-08	0.00E+00	1.05E-07	1.66E-08	2.80E-08	0.00E+00	4.46E-08
152	599647.9	4176408	2.12E-07	5.27E-07	0.00E+00	7.38E-07	2.12E-07	5.27E-07	0.00E+00	7.38E-07	3.44E-08	7.97E-08	0.00E+00	1.14E-07	1.80E-08	3.04E-08	0.00E+00	4.83E-08
153	599657.2	4176409	2.27E-07	5.64E-07	0.00E+00	7.91E-07	2.27E-07	5.64E-07	0.00E+00	7.91E-07	3.68E-08	8.53E-08	0.00E+00	1.22E-07	1.92E-08	3.25E-08	0.00E+00	5.17E-08
154	599666.5	4176411	2.30E-07	5.72E-07	0.00E+00	8.02E-07	2.30E-07	5.72E-07	0.00E+00	8.02E-07	3.74E-08	8.65E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.25E-08
155	599544.1	4176401	2.28E-07	5.68E-07	0.00E+00	7.97E-07	2.28E-07	5.68E-07	0.00E+00	7.97E-07	3.71E-08	8.59E-08	0.00E+00	1.23E-07	1.94E-08	3.28E-08	0.00E+00	5.21E-08
156	599553.4	4176403	1.92E-07	4.78E-07	0.00E+00	6.70E-07	1.92E-07	4.78E-07	0.00E+00	6.70E-07	3.12E-08	7.23E-08	0.00E+00	1.04E-07	1.63E-08	2.76E-08	0.00E+00	4.39E-08
157	599562.7	4176404	1.68E-07	4.18E-07	0.00E+00	5.86E-07	1.68E-07	4.18E-07	0.00E+00	5.86E-07	2.73E-08	6.33E-08	0.00E+00	9.06E-08	1.43E-08	2.41E-08	0.00E+00	3.84E-08
158	599572	4176406	1.52E-07	3.79E-07	0.00E+00	5.31E-07	1.52E-07	3.79E-07	0.00E+00	5.31E-07	2.47E-08	5.72E-08	0.00E+00	8.20E-08	1.29E-08	2.18E-08	0.00E+00	3.47E-08
159	599581.3	4176407	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.83E-08	1.23E-08	2.08E-08	0.00E+00	3.32E-08
160	599590.6	4176409	1.42E-07	3.53E-07	0.00E+00	4.95E-07	1.42E-07	3.53E-07	0.00E+00	4.95E-07	2.31E-08	5.34E-08	0.00E+00	7.65E-08	1.20E-08	2.04E-08	0.00E+00	3.24E-08
161	599599.8	4176410	1.40E-07	3.50E-07	0.00E+00	4.90E-07	1.40E-07	3.50E-07	0.00E+00	4.90E-07	2.28E-08	5.29E-08	0.00E+00	7.57E-08	1.19E-08	2.01E-08	0.00E+00	3.21E-08
162	599609.1	4176412	1.49E-07	3.71E-07	0.00E+00	5.21E-07	1.49E-07	3.71E-07	0.00E+00	5.21E-07	2.43E-08	5.62E-08	0.00E+00	8.04E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
163	599618.4	4176413	1.66E-07	4.13E-07	0.00E+00	5.79E-07	1.66E-07	4.13E-07	0.00E+00	5.79E-07	2.70E-08	6.25E-08	0.00E+00	8.95E-08	1.41E-08	2.38E-08	0.00E+00	3.79E-08
164	599627.7	4176415	1.85E-07	4.62E-07	0.00E+00	6.47E-07	1.85E-07	4.62E-07	0.00E+00	6.47E-07	3.02E-08	6.98E-08	0.00E+00	1.00E-07	1.57E-08	2.66E-08	0.00E+00	4.24E-08
165	599637	4176416	2.03E-07	5.06E-07	0.00E+00	7.09E-07	2.03E-07	5.06E-07	0.00E+00	7.09E-07	3.31E-08	7.65E-08	0.00E+00	1.10E-07	1.73E-08	2.92E-08	0.00E+00	4.64E-08
166	599646.3	4176418	2.12E-07	5.28E-07	0.00E+00	7.40E-07	2.12E-07	5.28E-07	0.00E+00	7.40E-07	3.45E-08	7.98E-08	0.00E+00	1.14E-07	1.80E-08	3.04E-08	0.00E+00	4.84E-08
167	599655.6	4176419	2.18E-07	5.42E-07	0.00E+00	7.60E-07	2.18E-07	5.42E-07	0.00E+00	7.60E-07	3.54E-08	8.20E-08	0.00E+00	1.17E-07	1.85E-08	3.12E-08	0.00E+00	4.97E-08
168	599664.9	4176421	2.17E-07	5.40E-07	0.00E+00	7.56E-07	2.17E-07	5.40E-07	0.00E+00	7.56E-07	3.53E-08	8.16E-08	0.00E+00	1.17E-07	1.84E-08	3.11E-08	0.00E+00	4.95E-08
169	599542.5	4176411	2.50E-07	6.24E-07	0.00E+00	8.74E-07	2.50E-07	6.24E-07	0.00E+00	8.74E-07	4.07E-08	9.43E-08	0.00E+00	1.35E-07	2.13E-08	3.59E-08	0.00E+00	5.72E-08
170	599551.8	4176413	2.09E-07	5.21E-07	0.00E+00	7.30E-07	2.09E-07	5.21E-07	0.00E+00	7.30E-07	3.40E-08	7.87E-08	0.00E+00	1.13E-07	1.78E-08	3.00E-08	0.00E+00	4.78E-08
171	599561.1	4176414	1.81E-07	4.50E-07	0.00E+00	6.31E-07	1.81E-07	4.50E-07	0.00E+00	6.31E-07	2.94E-08	6.81E-08	0.00E+00	9.75E-08	1.54E-08	2.59E-08	0.00E+00	4.13E-08
172	599570.4	4176416	1.62E-07	4.04E-07	0.00E+00	5.66E-07	1.62E-07	4.04E-07	0.00E+00	5.66E-07	2.64E-08	6.11E-08	0.00E+00	8.75E-08	1.38E-08	2.33E-08	0.00E+00	3.71E-08
173	599579.7	4176417	1.55E-07	3.85E-07	0.00E+00	5.40E-07	1.55E-07	3.85E-07	0.00E+00	5.40E-07	2.52E-08	5.83E-08	0.00E+00	8.35E-08	1.31E-08	2.22E-08	0.00E+00	3.54E-08
174	599589	4176419	1.53E-07	3.80E-07	0.00E+00	5.32E-07	1.53E-07	3.80E-07	0.00E+00	5.32E-07	2.48E-08	5.74E-08	0.00E+00	8.23E-08	1.30E-08	2.19E-08	0.00E+00	3.48E-08
175	599598.3	4176420	1.52E-07	3.78E-07	0.00E+00	5.30E-07	1.52E-07	3.78E-07	0.00E+00	5.30E-07	2.47E-08	5.72E-08	0.00E+00	8.20E-08	1.29E-08	2.18E-08	0.00E+00	3.47E-08
176	599607.6	4176421	1.60E-07	3.98E-07	0.00E+00	5.58E-07	1.60E-07	3.98E-07	0.00E+00	5.58E-07	2.60E-08	6.02E-08	0.00E+00	8.61E-08	1.36E-08	2.29E-08	0.00E+00	3.65E-08
177	599616.9	4176423	1.79E-07	4.46E-07	0.00E+00	6.25E-07	1.79E-07	4.46E-07	0.00E+00	6.25E-07	2.91E-08	6.75E-08	0.00E+00	9.66E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
178	599626.1	4176424	2.01E-07	5.01E-07	0.00E+00	7.02E-07	2.01E-07	5.01E-07	0.00E+00	7.02E-07	3.27E-08	7.57E-08	0.00E+00	1.08E-07	1.71E-08	2.89E-08	0.00E+00	4.59E-08
179	599635.4	4176426	2.21E-07	5.50E-07	0.00E+00	7.71E-07	2.21E-07	5.50E-07	0.00E+00	7.71E-07	3.59E-08	8.32E-08	0.00E+00	1.19E-07	1.88E-08	3.17E-08	0.00E+00	5.05E-08
180	599644.7	4176427	2.19E-07	5.45E-07	0.00E+00	7.63E-07	2.19E-07	5.45E-07	0.00E+00	7.63E-07	3.56E-08	8.23E-08	0.00E+00	1.18E-07	1.86E-08	3.14E-08	0.00E+00	5.00E-08
181	599654	4176429	2.13E-07	5.32E-07	0.00E+00	7.45E-07	2.13E-07	5.32E-07	0.00E+00	7.45E-07	3.47E-08	8.04E-08	0.00E+00	1.15E-07	1.81E-08	3.06E-08	0.00E+00	4.88E-08
182	599663.3	4176430	2.06E-07	5.13E-07	0.00E+00	7.19E-07	2.06E-07	5.13E-07	0.00E+00	7.19E-07	3.35E-08	7.75E-08	0.00E+00	1.11E-07	1.75E-08	2.96E-08	0.00E+00	4.70E-08
183	599540.9	4176421	2.70E-07	6.72E-07	0.00E+00	9.42E-07	2.70E-07	6.72E-07	0.00E+00	9.42E-07	4.39E-08	1.02E-07	0.00E+00	1.46E-07	2.29E-08	3.87E-08	0.00E+00	6.17E-08
184	599550.2	4176422	2.30E-07	5.72E-07	0.00E+00	8.02E-07	2.30E-07	5.72E-07	0.00E+00	8.02E-07	3.74E-08	8.66E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.25E-08
185	599559.5	4176424	1.99E-07	4.96E-07	0.00E+00	6.95E-07	1.99E-07	4.96E-07	0.00E+00	6.95E-07	3.24E-08	7.50E-08	0.00E+00	1.07E-07	1.69E-08	2.86E-08	0.00E+00	4.55E-08
186	599568.8	4176425	1.78E-07	4.42E-07	0.00E+00	6.20E-07	1.78E-07	4.42E-07	0.00E+00	6.20E-07	2.89E-08	6.69E-08	0.00E+00	9.58E-08	1.51E-08	2.55E-08	0.00E+00	4.06E-08
187	599578.1	4176427	1.69E-07	4.21E-07	0.00E+00	5.90E-07	1.69E-07	4.21E-07	0.00E+00	5.90E-07	2.75E-08	6.36E-08	0.00E+00	9.11E-08	1.43E-08	2.42E-08	0.00E+00	3.86E-08
188	599587.4	4176428	1.70E-07	4.23E-07	0.00E+00	5.92E-07	1.70E-07	4.23E-07	0.00E+00	5.92E-07	2.76E-08	6.39E-08	0.00E+00	9.15E-08	1.44E-08	2.44E-08	0.00E+00	3.88E-08
189	599596.7	4176430	1.72E-07	4.29E-07	0.00E+00	6.01E-07	1.72E-07	4.29E-07	0.00E+00	6.01E-07	2.80E-08	6.48E-08	0.00E+00	9.28E-08	1.46E-08	2.47E-08	0.00E+00	3.93E-08
190	599606	4176431	1.81E-07	4.50E-07	0.00E+00	6.30E-07	1.81E-07	4.50E-07	0.00E+00	6.30E-07	2.94E-08	6.80E-08	0.00E+00	9.74E-08	1.53E-08	2.59E-08	0.00E+00	4.12E-08
191	599615.3	4176433	2.03E-07	5.06E-07	0.00E+00	7.10E-07	2.03E-07	5.06E-07	0.00E+00	7.10E-07	3.31E-08	7.65E-08	0.00E+00	1.10E-07	1.73E-08	2.92E-08	0.00E+00	4.64E-08
192	599624.6	4176434	2.28E-07	5.69E-07	0.00E+00	7.97E-07	2.28E-07	5.69E-07	0.00E+00	7.97E-07	3.71E-08	8.60E-08	0.00E+00	1.23E-07	1.94E-08	3.28E-08	0.00E+00	5.22E-08
193	599633.9	4176436	2.54E-07	6.33E-07	0.00E+00	8.87E-07	2.54E-07	6.33E-07	0.00E+00	8.87E-07	4.13E-08	9.57E-08	0.00E+00	1.37E-07	2.16E-08	3.65E-08	0.00E+00	5.80E-08
194	599643.1	4176437	2.30E-07	5.74E-07	0.00E+00	8.04E-07	2.30E-07	5.74E-07	0.00E+00	8.04E-07	3.75E-08	8.68E-08	0.00E+00	1.24E-07	1.96E-08	3.31E-08	0.00E+00	5.26E-08
195	599652.4	4176439	2.10E-07	5.23E-07	0.00E+00	7.33E-07	2.10E-07	5.23E-07	0.00E+00	7.33E-07	3.42E-08	7.91E-08	0.00E+00	1.13E-07	1.78E-08	3.01E-08	0.00E+00	4.80E-08
196	599661.7	4176440	1.93E-07	4.80E-07	0.00E+00	6.73E-07	1.93E-07	4.80E-07	0.00E+00	6.73E-07	3.14E-08	7.26E-08	0.00E+00	1.04E-07	1.64E-08	2.77E-08	0.00E+00	4.41E-08
197	599539.4	4176431	2.88E-07	7.17E-07	0.00E+00	1.00E-06	2.88E-07	7.17E-07	0.00E+00	1.00E-06	4.68E-08	1.08E-07	0.00E+00	1.55E-07	2.44E-08	4.13E-08	0.00E+00	6.57E-08
198	599548.7	4176432	2.52E-07	6.27E-07	0.00E+00	8.79E-07	2.52E-07	6.27E-07	0.00E+00	8.79E-07	4.10E-08	9.48E-08	0.00E+00	1.36E-07	2.14E-08	3.61E-08	0.00E+00	5.75E-08
199	599557.9	4176434	2.22E-07	5.52E-07	0.00E+00	7.73E-07	2.22E-07	5.52E-07	0.00E+00	7.73E-07	3.60E-08	8.34E-08	0.00E+00	1.19E-07	1.88E-08	3.18E-08	0.00E+00	5.06E-08
200	599567.2	4176435	1.98E-07	4.94E-07	0.00E+00	6.93E-07	1.98E-07	4.94E-07	0.00E+00	6.93E-07	3.23E-08	7.47E-08	0.00E+00	1.07E-07	1.69E-08	2.85E-08	0.00E+00	4.53E-08
201	599576.5	4176437	1.90E-07	4.72E-07	0.00E+00	6.62E-07	1.90E-07	4.72E-07	0.00E+00	6.62E-07	3.09E-08	7.14E-08	0.00E+00	1.02E-07	1.61E-08	2.72E-08	0.00E+00	4.33E-08
202	599585.8	4176438	1.98E-07	4.92E-07	0.00E+00	6.90E-07	1.98E-07	4.92E-07	0.00E+00	6.90E-07	3.22E-08	7.44E-08	0.00E+00	1.07E-07	1.68E-08	2.84E-08	0.00E+00	4.51E-08
203	599595.1	4176440	2.05E-07	5.10E-07	0.00E+00	7.14E-07	2.05E-07	5.10E-07	0.00E+00	7.14E-07	3.33E-08	7.71E-08	0.00E+00	1.10E-07	1.74E-08	2.94E-08	0.00E+00	4.68E-08
204	599604.4	4176441	2.13E-07	5.29E-07	0.00E+00	7.42E-07	2.13E-07	5.29E-07	0.00E+00	7.42E-07	3.46E-08	8.00E-08	0.00E+00	1.15E-07	1.80E-08	3.05E-08	0.00E+00	4.85E-08
205	599613.7	4176443	2.30E-07	5.72E-07	0.00E+00	8.02E-07	2.30E-07	5.72E-07	0.00E+00	8.02E-07	3.74E-08	8.65E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.25E-08
206	599623	4176444	2.44E-07	6.08E-07	0.00E+00	8.52E-07	2.44E-07	6.08E-07	0.00E+00	8.52E-07	3.97E-08	9.19E-08	0.00E+00	1.32E-07	2.07E-08	3.50E-08	0.00E+00	5.58E-08
207	599632.3	4176446	2.54E-07	6.33E-07	0.00E+00	8.87E-07	2.54E-07	6.33E-07	0.00E+00	8.87E-07	4.14E-08	9.57E-08	0.00E+00	1.37E-07	2.16E-08	3.65E-08	0.00E+00	5.81E-08
208	599641.6	4176447	2.27E-07	5.65E-07	0.00E+00	7.92E-07	2.27E-07	5.65E-07	0.00E+00	7.92E-07	3.69E-08	8.55E-08	0.00E+00	1.22E-07	1.93E-08	3.26E-08	0.00E+00	5.19E-08
209	599650.9	4176449	2.00E-07	4.98E-07	0.00E+00	6.99E-07	2.00E-07	4.98E-07	0.00E+00	6.99E-07	3.26E-08	7.54E-08	0.00E+00	1.08E-07	1.70E-08	2.87E-08	0.00E+00	4.57E-08
210	599536.2	4176451	3.24E-07	8.08E-07	0.00E+00	1.13E-06	3.24E-07	8.08E-07	0.00E+00	1.13E-06	5.28E-08	1.22E-07	0.00E+00	1.75E-07	2.75E-08	4.65E-08	0.00E+00	7.41E-08
211	599629.1	4176465	2.68E-07	6.67E-07	0.00E+00	9.35E-07	2.68E-07	6.67E-07	0.00E+00	9.35E-07	4.36E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.84E-08	0.00E+00	6.12E-08
212	599638.4	4176467	2.29E-07	5.69E-07	0.00E+00	7.98E-07	2.29E-07	5.69E-07	0.00E+00	7.98E-07	3.72E-08	8.61E-08	0.00E+00	1.23E-07	1.94E-08	3.28E-08	0.00E+00	5.22E-08
213	599626	4176485	2.04E-07	5.07E-07	0.00E+00	7.10E-07	2.04E-07	5.07E-07	0.00E+00	7.10E-07	3.31E-08	7.66E-08	0.00E+00	1.10E-07	1.73E-08	2.92E-08	0.00E+00	4.65E-08
214	599567.1	4176496	2.26E-07	5.62E-07	0.00E+00	7.88E-07	2.26E-07	5.62E-07	0.00E+00	7.88E-07	3.67E-08	8.50E-08	0.00E+00	1.22E-07	1.92E-08	3.24E-08	0.00E+00	5.15E-08
215	599576.4	4176498	1.98E-07	4.94E-07	0.00E+00	6.92E-07	1.98E-07	4.94E-07	0.00E+00	6.92E-07	3.23E-08	7.46E-08	0.00E+00	1.07E-07	1.68E-08	2.84E-08	0.00E+00	4.53E-08
216	599585.6	4176499	1.81E-07	4.51E-07	0.00E+00	6.33E-07	1.81E-07	4.51E-07	0.00E+00	6.33E-07	2.95E-08	6.83E-08	0.00E+00	9.77E-08	1.54E-08	2.60E-08	0.00E+00	4.14E-08
217	599594.9	4176500	1.65E-07	4.11E-07	0.00E+00	5.75E-07	1.65E-07	4.11E-07	0.00E+00	5.75E-07	2.68E-08	6.21E-08	0.00E+00	8.89E-08	1.40E-08	2.37E-08	0.00E+00	3.77E-08

218	599604.2	4176502	1.51E-07	3.75E-07	0.00E+00	5.26E-07	1.51E-07	3.75E-07	0.00E+00	5.26E-07	2.45E-08	5.67E-08	0.00E+00	8.12E-08	1.28E-08	2.16E-08	0.00E+00	3.44E-08
219	599613.5	4176503	1.47E-07	3.66E-07	0.00E+00	5.13E-07	1.47E-07	3.66E-07	0.00E+00	5.13E-07	2.39E-08	5.54E-08	0.00E+00	7.93E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
220	599622.8	4176505	1.42E-07	3.55E-07	0.00E+00	4.97E-07	1.42E-07	3.55E-07	0.00E+00	4.97E-07	2.32E-08	5.36E-08	0.00E+00	7.68E-08	1.21E-08	2.04E-08	0.00E+00	3.25E-08
221	599526.7	4176510	2.86E-07	7.13E-07	0.00E+00	9.99E-07	2.86E-07	7.13E-07	0.00E+00	9.99E-07	4.66E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.11E-08	0.00E+00	6.54E-08
222	599536	4176511	2.82E-07	7.02E-07	0.00E+00	9.85E-07	2.82E-07	7.02E-07	0.00E+00	9.85E-07	4.59E-08	1.06E-07	0.00E+00	1.52E-07	2.40E-08	4.05E-08	0.00E+00	6.44E-08
223	599545.3	4176513	2.75E-07	6.84E-07	0.00E+00	9.59E-07	2.75E-07	6.84E-07	0.00E+00	9.59E-07	4.47E-08	1.03E-07	0.00E+00	1.48E-07	2.33E-08	3.94E-08	0.00E+00	6.28E-08
224	599554.6	4176514	2.50E-07	6.22E-07	0.00E+00	8.72E-07	2.50E-07	6.22E-07	0.00E+00	8.72E-07	4.06E-08	9.40E-08	0.00E+00	1.35E-07	2.12E-08	3.58E-08	0.00E+00	5.70E-08
225	599563.9	4176516	2.21E-07	5.51E-07	0.00E+00	7.72E-07	2.21E-07	5.51E-07	0.00E+00	7.72E-07	3.60E-08	8.33E-08	0.00E+00	1.19E-07	1.88E-08	3.18E-08	0.00E+00	5.05E-08
226	599573.2	4176517	1.92E-07	4.78E-07	0.00E+00	6.70E-07	1.92E-07	4.78E-07	0.00E+00	6.70E-07	3.12E-08	7.23E-08	0.00E+00	1.04E-07	1.63E-08	2.76E-08	0.00E+00	4.39E-08
227	599582.5	4176519	1.65E-07	4.11E-07	0.00E+00	5.76E-07	1.65E-07	4.11E-07	0.00E+00	5.76E-07	2.69E-08	6.22E-08	0.00E+00	8.90E-08	1.40E-08	2.37E-08	0.00E+00	3.77E-08
228	599591.8	4176520	1.42E-07	3.53E-07	0.00E+00	4.95E-07	1.42E-07	3.53E-07	0.00E+00	4.95E-07	2.31E-08	5.34E-08	0.00E+00	7.64E-08	1.20E-08	2.03E-08	0.00E+00	3.24E-08
229	599601.1	4176522	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.63E-08	0.00E+00	6.63E-08	1.04E-08	1.76E-08	0.00E+00	2.81E-08
230	599610.4	4176523	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.81E-08	4.20E-08	0.00E+00	6.01E-08	9.47E-09	1.60E-08	0.00E+00	2.55E-08
231	599619.7	4176525	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.75E-09	1.48E-08	0.00E+00	2.35E-08
232	599628.9	4176526	9.63E-08	2.40E-07	0.00E+00	3.36E-07	9.63E-08	2.40E-07	0.00E+00	3.36E-07	1.57E-08	3.63E-08	0.00E+00	5.19E-08	8.18E-09	1.38E-08	0.00E+00	2.20E-08
233	599523.6	4176530	2.64E-07	6.57E-07	0.00E+00	9.21E-07	2.64E-07	6.57E-07	0.00E+00	9.21E-07	4.29E-08	9.94E-08	0.00E+00	1.42E-07	2.24E-08	3.79E-08	0.00E+00	6.03E-08
234	599532.9	4176531	2.62E-07	6.53E-07	0.00E+00	9.16E-07	2.62E-07	6.53E-07	0.00E+00	9.16E-07	4.27E-08	9.88E-08	0.00E+00	1.41E-07	2.23E-08	3.77E-08	0.00E+00	5.99E-08
235	599542.2	4176533	2.62E-07	6.51E-07	0.00E+00	9.13E-07	2.62E-07	6.51E-07	0.00E+00	9.13E-07	4.25E-08	9.85E-08	0.00E+00	1.41E-07	2.22E-08	3.75E-08	0.00E+00	5.97E-08
236	599551.5	4176534	2.49E-07	6.20E-07	0.00E+00	8.69E-07	2.49E-07	6.20E-07	0.00E+00	8.69E-07	4.05E-08	9.38E-08	0.00E+00	1.34E-07	2.11E-08	3.57E-08	0.00E+00	5.69E-08
237	599560.8	4176536	2.34E-07	5.83E-07	0.00E+00	8.17E-07	2.34E-07	5.83E-07	0.00E+00	8.17E-07	3.81E-08	8.81E-08	0.00E+00	1.26E-07	1.99E-08	3.36E-08	0.00E+00	5.35E-08
238	599570	4176537	2.20E-07	5.49E-07	0.00E+00	7.69E-07	2.20E-07	5.49E-07	0.00E+00	7.69E-07	3.59E-08	8.30E-08	0.00E+00	1.19E-07	1.87E-08	3.16E-08	0.00E+00	5.03E-08
239	599579.3	4176539	1.98E-07	4.94E-07	0.00E+00	6.93E-07	1.98E-07	4.94E-07	0.00E+00	6.93E-07	3.23E-08	7.47E-08	0.00E+00	1.07E-07	1.69E-08	2.85E-08	0.00E+00	4.53E-08
240	599588.6	4176540	1.71E-07	4.25E-07	0.00E+00	5.96E-07	1.71E-07	4.25E-07	0.00E+00	5.96E-07	2.78E-08	6.43E-08	0.00E+00	9.21E-08	1.45E-08	2.45E-08	0.00E+00	3.90E-08
241	599597.9	4176541	1.46E-07	3.64E-07	0.00E+00	5.10E-07	1.46E-07	3.64E-07	0.00E+00	5.10E-07	2.38E-08	5.51E-08	0.00E+00	7.89E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
242	599607.2	4176543	1.27E-07	3.15E-07	0.00E+00	4.42E-07	1.27E-07	3.15E-07	0.00E+00	4.42E-07	2.06E-08	4.76E-08	0.00E+00	6.82E-08	1.07E-08	1.82E-08	0.00E+00	2.89E-08
243	599616.5	4176544	1.11E-07	2.78E-07	0.00E+00	3.89E-07	1.11E-07	2.78E-07	0.00E+00	3.89E-07	1.81E-08	4.20E-08	0.00E+00	6.01E-08	9.46E-09	1.60E-08	0.00E+00	2.55E-08
244	599625.8	4176546	9.99E-08	2.49E-07	0.00E+00	3.49E-07	9.99E-08	2.49E-07	0.00E+00	3.49E-07	1.62E-08	3.76E-08	0.00E+00	5.39E-08	8.48E-09	1.43E-08	0.00E+00	2.28E-08
245	599635.1	4176547	9.16E-08	2.28E-07	0.00E+00	3.20E-07	9.16E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.77E-09	1.31E-08	0.00E+00	2.09E-08
246	599515.6	4176549	2.44E-07	6.06E-07	0.00E+00	8.50E-07	2.44E-07	6.06E-07	0.00E+00	8.50E-07	3.96E-08	9.17E-08	0.00E+00	1.31E-07	2.07E-08	3.49E-08	0.00E+00	5.56E-08
247	599529.7	4176551	2.46E-07	6.11E-07	0.00E+00	8.57E-07	2.46E-07	6.11E-07	0.00E+00	8.57E-07	3.99E-08	9.24E-08	0.00E+00	1.32E-07	2.08E-08	3.52E-08	0.00E+00	5.61E-08
248	599539	4176552	2.48E-07	6.17E-07	0.00E+00	8.64E-07	2.48E-07	6.17E-07	0.00E+00	8.64E-07	4.03E-08	9.32E-08	0.00E+00	1.34E-07	2.10E-08	3.55E-08	0.00E+00	5.66E-08
249	599548.3	4176554	2.48E-07	6.17E-07	0.00E+00	8.65E-07	2.48E-07	6.17E-07	0.00E+00	8.65E-07	4.03E-08	9.33E-08	0.00E+00	1.34E-07	2.10E-08	3.56E-08	0.00E+00	5.66E-08
250	599557.6	4176555	2.47E-07	6.14E-07	0.00E+00	8.61E-07	2.47E-07	6.14E-07	0.00E+00	8.61E-07	4.01E-08	9.29E-08	0.00E+00	1.33E-07	2.09E-08	3.54E-08	0.00E+00	5.64E-08
251	599566.9	4176557	2.46E-07	6.13E-07	0.00E+00	8.59E-07	2.46E-07	6.13E-07	0.00E+00	8.59E-07	4.00E-08	9.26E-08	0.00E+00	1.33E-07	2.09E-08	3.53E-08	0.00E+00	5.62E-08
252	599576.2	4176558	2.40E-07	5.97E-07	0.00E+00	8.37E-07	2.40E-07	5.97E-07	0.00E+00	8.37E-07	3.90E-08	9.03E-08	0.00E+00	1.29E-07	2.04E-08	3.44E-08	0.00E+00	5.48E-08
253	599585.5	4176560	2.17E-07	5.41E-07	0.00E+00	7.58E-07	2.17E-07	5.41E-07	0.00E+00	7.58E-07	3.53E-08	8.17E-08	0.00E+00	1.17E-07	1.84E-08	3.12E-08	0.00E+00	4.96E-08
254	599594.8	4176561	1.92E-07	4.79E-07	0.00E+00	6.72E-07	1.92E-07	4.79E-07	0.00E+00	6.72E-07	3.13E-08	7.25E-08	0.00E+00	1.04E-07	1.63E-08	2.76E-08	0.00E+00	4.40E-08
255	599604.1	4176563	1.69E-07	4.21E-07	0.00E+00	5.90E-07	1.69E-07	4.21E-07	0.00E+00	5.90E-07	2.75E-08	6.36E-08	0.00E+00	9.11E-08	1.43E-08	2.42E-08	0.00E+00	3.86E-08
256	599613.3	4176564	1.42E-07	3.53E-07	0.00E+00	4.95E-07	1.42E-07	3.53E-07	0.00E+00	4.95E-07	2.31E-08	5.34E-08	0.00E+00	7.65E-08	1.20E-08	2.04E-08	0.00E+00	3.24E-08
257	599622.6	4176566	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
258	599631.9	4176567	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.66E-08	8.91E-09	1.51E-08	0.00E+00	2.40E-08
259	599641.2	4176569	9.64E-08	2.40E-07	0.00E+00	3.36E-07	9.64E-08	2.40E-07	0.00E+00	3.36E-07	1.57E-08	3.63E-08	0.00E+00	5.20E-08	8.18E-09	1.38E-08	0.00E+00	2.20E-08
260	599512.2	4176568	2.26E-07	5.63E-07	0.00E+00	7.90E-07	2.26E-07	5.63E-07	0.00E+00	7.90E-07	3.68E-08	8.52E-08	0.00E+00	1.22E-07	1.92E-08	3.25E-08	0.00E+00	5.17E-08
261	599526.6	4176571	2.28E-07	5.67E-07	0.00E+00	7.94E-07	2.28E-07	5.67E-07	0.00E+00	7.94E-07	3.70E-08	8.57E-08	0.00E+00	1.23E-07	1.93E-08	3.26E-08	0.00E+00	5.20E-08
262	599535.9	4176572	2.29E-07	5.69E-07	0.00E+00	7.98E-07	2.29E-07	5.69E-07	0.00E+00	7.98E-07	3.72E-08	8.60E-08	0.00E+00	1.23E-07	1.94E-08	3.28E-08	0.00E+00	5.22E-08
263	599545.1	4176574	2.29E-07	5.71E-07	0.00E+00	8.01E-07	2.29E-07	5.71E-07	0.00E+00	8.01E-07	3.73E-08	8.64E-08	0.00E+00	1.24E-07	1.95E-08	3.29E-08	0.00E+00	5.24E-08
264	599554.4	4176575	2.30E-07	5.73E-07	0.00E+00	8.04E-07	2.30E-07	5.73E-07	0.00E+00	8.04E-07	3.75E-08	8.67E-08	0.00E+00	1.24E-07	1.96E-08	3.30E-08	0.00E+00	5.26E-08
265	599563.7	4176577	2.32E-07	5.77E-07	0.00E+00	8.09E-07	2.32E-07	5.77E-07	0.00E+00	8.09E-07	3.77E-08	8.72E-08	0.00E+00	1.25E-07	1.97E-08	3.32E-08	0.00E+00	5.29E-08
266	599573	4176578	2.34E-07	5.82E-07	0.00E+00	8.15E-07	2.34E-07	5.82E-07	0.00E+00	8.15E-07	3.80E-08	8.80E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.34E-08
267	599582.3	4176579	2.27E-07	5.64E-07	0.00E+00	7.91E-07	2.27E-07	5.64E-07	0.00E+00	7.91E-07	3.69E-08	8.53E-08	0.00E+00	1.22E-07	1.92E-08	3.25E-08	0.00E+00	5.18E-08
268	599591.6	4176581	2.19E-07	5.45E-07	0.00E+00	7.64E-07	2.19E-07	5.45E-07	0.00E+00	7.64E-07	3.56E-08	8.24E-08	0.00E+00	1.18E-07	1.86E-08	3.14E-08	0.00E+00	5.00E-08
269	599600.9	4176582	2.12E-07	5.28E-07	0.00E+00	7.40E-07	2.12E-07	5.28E-07	0.00E+00	7.40E-07	3.45E-08	7.98E-08	0.00E+00	1.14E-07	1.80E-08	3.04E-08	0.00E+00	4.84E-08
270	599610.2	4176584	1.94E-07	4.83E-07	0.00E+00	6.77E-07	1.94E-07	4.83E-07	0.00E+00	6.77E-07	3.16E-08	7.31E-08	0.00E+00	1.05E-07	1.65E-08	2.78E-08	0.00E+00	4.43E-08
271	599619.5	4176585	1.69E-07	4.22E-07	0.00E+00	5.91E-07	1.69E-07	4.22E-07	0.00E+00	5.91E-07	2.76E-08	6.38E-08	0.00E+00	9.13E-08	1.44E-08	2.43E-08	0.00E+00	3.87E-08
272	599628.8	4176587	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.87E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
273	599638.1	4176588	1.27E-07	3.17E-07	0.00E+00	4.45E-07	1.27E-07	3.17E-07	0.00E+00	4.45E-07	2.07E-08	4.80E-08	0.00E+00	6.87E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
274	599508.8	4176588	2.13E-07	5.30E-07	0.00E+00	7.43E-07	2.13E-07	5.30E-07	0.00E+00	7.43E-07	3.46E-08	8.02E-08	0.00E+00	1.15E-07	1.81E-08	3.06E-08	0.00E+00	4.86E-08
275	599523.4	4176590	2.11E-07	5.25E-07	0.00E+00	7.35E-07	2.11E-07	5.25E-07	0.00E+00	7.35E-07	3.43E-08	7.93E-08	0.00E+00	1.14E-07	1.79E-08	3.02E-08	0.00E+00	4.81E-08
276	599532.7	4176592	2.10E-07	5.23E-07	0.00E+00	7.32E-07	2.10E-07	5.23E-07	0.00E+00	7.32E-07	3.41E-08	7.90E-08	0.00E+00	1.13E-07	1.78E-08	3.01E-08	0.00E+00	4.79E-08
277	599542	4176593	2.09E-07	5.20E-07	0.00E+00	7.29E-07	2.09E-07	5.20E-07	0.00E+00	7.29E-07	3.40E-08	7.87E-08	0.00E+00	1.13E-07	1.77E-08	3.00E-08	0.00E+00	4.77E-08
278	599551.3	4176595	2.11E-07	5.25E-07	0.00E+00	7.36E-07	2.11E-07	5.25E-07	0.00E+00	7.36E-07	3.43E-08	7.94E-08	0.00E+00	1.14E-07	1.79E-08	3.03E-08	0.00E+00	4.82E-08
279	599560.6	4176596	2.14E-07	5.32E-07	0.00E+00	7.46E-07	2.14E-07	5.32E-07	0.00E+00	7.46E-07	3.48E-08	8.05E-08	0.00E+00	1.15E-07	1.81E-08	3.07E-08	0.00E+00	4.88E-08
280	599569.9	4176598	2.17E-07	5.40E-07	0.00E+00	7.56E-07	2.17E-07	5.40E-07	0.00E+00	7.56E-07	3.53E-08	8.16E-08	0.00E+00	1.17E-07	1.84E-08	3.11E-08	0.00E+00	4.95E-08
281	599579.2	4176599	2.17E-07	5.40E-07	0.00E+00	7.57E-07	2.17E-07	5.40E-07	0.00E+00	7.57E-07	3.53E-08	8.17E-08	0.00E+00	1.17E-07	1.84E-08	3.11E-08	0.00E+00	4.95E-08
282	599588.5	4176601	2.16E-07	5.37E-07	0.00E+00	7.53E-07	2.16E-07	5.37E-07	0.00E+00	7.53E-07	3.51E-08	8.13E-08	0.00E+00	1.16E-07	1.83E-08	3.10E-08	0.00E+00	4.93E-08
283	599597.7	4176602	2.15E-07	5.36E-07	0.00E+00	7.52E-07	2.15E-07	5.36E-07	0.00E+00	7.52E-07	3.50E-08	8.11E-08	0.00E+00	1.16E-07	1.83E-08	3.09E-08	0.00E+00	4.92E-08
284	599607	4176604	2.12E-07	5.27E-07	0.00E+00	7.39E-07	2.12E-07	5.27E-07	0.00E+00	7.39E-07	3.44E-08	7.97E-08	0.00E+00	1.14E-07	1.80E-08	3.04E-08	0.00E+00	4.84E-08
285	599616.3	4176605	2.00E-07	4.99E-07	0.00E+00	7.00E-07	2.00E-07	4.99E-07	0.00E+00	7.00E-07	3.26E-08	7.55E-08	0.00E+00	1.08E-07	1.70E-08	2.88E-08	0.00E+00	4.58E-08
286	599625.6	4176607	1.89E-07	4.70E-07	0.00E+00	6.59E-07	1.89E-07	4.70E-07	0.00E+00	6.59E-07	3.07E-08	7.11E-08	0.00E+00	1.02E-07	1.60E-08	2.71E-08	0.00E+00	4.31E-08
287	599634.9	4176608	1.77E-07	4.40E-07	0.00E+00	6.16E-07	1.77E-07	4.40E-07	0.00E+00	6.16E-07	2.87E-08	6.65E-08	0.00E+00	9.52E-08	1.50E-08	2.53E-08	0.00E+00	4.03E-08
288	599520.3	4176610	1.93E-07	4.81E-07	0.00E+00	6.74E-07	1.93E-07	4.81E-07	0.00E+00	6.74E-07	3.14E-08	7.27E-08	0.00E+00	1.04E-07	1.64E-08	2.77E-08	0.00E+00	4.41E-08
289	599529.5	4176612	1.91E-07	4.75E-07	0.00E+00	6.66E-07	1.91E-07	4.75E-07	0.00E+00	6.66E-07	3.10E-08	7.18E-08	0.00E+00	1.03E-07	1.62E-08	2.74E-08	0.00E+00	4.36E-08
290	599538.8	4176613	1.88E-07	4.69E-07	0.00E+00	6.57E-07	1.88E-07	4.69E-07	0.00E+00	6.57E-07	3.06E-08	7.09E-08	0.00E+00	1.02E-07	1.60E-08	2.70E-08	0.00E+00	4.30E-08
291	599548.1	4176615	1.89E-07	4.71E-07	0.00E+00	6.60E-07	1.89E-07	4.71E-07	0.00E+00	6.60E-07	3.08E-08	7.12E-08	0.00E+00	1.02E-07	1.61E-08	2.71E-08	0.00E+00	4.32E-08
292	599557.4	4176616	1.93E-07	4.81E-07	0.00E+00	6.75E-07	1.93E-07	4.81E-07	0.00E+00	6.75E-07	3.15E-08	7.28E-08	0.00E+00	1.04E-07	1.64E-08	2.77E-08	0.00E+00	4.42E-08
293	599566.7	4176618	1.97E-07	4.90E-07	0.00E+00	6.87E-07	1.97E-07	4.90E-07	0.00E+00	6.87E-07	3.20E-08	7.41E-08	0.00E+00	1.06E-07	1.67E-08	2.82E-08	0.00E+00	4.50E-08
294	599576	4176619	2.00E-07	4.97E-07	0.00E+00	6.97E-07	2.00E-07	4.97E-07	0.00E+00	6.97E-07	3.25E-08	7.52E-08	0.00E+00	1.08E-07	1.70E-08	2.87E-08	0.00E+00	4.56E-08
295	599585.3	4176620	2.02E-07	5.03E-07	0.00E+00	7.05E-07	2.02E-07	5.03E-07	0.00E+00	7.05E-07	3.29E-08	7.61E-08	0.00E+00	1.09E-07	1.72E-08	2.90E-08	0.00E+00	4.62E-08
296	599594.6	4176622	2.05E-07	5.10E-07	0.00E+00	7.15E-07	2.05E-07	5.10E-07	0.00E+00	7.15E-07	3.33E-08	7.71E-08	0.00E+00	1.10E-07	1.74E-08	2.94E-08	0.00E+00	4.68E-08
297	599603.9	4176623	2.08E-07	5.17E-07	0.00E+00	7.25E-07	2.08E-07	5.17E-07	0.00E+00	7.25E-07	3.38E-08	7.82E-08	0.00E+00	1.12E-07	1.76E-08	2.98E-08	0.00E+00	4.74E-08
298	599613.2	4176625	2.04E-07	5.08E-07	0.00E+00	7.13E-07	2.04E-07	5.08E-07	0.00E+00	7.13E-07	3.32E-08	7.69E-08	0.00E+00	1.10E-07	1.73E-08	2.93E-08	0.00E+00	4.66E-08
299	599622.5	4176626	2.01E-07	5.01E-07	0.00E+00	7.02E-07	2.01E-07	5.01E-07	0.00E+00	7.02E-07	3.27E-08	7.57E-08	0.00E+00	1.08E-07	1.71E-08	2.89E-08	0.00E+00	4.59E-08
300	599631.8	4176628	1.99E-07	4.94E-07	0.00E+00	6.93E-07	1.99E-07	4.94E-07	0.00E+00	6.93E-07	3.23E-08	7.48E-08	0.00E+00	1.07E-07	1.69E-08	2.85E-08	0.00E+00	4.54E-08
301	599526.4	4176631	1.75E-07	4.35E-07	0.00E+00	6.10E-07	1.75E-07	4.35E-07	0.00E+00	6.10E-07	2.84E-08	6.58E-08	0.00E+00	9.43E-08	1.48E-08	2.51E-08	0.00E+00	3.99E-08
302	599535.7	4176633	1.68E-07	4.19E-07	0.00E+00	5.87E-07	1.68E-07	4.19E-07	0.00E+00	5.87E-07	2.74E-08	6.34E-08	0.00E+00	9.07E-08	1.43E-08	2.41E-08	0.00E+00	3.84E-08
303	599545	4176634	1.62E-07	4.04E-07	0.00E+00	5.67E-07	1.62E-07	4.04E-07	0.00E+00	5.67E-07	2.64E-08	6.11E-08	0.00E+00	8.76E-08	1.38E-08	2.33E-08	0.00E+00	3.71E-08
304	599554.3	4176636	1.65E-07	4.11E-07	0.00E+00	5.76E-07	1.65E-07	4.11E-07	0.00E+00	5.76E-07	2.69E-08	6.22E-08	0.00E+00	8.91E-08	1.40E-08	2.37E-08	0.00E+00	3.77E-08
305	599563.6	4176637	1.68E-07	4.17E-07	0.00E+00	5.85E-07	1.68E-07	4.17E-07	0.00E+00	5.85E-07	2.73E-08	6.31E-08	0.00E+00	9.04E-08	1.42E-08	2.41E-08	0.00E+00	3.83E-08
306	599572.8	4176639	1.70E-07	4.23E-07	0.00E+00	5.93E-07	1.70E-07	4.23E-07	0.00E+00	5.93E-07	2.76E-08	6.40E-08	0.00E+00	9.16E-08	1.44E-08	2.44E-08	0.00E+00	3.88E-08
307	599582.1	4176640	1.77E-07	4.40E-07	0.00E+00	6.16E-07	1.77E-07	4.40E-07	0.00E+00	6.16E-07	2.87E-08	6.65E-08	0.00E+00	9.52E-08	1.50E-08	2.53E-08	0.00E+00	4.03E-08
308	599591.4	4176642	1.84E-07	4.57E-07	0.00E+00	6.40E-07	1.84E-07	4.57E-07	0.00E+00	6.40E-07	2.99E-08	6.91E-08	0.00E+00	9.90E-08	1.56E-08	2.63E-08	0.00E+00	4.19E-08
309	599600.7	4176643	1.90E-07	4.74E-07	0.00E+00	6.64E-07	1.90E-07	4.74E-07	0.00E+00	6.64E-07	3.09E-08	7.16E-08	0.00E+00	1.03E-07	1.61E-08	2.73E-08	0.00E+00	4.34E-08
310	599610	4176645	1.93E-07	4.81E-07	0.00E+00	6.75E-07	1.93E-07	4.81E-07	0.00E+00	6.75E-07	3.14E-08	7.28E-08	0.00E+00	1.04E-07	1.64E-08	2.77E-08	0.00E+00	4.42E-08
311	599619.3	4176646	1.95E-07	4.86E-07	0.00E+00	6.82E-07	1.95E-07	4.86E-07	0.00E+00	6.82E-07	3.18E-08	7.35E-08	0.00E+00	1.05E-07	1.66E-08	2.80E-08	0.00E+00	4.46E-08
312	599628.6	4176648	1.97E-07	4.90E-07	0.00E+00	6.87E-07	1.97E-07	4.90E-07	0.00E+00	6.87E-07	3.20E-08	7.42E-08	0.00E+00	1.06E-07	1.67E-08	2.83E-08	0.00E+00	4.50E-08
313	599532.5	4176653	1.55E-07	3.86E-07	0.00E+00	5.41E-07	1.55E-07	3.86E-07	0.00E+00	5.41E-07	2.52E-08	5.84E-08	0.00E+00	8.36E-08	1.32E-08	2.22E-08	0.00E+00	3.54E-08
314	599541.8	4176654	1.46E-07	3.64E-07	0.00E+00	5.11E-07	1.46E-07	3.64E-07	0.00E+00	5.11E-07	2.38E-08	5.51E-08	0.00E+00	7.89E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
315	599551.1	4176656	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.83E-08	1.23E-08	2.08E-08	0.00E+00	3.32E-08
316	599560.4	4176657	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.84E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
317	599569.7	4176658	1.45E-07	3.61E-07	0.00E+00	5.05E-07	1.45E-07	3.61E-07	0.00E+00	5.05E-07	2.36E-08	5.45E-08	0.00E+00	7.81E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
318	599579	4176660	1.49E-07	3.71E-07	0.00E+00	5.21E-07	1.49E-07	3.71E-07	0.00E+00	5.21E-07	2.43E-08	5.62E-08	0.00E+00	8.04E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
319	599588.3	4176661	1.57E-07	3.90E-07	0.00E+00	5.47E-07	1.57E-07	3.90E-07	0.00E+00	5.47E-07	2.55E-08	5.90E-08	0.00E+00	8.46E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
320	599597.6	4176663	1.64E-07	4.08E-07	0.00E+00	5.71E-07	1.64E-07	4.08E-07	0.00E+00	5.71E-07	2.66E-08	6.16E-08	0.00E+00	8.83E-08	1.39E-08	2.35E-08	0.00E+00	3.74E-08
321	599606.9	4176664	1.70E-07	4.22E-07	0.00E+00	5.92E-07	1.70E-07	4.22E-07	0.00E+00	5.92E-07	2.76E-08	6.38E-08	0.00E+00	9.14E-08	1.44E-08	2.43E-08	0.00E+00	3.87E-08
322	599616.2	4176666	1.75E-07	4.35E-07	0.00E+00	6.09E-07	1.75E-07	4.35E-07	0.00E+00	6.09E-07	2.84E-08	6.57E-08	0.00E+00	9.41E-08	1.48E-08	2.51E-08	0.00E+00	3.99E-08
323	599625.4	4176667	1.80E-07	4.47E-07	0.00E+00	6.27E-07	1.80E-07	4.47E-07	0.00E+00	6.27E-07	2.92E-08	6.76E-08	0.00E+00	9.68E-08	1.52E-08	2.58E-08	0.00E+00	4.10E-08
324	599548	4176675	1.36E-07	3.39E-07	0.00E+00	4.75E-07	1.36E-07	3.39E-07	0.00E+00	4.75E-07	2.21E-08	5.12E-08	0.00E+00	7.33E-08	1.15E-08	1.95E-08	0.00E+00	3.11E-08
325	599557.2	4176677	1.32E-07	3.30E-07	0.00E+00	4.62E-07	1.32E-07	3.30E-07	0.00E+00	4.62E-07	2.15E-08	4.99E-08	0.00E+00	7.14E-08	1.12E-08	1.90E-08	0.00E+00	3.02E-08
326	599566.5	4176678	1.30E-07	3.23E-07	0.00E+00	4.52E-07	1.30E-07	3.23E-07	0.00E+00	4.52E-07	2.11E-08	4.88E-08	0.00E+00	6.99E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
327	599575.8	4176680	1.3E-07	3.23E-07	0.00E+00	4.52E-07	1.30E-07	3.23E-07	0.00E+00	4.52E-07	2.11E-08	4.88E-08	0.00E+00	6.99E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08

328	599585.1	4176681	1.37E-07	3.41E-07	0.00E+00	4.78E-07	1.37E-07	3.41E-07	0.00E+00	4.78E-07	2.23E-08	5.16E-08	0.00E+00	7.39E-08	1.16E-08	1.97E-08	0.00E+00	3.13E-08
329	599594.4	4176683	1.44E-07	3.58E-07	0.00E+00	5.01E-07	1.44E-07	3.58E-07	0.00E+00	5.01E-07	2.34E-08	5.41E-08	0.00E+00	7.74E-08	1.22E-08	2.06E-08	0.00E+00	3.28E-08
330	599603.7	4176684	1.49E-07	3.72E-07	0.00E+00	5.21E-07	1.49E-07	3.72E-07	0.00E+00	5.21E-07	2.43E-08	5.62E-08	0.00E+00	8.05E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
331	599613	4176686	1.55E-07	3.86E-07	0.00E+00	5.42E-07	1.55E-07	3.86E-07	0.00E+00	5.42E-07	2.52E-08	5.84E-08	0.00E+00	8.37E-08	1.32E-08	2.23E-08	0.00E+00	3.54E-08
332	599622.3	4176687	1.6E-07	3.99E-07	0.00E+00	5.59E-07	1.60E-07	3.99E-07	0.00E+00	5.59E-07	2.60E-08	6.03E-08	0.00E+00	8.63E-08	1.36E-08	2.30E-08	0.00E+00	3.66E-08
333	599563.4	4176698	1.37E-07	3.41E-07	0.00E+00	4.78E-07	1.37E-07	3.41E-07	0.00E+00	4.78E-07	2.23E-08	5.15E-08	0.00E+00	7.38E-08	1.16E-08	1.96E-08	0.00E+00	3.13E-08
334	599572.7	4176699	1.36E-07	3.38E-07	0.00E+00	4.74E-07	1.36E-07	3.38E-07	0.00E+00	4.74E-07	2.21E-08	5.12E-08	0.00E+00	7.33E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
335	599582	4176701	1.38E-07	3.44E-07	0.00E+00	4.82E-07	1.38E-07	3.44E-07	0.00E+00	4.82E-07	2.25E-08	5.20E-08	0.00E+00	7.44E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
336	599591.3	4176702	1.4E-07	3.49E-07	0.00E+00	4.89E-07	1.40E-07	3.49E-07	0.00E+00	4.89E-07	2.28E-08	5.27E-08	0.00E+00	7.55E-08	1.19E-08	2.01E-08	0.00E+00	3.20E-08
337	599600.5	4176704	1.41E-07	3.52E-07	0.00E+00	4.94E-07	1.41E-07	3.52E-07	0.00E+00	4.94E-07	2.30E-08	5.33E-08	0.00E+00	7.63E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
338	599609.8	4176705	1.42E-07	3.54E-07	0.00E+00	4.97E-07	1.42E-07	3.54E-07	0.00E+00	4.97E-07	2.31E-08	5.36E-08	0.00E+00	7.67E-08	1.21E-08	2.04E-08	0.00E+00	3.25E-08
339	599619.1	4176707	1.43E-07	3.55E-07	0.00E+00	4.98E-07	1.43E-07	3.55E-07	0.00E+00	4.98E-07	2.32E-08	5.37E-08	0.00E+00	7.69E-08	1.21E-08	2.05E-08	0.00E+00	3.26E-08
340	599597.4	4176724	1.35E-07	3.37E-07	0.00E+00	4.72E-07	1.35E-07	3.37E-07	0.00E+00	4.72E-07	2.20E-08	5.09E-08	0.00E+00	7.30E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
341	599606.7	4176725	1.34E-07	3.35E-07	0.00E+00	4.69E-07	1.34E-07	3.35E-07	0.00E+00	4.69E-07	2.19E-08	5.06E-08	0.00E+00	7.25E-08	1.14E-08	1.93E-08	0.00E+00	3.07E-08
342	599616	4176727	1.33E-07	3.30E-07	0.00E+00	4.63E-07	1.33E-07	3.30E-07	0.00E+00	4.63E-07	2.16E-08	4.99E-08	0.00E+00	7.15E-08	1.13E-08	1.90E-08	0.00E+00	3.03E-08
343	599706.8	4176314	2.64E-07	6.57E-07	0.00E+00	9.20E-07	2.64E-07	6.57E-07	0.00E+00	9.20E-07	4.29E-08	9.93E-08	0.00E+00	1.42E-07	2.24E-08	3.78E-08	0.00E+00	6.02E-08
344	599698.1	4176317	2.66E-07	6.62E-07	0.00E+00	9.28E-07	2.66E-07	6.62E-07	0.00E+00	9.28E-07	4.33E-08	1.00E-07	0.00E+00	1.43E-07	2.26E-08	3.82E-08	0.00E+00	6.08E-08
345	599689.4	4176319	2.67E-07	6.65E-07	0.00E+00	9.32E-07	2.67E-07	6.65E-07	0.00E+00	9.32E-07	4.34E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.83E-08	0.00E+00	6.10E-08
346	599705.1	4176324	2.5E-07	6.21E-07	0.00E+00	8.71E-07	2.50E-07	6.21E-07	0.00E+00	8.71E-07	4.06E-08	9.39E-08	0.00E+00	1.35E-07	2.12E-08	3.58E-08	0.00E+00	5.70E-08
347	599696.5	4176327	2.5E-07	6.23E-07	0.00E+00	8.73E-07	2.50E-07	6.23E-07	0.00E+00	8.73E-07	4.07E-08	9.42E-08	0.00E+00	1.35E-07	2.12E-08	3.59E-08	0.00E+00	5.72E-08
348	599687.8	4176329	2.53E-07	6.31E-07	0.00E+00	8.85E-07	2.53E-07	6.31E-07	0.00E+00	8.85E-07	4.12E-08	9.54E-08	0.00E+00	1.37E-07	2.15E-08	3.64E-08	0.00E+00	5.79E-08
349	599694.8	4176336	2.42E-07	6.03E-07	0.00E+00	8.45E-07	2.42E-07	6.03E-07	0.00E+00	8.45E-07	3.94E-08	9.12E-08	0.00E+00	1.31E-07	2.06E-08	3.48E-08	0.00E+00	5.53E-08
350	599701.8	4176344	2.33E-07	5.81E-07	0.00E+00	8.14E-07	2.33E-07	5.81E-07	0.00E+00	8.14E-07	3.79E-08	8.78E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.33E-08
351	599684.6	4176349	2.34E-07	5.83E-07	0.00E+00	8.18E-07	2.34E-07	5.83E-07	0.00E+00	8.18E-07	3.81E-08	8.82E-08	0.00E+00	1.26E-07	1.99E-08	3.36E-08	0.00E+00	5.35E-08
352	599700.2	4176354	2.3E-07	5.72E-07	0.00E+00	8.02E-07	2.30E-07	5.72E-07	0.00E+00	8.02E-07	3.74E-08	8.66E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.25E-08
353	599707.2	4176361	2.24E-07	5.58E-07	0.00E+00	7.83E-07	2.24E-07	5.58E-07	0.00E+00	7.83E-07	3.65E-08	8.44E-08	0.00E+00	1.21E-07	1.90E-08	3.22E-08	0.00E+00	5.12E-08
354	599690	4176366	2.33E-07	5.81E-07	0.00E+00	8.14E-07	2.33E-07	5.81E-07	0.00E+00	8.14E-07	3.79E-08	8.78E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.33E-08
355	599707.1	4176371	2.24E-07	5.57E-07	0.00E+00	7.80E-07	2.24E-07	5.57E-07	0.00E+00	7.80E-07	3.64E-08	8.42E-08	0.00E+00	1.21E-07	1.90E-08	3.21E-08	0.00E+00	5.11E-08
356	599698.1	4176373	2.31E-07	5.76E-07	0.00E+00	8.07E-07	2.31E-07	5.76E-07	0.00E+00	8.07E-07	3.76E-08	8.71E-08	0.00E+00	1.25E-07	1.96E-08	3.32E-08	0.00E+00	5.28E-08
357	599689.1	4176376	2.36E-07	5.88E-07	0.00E+00	8.24E-07	2.36E-07	5.88E-07	0.00E+00	8.24E-07	3.84E-08	8.89E-08	0.00E+00	1.27E-07	2.01E-08	3.39E-08	0.00E+00	5.39E-08
358	599680.2	4176378	2.34E-07	5.82E-07	0.00E+00	8.16E-07	2.34E-07	5.82E-07	0.00E+00	8.16E-07	3.80E-08	8.80E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.34E-08
359	599705.4	4176380	2.2E-07	5.48E-07	0.00E+00	7.68E-07	2.20E-07	5.48E-07	0.00E+00	7.68E-07	3.58E-08	8.29E-08	0.00E+00	1.19E-07	1.87E-08	3.16E-08	0.00E+00	5.03E-08
360	599696.4	4176383	2.26E-07	5.62E-07	0.00E+00	7.87E-07	2.26E-07	5.62E-07	0.00E+00	7.87E-07	3.67E-08	8.49E-08	0.00E+00	1.22E-07	1.92E-08	3.24E-08	0.00E+00	5.15E-08
361	599687.5	4176386	2.28E-07	5.67E-07	0.00E+00	7.94E-07	2.28E-07	5.67E-07	0.00E+00	7.94E-07	3.70E-08	8.57E-08	0.00E+00	1.23E-07	1.93E-08	3.27E-08	0.00E+00	5.20E-08
362	599678.6	4176388	2.29E-07	5.69E-07	0.00E+00	7.98E-07	2.29E-07	5.69E-07	0.00E+00	7.98E-07	3.72E-08	8.60E-08	0.00E+00	1.23E-07	1.94E-08	3.28E-08	0.00E+00	5.22E-08
363	599712.6	4176388	2.05E-07	5.11E-07	0.00E+00	7.16E-07	2.05E-07	5.11E-07	0.00E+00	7.16E-07	3.34E-08	7.73E-08	0.00E+00	1.11E-07	1.74E-08	2.95E-08	0.00E+00	4.69E-08
364	599703.7	4176390	2.11E-07	5.24E-07	0.00E+00	7.35E-07	2.11E-07	5.24E-07	0.00E+00	7.35E-07	3.43E-08	7.93E-08	0.00E+00	1.14E-07	1.79E-08	3.02E-08	0.00E+00	4.81E-08
365	599694.8	4176393	2.17E-07	5.39E-07	0.00E+00	7.56E-07	2.17E-07	5.39E-07	0.00E+00	7.56E-07	3.52E-08	8.15E-08	0.00E+00	1.17E-07	1.84E-08	3.11E-08	0.00E+00	4.95E-08
366	599685.9	4176396	2.21E-07	5.49E-07	0.00E+00	7.70E-07	2.21E-07	5.49E-07	0.00E+00	7.70E-07	3.59E-08	8.30E-08	0.00E+00	1.19E-07	1.87E-08	3.16E-08	0.00E+00	5.04E-08
367	599677	4176398	2.26E-07	5.62E-07	0.00E+00	7.88E-07	2.26E-07	5.62E-07	0.00E+00	7.88E-07	3.67E-08	8.50E-08	0.00E+00	1.22E-07	1.92E-08	3.24E-08	0.00E+00	5.16E-08
368	599702	4176400	2.02E-07	5.02E-07	0.00E+00	7.04E-07	2.02E-07	5.02E-07	0.00E+00	7.04E-07	3.28E-08	7.59E-08	0.00E+00	1.09E-07	1.71E-08	2.89E-08	0.00E+00	4.61E-08
369	599693.1	4176403	2.08E-07	5.18E-07	0.00E+00	7.26E-07	2.08E-07	5.18E-07	0.00E+00	7.26E-07	3.38E-08	7.83E-08	0.00E+00	1.12E-07	1.77E-08	2.99E-08	0.00E+00	4.75E-08
370	599684.2	4176405	2.15E-07	5.36E-07	0.00E+00	7.51E-07	2.15E-07	5.36E-07	0.00E+00	7.51E-07	3.50E-08	8.11E-08	0.00E+00	1.16E-07	1.83E-08	3.09E-08	0.00E+00	4.92E-08
371	599675.3	4176408	2.21E-07	5.51E-07	0.00E+00	7.72E-07	2.21E-07	5.51E-07	0.00E+00	7.72E-07	3.60E-08	8.33E-08	0.00E+00	1.19E-07	1.88E-08	3.17E-08	0.00E+00	5.05E-08
372	599691.5	4176413	1.91E-07	4.76E-07	0.00E+00	6.67E-07	1.91E-07	4.76E-07	0.00E+00	6.67E-07	3.11E-08	7.20E-08	0.00E+00	1.03E-07	1.62E-08	2.74E-08	0.00E+00	4.37E-08
373	599682.6	4176415	1.96E-07	4.89E-07	0.00E+00	6.85E-07	1.96E-07	4.89E-07	0.00E+00	6.85E-07	3.19E-08	7.39E-08	0.00E+00	1.06E-07	1.67E-08	2.82E-08	0.00E+00	4.48E-08
374	599673.7	4176418	2.04E-07	5.08E-07	0.00E+00	7.13E-07	2.04E-07	5.08E-07	0.00E+00	7.13E-07	3.32E-08	7.69E-08	0.00E+00	1.10E-07	1.73E-08	2.93E-08	0.00E+00	4.66E-08
375	599681	4176425	1.8E-07	4.48E-07	0.00E+00	6.28E-07	1.80E-07	4.48E-07	0.00E+00	6.28E-07	2.93E-08	6.77E-08	0.00E+00	9.70E-08	1.53E-08	2.58E-08	0.00E+00	4.11E-08
376	599672.1	4176428	1.9E-07	4.73E-07	0.00E+00	6.63E-07	1.90E-07	4.73E-07	0.00E+00	6.63E-07	3.09E-08	7.15E-08	0.00E+00	1.02E-07	1.61E-08	2.73E-08	0.00E+00	4.34E-08
377	599646.9	4176586	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.20E-09	1.55E-08	0.00E+00	2.47E-08
378	599661.9	4176600	1.06E-07	2.65E-07	0.00E+00	3.72E-07	1.06E-07	2.65E-07	0.00E+00	3.72E-07	1.73E-08	4.01E-08	0.00E+00	5.74E-08	9.04E-09	1.53E-08	0.00E+00	2.43E-08
379	599652.9	4176603	1.25E-07	3.12E-07	0.00E+00	4.37E-07	1.25E-07	3.12E-07	0.00E+00	4.37E-07	2.04E-08	4.71E-08	0.00E+00	6.75E-08	1.06E-08	1.80E-08	0.00E+00	2.86E-08
380	599643.9	4176606	1.5E-07	3.72E-07	0.00E+00	5.22E-07	1.50E-07	3.72E-07	0.00E+00	5.22E-07	2.43E-08	5.63E-08	0.00E+00	8.07E-08	1.27E-08	2.15E-08	0.00E+00	3.42E-08
381	599667.6	4176617	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.05E-08	4.73E-08	0.00E+00	6.78E-08	1.07E-08	1.80E-08	0.00E+00	2.87E-08
382	599658.6	4176620	1.47E-07	3.65E-07	0.00E+00	5.12E-07	1.47E-07	3.65E-07	0.00E+00	5.12E-07	2.39E-08	5.52E-08	0.00E+00	7.91E-08	1.25E-08	2.10E-08	0.00E+00	3.35E-08
383	599649.7	4176623	1.69E-07	4.21E-07	0.00E+00	5.90E-07	1.69E-07	4.21E-07	0.00E+00	5.90E-07	2.75E-08	6.36E-08	0.00E+00	9.11E-08	1.44E-08	2.43E-08	0.00E+00	3.86E-08
384	599640.7	4176625	1.87E-07	4.67E-07	0.00E+00	6.54E-07	1.87E-07	4.67E-07	0.00E+00	6.54E-07	3.05E-08	7.06E-08	0.00E+00	1.01E-07	1.59E-08	2.69E-08	0.00E+00	4.28E-08
385	599932.1	4176559	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.05E-08	0.00E+00	5.80E-08	9.14E-09	1.54E-08	0.00E+00	2.46E-08
386	599923.2	4176562	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.06E-08	0.00E+00	5.81E-08	9.15E-09	1.55E-08	0.00E+00	2.46E-08
387	599914.3	4176564	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.76E-08	4.07E-08	0.00E+00	5.83E-08	9.18E-09	1.55E-08	0.00E+00	2.47E-08
388	599905.3	4176567	1.09E-07	2.71E-07	0.00E+00	3.79E-07	1.09E-07	2.71E-07	0.00E+00	3.79E-07	1.77E-08	4.09E-08	0.00E+00	5.86E-08	9.23E-09	1.56E-08	0.00E+00	2.48E-08
389	599798.2	4176598	9.6E-08	2.39E-07	0.00E+00	3.35E-07	9.60E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.62E-08	0.00E+00	5.18E-08	8.15E-09	1.38E-08	0.00E+00	2.19E-08
390	599789.3	4176601	9.42E-08	2.35E-07	0.00E+00	3.29E-07	9.42E-08	2.35E-07	0.00E+00	3.29E-07	1.53E-08	3.55E-08	0.00E+00	5.08E-08	8.00E-09	1.35E-08	0.00E+00	2.15E-08
391	599691.1	4176629	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.56E-08	0.00E+00	6.54E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
392	599682.2	4176632	1.38E-07	3.44E-07	0.00E+00	4.82E-07	1.38E-07	3.44E-07	0.00E+00	4.82E-07	2.24E-08	5.20E-08	0.00E+00	7.44E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
393	599673.2	4176635	1.56E-07	3.89E-07	0.00E+00	5.45E-07	1.56E-07	3.89E-07	0.00E+00	5.45E-07	2.54E-08	5.88E-08	0.00E+00	8.42E-08	1.33E-08	2.24E-08	0.00E+00	3.57E-08
394	599664.3	4176637	1.74E-07	4.32E-07	0.00E+00	6.06E-07	1.74E-07	4.32E-07	0.00E+00	6.06E-07	2.82E-08	6.54E-08	0.00E+00	9.36E-08	1.47E-08	2.49E-08	0.00E+00	3.97E-08
395	599655.4	4176640	1.86E-07	4.63E-07	0.00E+00	6.49E-07	1.86E-07	4.63E-07	0.00E+00	6.49E-07	3.03E-08	7.00E-08	0.00E+00	1.00E-07	1.58E-08	2.67E-08	0.00E+00	4.25E-08
396	599646.5	4176642	1.94E-07	4.83E-07	0.00E+00	6.77E-07	1.94E-07	4.83E-07	0.00E+00	6.77E-07	3.16E-08	7.31E-08	0.00E+00	1.05E-07	1.65E-08	2.79E-08	0.00E+00	4.43E-08
397	599637.5	4176645	1.99E-07	4.95E-07	0.00E+00	6.94E-07	1.99E-07	4.95E-07	0.00E+00	6.94E-07	3.23E-08	7.48E-08	0.00E+00	1.07E-07	1.69E-08	2.85E-08	0.00E+00	4.54E-08
398	599945.8	4176574	1.1E-07	2.73E-07	0.00E+00	3.83E-07	1.10E-07	2.73E-07	0.00E+00	3.83E-07	1.78E-08	4.13E-08	0.00E+00	5.91E-08	9.31E-09	1.57E-08	0.00E+00	2.51E-08
399	599936.9	4176576	1.1E-07	2.74E-07	0.00E+00	3.85E-07	1.10E-07	2.74E-07	0.00E+00	3.85E-07	1.79E-08	4.15E-08	0.00E+00	5.94E-08	9.36E-09	1.58E-08	0.00E+00	2.52E-08
400	599928	4176579	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.80E-08	4.17E-08	0.00E+00	5.98E-08	9.41E-09	1.59E-08	0.00E+00	2.53E-08
401	599919.1	4176582	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.21E-08	0.00E+00	6.04E-08	9.50E-09	1.61E-08	0.00E+00	2.56E-08
402	599910.2	4176584	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.84E-08	4.27E-08	0.00E+00	6.11E-08	9.62E-09	1.63E-08	0.00E+00	2.59E-08
403	599901.3	4176587	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.86E-08	4.31E-08	0.00E+00	6.18E-08	9.73E-09	1.64E-08	0.00E+00	2.62E-08
404	599892.4	4176589	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.33E-08	0.00E+00	6.20E-08	9.76E-09	1.65E-08	0.00E+00	2.63E-08
405	599883.5	4176592	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.88E-08	4.34E-08	0.00E+00	6.22E-08	9.79E-09	1.66E-08	0.00E+00	2.63E-08
406	599874.6	4176595	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.82E-09	1.66E-08	0.00E+00	2.64E-08
407	599830.1	4176608	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.74E-08	4.03E-08	0.00E+00	5.78E-08	9.09E-09	1.54E-08	0.00E+00	2.45E-08
408	599821.2	4176610	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.72E-08	3.99E-08	0.00E+00	5.71E-08	8.99E-09	1.52E-08	0.00E+00	2.42E-08
409	599812.3	4176613	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.65E-08	8.90E-09	1.50E-08	0.00E+00	2.39E-08
410	599803.4	4176615	1.04E-07	2.59E-07	0.00E+00	3.62E-07	1.04E-07	2.59E-07	0.00E+00	3.62E-07	1.69E-08	3.91E-08	0.00E+00	5.60E-08	8.82E-09	1.49E-08	0.00E+00	2.37E-08
411	599794.5	4176618	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.73E-09	1.47E-08	0.00E+00	2.35E-08
412	599785.6	4176621	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.47E-08	8.61E-09	1.45E-08	0.00E+00	2.32E-08
413	599776.7	4176623	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.80E-08	0.00E+00	5.44E-08	8.56E-09	1.45E-08	0.00E+00	2.30E-08
414	599767.8	4176626	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.79E-08	0.00E+00	5.43E-08	8.55E-09	1.45E-08	0.00E+00	2.30E-08
415	599758.9	4176628	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.80E-08	0.00E+00	5.44E-08	8.56E-09	1.45E-08	0.00E+00	2.30E-08
416	599750	4176631	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.51E-08	8.68E-09	1.47E-08	0.00E+00	2.33E-08
417	599741.1	4176634	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.96E-09	1.51E-08	0.00E+00	2.41E-08
418	599714.4	4176641	1.28E-07	3.18E-07	0.00E+00	4.45E-07	1.28E-07	3.18E-07	0.00E+00	4.45E-07	2.08E-08	4.80E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
419	599705.5	4176644	1.4E-07	3.50E-07	0.00E+00	4.90E-07	1.40E-07	3.50E-07	0.00E+00	4.90E-07	2.28E-08	5.28E-08	0.00E+00	7.57E-08	1.19E-08	2.01E-08	0.00E+00	3.21E-08
420	599696.6	4176647	1.54E-07	3.82E-07	0.00E+00	5.36E-07	1.54E-07	3.82E-07	0.00E+00	5.36E-07	2.50E-08	5.78E-08	0.00E+00	8.28E-08	1.30E-08	2.20E-08	0.00E+00	3.51E-08
421	599687.7	4176649	1.65E-07	4.11E-07	0.00E+00	5.77E-07	1.65E-07	4.11E-07	0.00E+00	5.77E-07	2.69E-08	6.22E-08	0.00E+00	8.91E-08	1.40E-08	2.37E-08	0.00E+00	3.77E-08
422	599678.8	4176652	1.75E-07	4.37E-07	0.00E+00	6.12E-07	1.75E-07	4.37E-07	0.00E+00	6.12E-07	2.85E-08	6.61E-08	0.00E+00	9.46E-08	1.49E-08	2.52E-08	0.00E+00	4.01E-08
423	599669.9	4176654	1.83E-07	4.56E-07	0.00E+00	6.39E-07	1.83E-07	4.56E-07	0.00E+00	6.39E-07	2.98E-08	6.89E-08	0.00E+00	9.87E-08	1.55E-08	2.63E-08	0.00E+00	4.18E-08
424	599661	4176657	1.87E-07	4.67E-07	0.00E+00	6.54E-07	1.87E-07	4.67E-07	0.00E+00	6.54E-07	3.05E-08	7.05E-08	0.00E+00	1.01E-07	1.59E-08	2.69E-08	0.00E+00	4.28E-08
425	599652.1	4176660	1.88E-07	4.68E-07	0.00E+00	6.56E-07	1.88E-07	4.68E-07	0.00E+00	6.56E-07	3.06E-08	7.08E-08	0.00E+00	1.01E-07	1.60E-08	2.70E-08	0.00E+00	4.29E-08
426	599643.2	4176662	1.88E-07	4.67E-07	0.00E+00	6.55E-07	1.88E-07	4.67E-07	0.00E+00	6.55E-07	3.05E-08	7.06E-08	0.00E+00	1.01E-07	1.59E-08	2.69E-08	0.00E+00	4.29E-08
427	599634.3	4176665	1.86E-07	4.64E-07	0.00E+00	6.50E-07	1.86E-07	4.64E-07	0.00E+00	6.50E-07	3.03E-08	7.02E-08	0.00E+00	1.00E-07	1.58E-08	2.67E-08	0.00E+00	4.26E-08
428	600237	4176084	1.64E-07	4.08E-07	0.00E+00	5.72E-07	1.64E-07	4.08E-07	0.00E+00	5.72E-07	2.67E-08	6.17E-08	0.00E+00	8.84E-08	1.39E-08	2.35E-08	0.00E+00	3.74E-08
429	600236.6	4176075	1.65E-07	4.12E-07	0.00E+00	5.77E-07	1.65E-07	4.12E-07	0.00E+00	5.77E-07	2.69E-08	6.22E-08	0.00E+00	8.91E-08	1.40E-08	2.37E-08	0.00E+00	3.78E-08
430	600012.7	4176573	1.01E-07	2.53E-07	0.00E+00	3.54E-07	1.01E-07	2.53E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.47E-08	8.62E-09	1.46E-08	0.00E+00	2.32E-08
431	599959.4	4176589	1.14E-07	2.84E-07	0.00E+00	3.97E-07	1.14E-07	2.84E-07	0.00E+00	3.97E-07	1.85E-08	4.29E-08	0.00E+00	6.14E-08	9.67E-09	1.63E-08	0.00E+00	2.60E-08
432	599950.6	4176591	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.29E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
433	599941.7	4176594	1.15E-07	2.86E-07	0.00E+00	4.00E-07	1.15E-07	2.86E-07	0.00E+00	4.00E-07	1.87E-08	4.32E-08	0.00E+00	6.19E-08	9.74E-09	1.65E-08	0.00E+00	2.62E-08
434	599932.8	4176596	1.16E-07	2.89E-07	0.00E+00	4.04E-07	1.16E-07	2.89E-07	0.00E+00	4.04E-07	1.89E-08	4.36E-08	0.00E+00	6.25E-08	9.84E-09	1.66E-08	0.00E+00	2.65E-08
435	599923.9	4176599	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.92E-08	4.44E-08	0.00E+00	6.35E-08	1.00E-08	1.69E-08	0.00E+00	2.69E-08
436	599915.1	4176602	1.2E-07	2.98E-07	0.00E+00	4.18E-07	1.20E-07	2.98E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.46E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
437	599906.2	4176604	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.98E-08	4.59E-08	0.00E+00	6.57E-08	1.03E-08	1.75E-08	0.00E+00	2.78E-08

438	599897.3	4176607	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.63E-08	0.00E+00	6.63E-08	1.04E-08	1.76E-08	0.00E+00	2.81E-08
439	599888.5	4176609	1.23E-07	3.07E-07	0.00E+00	4.31E-07	1.23E-07	3.07E-07	0.00E+00	4.31E-07	2.01E-08	4.65E-08	0.00E+00	6.66E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
440	599879.6	4176612	1.24E-07	3.09E-07	0.00E+00	4.33E-07	1.24E-07	3.09E-07	0.00E+00	4.33E-07	2.02E-08	4.67E-08	0.00E+00	6.68E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08
441	599870.7	4176615	1.23E-07	3.07E-07	0.00E+00	4.30E-07	1.23E-07	3.07E-07	0.00E+00	4.30E-07	2.01E-08	4.64E-08	0.00E+00	6.65E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
442	599861.8	4176617	1.2E-07	3.00E-07	0.00E+00	4.21E-07	1.20E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
443	599853	4176620	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.92E-08	4.45E-08	0.00E+00	6.37E-08	1.00E-08	1.70E-08	0.00E+00	2.70E-08
444	599844.1	4176622	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.89E-08	4.37E-08	0.00E+00	6.26E-08	9.86E-09	1.67E-08	0.00E+00	2.65E-08
445	599835.2	4176625	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.89E-08	4.38E-08	0.00E+00	6.28E-08	9.89E-09	1.67E-08	0.00E+00	2.66E-08
446	599826.3	4176627	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.89E-08	4.38E-08	0.00E+00	6.28E-08	9.89E-09	1.67E-08	0.00E+00	2.66E-08
447	599817.5	4176630	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.89E-08	4.37E-08	0.00E+00	6.26E-08	9.86E-09	1.67E-08	0.00E+00	2.65E-08
448	599808.6	4176633	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.88E-08	4.34E-08	0.00E+00	6.22E-08	9.79E-09	1.65E-08	0.00E+00	2.63E-08
449	599799.7	4176635	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
450	599790.9	4176638	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.08E-08	9.57E-09	1.62E-08	0.00E+00	2.57E-08
451	599782	4176640	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.82E-08	4.20E-08	0.00E+00	6.02E-08	9.48E-09	1.60E-08	0.00E+00	2.55E-08
452	599773.1	4176643	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.84E-08	4.25E-08	0.00E+00	6.09E-08	9.59E-09	1.62E-08	0.00E+00	2.58E-08
453	599764.2	4176646	1.15E-07	2.86E-07	0.00E+00	4.00E-07	1.15E-07	2.86E-07	0.00E+00	4.00E-07	1.87E-08	4.32E-08	0.00E+00	6.18E-08	9.74E-09	1.65E-08	0.00E+00	2.62E-08
454	599755.4	4176648	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.90E-08	4.41E-08	0.00E+00	6.31E-08	9.94E-09	1.68E-08	0.00E+00	2.67E-08
455	599746.5	4176651	1.23E-07	3.06E-07	0.00E+00	4.28E-07	1.23E-07	3.06E-07	0.00E+00	4.28E-07	2.00E-08	4.62E-08	0.00E+00	6.62E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
456	599737.6	4176653	1.29E-07	3.22E-07	0.00E+00	4.51E-07	1.29E-07	3.22E-07	0.00E+00	4.51E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
457	599728.8	4176656	1.36E-07	3.37E-07	0.00E+00	4.73E-07	1.36E-07	3.37E-07	0.00E+00	4.73E-07	2.20E-08	5.10E-08	0.00E+00	7.31E-08	1.15E-08	1.94E-08	0.00E+00	3.10E-08
458	599719.9	4176659	1.43E-07	3.57E-07	0.00E+00	5.00E-07	1.43E-07	3.57E-07	0.00E+00	5.00E-07	2.33E-08	5.40E-08	0.00E+00	7.73E-08	1.22E-08	2.06E-08	0.00E+00	3.28E-08
459	599711	4176661	1.54E-07	3.82E-07	0.00E+00	5.36E-07	1.54E-07	3.82E-07	0.00E+00	5.36E-07	2.50E-08	5.78E-08	0.00E+00	8.28E-08	1.30E-08	2.20E-08	0.00E+00	3.51E-08
460	599702.1	4176664	1.64E-07	4.07E-07	0.00E+00	5.71E-07	1.64E-07	4.07E-07	0.00E+00	5.71E-07	2.66E-08	6.16E-08	0.00E+00	8.82E-08	1.39E-08	2.35E-08	0.00E+00	3.73E-08
461	599693.3	4176666	1.72E-07	4.29E-07	0.00E+00	6.01E-07	1.72E-07	4.29E-07	0.00E+00	6.01E-07	2.80E-08	6.48E-08	0.00E+00	9.28E-08	1.46E-08	2.47E-08	0.00E+00	3.93E-08
462	599684.4	4176669	1.77E-07	4.42E-07	0.00E+00	6.19E-07	1.77E-07	4.42E-07	0.00E+00	6.19E-07	2.88E-08	6.68E-08	0.00E+00	9.56E-08	1.51E-08	2.54E-08	0.00E+00	4.05E-08
463	599675.5	4176672	1.81E-07	4.50E-07	0.00E+00	6.31E-07	1.81E-07	4.50E-07	0.00E+00	6.31E-07	2.94E-08	6.80E-08	0.00E+00	9.74E-08	1.53E-08	2.59E-08	0.00E+00	4.13E-08
464	599666.6	4176674	1.83E-07	4.55E-07	0.00E+00	6.37E-07	1.83E-07	4.55E-07	0.00E+00	6.37E-07	2.97E-08	6.88E-08	0.00E+00	9.85E-08	1.55E-08	2.62E-08	0.00E+00	4.17E-08
465	599657.8	4176677	1.81E-07	4.52E-07	0.00E+00	6.33E-07	1.81E-07	4.52E-07	0.00E+00	6.33E-07	2.95E-08	6.83E-08	0.00E+00	9.78E-08	1.54E-08	2.60E-08	0.00E+00	4.14E-08
466	599648.9	4176679	1.78E-07	4.43E-07	0.00E+00	6.21E-07	1.78E-07	4.43E-07	0.00E+00	6.21E-07	2.90E-08	6.70E-08	0.00E+00	9.60E-08	1.51E-08	2.55E-08	0.00E+00	4.07E-08
467	599640	4176682	1.74E-07	4.33E-07	0.00E+00	6.07E-07	1.74E-07	4.33E-07	0.00E+00	6.07E-07	2.83E-08	6.54E-08	0.00E+00	9.37E-08	1.48E-08	2.49E-08	0.00E+00	3.97E-08
468	599631.2	4176685	1.68E-07	4.18E-07	0.00E+00	5.86E-07	1.68E-07	4.18E-07	0.00E+00	5.86E-07	2.73E-08	6.32E-08	0.00E+00	9.06E-08	1.43E-08	2.41E-08	0.00E+00	3.84E-08
469	600258.2	4176111	1.36E-07	3.38E-07	0.00E+00	4.74E-07	1.36E-07	3.38E-07	0.00E+00	4.74E-07	2.21E-08	5.11E-08	0.00E+00	7.32E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
470	600257.8	4176102	1.41E-07	3.51E-07	0.00E+00	4.91E-07	1.41E-07	3.51E-07	0.00E+00	4.91E-07	2.29E-08	5.30E-08	0.00E+00	7.59E-08	1.20E-08	2.02E-08	0.00E+00	3.22E-08
471	600257.4	4176093	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.82E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
472	600257	4176083	1.49E-07	3.72E-07	0.00E+00	5.21E-07	1.49E-07	3.72E-07	0.00E+00	5.21E-07	2.43E-08	5.62E-08	0.00E+00	8.05E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
473	600256.6	4176074	1.51E-07	3.76E-07	0.00E+00	5.27E-07	1.51E-07	3.76E-07	0.00E+00	5.27E-07	2.46E-08	5.69E-08	0.00E+00	8.15E-08	1.28E-08	2.17E-08	0.00E+00	3.45E-08
474	600275	4176128	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.92E-08	4.43E-08	0.00E+00	6.35E-08	1.00E-08	1.69E-08	0.00E+00	2.69E-08
475	600271.4	4176137	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.83E-09	1.66E-08	0.00E+00	2.65E-08
476	600026.1	4176588	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.65E-08	3.81E-08	0.00E+00	5.46E-08	8.59E-09	1.45E-08	0.00E+00	2.31E-08
477	600017.3	4176590	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.51E-08	8.68E-09	1.47E-08	0.00E+00	2.33E-08
478	600008.4	4176593	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.76E-09	1.48E-08	0.00E+00	2.36E-08
479	599999.6	4176596	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.70E-08	3.94E-08	0.00E+00	5.64E-08	8.88E-09	1.50E-08	0.00E+00	2.39E-08
480	599990.7	4176598	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.07E-09	1.53E-08	0.00E+00	2.44E-08
481	599981.9	4176601	1.1E-07	2.73E-07	0.00E+00	3.83E-07	1.10E-07	2.73E-07	0.00E+00	3.83E-07	1.79E-08	4.13E-08	0.00E+00	5.92E-08	9.32E-09	1.58E-08	0.00E+00	2.51E-08
482	599973	4176603	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.08E-08	9.57E-09	1.62E-08	0.00E+00	2.57E-08
483	599964.2	4176606	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.23E-08	9.81E-09	1.66E-08	0.00E+00	2.64E-08
484	599955.4	4176609	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.91E-08	4.42E-08	0.00E+00	6.33E-08	9.97E-09	1.69E-08	0.00E+00	2.68E-08
485	599946.5	4176611	1.2E-07	2.98E-07	0.00E+00	4.18E-07	1.20E-07	2.98E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.46E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
486	599937.7	4176614	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.63E-08	0.00E+00	6.63E-08	1.04E-08	1.76E-08	0.00E+00	2.81E-08
487	599928.8	4176616	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.05E-08	4.74E-08	0.00E+00	6.78E-08	1.07E-08	1.81E-08	0.00E+00	2.87E-08
488	599920	4176619	1.28E-07	3.19E-07	0.00E+00	4.47E-07	1.28E-07	3.19E-07	0.00E+00	4.47E-07	2.08E-08	4.82E-08	0.00E+00	6.90E-08	1.09E-08	1.84E-08	0.00E+00	2.92E-08
489	599911.1	4176622	1.31E-07	3.25E-07	0.00E+00	4.56E-07	1.31E-07	3.25E-07	0.00E+00	4.56E-07	2.12E-08	4.92E-08	0.00E+00	7.04E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
490	599902.3	4176624	1.33E-07	3.32E-07	0.00E+00	4.65E-07	1.33E-07	3.32E-07	0.00E+00	4.65E-07	2.17E-08	5.02E-08	0.00E+00	7.19E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
491	599893.4	4176627	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.05E-08	0.00E+00	7.23E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
492	599884.6	4176629	1.35E-07	3.35E-07	0.00E+00	4.70E-07	1.35E-07	3.35E-07	0.00E+00	4.70E-07	2.19E-08	5.07E-08	0.00E+00	7.26E-08	1.14E-08	1.93E-08	0.00E+00	3.08E-08
493	599875.7	4176632	1.35E-07	3.37E-07	0.00E+00	4.72E-07	1.35E-07	3.37E-07	0.00E+00	4.72E-07	2.20E-08	5.09E-08	0.00E+00	7.29E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
494	599866.9	4176634	1.34E-07	3.35E-07	0.00E+00	4.69E-07	1.34E-07	3.35E-07	0.00E+00	4.69E-07	2.19E-08	5.06E-08	0.00E+00	7.25E-08	1.14E-08	1.93E-08	0.00E+00	3.07E-08
495	599858	4176637	1.34E-07	3.32E-07	0.00E+00	4.66E-07	1.34E-07	3.32E-07	0.00E+00	4.66E-07	2.17E-08	5.03E-08	0.00E+00	7.20E-08	1.13E-08	1.92E-08	0.00E+00	3.05E-08
496	599849.2	4176640	1.33E-07	3.31E-07	0.00E+00	4.64E-07	1.33E-07	3.31E-07	0.00E+00	4.64E-07	2.16E-08	5.01E-08	0.00E+00	7.17E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
497	599840.3	4176642	1.33E-07	3.31E-07	0.00E+00	4.64E-07	1.33E-07	3.31E-07	0.00E+00	4.64E-07	2.16E-08	5.01E-08	0.00E+00	7.17E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
498	599831.5	4176645	1.33E-07	3.31E-07	0.00E+00	4.64E-07	1.33E-07	3.31E-07	0.00E+00	4.64E-07	2.16E-08	5.00E-08	0.00E+00	7.17E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
499	599822.6	4176647	1.32E-07	3.29E-07	0.00E+00	4.61E-07	1.32E-07	3.29E-07	0.00E+00	4.61E-07	2.15E-08	4.97E-08	0.00E+00	7.12E-08	1.12E-08	1.89E-08	0.00E+00	3.02E-08
500	599813.8	4176650	1.31E-07	3.25E-07	0.00E+00	4.56E-07	1.31E-07	3.25E-07	0.00E+00	4.56E-07	2.13E-08	4.92E-08	0.00E+00	7.04E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
501	599804.9	4176653	1.29E-07	3.22E-07	0.00E+00	4.51E-07	1.29E-07	3.22E-07	0.00E+00	4.51E-07	2.10E-08	4.87E-08	0.00E+00	6.97E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
502	599796.1	4176655	1.28E-07	3.18E-07	0.00E+00	4.46E-07	1.28E-07	3.18E-07	0.00E+00	4.46E-07	2.08E-08	4.81E-08	0.00E+00	6.90E-08	1.09E-08	1.84E-08	0.00E+00	2.92E-08
503	599787.2	4176658	1.27E-07	3.16E-07	0.00E+00	4.42E-07	1.27E-07	3.16E-07	0.00E+00	4.42E-07	2.06E-08	4.77E-08	0.00E+00	6.83E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
504	599778.4	4176660	1.28E-07	3.19E-07	0.00E+00	4.48E-07	1.28E-07	3.19E-07	0.00E+00	4.48E-07	2.09E-08	4.83E-08	0.00E+00	6.92E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
505	599769.5	4176663	1.32E-07	3.29E-07	0.00E+00	4.61E-07	1.32E-07	3.29E-07	0.00E+00	4.61E-07	2.15E-08	4.97E-08	0.00E+00	7.12E-08	1.12E-08	1.90E-08	0.00E+00	3.02E-08
506	599760.7	4176666	1.37E-07	3.40E-07	0.00E+00	4.77E-07	1.37E-07	3.40E-07	0.00E+00	4.77E-07	2.22E-08	5.14E-08	0.00E+00	7.36E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
507	599751.8	4176668	1.42E-07	3.53E-07	0.00E+00	4.95E-07	1.42E-07	3.53E-07	0.00E+00	4.95E-07	2.31E-08	5.34E-08	0.00E+00	7.64E-08	1.20E-08	2.03E-08	0.00E+00	3.24E-08
508	599743	4176671	1.47E-07	3.65E-07	0.00E+00	5.12E-07	1.47E-07	3.65E-07	0.00E+00	5.12E-07	2.39E-08	5.52E-08	0.00E+00	7.91E-08	1.25E-08	2.10E-08	0.00E+00	3.35E-08
509	599734.2	4176673	1.51E-07	3.76E-07	0.00E+00	5.27E-07	1.51E-07	3.76E-07	0.00E+00	5.27E-07	2.46E-08	5.68E-08	0.00E+00	8.14E-08	1.28E-08	2.17E-08	0.00E+00	3.45E-08
510	599725.3	4176676	1.55E-07	3.85E-07	0.00E+00	5.39E-07	1.55E-07	3.85E-07	0.00E+00	5.39E-07	2.51E-08	5.82E-08	0.00E+00	8.33E-08	1.31E-08	2.22E-08	0.00E+00	3.53E-08
511	599716.5	4176678	1.61E-07	4.01E-07	0.00E+00	5.62E-07	1.61E-07	4.01E-07	0.00E+00	5.62E-07	2.62E-08	6.06E-08	0.00E+00	8.68E-08	1.37E-08	2.31E-08	0.00E+00	3.68E-08
512	599707.6	4176681	1.67E-07	4.16E-07	0.00E+00	5.83E-07	1.67E-07	4.16E-07	0.00E+00	5.83E-07	2.72E-08	6.29E-08	0.00E+00	9.01E-08	1.42E-08	2.40E-08	0.00E+00	3.82E-08
513	599698.8	4176684	1.72E-07	4.28E-07	0.00E+00	5.99E-07	1.72E-07	4.28E-07	0.00E+00	5.99E-07	2.79E-08	6.47E-08	0.00E+00	9.26E-08	1.46E-08	2.46E-08	0.00E+00	3.92E-08
514	599689.9	4176686	1.74E-07	4.33E-07	0.00E+00	6.07E-07	1.74E-07	4.33E-07	0.00E+00	6.07E-07	2.83E-08	6.55E-08	0.00E+00	9.37E-08	1.48E-08	2.49E-08	0.00E+00	3.97E-08
515	599681.1	4176689	1.74E-07	4.32E-07	0.00E+00	6.06E-07	1.74E-07	4.32E-07	0.00E+00	6.06E-07	2.82E-08	6.53E-08	0.00E+00	9.36E-08	1.47E-08	2.49E-08	0.00E+00	3.96E-08
516	599672.2	4176691	1.73E-07	4.30E-07	0.00E+00	6.03E-07	1.73E-07	4.30E-07	0.00E+00	6.03E-07	2.81E-08	6.50E-08	0.00E+00	9.31E-08	1.47E-08	2.48E-08	0.00E+00	3.94E-08
517	599663.4	4176694	1.71E-07	4.26E-07	0.00E+00	5.97E-07	1.71E-07	4.26E-07	0.00E+00	5.97E-07	2.78E-08	6.45E-08	0.00E+00	9.23E-08	1.45E-08	2.46E-08	0.00E+00	3.91E-08
518	599654.5	4176697	1.66E-07	4.13E-07	0.00E+00	5.79E-07	1.66E-07	4.13E-07	0.00E+00	5.79E-07	2.70E-08	6.25E-08	0.00E+00	8.94E-08	1.41E-08	2.38E-08	0.00E+00	3.79E-08
519	599645.7	4176699	1.6E-07	3.97E-07	0.00E+00	5.57E-07	1.60E-07	3.97E-07	0.00E+00	5.57E-07	2.59E-08	6.01E-08	0.00E+00	8.60E-08	1.35E-08	2.29E-08	0.00E+00	3.64E-08
520	599636.8	4176702	1.52E-07	3.78E-07	0.00E+00	5.30E-07	1.52E-07	3.78E-07	0.00E+00	5.30E-07	2.47E-08	5.72E-08	0.00E+00	8.19E-08	1.29E-08	2.18E-08	0.00E+00	3.47E-08
521	599628	4176704	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.87E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
522	600278.6	4176120	1.2E-07	2.98E-07	0.00E+00	4.18E-07	1.20E-07	2.98E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.45E-08	1.02E-08	1.72E-08	0.00E+00	2.73E-08
523	600278.2	4176110	1.24E-07	3.09E-07	0.00E+00	4.33E-07	1.24E-07	3.09E-07	0.00E+00	4.33E-07	2.02E-08	4.67E-08	0.00E+00	6.69E-08	1.05E-08	1.78E-08	0.00E+00	2.84E-08
524	600277.8	4176101	1.28E-07	3.19E-07	0.00E+00	4.47E-07	1.28E-07	3.19E-07	0.00E+00	4.47E-07	2.09E-08	4.83E-08	0.00E+00	6.91E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
525	600277.4	4176092	1.32E-07	3.28E-07	0.00E+00	4.60E-07	1.32E-07	3.28E-07	0.00E+00	4.60E-07	2.14E-08	4.96E-08	0.00E+00	7.10E-08	1.12E-08	1.89E-08	0.00E+00	3.01E-08
526	600277	4176082	1.35E-07	3.37E-07	0.00E+00	4.72E-07	1.35E-07	3.37E-07	0.00E+00	4.72E-07	2.20E-08	5.10E-08	0.00E+00	7.30E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
527	600276.6	4176073	1.37E-07	3.40E-07	0.00E+00	4.77E-07	1.37E-07	3.40E-07	0.00E+00	4.77E-07	2.22E-08	5.15E-08	0.00E+00	7.37E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
528	600294.9	4176128	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.88E-08	9.27E-09	1.57E-08	0.00E+00	2.49E-08
529	600291.2	4176136	1.07E-07	2.67E-07	0.00E+00	3.75E-07	1.07E-07	2.67E-07	0.00E+00	3.75E-07	1.75E-08	4.04E-08	0.00E+00	5.79E-08	9.11E-09	1.54E-08	0.00E+00	2.45E-08
530	600287.6	4176145	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.67E-08	8.93E-09	1.51E-08	0.00E+00	2.40E-08
531	600283.9	4176154	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.67E-08	3.88E-08	0.00E+00	5.55E-08	8.74E-09	1.48E-08	0.00E+00	2.35E-08
532	600280.3	4176162	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.80E-08	0.00E+00	5.44E-08	8.56E-09	1.45E-08	0.00E+00	2.30E-08
533	600276.6	4176171	9.83E-08	2.45E-07	0.00E+00	3.43E-07	9.83E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.30E-08	8.35E-09	1.41E-08	0.00E+00	2.25E-08
534	600273	4176179	9.56E-08	2.38E-07	0.00E+00	3.34E-07	9.56E-08	2.38E-07	0.00E+00	3.34E-07	1.55E-08	3.60E-08	0.00E+00	5.15E-08	8.11E-09	1.37E-08	0.00E+00	2.18E-08
535	600269.3	4176188	9.3E-08	2.31E-07	0.00E+00	3.24E-07	9.30E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.50E-08	0.00E+00	5.01E-08	7.89E-09	1.33E-08	0.00E+00	2.12E-08
536	600265.7	4176197	9.05E-08	2.25E-07	0.00E+00	3.16E-07	9.05E-08	2.25E-07	0.00E+00	3.16E-07	1.47E-08	3.41E-08	0.00E+00	4.88E-08	7.68E-09	1.30E-08	0.00E+00	2.07E-08
537	600262	4176205	8.76E-08	2.18E-07	0.00E+00	3.06E-07	8.76E-08	2.18E-07	0.00E+00	3.06E-07	1.42E-08	3.30E-08	0.00E+00	4.72E-08	7.43E-09	1.26E-08	0.00E+00	2.00E-08
538	600020.5	4176608	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.65E-08	3.81E-08	0.00E+00	5.45E-08	8.59E-09	1.45E-08	0.00E+00	2.31E-08
539	600011.5	4176611	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.68E-08	3.90E-08	0.00E+00	5.58E-08	8.79E-09	1.49E-08	0.00E+00	2.36E-08
540	600002.5	4176614	1.06E-07	2.65E-07	0.00E+00	3.72E-07	1.06E-07	2.65E-07	0.00E+00	3.72E-07	1.73E-08	4.01E-08	0.00E+00	5.74E-08	9.04E-09	1.53E-08	0.00E+00	2.43E-08
541	599993.5	4176616	1.1E-07	2.74E-07	0.00E+00	3.84E-07	1.10E-07	2.74E-07	0.00E+00	3.84E-07	1.79E-08	4.14E-08	0.00E+00	5.93E-08	9.34E-09	1.58E-08	0.00E+00	2.51E-08
542	599984.5	4176619	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.22E-08	0.00E+00	6.04E-08	9.51E-09	1.61E-08	0.00E+00	2.56E-08
543	599975.5	4176622	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.86E-08	4.31E-08	0.00E+00	6.17E-08	9.71E-09	1.64E-08	0.00E+00	2.61E-08
544	599966.5	4176624	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.91E-08	4.41E-08	0.00E+00	6.32E-08	9.95E-09	1.68E-08	0.00E+00	2.68E-08
545	599957.5	4176627	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
546	599948.6	4176629	1.24E-07	3.10E-07	0.00E+00	4.34E-07	1.24E-07	3.10E-07	0.00E+00	4.34E-07	2.02E-08	4.68E-08	0.00E+00	6.70E-08	1.06E-08	1.78E-08	0.00E+00	2.84E-08
547	599939.6	4176632	1.29E-07	3.21E-07	0.00E+00	4.49E-07	1.29E-07	3.21E-07	0.00E+00	4.49E-07	2.09E-08	4.85E-08	0.00E+00	6.94E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08

548	599930.6	4176635	1.33E-07	3.32E-07	0.00E+00	4.65E-07	1.33E-07	3.32E-07	0.00E+00	4.65E-07	2.17E-08	5.01E-08	0.00E+00	7.18E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
549	599921.6	4176637	1.37E-07	3.42E-07	0.00E+00	4.79E-07	1.37E-07	3.42E-07	0.00E+00	4.79E-07	2.23E-08	5.17E-08	0.00E+00	7.40E-08	1.17E-08	1.97E-08	0.00E+00	3.14E-08
550	599912.6	4176640	1.41E-07	3.52E-07	0.00E+00	4.93E-07	1.41E-07	3.52E-07	0.00E+00	4.93E-07	2.30E-08	5.32E-08	0.00E+00	7.61E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
551	599903.6	4176643	1.46E-07	3.64E-07	0.00E+00	5.10E-07	1.46E-07	3.64E-07	0.00E+00	5.10E-07	2.38E-08	5.50E-08	0.00E+00	7.87E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
552	599894.6	4176645	1.47E-07	3.66E-07	0.00E+00	5.13E-07	1.47E-07	3.66E-07	0.00E+00	5.13E-07	2.39E-08	5.53E-08	0.00E+00	7.92E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
553	599885.6	4176648	1.47E-07	3.66E-07	0.00E+00	5.13E-07	1.47E-07	3.66E-07	0.00E+00	5.13E-07	2.39E-08	5.53E-08	0.00E+00	7.92E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
554	599876.6	4176650	1.47E-07	3.66E-07	0.00E+00	5.13E-07	1.47E-07	3.66E-07	0.00E+00	5.13E-07	2.39E-08	5.53E-08	0.00E+00	7.92E-08	1.25E-08	2.11E-08	0.00E+00	3.35E-08
555	599867.7	4176653	1.47E-07	3.66E-07	0.00E+00	5.13E-07	1.47E-07	3.66E-07	0.00E+00	5.13E-07	2.39E-08	5.53E-08	0.00E+00	7.93E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
556	599858.7	4176656	1.47E-07	3.66E-07	0.00E+00	5.12E-07	1.47E-07	3.66E-07	0.00E+00	5.12E-07	2.39E-08	5.53E-08	0.00E+00	7.92E-08	1.25E-08	2.11E-08	0.00E+00	3.35E-08
557	599849.7	4176658	1.47E-07	3.65E-07	0.00E+00	5.12E-07	1.47E-07	3.65E-07	0.00E+00	5.12E-07	2.39E-08	5.52E-08	0.00E+00	7.91E-08	1.25E-08	2.10E-08	0.00E+00	3.35E-08
558	599840.7	4176661	1.46E-07	3.64E-07	0.00E+00	5.11E-07	1.46E-07	3.64E-07	0.00E+00	5.11E-07	2.38E-08	5.51E-08	0.00E+00	7.89E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
559	599831.7	4176664	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.87E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
560	599822.7	4176666	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.84E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
561	599813.7	4176669	1.45E-07	3.60E-07	0.00E+00	5.05E-07	1.45E-07	3.60E-07	0.00E+00	5.05E-07	2.35E-08	5.45E-08	0.00E+00	7.81E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
562	599804.7	4176671	1.44E-07	3.59E-07	0.00E+00	5.04E-07	1.44E-07	3.59E-07	0.00E+00	5.04E-07	2.35E-08	5.44E-08	0.00E+00	7.78E-08	1.23E-08	2.07E-08	0.00E+00	3.30E-08
563	599795.7	4176674	1.44E-07	3.59E-07	0.00E+00	5.03E-07	1.44E-07	3.59E-07	0.00E+00	5.03E-07	2.34E-08	5.43E-08	0.00E+00	7.77E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
564	599786.8	4176677	1.44E-07	3.58E-07	0.00E+00	5.02E-07	1.44E-07	3.58E-07	0.00E+00	5.02E-07	2.34E-08	5.41E-08	0.00E+00	7.75E-08	1.22E-08	2.06E-08	0.00E+00	3.28E-08
565	599777.8	4176679	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.82E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
566	599768.8	4176682	1.48E-07	3.68E-07	0.00E+00	5.16E-07	1.48E-07	3.68E-07	0.00E+00	5.16E-07	2.40E-08	5.56E-08	0.00E+00	7.97E-08	1.25E-08	2.12E-08	0.00E+00	3.38E-08
567	599759.8	4176685	1.5E-07	3.74E-07	0.00E+00	5.24E-07	1.50E-07	3.74E-07	0.00E+00	5.24E-07	2.44E-08	5.66E-08	0.00E+00	8.10E-08	1.28E-08	2.16E-08	0.00E+00	3.43E-08
568	599750.8	4176687	1.52E-07	3.79E-07	0.00E+00	5.32E-07	1.52E-07	3.79E-07	0.00E+00	5.32E-07	2.48E-08	5.74E-08	0.00E+00	8.21E-08	1.29E-08	2.19E-08	0.00E+00	3.48E-08
569	599741.8	4176690	1.54E-07	3.84E-07	0.00E+00	5.39E-07	1.54E-07	3.84E-07	0.00E+00	5.39E-07	2.51E-08	5.81E-08	0.00E+00	8.33E-08	1.31E-08	2.22E-08	0.00E+00	3.53E-08
570	599732.8	4176692	1.57E-07	3.90E-07	0.00E+00	5.47E-07	1.57E-07	3.90E-07	0.00E+00	5.47E-07	2.55E-08	5.90E-08	0.00E+00	8.45E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
571	599723.8	4176695	1.59E-07	3.96E-07	0.00E+00	5.56E-07	1.59E-07	3.96E-07	0.00E+00	5.56E-07	2.59E-08	5.99E-08	0.00E+00	8.58E-08	1.35E-08	2.28E-08	0.00E+00	3.64E-08
572	599714.9	4176698	1.63E-07	4.06E-07	0.00E+00	5.69E-07	1.63E-07	4.06E-07	0.00E+00	5.69E-07	2.65E-08	6.14E-08	0.00E+00	8.79E-08	1.38E-08	2.34E-08	0.00E+00	3.72E-08
573	599705.9	4176700	1.66E-07	4.13E-07	0.00E+00	5.78E-07	1.66E-07	4.13E-07	0.00E+00	5.78E-07	2.70E-08	6.24E-08	0.00E+00	8.93E-08	1.41E-08	2.38E-08	0.00E+00	3.78E-08
574	599696.9	4176703	1.67E-07	4.17E-07	0.00E+00	5.84E-07	1.67E-07	4.17E-07	0.00E+00	5.84E-07	2.72E-08	6.30E-08	0.00E+00	9.03E-08	1.42E-08	2.40E-08	0.00E+00	3.82E-08
575	599687.9	4176706	1.67E-07	4.15E-07	0.00E+00	5.82E-07	1.67E-07	4.15E-07	0.00E+00	5.82E-07	2.71E-08	6.28E-08	0.00E+00	8.99E-08	1.42E-08	2.39E-08	0.00E+00	3.81E-08
576	599678.9	4176708	1.63E-07	4.07E-07	0.00E+00	5.70E-07	1.63E-07	4.07E-07	0.00E+00	5.70E-07	2.66E-08	6.15E-08	0.00E+00	8.80E-08	1.39E-08	2.34E-08	0.00E+00	3.73E-08
577	599669.9	4176711	1.59E-07	3.96E-07	0.00E+00	5.55E-07	1.59E-07	3.96E-07	0.00E+00	5.55E-07	2.59E-08	5.99E-08	0.00E+00	8.58E-08	1.35E-08	2.28E-08	0.00E+00	3.64E-08
578	599660.9	4176714	1.54E-07	3.83E-07	0.00E+00	5.37E-07	1.54E-07	3.83E-07	0.00E+00	5.37E-07	2.50E-08	5.79E-08	0.00E+00	8.30E-08	1.31E-08	2.21E-08	0.00E+00	3.51E-08
579	599651.9	4176716	1.47E-07	3.65E-07	0.00E+00	5.11E-07	1.47E-07	3.65E-07	0.00E+00	5.11E-07	2.38E-08	5.52E-08	0.00E+00	7.90E-08	1.24E-08	2.10E-08	0.00E+00	3.35E-08
580	599642.9	4176719	1.4E-07	3.48E-07	0.00E+00	4.88E-07	1.40E-07	3.48E-07	0.00E+00	4.88E-07	2.27E-08	5.26E-08	0.00E+00	7.53E-08	1.19E-08	2.01E-08	0.00E+00	3.19E-08
581	599634	4176721	1.34E-07	3.33E-07	0.00E+00	4.66E-07	1.34E-07	3.33E-07	0.00E+00	4.66E-07	2.17E-08	5.03E-08	0.00E+00	7.21E-08	1.13E-08	1.92E-08	0.00E+00	3.05E-08
582	599625	4176724	1.33E-07	3.30E-07	0.00E+00	4.63E-07	1.33E-07	3.30E-07	0.00E+00	4.63E-07	2.16E-08	5.00E-08	0.00E+00	7.16E-08	1.13E-08	1.90E-08	0.00E+00	3.03E-08
583	600298.5	4176119	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.19E-08	0.00E+00	5.99E-08	9.44E-09	1.60E-08	0.00E+00	2.54E-08
584	600298.1	4176110	1.15E-07	2.86E-07	0.00E+00	4.02E-07	1.15E-07	2.86E-07	0.00E+00	4.02E-07	1.87E-08	4.33E-08	0.00E+00	6.20E-08	9.77E-09	1.65E-08	0.00E+00	2.63E-08
585	600297.7	4176100	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.93E-08	4.46E-08	0.00E+00	6.38E-08	1.00E-08	1.70E-08	0.00E+00	2.70E-08
586	600297.3	4176091	1.21E-07	3.01E-07	0.00E+00	4.23E-07	1.21E-07	3.01E-07	0.00E+00	4.23E-07	1.97E-08	4.56E-08	0.00E+00	6.53E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
587	600296.9	4176082	1.24E-07	3.08E-07	0.00E+00	4.32E-07	1.24E-07	3.08E-07	0.00E+00	4.32E-07	2.01E-08	4.66E-08	0.00E+00	6.68E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08
588	600296.5	4176072	1.25E-07	3.10E-07	0.00E+00	4.35E-07	1.25E-07	3.10E-07	0.00E+00	4.35E-07	2.03E-08	4.69E-08	0.00E+00	6.72E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
589	600314.9	4176127	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.72E-09	1.47E-08	0.00E+00	2.35E-08
590	600311.2	4176135	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.43E-08	8.55E-09	1.44E-08	0.00E+00	2.30E-08
591	600307.6	4176144	9.83E-08	2.45E-07	0.00E+00	3.43E-07	9.83E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.30E-08	8.34E-09	1.41E-08	0.00E+00	2.24E-08
592	600304	4176153	9.61E-08	2.39E-07	0.00E+00	3.35E-07	9.61E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.62E-08	0.00E+00	5.18E-08	8.16E-09	1.38E-08	0.00E+00	2.19E-08
593	600300.3	4176161	9.41E-08	2.34E-07	0.00E+00	3.29E-07	9.41E-08	2.34E-07	0.00E+00	3.29E-07	1.53E-08	3.54E-08	0.00E+00	5.08E-08	7.99E-09	1.35E-08	0.00E+00	2.15E-08
594	600296.7	4176170	9.21E-08	2.29E-07	0.00E+00	3.21E-07	9.21E-08	2.29E-07	0.00E+00	3.21E-07	1.50E-08	3.47E-08	0.00E+00	4.97E-08	7.82E-09	1.32E-08	0.00E+00	2.10E-08
595	600293	4176178	8.98E-08	2.24E-07	0.00E+00	3.13E-07	8.98E-08	2.24E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.63E-09	1.29E-08	0.00E+00	2.05E-08
596	600289.4	4176187	8.72E-08	2.17E-07	0.00E+00	3.04E-07	8.72E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.70E-08	7.41E-09	1.25E-08	0.00E+00	1.99E-08
597	600285.8	4176196	8.5E-08	2.12E-07	0.00E+00	2.97E-07	8.50E-08	2.12E-07	0.00E+00	2.97E-07	1.38E-08	3.20E-08	0.00E+00	4.58E-08	7.22E-09	1.22E-08	0.00E+00	1.94E-08
598	600282.1	4176204	8.26E-08	2.06E-07	0.00E+00	2.88E-07	8.26E-08	2.06E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.01E-09	1.18E-08	0.00E+00	1.89E-08
599	600278.5	4176213	8.03E-08	2.00E-07	0.00E+00	2.80E-07	8.03E-08	2.00E-07	0.00E+00	2.80E-07	1.31E-08	3.02E-08	0.00E+00	4.33E-08	6.82E-09	1.15E-08	0.00E+00	1.83E-08
600	600274.8	4176221	7.83E-08	1.95E-07	0.00E+00	2.73E-07	7.83E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.95E-08	0.00E+00	4.22E-08	6.65E-09	1.12E-08	0.00E+00	1.79E-08
601	600087.8	4176608	8.52E-08	2.12E-07	0.00E+00	2.97E-07	8.52E-08	2.12E-07	0.00E+00	2.97E-07	1.39E-08	3.21E-08	0.00E+00	4.59E-08	7.24E-09	1.22E-08	0.00E+00	1.95E-08
602	599989.2	4176636	1.11E-07	2.75E-07	0.00E+00	3.86E-07	1.11E-07	2.75E-07	0.00E+00	3.86E-07	1.80E-08	4.16E-08	0.00E+00	5.96E-08	9.39E-09	1.59E-08	0.00E+00	2.53E-08
603	599980.2	4176639	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.29E-08	0.00E+00	6.14E-08	9.67E-09	1.63E-08	0.00E+00	2.60E-08
604	599971.3	4176642	1.18E-07	2.93E-07	0.00E+00	4.10E-07	1.18E-07	2.93E-07	0.00E+00	4.10E-07	1.91E-08	4.43E-08	0.00E+00	6.34E-08	9.98E-09	1.69E-08	0.00E+00	2.69E-08
605	599962.3	4176644	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.98E-08	4.59E-08	0.00E+00	6.57E-08	1.03E-08	1.75E-08	0.00E+00	2.78E-08
606	599953.4	4176647	1.26E-07	3.15E-07	0.00E+00	4.41E-07	1.26E-07	3.15E-07	0.00E+00	4.41E-07	2.06E-08	4.76E-08	0.00E+00	6.82E-08	1.07E-08	1.81E-08	0.00E+00	2.89E-08
607	599944.4	4176649	1.31E-07	3.26E-07	0.00E+00	4.57E-07	1.31E-07	3.26E-07	0.00E+00	4.57E-07	2.13E-08	4.93E-08	0.00E+00	7.07E-08	1.11E-08	1.88E-08	0.00E+00	2.99E-08
608	599935.4	4176652	1.36E-07	3.39E-07	0.00E+00	4.75E-07	1.36E-07	3.39E-07	0.00E+00	4.75E-07	2.22E-08	5.13E-08	0.00E+00	7.34E-08	1.16E-08	1.95E-08	0.00E+00	3.11E-08
609	599926.5	4176655	1.4E-07	3.48E-07	0.00E+00	4.88E-07	1.40E-07	3.48E-07	0.00E+00	4.88E-07	2.28E-08	5.27E-08	0.00E+00	7.55E-08	1.19E-08	2.01E-08	0.00E+00	3.20E-08
610	599917.5	4176657	1.43E-07	3.57E-07	0.00E+00	5.00E-07	1.43E-07	3.57E-07	0.00E+00	5.00E-07	2.33E-08	5.40E-08	0.00E+00	7.73E-08	1.22E-08	2.06E-08	0.00E+00	3.27E-08
611	599908.5	4176660	1.47E-07	3.65E-07	0.00E+00	5.12E-07	1.47E-07	3.65E-07	0.00E+00	5.12E-07	2.39E-08	5.52E-08	0.00E+00	7.91E-08	1.25E-08	2.10E-08	0.00E+00	3.35E-08
612	599899.6	4176663	1.49E-07	3.71E-07	0.00E+00	5.20E-07	1.49E-07	3.71E-07	0.00E+00	5.20E-07	2.43E-08	5.61E-08	0.00E+00	8.04E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
613	599890.6	4176665	1.51E-07	3.76E-07	0.00E+00	5.26E-07	1.51E-07	3.76E-07	0.00E+00	5.26E-07	2.45E-08	5.68E-08	0.00E+00	8.13E-08	1.28E-08	2.16E-08	0.00E+00	3.45E-08
614	599881.7	4176668	1.53E-07	3.81E-07	0.00E+00	5.34E-07	1.53E-07	3.81E-07	0.00E+00	5.34E-07	2.49E-08	5.76E-08	0.00E+00	8.25E-08	1.30E-08	2.20E-08	0.00E+00	3.49E-08
615	599872.7	4176670	1.55E-07	3.87E-07	0.00E+00	5.42E-07	1.55E-07	3.87E-07	0.00E+00	5.42E-07	2.53E-08	5.85E-08	0.00E+00	8.38E-08	1.32E-08	2.23E-08	0.00E+00	3.55E-08
616	599863.7	4176673	1.56E-07	3.89E-07	0.00E+00	5.45E-07	1.56E-07	3.89E-07	0.00E+00	5.45E-07	2.54E-08	5.88E-08	0.00E+00	8.42E-08	1.33E-08	2.24E-08	0.00E+00	3.57E-08
617	599854.8	4176676	1.57E-07	3.90E-07	0.00E+00	5.47E-07	1.57E-07	3.90E-07	0.00E+00	5.47E-07	2.55E-08	5.90E-08	0.00E+00	8.45E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
618	599845.8	4176678	1.57E-07	3.90E-07	0.00E+00	5.47E-07	1.57E-07	3.90E-07	0.00E+00	5.47E-07	2.55E-08	5.90E-08	0.00E+00	8.44E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
619	599836.9	4176681	1.56E-07	3.89E-07	0.00E+00	5.45E-07	1.56E-07	3.89E-07	0.00E+00	5.45E-07	2.54E-08	5.88E-08	0.00E+00	8.42E-08	1.33E-08	2.24E-08	0.00E+00	3.57E-08
620	599827.9	4176684	1.55E-07	3.86E-07	0.00E+00	5.41E-07	1.55E-07	3.86E-07	0.00E+00	5.41E-07	2.52E-08	5.84E-08	0.00E+00	8.36E-08	1.32E-08	2.23E-08	0.00E+00	3.54E-08
621	599818.9	4176686	1.54E-07	3.83E-07	0.00E+00	5.36E-07	1.54E-07	3.83E-07	0.00E+00	5.36E-07	2.50E-08	5.79E-08	0.00E+00	8.29E-08	1.30E-08	2.21E-08	0.00E+00	3.51E-08
622	599810	4176689	1.52E-07	3.79E-07	0.00E+00	5.31E-07	1.52E-07	3.79E-07	0.00E+00	5.31E-07	2.48E-08	5.73E-08	0.00E+00	8.21E-08	1.29E-08	2.18E-08	0.00E+00	3.48E-08
623	599801	4176691	1.51E-07	3.75E-07	0.00E+00	5.26E-07	1.51E-07	3.75E-07	0.00E+00	5.26E-07	2.45E-08	5.67E-08	0.00E+00	8.12E-08	1.28E-08	2.16E-08	0.00E+00	3.44E-08
624	599792	4176694	1.49E-07	3.71E-07	0.00E+00	5.21E-07	1.49E-07	3.71E-07	0.00E+00	5.21E-07	2.43E-08	5.62E-08	0.00E+00	8.04E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
625	599783.1	4176697	1.48E-07	3.69E-07	0.00E+00	5.17E-07	1.48E-07	3.69E-07	0.00E+00	5.17E-07	2.41E-08	5.58E-08	0.00E+00	7.99E-08	1.26E-08	2.13E-08	0.00E+00	3.38E-08
626	599774.1	4176699	1.5E-07	3.72E-07	0.00E+00	5.22E-07	1.50E-07	3.72E-07	0.00E+00	5.22E-07	2.43E-08	5.63E-08	0.00E+00	8.06E-08	1.27E-08	2.15E-08	0.00E+00	3.42E-08
627	599765.2	4176702	1.51E-07	3.75E-07	0.00E+00	5.26E-07	1.51E-07	3.75E-07	0.00E+00	5.26E-07	2.45E-08	5.68E-08	0.00E+00	8.13E-08	1.28E-08	2.16E-08	0.00E+00	3.44E-08
628	599756.2	4176704	1.52E-07	3.78E-07	0.00E+00	5.30E-07	1.52E-07	3.78E-07	0.00E+00	5.30E-07	2.47E-08	5.72E-08	0.00E+00	8.19E-08	1.29E-08	2.18E-08	0.00E+00	3.47E-08
629	599747.2	4176707	1.54E-07	3.82E-07	0.00E+00	5.36E-07	1.54E-07	3.82E-07	0.00E+00	5.36E-07	2.50E-08	5.78E-08	0.00E+00	8.28E-08	1.30E-08	2.20E-08	0.00E+00	3.51E-08
630	599738.3	4176710	1.55E-07	3.85E-07	0.00E+00	5.40E-07	1.55E-07	3.85E-07	0.00E+00	5.40E-07	2.52E-08	5.83E-08	0.00E+00	8.34E-08	1.31E-08	2.22E-08	0.00E+00	3.53E-08
631	599729.3	4176712	1.56E-07	3.87E-07	0.00E+00	5.43E-07	1.56E-07	3.87E-07	0.00E+00	5.43E-07	2.53E-08	5.86E-08	0.00E+00	8.39E-08	1.32E-08	2.23E-08	0.00E+00	3.55E-08
632	599720.4	4176715	1.56E-07	3.88E-07	0.00E+00	5.44E-07	1.56E-07	3.88E-07	0.00E+00	5.44E-07	2.53E-08	5.86E-08	0.00E+00	8.40E-08	1.32E-08	2.24E-08	0.00E+00	3.56E-08
633	599711.4	4176718	1.55E-07	3.85E-07	0.00E+00	5.40E-07	1.55E-07	3.85E-07	0.00E+00	5.40E-07	2.52E-08	5.82E-08	0.00E+00	8.34E-08	1.31E-08	2.22E-08	0.00E+00	3.53E-08
634	599702.4	4176720	1.53E-07	3.80E-07	0.00E+00	5.33E-07	1.53E-07	3.80E-07	0.00E+00	5.33E-07	2.48E-08	5.75E-08	0.00E+00	8.23E-08	1.30E-08	2.19E-08	0.00E+00	3.49E-08
635	599693.5	4176723	1.5E-07	3.73E-07	0.00E+00	5.23E-07	1.50E-07	3.73E-07	0.00E+00	5.23E-07	2.44E-08	5.64E-08	0.00E+00	8.08E-08	1.27E-08	2.15E-08	0.00E+00	3.42E-08
636	599684.5	4176725	1.45E-07	3.61E-07	0.00E+00	5.07E-07	1.45E-07	3.61E-07	0.00E+00	5.07E-07	2.36E-08	5.46E-08	0.00E+00	7.83E-08	1.23E-08	2.08E-08	0.00E+00	3.32E-08
637	599675.5	4176728	1.4E-07	3.48E-07	0.00E+00	4.88E-07	1.40E-07	3.48E-07	0.00E+00	4.88E-07	2.28E-08	5.27E-08	0.00E+00	7.55E-08	1.19E-08	2.01E-08	0.00E+00	3.20E-08
638	599666.6	4176731	1.34E-07	3.34E-07	0.00E+00	4.69E-07	1.34E-07	3.34E-07	0.00E+00	4.69E-07	2.18E-08	5.06E-08	0.00E+00	7.24E-08	1.14E-08	1.93E-08	0.00E+00	3.07E-08
639	599657.6	4176733	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
640	599648.7	4176736	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.71E-08	0.00E+00	6.74E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
641	599639.7	4176739	1.24E-07	3.08E-07	0.00E+00	4.31E-07	1.24E-07	3.08E-07	0.00E+00	4.31E-07	2.01E-08	4.65E-08	0.00E+00	6.66E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
642	599630.7	4176741	1.24E-07	3.08E-07	0.00E+00	4.32E-07	1.24E-07	3.08E-07	0.00E+00	4.32E-07	2.01E-08	4.66E-08	0.00E+00	6.67E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08
643	599621.8	4176744	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.05E-08	4.74E-08	0.00E+00	6.79E-08	1.07E-08	1.81E-08	0.00E+00	2.88E-08
644	600318.5	4176118	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.66E-08	8.91E-09	1.51E-08	0.00E+00	2.40E-08
645	600318.1	4176109	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.77E-08	4.10E-08	0.00E+00	5.87E-08	9.25E-09	1.56E-08	0.00E+00	2.49E-08
646	600317.7	4176099	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.22E-08	0.00E+00	6.05E-08	9.52E-09	1.61E-08	0.00E+00	2.56E-08
647	600317.3	4176090	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.33E-08	0.00E+00	6.21E-08	9.78E-09	1.65E-08	0.00E+00	2.63E-08
648	600316.9	4176081	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.92E-08	4.45E-08	0.00E+00	6.37E-08	1.00E-08	1.69E-08	0.00E+00	2.70E-08
649	600316.5	4176071	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.92E-08	4.44E-08	0.00E+00	6.35E-08	1.00E-08	1.69E-08	0.00E+00	2.69E-08
650	600334.9	4176126	9.54E-08	2.38E-07	0.00E+00	3.33E-07	9.54E-08	2.38E-07	0.00E+00	3.33E-07	1.55E-08	3.59E-08	0.00E+00	5.14E-08	8.10E-09	1.37E-08	0.00E+00	2.18E-08
651	600331.2	4176134	9.39E-08	2.34E-07	0.00E+00	3.28E-07	9.39E-08	2.34E-07	0.00E+00	3.28E-07	1.53E-08	3.54E-08	0.00E+00	5.06E-08	7.98E-09	1.35E-08	0.00E+00	2.15E-08
652	600327.6	4176143	9.21E-08	2.29E-07	0.00E+00	3.21E-07	9.21E-08	2.29E-07	0.00E+00	3.21E-07	1.50E-08	3.47E-08	0.00E+00	4.96E-08	7.82E-09	1.32E-08	0.00E+00	2.10E-08
653	600324	4176152	9E-08	2.24E-07	0.00E+00	3.14E-07	9.00E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.39E-08	0.00E+00	4.85E-08	7.64E-09	1.29E-08	0.00E+00	2.06E-08
654	600320.3	4176160	8.77E-08	2.18E-07	0.00E+00	3.06E-07	8.77E-08	2.18E-07	0.00E+00	3.06E-07	1.43E-08	3.30E-08	0.00E+00	4.73E-08	7.45E-09	1.26E-08	0.00E+00	2.00E-08
655	600316.7	4176169	8.58E-08	2.14E-07	0.00E+00	2.99E-07	8.58E-08	2.14E-07	0.00E+00	2.99E-07	1.40E-08	3.23E-08	0.00E+00	4.63E-08	7.29E-09	1.23E-08	0.00E+00	1.96E-08
656	600313.1	4176177	8.4E-08	2.09E-07	0.00E+00	2.93E-07	8.40E-08	2.09E-07	0.00E+00	2.93E-07	1.37E-08	3.16E-08	0.00E+00	4.53E-08	7.13E-09	1.21E-08	0.00E+00	1.92E-08
657	600309.5	4176186	8.22E-08	2.05E-07	0.00E+00	2.87E-07	8.22E-08	2.05E-07	0.00E+00	2.87E-07	1.34E-08	3.09E-08	0.00E+00	4.43E-08	6.98E-09	1.18E-08	0.00E+00	1.88E-08

658	600305.8	4176194	8.03E-08	2.00E-07	0.00E+00	2.80E-07	8.03E-08	2.00E-07	0.00E+00	2.80E-07	1.31E-08	3.02E-08	0.00E+00	4.33E-08	6.82E-09	1.15E-08	0.00E+00	1.83E-08
659	600302.2	4176203	7.81E-08	1.95E-07	0.00E+00	2.73E-07	7.81E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.63E-09	1.12E-08	0.00E+00	1.78E-08
660	600298.6	4176212	7.59E-08	1.89E-07	0.00E+00	2.65E-07	7.59E-08	1.89E-07	0.00E+00	2.65E-07	1.24E-08	2.86E-08	0.00E+00	4.09E-08	6.45E-09	1.09E-08	0.00E+00	1.73E-08
661	600101.2	4176622	7.63E-08	1.90E-07	0.00E+00	2.66E-07	7.63E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.11E-08	6.48E-09	1.09E-08	0.00E+00	1.74E-08
662	600092.2	4176625	7.63E-08	1.90E-07	0.00E+00	2.66E-07	7.63E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.12E-08	6.48E-09	1.10E-08	0.00E+00	1.74E-08
663	600083.3	4176628	7.65E-08	1.90E-07	0.00E+00	2.67E-07	7.65E-08	1.90E-07	0.00E+00	2.67E-07	1.24E-08	2.88E-08	0.00E+00	4.12E-08	6.50E-09	1.10E-08	0.00E+00	1.75E-08
664	600074.3	4176630	7.77E-08	1.94E-07	0.00E+00	2.71E-07	7.77E-08	1.94E-07	0.00E+00	2.71E-07	1.26E-08	2.93E-08	0.00E+00	4.19E-08	6.60E-09	1.12E-08	0.00E+00	1.78E-08
665	600065.4	4176633	7.92E-08	1.97E-07	0.00E+00	2.76E-07	7.92E-08	1.97E-07	0.00E+00	2.76E-07	1.29E-08	2.98E-08	0.00E+00	4.27E-08	6.72E-09	1.14E-08	0.00E+00	1.81E-08
666	600056.5	4176635	8.1E-08	2.02E-07	0.00E+00	2.83E-07	8.10E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.88E-09	1.16E-08	0.00E+00	1.85E-08
667	599949.2	4176667	1.27E-07	3.16E-07	0.00E+00	4.42E-07	1.27E-07	3.16E-07	0.00E+00	4.42E-07	2.06E-08	4.77E-08	0.00E+00	6.83E-08	1.08E-08	1.82E-08	0.00E+00	2.89E-08
668	599940.3	4176669	1.33E-07	3.30E-07	0.00E+00	4.63E-07	1.33E-07	3.30E-07	0.00E+00	4.63E-07	2.16E-08	5.00E-08	0.00E+00	7.16E-08	1.13E-08	1.90E-08	0.00E+00	3.03E-08
669	599931.4	4176672	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.47E-08	1.18E-08	1.99E-08	0.00E+00	3.16E-08
670	599922.4	4176675	1.42E-07	3.53E-07	0.00E+00	4.94E-07	1.42E-07	3.53E-07	0.00E+00	4.94E-07	2.30E-08	5.33E-08	0.00E+00	7.64E-08	1.20E-08	2.03E-08	0.00E+00	3.24E-08
671	599913.5	4176677	1.44E-07	3.58E-07	0.00E+00	5.02E-07	1.44E-07	3.58E-07	0.00E+00	5.02E-07	2.34E-08	5.42E-08	0.00E+00	7.76E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
672	599904.6	4176680	1.46E-07	3.64E-07	0.00E+00	5.10E-07	1.46E-07	3.64E-07	0.00E+00	5.10E-07	2.38E-08	5.50E-08	0.00E+00	7.87E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
673	599895.6	4176683	1.48E-07	3.69E-07	0.00E+00	5.17E-07	1.48E-07	3.69E-07	0.00E+00	5.17E-07	2.41E-08	5.58E-08	0.00E+00	7.98E-08	1.26E-08	2.13E-08	0.00E+00	3.38E-08
674	599886.7	4176685	1.5E-07	3.74E-07	0.00E+00	5.24E-07	1.50E-07	3.74E-07	0.00E+00	5.24E-07	2.44E-08	5.65E-08	0.00E+00	8.10E-08	1.28E-08	2.16E-08	0.00E+00	3.43E-08
675	599877.7	4176688	1.52E-07	3.79E-07	0.00E+00	5.31E-07	1.52E-07	3.79E-07	0.00E+00	5.31E-07	2.48E-08	5.73E-08	0.00E+00	8.21E-08	1.29E-08	2.18E-08	0.00E+00	3.48E-08
676	599868.8	4176690	1.54E-07	3.83E-07	0.00E+00	5.37E-07	1.54E-07	3.83E-07	0.00E+00	5.37E-07	2.50E-08	5.80E-08	0.00E+00	8.30E-08	1.31E-08	2.21E-08	0.00E+00	3.52E-08
677	599859.9	4176693	1.56E-07	3.89E-07	0.00E+00	5.45E-07	1.56E-07	3.89E-07	0.00E+00	5.45E-07	2.54E-08	5.88E-08	0.00E+00	8.42E-08	1.33E-08	2.24E-08	0.00E+00	3.57E-08
678	599850.9	4176696	1.59E-07	3.95E-07	0.00E+00	5.54E-07	1.59E-07	3.95E-07	0.00E+00	5.54E-07	2.58E-08	5.97E-08	0.00E+00	8.56E-08	1.35E-08	2.28E-08	0.00E+00	3.62E-08
679	599842	4176698	1.61E-07	4.01E-07	0.00E+00	5.61E-07	1.61E-07	4.01E-07	0.00E+00	5.61E-07	2.62E-08	6.06E-08	0.00E+00	8.67E-08	1.37E-08	2.31E-08	0.00E+00	3.67E-08
680	599833.1	4176701	1.6E-07	3.97E-07	0.00E+00	5.57E-07	1.60E-07	3.97E-07	0.00E+00	5.57E-07	2.60E-08	6.01E-08	0.00E+00	8.60E-08	1.35E-08	2.29E-08	0.00E+00	3.64E-08
681	599824.1	4176703	1.58E-07	3.93E-07	0.00E+00	5.51E-07	1.58E-07	3.93E-07	0.00E+00	5.51E-07	2.57E-08	5.95E-08	0.00E+00	8.52E-08	1.34E-08	2.27E-08	0.00E+00	3.61E-08
682	599815.2	4176706	1.56E-07	3.89E-07	0.00E+00	5.45E-07	1.56E-07	3.89E-07	0.00E+00	5.45E-07	2.54E-08	5.88E-08	0.00E+00	8.43E-08	1.33E-08	2.24E-08	0.00E+00	3.57E-08
683	599806.3	4176709	1.53E-07	3.82E-07	0.00E+00	5.35E-07	1.53E-07	3.82E-07	0.00E+00	5.35E-07	2.49E-08	5.77E-08	0.00E+00	8.26E-08	1.30E-08	2.20E-08	0.00E+00	3.50E-08
684	599797.3	4176711	1.51E-07	3.75E-07	0.00E+00	5.26E-07	1.51E-07	3.75E-07	0.00E+00	5.26E-07	2.45E-08	5.68E-08	0.00E+00	8.13E-08	1.28E-08	2.16E-08	0.00E+00	3.44E-08
685	599788.4	4176714	1.49E-07	3.70E-07	0.00E+00	5.19E-07	1.49E-07	3.70E-07	0.00E+00	5.19E-07	2.42E-08	5.60E-08	0.00E+00	8.02E-08	1.26E-08	2.13E-08	0.00E+00	3.40E-08
686	599779.5	4176716	1.48E-07	3.68E-07	0.00E+00	5.15E-07	1.48E-07	3.68E-07	0.00E+00	5.15E-07	2.40E-08	5.56E-08	0.00E+00	7.96E-08	1.25E-08	2.12E-08	0.00E+00	3.37E-08
687	599770.5	4176719	1.47E-07	3.66E-07	0.00E+00	5.13E-07	1.47E-07	3.66E-07	0.00E+00	5.13E-07	2.39E-08	5.53E-08	0.00E+00	7.92E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
688	599761.6	4176722	1.46E-07	3.64E-07	0.00E+00	5.10E-07	1.46E-07	3.64E-07	0.00E+00	5.10E-07	2.38E-08	5.50E-08	0.00E+00	7.87E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
689	599752.6	4176724	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.83E-08	1.23E-08	2.08E-08	0.00E+00	3.32E-08
690	599743.7	4176727	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
691	599734.8	4176730	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.87E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
692	599725.8	4176732	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
693	599716.9	4176735	1.43E-07	3.56E-07	0.00E+00	4.99E-07	1.43E-07	3.56E-07	0.00E+00	4.99E-07	2.33E-08	5.39E-08	0.00E+00	7.72E-08	1.22E-08	2.05E-08	0.00E+00	3.27E-08
694	599708	4176737	1.39E-07	3.46E-07	0.00E+00	4.86E-07	1.39E-07	3.46E-07	0.00E+00	4.86E-07	2.26E-08	5.24E-08	0.00E+00	7.50E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08
695	599699	4176740	1.35E-07	3.37E-07	0.00E+00	4.72E-07	1.35E-07	3.37E-07	0.00E+00	4.72E-07	2.20E-08	5.10E-08	0.00E+00	7.30E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
696	599690.1	4176743	1.32E-07	3.28E-07	0.00E+00	4.59E-07	1.32E-07	3.28E-07	0.00E+00	4.59E-07	2.14E-08	4.95E-08	0.00E+00	7.09E-08	1.12E-08	1.89E-08	0.00E+00	3.00E-08
697	599681.2	4176745	1.28E-07	3.18E-07	0.00E+00	4.45E-07	1.28E-07	3.18E-07	0.00E+00	4.45E-07	2.07E-08	4.80E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
698	599672.2	4176748	1.24E-07	3.08E-07	0.00E+00	4.31E-07	1.24E-07	3.08E-07	0.00E+00	4.31E-07	2.01E-08	4.65E-08	0.00E+00	6.66E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
699	599663.3	4176750	1.2E-07	2.98E-07	0.00E+00	4.18E-07	1.20E-07	2.98E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.45E-08	1.02E-08	1.72E-08	0.00E+00	2.73E-08
700	599654.3	4176753	1.2E-07	2.98E-07	0.00E+00	4.17E-07	1.20E-07	2.98E-07	0.00E+00	4.17E-07	1.94E-08	4.50E-08	0.00E+00	6.44E-08	1.01E-08	1.71E-08	0.00E+00	2.73E-08
701	599645.4	4176756	1.2E-07	2.99E-07	0.00E+00	4.18E-07	1.20E-07	2.99E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.47E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
702	599636.5	4176758	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.97E-08	4.55E-08	0.00E+00	6.52E-08	1.03E-08	1.73E-08	0.00E+00	2.76E-08
703	600338.5	4176117	9.7E-08	2.42E-07	0.00E+00	3.39E-07	9.70E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.65E-08	0.00E+00	5.23E-08	8.24E-09	1.39E-08	0.00E+00	2.22E-08
704	600338.1	4176108	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.79E-08	0.00E+00	5.43E-08	8.56E-09	1.45E-08	0.00E+00	2.30E-08
705	600337.7	4176099	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.91E-08	0.00E+00	5.61E-08	8.83E-09	1.49E-08	0.00E+00	2.37E-08
706	600337.3	4176089	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.74E-08	4.03E-08	0.00E+00	5.77E-08	9.09E-09	1.54E-08	0.00E+00	2.45E-08
707	600336.9	4176080	1.1E-07	2.74E-07	0.00E+00	3.85E-07	1.10E-07	2.74E-07	0.00E+00	3.85E-07	1.79E-08	4.15E-08	0.00E+00	5.94E-08	9.36E-09	1.58E-08	0.00E+00	2.52E-08
708	600336.5	4176070	1.1E-07	2.73E-07	0.00E+00	3.82E-07	1.10E-07	2.73E-07	0.00E+00	3.82E-07	1.78E-08	4.13E-08	0.00E+00	5.91E-08	9.31E-09	1.57E-08	0.00E+00	2.50E-08
709	600354.9	4176125	8.78E-08	2.19E-07	0.00E+00	3.07E-07	8.78E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.31E-08	0.00E+00	4.74E-08	7.46E-09	1.26E-08	0.00E+00	2.01E-08
710	600351.2	4176134	8.64E-08	2.15E-07	0.00E+00	3.02E-07	8.64E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.97E-08
711	600347.6	4176142	8.51E-08	2.12E-07	0.00E+00	2.97E-07	8.51E-08	2.12E-07	0.00E+00	2.97E-07	1.39E-08	3.21E-08	0.00E+00	4.59E-08	7.23E-09	1.22E-08	0.00E+00	1.94E-08
712	600344	4176151	8.38E-08	2.09E-07	0.00E+00	2.92E-07	8.38E-08	2.09E-07	0.00E+00	2.92E-07	1.36E-08	3.16E-08	0.00E+00	4.52E-08	7.12E-09	1.20E-08	0.00E+00	1.91E-08
713	600340.4	4176159	8.23E-08	2.05E-07	0.00E+00	2.87E-07	8.23E-08	2.05E-07	0.00E+00	2.87E-07	1.34E-08	3.10E-08	0.00E+00	4.44E-08	6.99E-09	1.18E-08	0.00E+00	1.88E-08
714	600336.8	4176168	8.07E-08	2.01E-07	0.00E+00	2.82E-07	8.07E-08	2.01E-07	0.00E+00	2.82E-07	1.31E-08	3.04E-08	0.00E+00	4.35E-08	6.85E-09	1.16E-08	0.00E+00	1.84E-08
715	600333.1	4176176	7.9E-08	1.97E-07	0.00E+00	2.76E-07	7.90E-08	1.97E-07	0.00E+00	2.76E-07	1.29E-08	2.98E-08	0.00E+00	4.26E-08	6.71E-09	1.13E-08	0.00E+00	1.81E-08
716	600329.5	4176185	7.74E-08	1.93E-07	0.00E+00	2.70E-07	7.74E-08	1.93E-07	0.00E+00	2.70E-07	1.26E-08	2.92E-08	0.00E+00	4.18E-08	6.58E-09	1.11E-08	0.00E+00	1.77E-08
717	600325.9	4176193	7.59E-08	1.89E-07	0.00E+00	2.65E-07	7.59E-08	1.89E-07	0.00E+00	2.65E-07	1.23E-08	2.86E-08	0.00E+00	4.09E-08	6.44E-09	1.09E-08	0.00E+00	1.73E-08
718	600322.3	4176202	7.41E-08	1.85E-07	0.00E+00	2.59E-07	7.41E-08	1.85E-07	0.00E+00	2.59E-07	1.21E-08	2.79E-08	0.00E+00	4.00E-08	6.30E-09	1.06E-08	0.00E+00	1.69E-08
719	600105.6	4176640	6.84E-08	1.70E-07	0.00E+00	2.39E-07	6.84E-08	1.70E-07	0.00E+00	2.39E-07	1.11E-08	2.58E-08	0.00E+00	3.69E-08	5.81E-09	9.82E-09	0.00E+00	1.56E-08
720	600096.7	4176643	6.87E-08	1.71E-07	0.00E+00	2.40E-07	6.87E-08	1.71E-07	0.00E+00	2.40E-07	1.12E-08	2.59E-08	0.00E+00	3.70E-08	5.83E-09	9.86E-09	0.00E+00	1.57E-08
721	600087.8	4176645	6.91E-08	1.72E-07	0.00E+00	2.41E-07	6.91E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.73E-08	5.87E-09	9.92E-09	0.00E+00	1.58E-08
722	600078.9	4176648	7E-08	1.74E-07	0.00E+00	2.44E-07	7.00E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.64E-08	0.00E+00	3.78E-08	5.95E-09	1.00E-08	0.00E+00	1.60E-08
723	600070	4176650	7.16E-08	1.78E-07	0.00E+00	2.50E-07	7.16E-08	1.78E-07	0.00E+00	2.50E-07	1.17E-08	2.70E-08	0.00E+00	3.86E-08	6.08E-09	1.03E-08	0.00E+00	1.64E-08
724	600061	4176653	7.35E-08	1.83E-07	0.00E+00	2.57E-07	7.35E-08	1.83E-07	0.00E+00	2.57E-07	1.20E-08	2.77E-08	0.00E+00	3.96E-08	6.24E-09	1.05E-08	0.00E+00	1.68E-08
725	600052.1	4176656	7.58E-08	1.89E-07	0.00E+00	2.65E-07	7.58E-08	1.89E-07	0.00E+00	2.65E-07	1.23E-08	2.86E-08	0.00E+00	4.09E-08	6.44E-09	1.09E-08	0.00E+00	1.73E-08
726	600043.2	4176658	7.88E-08	1.96E-07	0.00E+00	2.75E-07	7.88E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.97E-08	0.00E+00	4.25E-08	6.69E-09	1.13E-08	0.00E+00	1.80E-08
727	600034.3	4176661	8.18E-08	2.04E-07	0.00E+00	2.86E-07	8.18E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.95E-09	1.17E-08	0.00E+00	1.87E-08
728	600025.4	4176663	8.48E-08	2.11E-07	0.00E+00	2.96E-07	8.48E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.19E-08	0.00E+00	4.57E-08	7.20E-09	1.22E-08	0.00E+00	1.94E-08
729	600016.5	4176666	8.69E-08	2.16E-07	0.00E+00	3.03E-07	8.69E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.68E-08	7.38E-09	1.25E-08	0.00E+00	1.98E-08
730	599918.4	4176695	1.29E-07	3.21E-07	0.00E+00	4.51E-07	1.29E-07	3.21E-07	0.00E+00	4.51E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
731	599909.5	4176697	1.34E-07	3.33E-07	0.00E+00	4.67E-07	1.34E-07	3.33E-07	0.00E+00	4.67E-07	2.18E-08	5.04E-08	0.00E+00	7.22E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
732	599900.6	4176700	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.46E-08	1.18E-08	1.99E-08	0.00E+00	3.16E-08
733	599891.7	4176702	1.41E-07	3.52E-07	0.00E+00	4.93E-07	1.41E-07	3.52E-07	0.00E+00	4.93E-07	2.30E-08	5.32E-08	0.00E+00	7.61E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
734	599882.8	4176705	1.44E-07	3.58E-07	0.00E+00	5.02E-07	1.44E-07	3.58E-07	0.00E+00	5.02E-07	2.34E-08	5.42E-08	0.00E+00	7.76E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
735	599873.9	4176708	1.46E-07	3.63E-07	0.00E+00	5.08E-07	1.46E-07	3.63E-07	0.00E+00	5.08E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
736	599865	4176710	1.49E-07	3.70E-07	0.00E+00	5.18E-07	1.49E-07	3.70E-07	0.00E+00	5.18E-07	2.42E-08	5.59E-08	0.00E+00	8.01E-08	1.26E-08	2.13E-08	0.00E+00	3.39E-08
737	599856.1	4176713	1.51E-07	3.76E-07	0.00E+00	5.26E-07	1.51E-07	3.76E-07	0.00E+00	5.26E-07	2.45E-08	5.68E-08	0.00E+00	8.13E-08	1.28E-08	2.16E-08	0.00E+00	3.45E-08
738	599847.1	4176716	1.53E-07	3.80E-07	0.00E+00	5.33E-07	1.53E-07	3.80E-07	0.00E+00	5.33E-07	2.48E-08	5.75E-08	0.00E+00	8.23E-08	1.30E-08	2.19E-08	0.00E+00	3.49E-08
739	599838.2	4176718	1.52E-07	3.78E-07	0.00E+00	5.29E-07	1.52E-07	3.78E-07	0.00E+00	5.29E-07	2.47E-08	5.71E-08	0.00E+00	8.18E-08	1.29E-08	2.18E-08	0.00E+00	3.46E-08
740	599829.3	4176721	1.5E-07	3.72E-07	0.00E+00	5.22E-07	1.50E-07	3.72E-07	0.00E+00	5.22E-07	2.43E-08	5.63E-08	0.00E+00	8.06E-08	1.27E-08	2.15E-08	0.00E+00	3.42E-08
741	599820.4	4176723	1.48E-07	3.69E-07	0.00E+00	5.17E-07	1.48E-07	3.69E-07	0.00E+00	5.17E-07	2.41E-08	5.57E-08	0.00E+00	7.98E-08	1.26E-08	2.12E-08	0.00E+00	3.38E-08
742	599811.5	4176726	1.47E-07	3.66E-07	0.00E+00	5.12E-07	1.47E-07	3.66E-07	0.00E+00	5.12E-07	2.39E-08	5.53E-08	0.00E+00	7.92E-08	1.25E-08	2.11E-08	0.00E+00	3.35E-08
743	599802.6	4176729	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.37E-08	5.47E-08	0.00E+00	7.84E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
744	599793.7	4176731	1.44E-07	3.60E-07	0.00E+00	5.04E-07	1.44E-07	3.60E-07	0.00E+00	5.04E-07	2.35E-08	5.44E-08	0.00E+00	7.79E-08	1.23E-08	2.07E-08	0.00E+00	3.30E-08
745	599784.8	4176734	1.44E-07	3.59E-07	0.00E+00	5.03E-07	1.44E-07	3.59E-07	0.00E+00	5.03E-07	2.34E-08	5.42E-08	0.00E+00	7.77E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
746	599775.8	4176736	1.43E-07	3.55E-07	0.00E+00	4.97E-07	1.43E-07	3.55E-07	0.00E+00	4.97E-07	2.32E-08	5.37E-08	0.00E+00	7.68E-08	1.21E-08	2.05E-08	0.00E+00	3.26E-08
747	599766.9	4176739	1.4E-07	3.49E-07	0.00E+00	4.89E-07	1.40E-07	3.49E-07	0.00E+00	4.89E-07	2.28E-08	5.28E-08	0.00E+00	7.56E-08	1.19E-08	2.01E-08	0.00E+00	3.20E-08
748	599758	4176742	1.38E-07	3.44E-07	0.00E+00	4.83E-07	1.38E-07	3.44E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.46E-08	1.17E-08	1.98E-08	0.00E+00	3.16E-08
749	599749.1	4176744	1.37E-07	3.41E-07	0.00E+00	4.78E-07	1.37E-07	3.41E-07	0.00E+00	4.78E-07	2.23E-08	5.16E-08	0.00E+00	7.39E-08	1.16E-08	1.97E-08	0.00E+00	3.13E-08
750	599740.2	4176747	1.36E-07	3.39E-07	0.00E+00	4.75E-07	1.36E-07	3.39E-07	0.00E+00	4.75E-07	2.21E-08	5.13E-08	0.00E+00	7.34E-08	1.16E-08	1.95E-08	0.00E+00	3.11E-08
751	599731.3	4176749	1.35E-07	3.36E-07	0.00E+00	4.71E-07	1.35E-07	3.36E-07	0.00E+00	4.71E-07	2.19E-08	5.08E-08	0.00E+00	7.27E-08	1.15E-08	1.94E-08	0.00E+00	3.08E-08
752	599722.4	4176752	1.33E-07	3.31E-07	0.00E+00	4.65E-07	1.33E-07	3.31E-07	0.00E+00	4.65E-07	2.17E-08	5.01E-08	0.00E+00	7.18E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
753	599713.5	4176755	1.3E-07	3.24E-07	0.00E+00	4.54E-07	1.30E-07	3.24E-07	0.00E+00	4.54E-07	2.12E-08	4.90E-08	0.00E+00	7.01E-08	1.10E-08	1.87E-08	0.00E+00	2.97E-08
754	599704.5	4176757	1.27E-07	3.17E-07	0.00E+00	4.44E-07	1.27E-07	3.17E-07	0.00E+00	4.44E-07	2.07E-08	4.79E-08	0.00E+00	6.86E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
755	599695.6	4176760	1.25E-07	3.10E-07	0.00E+00	4.35E-07	1.25E-07	3.10E-07	0.00E+00	4.35E-07	2.03E-08	4.69E-08	0.00E+00	6.72E-08	1.06E-08	1.79E-08	0.00E+00	2.84E-08
756	599686.7	4176762	1.21E-07	3.01E-07	0.00E+00	4.23E-07	1.21E-07	3.01E-07	0.00E+00	4.23E-07	1.97E-08	4.56E-08	0.00E+00	6.53E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
757	599677.8	4176765	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.91E-08	4.41E-08	0.00E+00	6.32E-08	9.96E-09	1.68E-08	0.00E+00	2.68E-08
758	599668.9	4176768	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.86E-08	4.30E-08	0.00E+00	6.16E-08	9.70E-09	1.64E-08	0.00E+00	2.61E-08
759	599660	4176770	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.16E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
760	600358.5	4176116	8.92E-08	2.22E-07	0.00E+00	3.11E-07	8.92E-08	2.22E-07	0.00E+00	3.11E-07	1.45E-08	3.36E-08	0.00E+00	4.81E-08	7.58E-09	1.28E-08	0.00E+00	2.04E-08
761	600358.1	4176107	9.27E-08	2.31E-07	0.00E+00	3.24E-07	9.27E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.49E-08	0.00E+00	5.00E-08	7.87E-09	1.33E-08	0.00E+00	2.12E-08
762	600357.7	4176098	9.57E-08	2.38E-07	0.00E+00	3.34E-07	9.57E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.16E-08	8.12E-09	1.37E-08	0.00E+00	2.19E-08
763	600357.3	4176088	9.87E-08	2.46E-07	0.00E+00	3.44E-07	9.87E-08	2.46E-07	0.00E+00	3.44E-07	1.61E-08	3.72E-08	0.00E+00	5.32E-08	8.38E-09	1.42E-08	0.00E+00	2.25E-08
764	600356.9	4176079	1.02E-07	2.54E-07	0.00E+00	3.55E-07	1.02E-07	2.54E-07	0.00E+00	3.55E-07	1.66E-08	3.83E-08	0.00E+00	5.49E-08	8.65E-09	1.46E-08	0.00E+00	2.33E-08
765	600356.5	4176070	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.65E-08	3.81E-08	0.00E+00	5.46E-08	8.60E-09	1.45E-08	0.00E+00	2.31E-08
766	600374.9	4176124	8.14E-08	2.03E-07	0.00E+00	2.84E-07	8.14E-08	2.03E-07	0.00E+00	2.84E-07	1.32E-08	3.07E-08	0.00E+00	4.39E-08	6.91E-09	1.17E-08	0.00E+00	1.86E-08
767	600371.2	4176133	8.05E-08	2.00E-07	0.00E+00	2.81E-07	8.05E-08	2.00E-07	0.00E+00	2.81E-07	1.31E-08	3.03E-08	0.00E+00	4.34E-08	6.84E-09	1.16E-08	0.00E+00	1.84E-08

768	600367.6	4176141	7.95E-08	1.98E-07	0.00E+00	2.77E-07	7.95E-08	1.98E-07	0.00E+00	2.77E-07	1.29E-08	2.99E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
769	600364	4176150	7.84E-08	1.95E-07	0.00E+00	2.74E-07	7.84E-08	1.95E-07	0.00E+00	2.74E-07	1.28E-08	2.95E-08	0.00E+00	4.23E-08	6.66E-09	1.13E-08	0.00E+00	1.79E-08
770	600360.4	4176158	7.73E-08	1.93E-07	0.00E+00	2.70E-07	7.73E-08	1.93E-07	0.00E+00	2.70E-07	1.26E-08	2.91E-08	0.00E+00	4.17E-08	6.57E-09	1.11E-08	0.00E+00	1.77E-08
771	600356.8	4176167	7.61E-08	1.90E-07	0.00E+00	2.66E-07	7.61E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.10E-08	6.46E-09	1.09E-08	0.00E+00	1.74E-08
772	600353.2	4176175	7.46E-08	1.86E-07	0.00E+00	2.60E-07	7.46E-08	1.86E-07	0.00E+00	2.60E-07	1.21E-08	2.81E-08	0.00E+00	4.02E-08	6.33E-09	1.07E-08	0.00E+00	1.70E-08
773	600349.6	4176184	7.29E-08	1.82E-07	0.00E+00	2.55E-07	7.29E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.93E-08	6.19E-09	1.05E-08	0.00E+00	1.67E-08
774	600346	4176192	7.15E-08	1.78E-07	0.00E+00	2.49E-07	7.15E-08	1.78E-07	0.00E+00	2.49E-07	1.16E-08	2.69E-08	0.00E+00	3.85E-08	6.07E-09	1.03E-08	0.00E+00	1.63E-08
775	600092.3	4176663	6.21E-08	1.55E-07	0.00E+00	2.17E-07	6.21E-08	1.55E-07	0.00E+00	2.17E-07	1.01E-08	2.34E-08	0.00E+00	3.35E-08	5.28E-09	8.92E-09	0.00E+00	1.42E-08
776	600083.4	4176665	6.24E-08	1.55E-07	0.00E+00	2.18E-07	6.24E-08	1.55E-07	0.00E+00	2.18E-07	1.01E-08	2.35E-08	0.00E+00	3.36E-08	5.30E-09	8.95E-09	0.00E+00	1.42E-08
777	600074.5	4176668	6.4E-08	1.59E-07	0.00E+00	2.24E-07	6.40E-08	1.59E-07	0.00E+00	2.24E-07	1.04E-08	2.41E-08	0.00E+00	3.45E-08	5.44E-09	9.19E-09	0.00E+00	1.46E-08
778	600065.7	4176670	6.6E-08	1.64E-07	0.00E+00	2.30E-07	6.60E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.49E-08	0.00E+00	3.56E-08	5.60E-09	9.47E-09	0.00E+00	1.51E-08
779	600056.8	4176673	6.83E-08	1.70E-07	0.00E+00	2.38E-07	6.83E-08	1.70E-07	0.00E+00	2.38E-07	1.11E-08	2.57E-08	0.00E+00	3.68E-08	5.80E-09	9.81E-09	0.00E+00	1.56E-08
780	600047.9	4176676	7.04E-08	1.75E-07	0.00E+00	2.46E-07	7.04E-08	1.75E-07	0.00E+00	2.46E-07	1.14E-08	2.65E-08	0.00E+00	3.79E-08	5.98E-09	1.01E-08	0.00E+00	1.61E-08
781	600039	4176678	7.17E-08	1.78E-07	0.00E+00	2.50E-07	7.17E-08	1.78E-07	0.00E+00	2.50E-07	1.17E-08	2.70E-08	0.00E+00	3.86E-08	6.09E-09	1.03E-08	0.00E+00	1.64E-08
782	600030.1	4176681	7.31E-08	1.82E-07	0.00E+00	2.55E-07	7.31E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.94E-08	6.21E-09	1.05E-08	0.00E+00	1.67E-08
783	600021.2	4176683	7.47E-08	1.86E-07	0.00E+00	2.61E-07	7.47E-08	1.86E-07	0.00E+00	2.61E-07	1.22E-08	2.81E-08	0.00E+00	4.03E-08	6.34E-09	1.07E-08	0.00E+00	1.71E-08
784	600012.3	4176686	7.66E-08	1.91E-07	0.00E+00	2.67E-07	7.66E-08	1.91E-07	0.00E+00	2.67E-07	1.25E-08	2.88E-08	0.00E+00	4.13E-08	6.50E-09	1.10E-08	0.00E+00	1.75E-08
785	600003.4	4176689	7.87E-08	1.96E-07	0.00E+00	2.75E-07	7.87E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
786	599994.5	4176691	8.12E-08	2.02E-07	0.00E+00	2.83E-07	8.12E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.06E-08	0.00E+00	4.38E-08	6.89E-09	1.16E-08	0.00E+00	1.85E-08
787	599985.6	4176694	8.38E-08	2.09E-07	0.00E+00	2.93E-07	8.38E-08	2.09E-07	0.00E+00	2.93E-07	1.36E-08	3.16E-08	0.00E+00	4.52E-08	7.12E-09	1.20E-08	0.00E+00	1.91E-08
788	599976.8	4176696	8.66E-08	2.16E-07	0.00E+00	3.02E-07	8.66E-08	2.16E-07	0.00E+00	3.02E-07	1.41E-08	3.26E-08	0.00E+00	4.67E-08	7.35E-09	1.24E-08	0.00E+00	1.98E-08
789	599879	4176725	1.3E-07	3.23E-07	0.00E+00	4.52E-07	1.30E-07	3.23E-07	0.00E+00	4.52E-07	2.11E-08	4.88E-08	0.00E+00	6.99E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
790	599870.1	4176728	1.33E-07	3.30E-07	0.00E+00	4.63E-07	1.33E-07	3.30E-07	0.00E+00	4.63E-07	2.16E-08	4.99E-08	0.00E+00	7.15E-08	1.13E-08	1.90E-08	0.00E+00	3.03E-08
791	599861.2	4176730	1.35E-07	3.36E-07	0.00E+00	4.70E-07	1.35E-07	3.36E-07	0.00E+00	4.70E-07	2.19E-08	5.07E-08	0.00E+00	7.27E-08	1.14E-08	1.93E-08	0.00E+00	3.08E-08
792	599852.3	4176733	1.37E-07	3.40E-07	0.00E+00	4.77E-07	1.37E-07	3.40E-07	0.00E+00	4.77E-07	2.22E-08	5.14E-08	0.00E+00	7.36E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
793	599843.4	4176735	1.38E-07	3.43E-07	0.00E+00	4.81E-07	1.38E-07	3.43E-07	0.00E+00	4.81E-07	2.24E-08	5.19E-08	0.00E+00	7.44E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
794	599834.5	4176738	1.37E-07	3.41E-07	0.00E+00	4.78E-07	1.37E-07	3.41E-07	0.00E+00	4.78E-07	2.23E-08	5.16E-08	0.00E+00	7.39E-08	1.16E-08	1.97E-08	0.00E+00	3.13E-08
795	599825.6	4176741	1.36E-07	3.39E-07	0.00E+00	4.75E-07	1.36E-07	3.39E-07	0.00E+00	4.75E-07	2.21E-08	5.13E-08	0.00E+00	7.34E-08	1.16E-08	1.95E-08	0.00E+00	3.11E-08
796	599816.7	4176743	1.35E-07	3.37E-07	0.00E+00	4.72E-07	1.35E-07	3.37E-07	0.00E+00	4.72E-07	2.20E-08	5.10E-08	0.00E+00	7.30E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
797	599807.8	4176746	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.04E-08	0.00E+00	7.22E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
798	599798.9	4176748	1.33E-07	3.31E-07	0.00E+00	4.63E-07	1.33E-07	3.31E-07	0.00E+00	4.63E-07	2.16E-08	5.00E-08	0.00E+00	7.16E-08	1.13E-08	1.90E-08	0.00E+00	3.03E-08
799	599790.1	4176751	1.32E-07	3.29E-07	0.00E+00	4.61E-07	1.32E-07	3.29E-07	0.00E+00	4.61E-07	2.15E-08	4.97E-08	0.00E+00	7.12E-08	1.12E-08	1.89E-08	0.00E+00	3.02E-08
800	599781.2	4176754	1.31E-07	3.27E-07	0.00E+00	4.58E-07	1.31E-07	3.27E-07	0.00E+00	4.58E-07	2.14E-08	4.94E-08	0.00E+00	7.08E-08	1.12E-08	1.88E-08	0.00E+00	3.00E-08
801	599772.3	4176756	1.3E-07	3.24E-07	0.00E+00	4.54E-07	1.30E-07	3.24E-07	0.00E+00	4.54E-07	2.12E-08	4.90E-08	0.00E+00	7.01E-08	1.10E-08	1.87E-08	0.00E+00	2.97E-08
802	599763.4	4176759	1.29E-07	3.21E-07	0.00E+00	4.51E-07	1.29E-07	3.21E-07	0.00E+00	4.51E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
803	599754.5	4176761	1.28E-07	3.20E-07	0.00E+00	4.48E-07	1.28E-07	3.20E-07	0.00E+00	4.48E-07	2.09E-08	4.84E-08	0.00E+00	6.93E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
804	599745.6	4176764	1.27E-07	3.16E-07	0.00E+00	4.43E-07	1.27E-07	3.16E-07	0.00E+00	4.43E-07	2.07E-08	4.78E-08	0.00E+00	6.85E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
805	599736.7	4176767	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.70E-08	0.00E+00	6.74E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
806	599727.8	4176769	1.23E-07	3.06E-07	0.00E+00	4.30E-07	1.23E-07	3.06E-07	0.00E+00	4.30E-07	2.00E-08	4.63E-08	0.00E+00	6.64E-08	1.05E-08	1.77E-08	0.00E+00	2.81E-08
807	599718.9	4176772	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.57E-08	0.00E+00	6.54E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
808	599710	4176774	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.49E-08	0.00E+00	6.43E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
809	599701.1	4176777	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.91E-08	4.41E-08	0.00E+00	6.32E-08	9.96E-09	1.68E-08	0.00E+00	2.68E-08
810	599692.3	4176780	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.88E-08	4.34E-08	0.00E+00	6.22E-08	9.79E-09	1.65E-08	0.00E+00	2.63E-08
811	599683.4	4176782	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.86E-08	4.30E-08	0.00E+00	6.16E-08	9.70E-09	1.64E-08	0.00E+00	2.61E-08
812	600378.5	4176116	8.22E-08	2.05E-07	0.00E+00	2.87E-07	8.22E-08	2.05E-07	0.00E+00	2.87E-07	1.34E-08	3.10E-08	0.00E+00	4.43E-08	6.98E-09	1.18E-08	0.00E+00	1.88E-08
813	600378.1	4176106	8.45E-08	2.10E-07	0.00E+00	2.95E-07	8.45E-08	2.10E-07	0.00E+00	2.95E-07	1.38E-08	3.18E-08	0.00E+00	4.56E-08	7.18E-09	1.21E-08	0.00E+00	1.93E-08
814	600377.7	4176097	8.74E-08	2.18E-07	0.00E+00	3.05E-07	8.74E-08	2.18E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.71E-08	7.42E-09	1.25E-08	0.00E+00	2.00E-08
815	600377.3	4176087	9.04E-08	2.25E-07	0.00E+00	3.16E-07	9.04E-08	2.25E-07	0.00E+00	3.16E-07	1.47E-08	3.41E-08	0.00E+00	4.88E-08	7.68E-09	1.30E-08	0.00E+00	2.07E-08
816	600376.9	4176078	9.38E-08	2.34E-07	0.00E+00	3.28E-07	9.38E-08	2.34E-07	0.00E+00	3.28E-07	1.53E-08	3.53E-08	0.00E+00	5.06E-08	7.97E-09	1.35E-08	0.00E+00	2.14E-08
817	600376.5	4176069	9.34E-08	2.33E-07	0.00E+00	3.26E-07	9.34E-08	2.33E-07	0.00E+00	3.26E-07	1.52E-08	3.52E-08	0.00E+00	5.04E-08	7.93E-09	1.34E-08	0.00E+00	2.13E-08
818	600394.8	4176123	7.59E-08	1.89E-07	0.00E+00	2.65E-07	7.59E-08	1.89E-07	0.00E+00	2.65E-07	1.24E-08	2.86E-08	0.00E+00	4.09E-08	6.45E-09	1.09E-08	0.00E+00	1.73E-08
819	600391.2	4176132	7.52E-08	1.87E-07	0.00E+00	2.63E-07	7.52E-08	1.87E-07	0.00E+00	2.63E-07	1.22E-08	2.83E-08	0.00E+00	4.06E-08	6.39E-09	1.08E-08	0.00E+00	1.72E-08
820	600387.6	4176140	7.44E-08	1.85E-07	0.00E+00	2.60E-07	7.44E-08	1.85E-07	0.00E+00	2.60E-07	1.21E-08	2.80E-08	0.00E+00	4.01E-08	6.32E-09	1.07E-08	0.00E+00	1.70E-08
821	600384	4176149	7.35E-08	1.83E-07	0.00E+00	2.56E-07	7.35E-08	1.83E-07	0.00E+00	2.56E-07	1.20E-08	2.77E-08	0.00E+00	3.96E-08	6.24E-09	1.05E-08	0.00E+00	1.68E-08
822	600380.4	4176157	7.25E-08	1.81E-07	0.00E+00	2.53E-07	7.25E-08	1.81E-07	0.00E+00	2.53E-07	1.18E-08	2.73E-08	0.00E+00	3.91E-08	6.16E-09	1.04E-08	0.00E+00	1.66E-08
823	600376.8	4176166	7.16E-08	1.78E-07	0.00E+00	2.50E-07	7.16E-08	1.78E-07	0.00E+00	2.50E-07	1.16E-08	2.69E-08	0.00E+00	3.86E-08	6.08E-09	1.03E-08	0.00E+00	1.63E-08
824	600373.2	4176174	7.03E-08	1.75E-07	0.00E+00	2.45E-07	7.03E-08	1.75E-07	0.00E+00	2.45E-07	1.14E-08	2.65E-08	0.00E+00	3.79E-08	5.97E-09	1.01E-08	0.00E+00	1.61E-08
825	600369.6	4176183	6.9E-08	1.72E-07	0.00E+00	2.41E-07	6.90E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.72E-08	5.86E-09	9.91E-09	0.00E+00	1.58E-08
826	600061.4	4176691	5.95E-08	1.48E-07	0.00E+00	2.08E-07	5.95E-08	1.48E-07	0.00E+00	2.08E-07	9.68E-09	2.24E-08	0.00E+00	3.21E-08	5.05E-09	8.54E-09	0.00E+00	1.36E-08
827	600052.6	4176693	6.08E-08	1.51E-07	0.00E+00	2.12E-07	6.08E-08	1.51E-07	0.00E+00	2.12E-07	9.89E-09	2.29E-08	0.00E+00	3.28E-08	5.16E-09	8.73E-09	0.00E+00	1.39E-08
828	600043.7	4176696	6.19E-08	1.54E-07	0.00E+00	2.16E-07	6.19E-08	1.54E-07	0.00E+00	2.16E-07	1.01E-08	2.33E-08	0.00E+00	3.34E-08	5.26E-09	8.88E-09	0.00E+00	1.41E-08
829	600034.8	4176698	6.31E-08	1.57E-07	0.00E+00	2.20E-07	6.31E-08	1.57E-07	0.00E+00	2.20E-07	1.03E-08	2.38E-08	0.00E+00	3.40E-08	5.36E-09	9.06E-09	0.00E+00	1.44E-08
830	600025.9	4176701	6.45E-08	1.61E-07	0.00E+00	2.25E-07	6.45E-08	1.61E-07	0.00E+00	2.25E-07	1.05E-08	2.43E-08	0.00E+00	3.48E-08	5.48E-09	9.26E-09	0.00E+00	1.47E-08
831	600017.1	4176703	6.61E-08	1.65E-07	0.00E+00	2.31E-07	6.61E-08	1.65E-07	0.00E+00	2.31E-07	1.07E-08	2.49E-08	0.00E+00	3.56E-08	5.61E-09	9.48E-09	0.00E+00	1.51E-08
832	600008.2	4176706	6.78E-08	1.69E-07	0.00E+00	2.37E-07	6.78E-08	1.69E-07	0.00E+00	2.37E-07	1.10E-08	2.55E-08	0.00E+00	3.66E-08	5.76E-09	9.73E-09	0.00E+00	1.55E-08
833	599999.3	4176709	6.97E-08	1.73E-07	0.00E+00	2.43E-07	6.97E-08	1.73E-07	0.00E+00	2.43E-07	1.13E-08	2.62E-08	0.00E+00	3.76E-08	5.92E-09	1.00E-08	0.00E+00	1.59E-08
834	599990.5	4176711	7.16E-08	1.78E-07	0.00E+00	2.50E-07	7.16E-08	1.78E-07	0.00E+00	2.50E-07	1.16E-08	2.70E-08	0.00E+00	3.86E-08	6.08E-09	1.03E-08	0.00E+00	1.64E-08
835	599981.6	4176714	7.35E-08	1.83E-07	0.00E+00	2.57E-07	7.35E-08	1.83E-07	0.00E+00	2.57E-07	1.20E-08	2.77E-08	0.00E+00	3.96E-08	6.24E-09	1.05E-08	0.00E+00	1.68E-08
836	599972.7	4176716	7.59E-08	1.89E-07	0.00E+00	2.65E-07	7.59E-08	1.89E-07	0.00E+00	2.65E-07	1.23E-08	2.86E-08	0.00E+00	4.09E-08	6.44E-09	1.09E-08	0.00E+00	1.73E-08
837	599963.9	4176719	7.88E-08	1.96E-07	0.00E+00	2.75E-07	7.88E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.97E-08	0.00E+00	4.25E-08	6.69E-09	1.13E-08	0.00E+00	1.80E-08
838	599955	4176722	8.22E-08	2.05E-07	0.00E+00	2.87E-07	8.22E-08	2.05E-07	0.00E+00	2.87E-07	1.34E-08	3.10E-08	0.00E+00	4.43E-08	6.98E-09	1.18E-08	0.00E+00	1.88E-08
839	599946.1	4176724	8.61E-08	2.14E-07	0.00E+00	3.00E-07	8.61E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.24E-08	0.00E+00	4.64E-08	7.31E-09	1.24E-08	0.00E+00	1.97E-08
840	599857.4	4176750	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.48E-08	0.00E+00	6.42E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
841	599848.5	4176753	1.2E-07	2.99E-07	0.00E+00	4.19E-07	1.20E-07	2.99E-07	0.00E+00	4.19E-07	1.95E-08	4.52E-08	0.00E+00	6.48E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
842	599839.7	4176755	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.53E-08	0.00E+00	6.49E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
843	599830.8	4176758	1.2E-07	2.98E-07	0.00E+00	4.17E-07	1.20E-07	2.98E-07	0.00E+00	4.17E-07	1.95E-08	4.50E-08	0.00E+00	6.45E-08	1.02E-08	1.72E-08	0.00E+00	2.73E-08
844	599821.9	4176761	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.94E-08	4.48E-08	0.00E+00	6.41E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
845	599813.1	4176763	1.19E-07	2.95E-07	0.00E+00	4.14E-07	1.19E-07	2.95E-07	0.00E+00	4.14E-07	1.93E-08	4.46E-08	0.00E+00	6.39E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
846	599804.2	4176766	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.92E-08	4.45E-08	0.00E+00	6.38E-08	1.00E-08	1.70E-08	0.00E+00	2.70E-08
847	599795.3	4176768	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.92E-08	4.44E-08	0.00E+00	6.36E-08	1.00E-08	1.69E-08	0.00E+00	2.69E-08
848	599786.5	4176771	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.91E-08	4.43E-08	0.00E+00	6.35E-08	9.99E-09	1.69E-08	0.00E+00	2.69E-08
849	599777.6	4176774	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.30E-08	9.92E-09	1.68E-08	0.00E+00	2.67E-08
850	599768.7	4176776	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.89E-08	4.37E-08	0.00E+00	6.25E-08	9.85E-09	1.66E-08	0.00E+00	2.65E-08
851	599759.9	4176779	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.22E-08	9.80E-09	1.66E-08	0.00E+00	2.64E-08
852	599751	4176781	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.32E-08	0.00E+00	6.19E-08	9.75E-09	1.65E-08	0.00E+00	2.62E-08
853	599742.1	4176784	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.16E-08	9.70E-09	1.64E-08	0.00E+00	2.61E-08
854	599733.2	4176786	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.85E-08	4.29E-08	0.00E+00	6.14E-08	9.67E-09	1.64E-08	0.00E+00	2.60E-08
855	599724.4	4176789	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
856	599715.5	4176792	1.12E-07	2.80E-07	0.00E+00	3.92E-07	1.12E-07	2.80E-07	0.00E+00	3.92E-07	1.83E-08	4.23E-08	0.00E+00	6.06E-08	9.55E-09	1.61E-08	0.00E+00	2.57E-08
857	599706.6	4176794	1.11E-07	2.75E-07	0.00E+00	3.86E-07	1.11E-07	2.75E-07	0.00E+00	3.86E-07	1.80E-08	4.16E-08	0.00E+00	5.96E-08	9.38E-09	1.59E-08	0.00E+00	2.52E-08
858	600398.4	4176115	7.66E-08	1.91E-07	0.00E+00	2.67E-07	7.66E-08	1.91E-07	0.00E+00	2.67E-07	1.25E-08	2.88E-08	0.00E+00	4.13E-08	6.50E-09	1.10E-08	0.00E+00	1.75E-08
859	600398	4176105	7.86E-08	1.96E-07	0.00E+00	2.74E-07	7.86E-08	1.96E-07	0.00E+00	2.74E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
860	600397.6	4176096	8.11E-08	2.02E-07	0.00E+00	2.83E-07	8.11E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.88E-09	1.16E-08	0.00E+00	1.85E-08
861	600397.3	4176087	8.37E-08	2.08E-07	0.00E+00	2.92E-07	8.37E-08	2.08E-07	0.00E+00	2.92E-07	1.36E-08	3.15E-08	0.00E+00	4.51E-08	7.10E-09	1.20E-08	0.00E+00	1.91E-08
862	600396.9	4176077	8.64E-08	2.15E-07	0.00E+00	3.02E-07	8.64E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.97E-08
863	600396.5	4176068	8.62E-08	2.15E-07	0.00E+00	3.01E-07	8.62E-08	2.15E-07	0.00E+00	3.01E-07	1.40E-08	3.24E-08	0.00E+00	4.65E-08	7.32E-09	1.24E-08	0.00E+00	1.97E-08
864	600414.8	4176123	7.12E-08	1.77E-07	0.00E+00	2.49E-07	7.12E-08	1.77E-07	0.00E+00	2.49E-07	1.16E-08	2.68E-08	0.00E+00	3.84E-08	6.05E-09	1.02E-08	0.00E+00	1.63E-08
865	600411.1	4176131	7.06E-08	1.76E-07	0.00E+00	2.46E-07	7.06E-08	1.76E-07	0.00E+00	2.46E-07	1.15E-08	2.66E-08	0.00E+00	3.81E-08	6.00E-09	1.01E-08	0.00E+00	1.61E-08
866	600407.5	4176140	6.99E-08	1.74E-07	0.00E+00	2.44E-07	6.99E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.77E-08	5.94E-09	1.00E-08	0.00E+00	1.60E-08
867	600403.8	4176148	6.91E-08	1.72E-07	0.00E+00	2.41E-07	6.91E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.73E-08	5.87E-09	9.92E-09	0.00E+00	1.58E-08
868	600400.2	4176157	6.83E-08	1.70E-07	0.00E+00	2.38E-07	6.83E-08	1.70E-07	0.00E+00	2.38E-07	1.11E-08	2.57E-08	0.00E+00	3.68E-08	5.80E-09	9.79E-09	0.00E+00	1.56E-08
869	600396.5	4176166	6.74E-08	1.68E-07	0.00E+00	2.35E-07	6.74E-08	1.68E-07	0.00E+00	2.35E-07	1.10E-08	2.54E-08	0.00E+00	3.63E-08	5.72E-09	9.67E-09	0.00E+00	1.54E-08
870	600392.9	4176174	6.64E-08	1.65E-07	0.00E+00	2.32E-07	6.64E-08	1.65E-07	0.00E+00	2.32E-07	1.08E-08	2.50E-08	0.00E+00	3.58E-08	5.64E-09	9.53E-09	0.00E+00	1.52E-08
871	600028.4	4176719	5.65E-08	1.41E-07	0.00E+00	1.97E-07	5.65E-08	1.41E-07	0.00E+00	1.97E-07	9.18E-09	2.13E-08	0.00E+00	3.04E-08	4.79E-09	8.10E-09	0.00E+00	1.29E-08
872	600019.4	4176722	5.76E-08	1.43E-07	0.00E+00	2.01E-07	5.76E-08	1.43E-07	0.00E+00	2.01E-07	9.37E-09	2.17E-08	0.00E+00	3.10E-08	4.89E-09	8.26E-09	0.00E+00	1.32E-08
873	600010.4	4176724	5.89E-08	1.47E-07	0.00E+00	2.06E-07	5.89E-08	1.47E-07	0.00E+00	2.06E-07	9.58E-09	2.22E-08	0.00E+00	3.18E-08	5.00E-09	8.45E-09	0.00E+00	1.35E-08
874	600001.4	4176727	6.04E-08	1.51E-07	0.00E+00	2.11E-07	6.04E-08	1.51E-07	0.00E+00	2.11E-07	9.83E-09	2.28E-08	0.00E+00	3.26E-08	5.13E-09	8.67E-09	0.00E+00	1.38E-08
875	599992.4	4176730	6.22E-08	1.55E-07	0.00E+00	2.17E-07	6.22E-08	1.55E-07	0.00E+00	2.17E-07	1.01E-08	2.34E-08	0.00E+00	3.35E-08	5.28E-09	8.92E-09	0.00E+00	1.42E-08
876	599983.5	4176732	6.41E-08	1.60E-07	0.00E+00	2.24E-07	6.41E-08	1.60E-07	0.00E+00	2.24E-07	1.04E-08	2.41E-08	0.00E+00	3.46E-08	5.44E-09	9.20E-09	0.00E+00	1.46E-08
877	599974.5	4176735	6.65E-08	1.66E-07	0.00E+00	2.32E-07	6.65E-08	1.66E-07	0.00E+00	2.32E-07	1.08E-08	2.50E-08	0.00E+00	3.59E-08	5.65E-09	9.54E-09	0.00E+00	1.52E-08

878	599965.5	4176737	6.99E-08	1.74E-07	0.00E+00	2.44E-07	6.99E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.77E-08	5.94E-09	1.00E-08	0.00E+00	1.60E-08
879	599956.5	4176740	7.35E-08	1.83E-07	0.00E+00	2.57E-07	7.35E-08	1.83E-07	0.00E+00	2.57E-07	1.20E-08	2.77E-08	0.00E+00	3.97E-08	6.24E-09	1.06E-08	0.00E+00	1.68E-08
880	599947.5	4176743	7.72E-08	1.92E-07	0.00E+00	2.69E-07	7.72E-08	1.92E-07	0.00E+00	2.69E-07	1.26E-08	2.91E-08	0.00E+00	4.16E-08	6.55E-09	1.11E-08	0.00E+00	1.76E-08
881	599938.5	4176745	8.09E-08	2.01E-07	0.00E+00	2.82E-07	8.09E-08	2.01E-07	0.00E+00	2.82E-07	1.32E-08	3.05E-08	0.00E+00	4.36E-08	6.87E-09	1.16E-08	0.00E+00	1.85E-08
882	599929.5	4176748	8.45E-08	2.10E-07	0.00E+00	2.95E-07	8.45E-08	2.10E-07	0.00E+00	2.95E-07	1.37E-08	3.18E-08	0.00E+00	4.55E-08	7.17E-09	1.21E-08	0.00E+00	1.93E-08
883	599920.6	4176751	8.8E-08	2.19E-07	0.00E+00	3.07E-07	8.80E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.31E-08	0.00E+00	4.75E-08	7.47E-09	1.26E-08	0.00E+00	2.01E-08
884	599911.6	4176753	9.17E-08	2.28E-07	0.00E+00	3.20E-07	9.17E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.78E-09	1.32E-08	0.00E+00	2.09E-08
885	599839.7	4176774	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.80E-08	0.00E+00	5.44E-08	8.57E-09	1.45E-08	0.00E+00	2.30E-08
886	599830.7	4176777	9.94E-08	2.48E-07	0.00E+00	3.47E-07	9.94E-08	2.48E-07	0.00E+00	3.47E-07	1.62E-08	3.74E-08	0.00E+00	5.36E-08	8.44E-09	1.43E-08	0.00E+00	2.27E-08
887	599821.7	4176779	9.99E-08	2.49E-07	0.00E+00	3.49E-07	9.99E-08	2.49E-07	0.00E+00	3.49E-07	1.63E-08	3.76E-08	0.00E+00	5.39E-08	8.48E-09	1.43E-08	0.00E+00	2.28E-08
888	599812.7	4176782	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.64E-08	3.80E-08	0.00E+00	5.45E-08	8.58E-09	1.45E-08	0.00E+00	2.31E-08
889	599803.7	4176785	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.43E-08	8.55E-09	1.44E-08	0.00E+00	2.30E-08
890	599794.7	4176787	1E-07	2.50E-07	0.00E+00	3.51E-07	1.00E-07	2.50E-07	0.00E+00	3.51E-07	1.63E-08	3.78E-08	0.00E+00	5.42E-08	8.53E-09	1.44E-08	0.00E+00	2.30E-08
891	599785.8	4176790	1E-07	2.50E-07	0.00E+00	3.51E-07	1.00E-07	2.50E-07	0.00E+00	3.51E-07	1.63E-08	3.78E-08	0.00E+00	5.42E-08	8.53E-09	1.44E-08	0.00E+00	2.29E-08
892	599776.8	4176793	1E-07	2.50E-07	0.00E+00	3.50E-07	1.00E-07	2.50E-07	0.00E+00	3.50E-07	1.63E-08	3.78E-08	0.00E+00	5.41E-08	8.52E-09	1.44E-08	0.00E+00	2.29E-08
893	599767.8	4176795	1.01E-07	2.50E-07	0.00E+00	3.51E-07	1.01E-07	2.50E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.42E-08	8.54E-09	1.44E-08	0.00E+00	2.30E-08
894	599758.8	4176798	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.51E-08	8.68E-09	1.47E-08	0.00E+00	2.34E-08
895	599749.8	4176800	1.05E-07	2.60E-07	0.00E+00	3.65E-07	1.05E-07	2.60E-07	0.00E+00	3.65E-07	1.70E-08	3.94E-08	0.00E+00	5.64E-08	8.87E-09	1.50E-08	0.00E+00	2.39E-08
896	599740.8	4176803	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.73E-08	4.00E-08	0.00E+00	5.73E-08	9.02E-09	1.52E-08	0.00E+00	2.43E-08
897	599731.8	4176806	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.05E-08	0.00E+00	5.80E-08	9.14E-09	1.54E-08	0.00E+00	2.46E-08
898	600418.4	4176114	7.18E-08	1.79E-07	0.00E+00	2.50E-07	7.18E-08	1.79E-07	0.00E+00	2.50E-07	1.17E-08	2.70E-08	0.00E+00	3.87E-08	6.09E-09	1.03E-08	0.00E+00	1.64E-08
899	600418	4176105	7.34E-08	1.83E-07	0.00E+00	2.56E-07	7.34E-08	1.83E-07	0.00E+00	2.56E-07	1.19E-08	2.77E-08	0.00E+00	3.96E-08	6.24E-09	1.05E-08	0.00E+00	1.68E-08
900	600417.6	4176095	7.54E-08	1.88E-07	0.00E+00	2.63E-07	7.54E-08	1.88E-07	0.00E+00	2.63E-07	1.23E-08	2.84E-08	0.00E+00	4.07E-08	6.41E-09	1.08E-08	0.00E+00	1.72E-08
901	600417.2	4176086	7.75E-08	1.93E-07	0.00E+00	2.70E-07	7.75E-08	1.93E-07	0.00E+00	2.70E-07	1.26E-08	2.92E-08	0.00E+00	4.18E-08	6.58E-09	1.11E-08	0.00E+00	1.77E-08
902	600416.8	4176076	7.98E-08	1.99E-07	0.00E+00	2.78E-07	7.98E-08	1.99E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.30E-08	6.77E-09	1.14E-08	0.00E+00	1.82E-08
903	600416.4	4176067	7.97E-08	1.98E-07	0.00E+00	2.78E-07	7.97E-08	1.98E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.30E-08	6.76E-09	1.14E-08	0.00E+00	1.82E-08
904	600434.8	4176122	6.69E-08	1.67E-07	0.00E+00	2.33E-07	6.69E-08	1.67E-07	0.00E+00	2.33E-07	1.09E-08	2.52E-08	0.00E+00	3.61E-08	5.68E-09	9.60E-09	0.00E+00	1.53E-08
905	600431.1	4176130	6.65E-08	1.66E-07	0.00E+00	2.32E-07	6.65E-08	1.66E-07	0.00E+00	2.32E-07	1.08E-08	2.50E-08	0.00E+00	3.58E-08	5.64E-09	9.54E-09	0.00E+00	1.52E-08
906	600427.5	4176139	6.59E-08	1.64E-07	0.00E+00	2.30E-07	6.59E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.48E-08	0.00E+00	3.56E-08	5.60E-09	9.46E-09	0.00E+00	1.51E-08
907	600423.8	4176147	6.53E-08	1.63E-07	0.00E+00	2.28E-07	6.53E-08	1.63E-07	0.00E+00	2.28E-07	1.06E-08	2.46E-08	0.00E+00	3.52E-08	5.54E-09	9.37E-09	0.00E+00	1.49E-08
908	600420.2	4176156	6.45E-08	1.61E-07	0.00E+00	2.25E-07	6.45E-08	1.61E-07	0.00E+00	2.25E-07	1.05E-08	2.43E-08	0.00E+00	3.48E-08	5.48E-09	9.26E-09	0.00E+00	1.47E-08
909	600416.6	4176165	6.37E-08	1.59E-07	0.00E+00	2.22E-07	6.37E-08	1.59E-07	0.00E+00	2.22E-07	1.04E-08	2.40E-08	0.00E+00	3.44E-08	5.41E-09	9.14E-09	0.00E+00	1.46E-08
910	600015.2	4176742	5.29E-08	1.32E-07	0.00E+00	1.85E-07	5.29E-08	1.32E-07	0.00E+00	1.85E-07	8.61E-09	1.99E-08	0.00E+00	2.85E-08	4.50E-09	7.60E-09	0.00E+00	1.21E-08
911	600006.2	4176744	5.48E-08	1.37E-07	0.00E+00	1.91E-07	5.48E-08	1.37E-07	0.00E+00	1.91E-07	8.92E-09	2.06E-08	0.00E+00	2.96E-08	4.66E-09	7.87E-09	0.00E+00	1.25E-08
912	599997.3	4176747	5.7E-08	1.42E-07	0.00E+00	1.99E-07	5.70E-08	1.42E-07	0.00E+00	1.99E-07	9.27E-09	2.15E-08	0.00E+00	3.07E-08	4.84E-09	8.18E-09	0.00E+00	1.30E-08
913	599988.3	4176750	5.95E-08	1.48E-07	0.00E+00	2.08E-07	5.95E-08	1.48E-07	0.00E+00	2.08E-07	9.68E-09	2.24E-08	0.00E+00	3.21E-08	5.05E-09	8.54E-09	0.00E+00	1.36E-08
914	599979.3	4176752	6.24E-08	1.55E-07	0.00E+00	2.18E-07	6.24E-08	1.55E-07	0.00E+00	2.18E-07	1.01E-08	2.35E-08	0.00E+00	3.36E-08	5.30E-09	8.95E-09	0.00E+00	1.42E-08
915	599970.4	4176755	6.58E-08	1.64E-07	0.00E+00	2.30E-07	6.58E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.48E-08	0.00E+00	3.55E-08	5.58E-09	9.44E-09	0.00E+00	1.50E-08
916	599961.4	4176757	6.93E-08	1.73E-07	0.00E+00	2.42E-07	6.93E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.61E-08	0.00E+00	3.74E-08	5.89E-09	9.95E-09	0.00E+00	1.58E-08
917	599952.4	4176760	7.18E-08	1.79E-07	0.00E+00	2.50E-07	7.18E-08	1.79E-07	0.00E+00	2.50E-07	1.17E-08	2.70E-08	0.00E+00	3.87E-08	6.09E-09	1.03E-08	0.00E+00	1.64E-08
918	599943.5	4176763	7.41E-08	1.85E-07	0.00E+00	2.59E-07	7.41E-08	1.85E-07	0.00E+00	2.59E-07	1.21E-08	2.79E-08	0.00E+00	4.00E-08	6.29E-09	1.06E-08	0.00E+00	1.69E-08
919	599934.5	4176765	7.63E-08	1.90E-07	0.00E+00	2.66E-07	7.63E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.11E-08	6.48E-09	1.09E-08	0.00E+00	1.74E-08
920	599925.5	4176768	7.81E-08	1.95E-07	0.00E+00	2.73E-07	7.81E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.63E-09	1.12E-08	0.00E+00	1.78E-08
921	599916.6	4176771	7.96E-08	1.98E-07	0.00E+00	2.78E-07	7.96E-08	1.98E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.29E-08	6.76E-09	1.14E-08	0.00E+00	1.82E-08
922	599907.6	4176773	8.08E-08	2.01E-07	0.00E+00	2.82E-07	8.08E-08	2.01E-07	0.00E+00	2.82E-07	1.31E-08	3.04E-08	0.00E+00	4.36E-08	6.86E-09	1.16E-08	0.00E+00	1.85E-08
923	599898.7	4176776	8.14E-08	2.03E-07	0.00E+00	2.84E-07	8.14E-08	2.03E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.39E-08	6.91E-09	1.17E-08	0.00E+00	1.86E-08
924	599889.7	4176778	8.18E-08	2.04E-07	0.00E+00	2.85E-07	8.18E-08	2.04E-07	0.00E+00	2.85E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.94E-09	1.17E-08	0.00E+00	1.87E-08
925	599880.7	4176781	8.21E-08	2.04E-07	0.00E+00	2.86E-07	8.21E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.09E-08	0.00E+00	4.42E-08	6.97E-09	1.18E-08	0.00E+00	1.87E-08
926	599818	4176799	8.51E-08	2.12E-07	0.00E+00	2.97E-07	8.51E-08	2.12E-07	0.00E+00	2.97E-07	1.38E-08	3.20E-08	0.00E+00	4.59E-08	7.22E-09	1.22E-08	0.00E+00	1.94E-08
927	599809	4176802	8.73E-08	2.17E-07	0.00E+00	3.05E-07	8.73E-08	2.17E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.71E-08	7.42E-09	1.25E-08	0.00E+00	1.99E-08
928	599800.1	4176805	8.83E-08	2.20E-07	0.00E+00	3.08E-07	8.83E-08	2.20E-07	0.00E+00	3.08E-07	1.44E-08	3.33E-08	0.00E+00	4.76E-08	7.50E-09	1.27E-08	0.00E+00	2.02E-08
929	599791.1	4176807	8.98E-08	2.24E-07	0.00E+00	3.13E-07	8.98E-08	2.24E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.62E-09	1.29E-08	0.00E+00	2.05E-08
930	599782.1	4176810	9.17E-08	2.28E-07	0.00E+00	3.20E-07	9.17E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.79E-09	1.32E-08	0.00E+00	2.09E-08
931	599773.2	4176812	9.46E-08	2.36E-07	0.00E+00	3.30E-07	9.46E-08	2.36E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.10E-08	8.03E-09	1.36E-08	0.00E+00	2.16E-08
932	599764.2	4176815	9.81E-08	2.44E-07	0.00E+00	3.42E-07	9.81E-08	2.44E-07	0.00E+00	3.42E-07	1.60E-08	3.69E-08	0.00E+00	5.29E-08	8.33E-09	1.41E-08	0.00E+00	2.24E-08
933	599755.2	4176818	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.66E-09	1.46E-08	0.00E+00	2.33E-08
934	600438.4	4176113	6.72E-08	1.67E-07	0.00E+00	2.35E-07	6.72E-08	1.67E-07	0.00E+00	2.35E-07	1.09E-08	2.53E-08	0.00E+00	3.62E-08	5.71E-09	9.65E-09	0.00E+00	1.54E-08
935	600438	4176104	6.86E-08	1.71E-07	0.00E+00	2.39E-07	6.86E-08	1.71E-07	0.00E+00	2.39E-07	1.12E-08	2.58E-08	0.00E+00	3.70E-08	5.82E-09	9.84E-09	0.00E+00	1.57E-08
936	600437.6	4176094	7E-08	1.74E-07	0.00E+00	2.44E-07	7.00E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.64E-08	0.00E+00	3.77E-08	5.94E-09	1.00E-08	0.00E+00	1.60E-08
937	600437.2	4176085	7.15E-08	1.78E-07	0.00E+00	2.49E-07	7.15E-08	1.78E-07	0.00E+00	2.49E-07	1.16E-08	2.69E-08	0.00E+00	3.85E-08	6.07E-09	1.03E-08	0.00E+00	1.63E-08
938	600436.8	4176076	7.3E-08	1.82E-07	0.00E+00	2.55E-07	7.30E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.94E-08	6.20E-09	1.05E-08	0.00E+00	1.67E-08
939	600436.4	4176066	7.33E-08	1.82E-07	0.00E+00	2.56E-07	7.33E-08	1.82E-07	0.00E+00	2.56E-07	1.19E-08	2.76E-08	0.00E+00	3.95E-08	6.22E-09	1.05E-08	0.00E+00	1.67E-08
940	600454.8	4176121	6.32E-08	1.57E-07	0.00E+00	2.20E-07	6.32E-08	1.57E-07	0.00E+00	2.20E-07	1.03E-08	2.38E-08	0.00E+00	3.41E-08	5.36E-09	9.07E-09	0.00E+00	1.44E-08
941	600451.1	4176129	6.27E-08	1.56E-07	0.00E+00	2.19E-07	6.27E-08	1.56E-07	0.00E+00	2.19E-07	1.02E-08	2.36E-08	0.00E+00	3.38E-08	5.32E-09	8.99E-09	0.00E+00	1.43E-08
942	600447.5	4176138	6.22E-08	1.55E-07	0.00E+00	2.17E-07	6.22E-08	1.55E-07	0.00E+00	2.17E-07	1.01E-08	2.34E-08	0.00E+00	3.35E-08	5.28E-09	8.93E-09	0.00E+00	1.42E-08
943	600443.9	4176147	6.17E-08	1.54E-07	0.00E+00	2.15E-07	6.17E-08	1.54E-07	0.00E+00	2.15E-07	1.00E-08	2.32E-08	0.00E+00	3.33E-08	5.24E-09	8.86E-09	0.00E+00	1.41E-08
944	600046.8	4176751	4.68E-08	1.17E-07	0.00E+00	1.63E-07	4.68E-08	1.17E-07	0.00E+00	1.63E-07	7.61E-09	1.76E-08	0.00E+00	2.52E-08	3.97E-09	6.72E-09	0.00E+00	1.07E-08
945	600037.8	4176754	4.78E-08	1.19E-07	0.00E+00	1.67E-07	4.78E-08	1.19E-07	0.00E+00	1.67E-07	7.78E-09	1.80E-08	0.00E+00	2.58E-08	4.06E-09	6.86E-09	0.00E+00	1.09E-08
946	600028.9	4176757	4.89E-08	1.22E-07	0.00E+00	1.71E-07	4.89E-08	1.22E-07	0.00E+00	1.71E-07	7.96E-09	1.84E-08	0.00E+00	2.64E-08	4.16E-09	7.02E-09	0.00E+00	1.12E-08
947	599993.1	4176767	5.61E-08	1.40E-07	0.00E+00	1.96E-07	5.61E-08	1.40E-07	0.00E+00	1.96E-07	9.12E-09	2.11E-08	0.00E+00	3.02E-08	4.76E-09	8.04E-09	0.00E+00	1.28E-08
948	599984.2	4176770	5.79E-08	1.44E-07	0.00E+00	2.02E-07	5.79E-08	1.44E-07	0.00E+00	2.02E-07	9.42E-09	2.18E-08	0.00E+00	3.12E-08	4.92E-09	8.31E-09	0.00E+00	1.32E-08
949	599975.3	4176772	5.97E-08	1.49E-07	0.00E+00	2.09E-07	5.97E-08	1.49E-07	0.00E+00	2.09E-07	9.72E-09	2.25E-08	0.00E+00	3.22E-08	5.07E-09	8.57E-09	0.00E+00	1.36E-08
950	599966.3	4176775	6.15E-08	1.53E-07	0.00E+00	2.15E-07	6.15E-08	1.53E-07	0.00E+00	2.15E-07	1.00E-08	2.32E-08	0.00E+00	3.32E-08	5.22E-09	8.83E-09	0.00E+00	1.40E-08
951	599957.4	4176777	6.25E-08	1.56E-07	0.00E+00	2.18E-07	6.25E-08	1.56E-07	0.00E+00	2.18E-07	1.02E-08	2.35E-08	0.00E+00	3.37E-08	5.30E-09	8.96E-09	0.00E+00	1.43E-08
952	599948.4	4176780	6.32E-08	1.57E-07	0.00E+00	2.21E-07	6.32E-08	1.57E-07	0.00E+00	2.21E-07	1.03E-08	2.38E-08	0.00E+00	3.41E-08	5.37E-09	9.07E-09	0.00E+00	1.44E-08
953	599939.5	4176783	6.41E-08	1.60E-07	0.00E+00	2.24E-07	6.41E-08	1.60E-07	0.00E+00	2.24E-07	1.04E-08	2.41E-08	0.00E+00	3.45E-08	5.44E-09	9.19E-09	0.00E+00	1.46E-08
954	599930.5	4176785	6.49E-08	1.62E-07	0.00E+00	2.26E-07	6.49E-08	1.62E-07	0.00E+00	2.26E-07	1.06E-08	2.44E-08	0.00E+00	3.50E-08	5.51E-09	9.31E-09	0.00E+00	1.48E-08
955	599921.6	4176788	6.55E-08	1.63E-07	0.00E+00	2.28E-07	6.55E-08	1.63E-07	0.00E+00	2.28E-07	1.06E-08	2.46E-08	0.00E+00	3.53E-08	5.56E-09	9.39E-09	0.00E+00	1.50E-08
956	599912.7	4176791	6.58E-08	1.64E-07	0.00E+00	2.30E-07	6.58E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.48E-08	0.00E+00	3.55E-08	5.58E-09	9.44E-09	0.00E+00	1.50E-08
957	599903.7	4176793	6.58E-08	1.64E-07	0.00E+00	2.30E-07	6.58E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.48E-08	0.00E+00	3.55E-08	5.59E-09	9.44E-09	0.00E+00	1.50E-08
958	599894.8	4176796	6.62E-08	1.65E-07	0.00E+00	2.31E-07	6.62E-08	1.65E-07	0.00E+00	2.31E-07	1.08E-08	2.49E-08	0.00E+00	3.57E-08	5.62E-09	9.50E-09	0.00E+00	1.51E-08
959	599885.8	4176798	6.78E-08	1.69E-07	0.00E+00	2.37E-07	6.78E-08	1.69E-07	0.00E+00	2.37E-07	1.10E-08	2.55E-08	0.00E+00	3.65E-08	5.76E-09	9.73E-09	0.00E+00	1.55E-08
960	599876.9	4176801	6.94E-08	1.73E-07	0.00E+00	2.42E-07	6.94E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.61E-08	0.00E+00	3.74E-08	5.89E-09	9.96E-09	0.00E+00	1.59E-08
961	599867.9	4176804	6.99E-08	1.74E-07	0.00E+00	2.44E-07	6.99E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.77E-08	5.94E-09	1.00E-08	0.00E+00	1.60E-08
962	599859	4176806	6.99E-08	1.74E-07	0.00E+00	2.44E-07	6.99E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.77E-08	5.93E-09	1.00E-08	0.00E+00	1.60E-08
963	599796.4	4176825	8.18E-08	2.04E-07	0.00E+00	2.86E-07	8.18E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.95E-09	1.17E-08	0.00E+00	1.87E-08
964	599787.5	4176827	8.54E-08	2.13E-07	0.00E+00	2.98E-07	8.54E-08	2.13E-07	0.00E+00	2.98E-07	1.39E-08	3.21E-08	0.00E+00	4.60E-08	7.25E-09	1.22E-08	0.00E+00	1.95E-08
965	599778.5	4176830	9.09E-08	2.26E-07	0.00E+00	3.17E-07	9.09E-08	2.26E-07	0.00E+00	3.17E-07	1.48E-08	3.42E-08	0.00E+00	4.90E-08	7.72E-09	1.30E-08	0.00E+00	2.08E-08
966	600458.4	4176112	6.37E-08	1.59E-07	0.00E+00	2.22E-07	6.37E-08	1.59E-07	0.00E+00	2.22E-07	1.04E-08	2.40E-08	0.00E+00	3.43E-08	5.41E-09	9.14E-09	0.00E+00	1.46E-08
967	600458	4176103	6.5E-08	1.62E-07	0.00E+00	2.27E-07	6.50E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.45E-08	0.00E+00	3.51E-08	5.52E-09	9.33E-09	0.00E+00	1.49E-08
968	600457.6	4176093	6.65E-08	1.65E-07	0.00E+00	2.32E-07	6.65E-08	1.65E-07	0.00E+00	2.32E-07	1.08E-08	2.50E-08	0.00E+00	3.58E-08	5.64E-09	9.54E-09	0.00E+00	1.52E-08
969	600457.2	4176084	6.79E-08	1.69E-07	0.00E+00	2.37E-07	6.79E-08	1.69E-07	0.00E+00	2.37E-07	1.11E-08	2.56E-08	0.00E+00	3.66E-08	5.77E-09	9.75E-09	0.00E+00	1.55E-08
970	600456.8	4176075	6.93E-08	1.73E-07	0.00E+00	2.42E-07	6.93E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.61E-08	0.00E+00	3.74E-08	5.88E-09	9.94E-09	0.00E+00	1.58E-08
971	600456.4	4176065	6.98E-08	1.74E-07	0.00E+00	2.44E-07	6.98E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.77E-08	5.93E-09	1.00E-08	0.00E+00	1.60E-08
972	600474.7	4176120	6.02E-08	1.50E-07	0.00E+00	2.10E-07	6.02E-08	1.50E-07	0.00E+00	2.10E-07	9.79E-09	2.27E-08	0.00E+00	3.24E-08	5.11E-09	8.64E-09	0.00E+00	1.37E-08
973	600471.1	4176129	5.95E-08	1.48E-07	0.00E+00	2.07E-07	5.95E-08	1.48E-07	0.00E+00	2.07E-07	9.67E-09	2.24E-08	0.00E+00	3.21E-08	5.05E-09	8.53E-09	0.00E+00	1.36E-08
974	600051.5	4176769	4.46E-08	1.11E-07	0.00E+00	1.56E-07	4.46E-08	1.11E-07	0.00E+00	1.56E-07	7.26E-09	1.68E-08	0.00E+00	2.41E-08	3.79E-09	6.41E-09	0.00E+00	1.02E-08
975	600042.6	4176771	4.55E-08	1.13E-07	0.00E+00	1.59E-07	4.55E-08	1.13E-07	0.00E+00	1.59E-07	7.40E-09	1.71E-08	0.00E+00	2.45E-08	3.86E-09	6.53E-09	0.00E+00	1.04E-08
976	600033.7	4176774	4.64E-08	1.16E-07	0.00E+00	1.62E-07	4.64E-08	1.16E-07	0.00E+00	1.62E-07	7.55E-09	1.75E-08	0.00E+00	2.50E-08	3.94E-09	6.66E-09	0.00E+00	1.06E-08
977	600024.8	4176777	4.75E-08	1.18E-07	0.00E+00	1.66E-07	4.75E-08	1.18E-07	0.00E+00	1.66E-07	7.73E-09	1.79E-08	0.00E+00	2.56E-08	4.04E-09	6.82E-09	0.00E+00	1.09E-08
978	600015.8	4176779	4.86E-08	1.21E-07	0.00E+00	1.70E-07	4.86E-08	1.21E-07	0.00E+00	1.70E-07	7.90E-09	1.83E-08	0.00E+00	2.62E-08	4.13E-09	6.97E-09	0.00E+00	1.11E-08
979	600006.9	4176782	4.96E-08	1.24E-07	0.00E+00	1.73E-07	4.96E-08	1.24E-07	0.00E+00	1.73E-07	8.07E-09	1.87E-08	0.00E+00	2.68E-08	4.21E-09	7.12E-09	0.00E+00	1.13E-08
980	599980.2	4176790	5.22E-08	1.30E-07	0.00E+00	1.82E-07	5.22E-08	1.30E-07	0.00E+00	1.82E-07	8.50E-09	1.97E-08	0.00E+00	2.82E-08	4.44E-09	7.50E-09	0.00E+00	1.19E-08
981	599971.2	4176792	5.28E-08	1.32E-07	0.00E+00	1.84E-07	5.28E-08	1.32E-07	0.00E+00	1.84E-07	8.59E-09	1.99E-08	0.00E+00	2.85E-08	4.49E-09	7.58E-09	0.00E+00	1.21E-08
982	599962.3	4176795	5.33E-08	1.33E-07	0.00E+00	1.86E-07	5.33E-08	1.33E-07	0.00E+00	1.86E-07	8.66E-09	2.01E-08	0.00E+00	2.87E-08	4.52E-09	7.64E-09	0.00E+00	1.22E-08
983	599953.4	4176797	5.42E-08	1.35E-07	0.00E+00	1.89E-07	5.42E-08	1.35E-07	0.00E+00	1.89E-07	8.81E-09	2.04E-08	0.00E+00	2.92E-08	4.60E-09	7.77E-09	0.00E+00	1.24E-08
984	599944.5	4176800	5.53E-08	1.38E-07	0.00E+00	1.93E-07	5.53E-08	1.38E-07	0.00E+00	1.93E-07	9.00E-09	2.08E-08	0.00E+00	2.98E-08	4.70E-09	7.94E-09	0.00E+00	1.26E-08
985	599935.5	4176803	5.66E-08	1.41E-07	0.00E+00	1.97E-07	5.66E-08	1.41E-07	0.00E+00	1.97E-07	9.20E-09	2.13E-08	0.00E+00	3.05E-08	4.80E-09	8.12E-09	0.00E+00	1.29E-08
986	599926.6	4176805	5.76E-08	1.43E-07	0.00E+00	2.01E-07	5.76E-08	1.43E-07	0.00E+00	2.01E-07	9.37E-09	2.17E-08	0.00E+00	3.11E-08	4.89E-09	8.27E-09	0.00E+00	1.32E-08
987	599917.7	4176808	5.87E-08	1.46E-07	0.00E+00	2.05E-07	5.87E-08	1.46E-07	0.00E+00	2.05E-07	9.55E-09	2.21E-08	0.00E+00	3.16E-08	4.98E-09	8.42E-09	0.00E+00	1.34E-08

988	599908.8	4176810	5.99E-08	1.49E-07	0.00E+00	2.09E-07	5.99E-08	1.49E-07	0.00E+00	2.09E-07	9.75E-09	2.26E-08	0.00E+00	3.23E-08	5.09E-09	8.60E-09	0.00E+00	1.37E-08
989	599899.9	4176813	6.12E-08	1.52E-07	0.00E+00	2.14E-07	6.12E-08	1.52E-07	0.00E+00	2.14E-07	9.96E-09	2.31E-08	0.00E+00	3.30E-08	5.20E-09	8.79E-09	0.00E+00	1.40E-08
990	599890.9	4176816	6.26E-08	1.56E-07	0.00E+00	2.18E-07	6.26E-08	1.56E-07	0.00E+00	2.18E-07	1.02E-08	2.36E-08	0.00E+00	3.37E-08	5.31E-09	8.98E-09	0.00E+00	1.43E-08
991	599882	4176818	6.39E-08	1.59E-07	0.00E+00	2.23E-07	6.39E-08	1.59E-07	0.00E+00	2.23E-07	1.04E-08	2.40E-08	0.00E+00	3.44E-08	5.42E-09	9.17E-09	0.00E+00	1.46E-08
992	599873.1	4176821	6.52E-08	1.62E-07	0.00E+00	2.27E-07	6.52E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.45E-08	0.00E+00	3.51E-08	5.53E-09	9.35E-09	0.00E+00	1.49E-08
993	599864.2	4176824	6.51E-08	1.62E-07	0.00E+00	2.27E-07	6.51E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.45E-08	0.00E+00	3.51E-08	5.52E-09	9.33E-09	0.00E+00	1.49E-08
994	599855.2	4176826	6.51E-08	1.62E-07	0.00E+00	2.27E-07	6.51E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.45E-08	0.00E+00	3.51E-08	5.53E-09	9.35E-09	0.00E+00	1.49E-08
995	599846.3	4176829	6.71E-08	1.67E-07	0.00E+00	2.34E-07	6.71E-08	1.67E-07	0.00E+00	2.34E-07	1.09E-08	2.52E-08	0.00E+00	3.62E-08	5.69E-09	9.62E-09	0.00E+00	1.53E-08
996	599837.4	4176831	7.05E-08	1.76E-07	0.00E+00	2.46E-07	7.05E-08	1.76E-07	0.00E+00	2.46E-07	1.15E-08	2.65E-08	0.00E+00	3.80E-08	5.99E-09	1.01E-08	0.00E+00	1.61E-08
997	600478.4	4176111	6.12E-08	1.52E-07	0.00E+00	2.14E-07	6.12E-08	1.52E-07	0.00E+00	2.14E-07	9.96E-09	2.31E-08	0.00E+00	3.30E-08	5.20E-09	8.79E-09	0.00E+00	1.40E-08
998	600478	4176102	6.27E-08	1.56E-07	0.00E+00	2.19E-07	6.27E-08	1.56E-07	0.00E+00	2.19E-07	1.02E-08	2.36E-08	0.00E+00	3.38E-08	5.32E-09	8.99E-09	0.00E+00	1.43E-08
999	600477.6	4176093	6.41E-08	1.60E-07	0.00E+00	2.24E-07	6.41E-08	1.60E-07	0.00E+00	2.24E-07	1.04E-08	2.41E-08	0.00E+00	3.45E-08	5.44E-09	9.19E-09	0.00E+00	1.46E-08
1000	600477.2	4176083	6.56E-08	1.63E-07	0.00E+00	2.29E-07	6.56E-08	1.63E-07	0.00E+00	2.29E-07	1.07E-08	2.47E-08	0.00E+00	3.54E-08	5.57E-09	9.42E-09	0.00E+00	1.50E-08
1001	600476.8	4176074	6.71E-08	1.67E-07	0.00E+00	2.34E-07	6.71E-08	1.67E-07	0.00E+00	2.34E-07	1.09E-08	2.53E-08	0.00E+00	3.62E-08	5.70E-09	9.63E-09	0.00E+00	1.53E-08
1002	600476.4	4176064	6.8E-08	1.69E-07	0.00E+00	2.37E-07	6.80E-08	1.69E-07	0.00E+00	2.37E-07	1.11E-08	2.56E-08	0.00E+00	3.67E-08	5.77E-09	9.75E-09	0.00E+00	1.55E-08
1003	600038.5	4176791	4.37E-08	1.09E-07	0.00E+00	1.53E-07	4.37E-08	1.09E-07	0.00E+00	1.53E-07	7.11E-09	1.65E-08	0.00E+00	2.36E-08	3.71E-09	6.27E-09	0.00E+00	9.99E-09
1004	600029.6	4176794	4.48E-08	1.11E-07	0.00E+00	1.56E-07	4.48E-08	1.11E-07	0.00E+00	1.56E-07	7.28E-09	1.69E-08	0.00E+00	2.41E-08	3.80E-09	6.42E-09	0.00E+00	1.02E-08
1005	600020.7	4176797	4.56E-08	1.14E-07	0.00E+00	1.59E-07	4.56E-08	1.14E-07	0.00E+00	1.59E-07	7.43E-09	1.72E-08	0.00E+00	2.46E-08	3.88E-09	6.55E-09	0.00E+00	1.04E-08
1006	600011.8	4176799	4.59E-08	1.14E-07	0.00E+00	1.60E-07	4.59E-08	1.14E-07	0.00E+00	1.60E-07	7.46E-09	1.73E-08	0.00E+00	2.47E-08	3.90E-09	6.58E-09	0.00E+00	1.05E-08
1007	600002.9	4176802	4.62E-08	1.15E-07	0.00E+00	1.61E-07	4.62E-08	1.15E-07	0.00E+00	1.61E-07	7.52E-09	1.74E-08	0.00E+00	2.49E-08	3.93E-09	6.63E-09	0.00E+00	1.06E-08
1008	599976.2	4176810	4.76E-08	1.18E-07	0.00E+00	1.66E-07	4.76E-08	1.18E-07	0.00E+00	1.66E-07	7.74E-09	1.79E-08	0.00E+00	2.57E-08	4.04E-09	6.83E-09	0.00E+00	1.09E-08
1009	599967.3	4176812	4.8E-08	1.20E-07	0.00E+00	1.68E-07	4.80E-08	1.20E-07	0.00E+00	1.68E-07	7.81E-09	1.81E-08	0.00E+00	2.59E-08	4.08E-09	6.89E-09	0.00E+00	1.10E-08
1010	599958.4	4176815	4.88E-08	1.21E-07	0.00E+00	1.70E-07	4.88E-08	1.21E-07	0.00E+00	1.70E-07	7.93E-09	1.84E-08	0.00E+00	2.63E-08	4.14E-09	7.00E-09	0.00E+00	1.11E-08
1011	599949.4	4176817	5E-08	1.24E-07	0.00E+00	1.74E-07	5.00E-08	1.24E-07	0.00E+00	1.74E-07	8.13E-09	1.88E-08	0.00E+00	2.69E-08	4.24E-09	7.17E-09	0.00E+00	1.14E-08
1012	599940.5	4176820	5.11E-08	1.27E-07	0.00E+00	1.78E-07	5.11E-08	1.27E-07	0.00E+00	1.78E-07	8.32E-09	1.92E-08	0.00E+00	2.76E-08	4.34E-09	7.34E-09	0.00E+00	1.17E-08
1013	599931.6	4176823	5.23E-08	1.30E-07	0.00E+00	1.83E-07	5.23E-08	1.30E-07	0.00E+00	1.83E-07	8.51E-09	1.97E-08	0.00E+00	2.82E-08	4.44E-09	7.51E-09	0.00E+00	1.20E-08
1014	599922.7	4176825	5.36E-08	1.33E-07	0.00E+00	1.87E-07	5.36E-08	1.33E-07	0.00E+00	1.87E-07	8.72E-09	2.02E-08	0.00E+00	2.89E-08	4.55E-09	7.69E-09	0.00E+00	1.22E-08
1015	599913.8	4176828	5.61E-08	1.40E-07	0.00E+00	1.96E-07	5.61E-08	1.40E-07	0.00E+00	1.96E-07	9.12E-09	2.11E-08	0.00E+00	3.02E-08	4.76E-09	8.05E-09	0.00E+00	1.28E-08
1016	599904.9	4176830	5.94E-08	1.48E-07	0.00E+00	2.07E-07	5.94E-08	1.48E-07	0.00E+00	2.07E-07	9.66E-09	2.23E-08	0.00E+00	3.20E-08	5.04E-09	8.52E-09	0.00E+00	1.36E-08
1017	599896	4176833	6.23E-08	1.55E-07	0.00E+00	2.18E-07	6.23E-08	1.55E-07	0.00E+00	2.18E-07	1.01E-08	2.35E-08	0.00E+00	3.36E-08	5.29E-09	8.94E-09	0.00E+00	1.42E-08
1018	599887.1	4176836	6.54E-08	1.63E-07	0.00E+00	2.28E-07	6.54E-08	1.63E-07	0.00E+00	2.28E-07	1.06E-08	2.46E-08	0.00E+00	3.53E-08	5.55E-09	9.39E-09	0.00E+00	1.49E-08
1019	599878.2	4176838	6.87E-08	1.71E-07	0.00E+00	2.40E-07	6.87E-08	1.71E-07	0.00E+00	2.40E-07	1.12E-08	2.59E-08	0.00E+00	3.70E-08	5.83E-09	9.86E-09	0.00E+00	1.57E-08
1020	599869.3	4176841	7.16E-08	1.78E-07	0.00E+00	2.50E-07	7.16E-08	1.78E-07	0.00E+00	2.50E-07	1.16E-08	2.70E-08	0.00E+00	3.86E-08	6.08E-09	1.03E-08	0.00E+00	1.64E-08
1021	599860.4	4176843	7.4E-08	1.84E-07	0.00E+00	2.58E-07	7.40E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.79E-08	0.00E+00	3.99E-08	6.28E-09	1.06E-08	0.00E+00	1.69E-08
1022	599851.5	4176846	7.67E-08	1.91E-07	0.00E+00	2.68E-07	7.67E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.14E-08	6.52E-09	1.10E-08	0.00E+00	1.75E-08
1023	599842.6	4176849	8E-08	1.99E-07	0.00E+00	2.79E-07	8.00E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.31E-08	6.79E-09	1.15E-08	0.00E+00	1.83E-08
1024	599833.7	4176851	8.47E-08	2.11E-07	0.00E+00	2.96E-07	8.47E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.19E-08	0.00E+00	4.57E-08	7.19E-09	1.22E-08	0.00E+00	1.94E-08
1025	599824.8	4176854	8.97E-08	2.23E-07	0.00E+00	3.13E-07	8.97E-08	2.23E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.61E-09	1.29E-08	0.00E+00	2.05E-08
1026	600498.4	4176111	6.07E-08	1.51E-07	0.00E+00	2.12E-07	6.07E-08	1.51E-07	0.00E+00	2.12E-07	9.88E-09	2.29E-08	0.00E+00	3.27E-08	5.16E-09	8.71E-09	0.00E+00	1.39E-08
1027	600498	4176101	6.2E-08	1.54E-07	0.00E+00	2.17E-07	6.20E-08	1.54E-07	0.00E+00	2.17E-07	1.01E-08	2.34E-08	0.00E+00	3.35E-08	5.27E-09	8.90E-09	0.00E+00	1.42E-08
1028	600497.6	4176092	6.34E-08	1.58E-07	0.00E+00	2.21E-07	6.34E-08	1.58E-07	0.00E+00	2.21E-07	1.03E-08	2.39E-08	0.00E+00	3.42E-08	5.38E-09	9.10E-09	0.00E+00	1.45E-08
1029	600497.2	4176082	6.48E-08	1.61E-07	0.00E+00	2.26E-07	6.48E-08	1.61E-07	0.00E+00	2.26E-07	1.05E-08	2.44E-08	0.00E+00	3.49E-08	5.50E-09	9.29E-09	0.00E+00	1.48E-08
1030	600496.8	4176073	6.61E-08	1.65E-07	0.00E+00	2.31E-07	6.61E-08	1.65E-07	0.00E+00	2.31E-07	1.08E-08	2.49E-08	0.00E+00	3.57E-08	5.62E-09	9.49E-09	0.00E+00	1.51E-08
1031	600496.4	4176064	6.74E-08	1.68E-07	0.00E+00	2.35E-07	6.74E-08	1.68E-07	0.00E+00	2.35E-07	1.10E-08	2.54E-08	0.00E+00	3.64E-08	5.72E-09	9.67E-09	0.00E+00	1.54E-08
1032	600031.5	4176812	4.09E-08	1.02E-07	0.00E+00	1.43E-07	4.09E-08	1.02E-07	0.00E+00	1.43E-07	6.65E-09	1.54E-08	0.00E+00	2.20E-08	3.47E-09	5.87E-09	0.00E+00	9.34E-09
1033	600022.5	4176815	4.14E-08	1.03E-07	0.00E+00	1.44E-07	4.14E-08	1.03E-07	0.00E+00	1.44E-07	6.74E-09	1.56E-08	0.00E+00	2.23E-08	3.52E-09	5.94E-09	0.00E+00	9.46E-09
1034	600013.5	4176817	4.18E-08	1.04E-07	0.00E+00	1.46E-07	4.18E-08	1.04E-07	0.00E+00	1.46E-07	6.80E-09	1.57E-08	0.00E+00	2.25E-08	3.55E-09	6.00E-09	0.00E+00	9.54E-09
1035	600004.5	4176820	4.23E-08	1.05E-07	0.00E+00	1.48E-07	4.23E-08	1.05E-07	0.00E+00	1.48E-07	6.88E-09	1.59E-08	0.00E+00	2.28E-08	3.59E-09	6.07E-09	0.00E+00	9.66E-09
1036	599995.5	4176823	4.29E-08	1.07E-07	0.00E+00	1.50E-07	4.29E-08	1.07E-07	0.00E+00	1.50E-07	6.98E-09	1.62E-08	0.00E+00	2.31E-08	3.64E-09	6.16E-09	0.00E+00	9.80E-09
1037	599977.5	4176828	4.42E-08	1.10E-07	0.00E+00	1.54E-07	4.42E-08	1.10E-07	0.00E+00	1.54E-07	7.20E-09	1.67E-08	0.00E+00	2.39E-08	3.76E-09	6.35E-09	0.00E+00	1.01E-08
1038	599968.5	4176831	4.56E-08	1.14E-07	0.00E+00	1.59E-07	4.56E-08	1.14E-07	0.00E+00	1.59E-07	7.42E-09	1.72E-08	0.00E+00	2.46E-08	3.87E-09	6.54E-09	0.00E+00	1.04E-08
1039	599959.5	4176833	4.74E-08	1.18E-07	0.00E+00	1.65E-07	4.74E-08	1.18E-07	0.00E+00	1.65E-07	7.71E-09	1.78E-08	0.00E+00	2.56E-08	4.02E-09	6.80E-09	0.00E+00	1.08E-08
1040	599950.5	4176836	4.98E-08	1.24E-07	0.00E+00	1.74E-07	4.98E-08	1.24E-07	0.00E+00	1.74E-07	8.11E-09	1.88E-08	0.00E+00	2.69E-08	4.23E-09	7.15E-09	0.00E+00	1.14E-08
1041	599941.5	4176839	5.25E-08	1.31E-07	0.00E+00	1.83E-07	5.25E-08	1.31E-07	0.00E+00	1.83E-07	8.53E-09	1.97E-08	0.00E+00	2.83E-08	4.45E-09	7.53E-09	0.00E+00	1.20E-08
1042	599932.5	4176841	5.54E-08	1.38E-07	0.00E+00	1.93E-07	5.54E-08	1.38E-07	0.00E+00	1.93E-07	9.01E-09	2.08E-08	0.00E+00	2.98E-08	4.70E-09	7.94E-09	0.00E+00	1.26E-08
1043	599923.5	4176844	5.9E-08	1.47E-07	0.00E+00	2.06E-07	5.90E-08	1.47E-07	0.00E+00	2.06E-07	9.60E-09	2.22E-08	0.00E+00	3.18E-08	5.01E-09	8.47E-09	0.00E+00	1.35E-08
1044	599914.5	4176846	6.33E-08	1.58E-07	0.00E+00	2.21E-07	6.33E-08	1.58E-07	0.00E+00	2.21E-07	1.03E-08	2.39E-08	0.00E+00	3.42E-08	5.38E-09	9.09E-09	0.00E+00	1.45E-08
1045	599905.5	4176849	6.85E-08	1.71E-07	0.00E+00	2.39E-07	6.85E-08	1.71E-07	0.00E+00	2.39E-07	1.11E-08	2.58E-08	0.00E+00	3.69E-08	5.82E-09	9.83E-09	0.00E+00	1.56E-08
1046	599896.4	4176852	7.26E-08	1.81E-07	0.00E+00	2.53E-07	7.26E-08	1.81E-07	0.00E+00	2.53E-07	1.18E-08	2.73E-08	0.00E+00	3.91E-08	6.16E-09	1.04E-08	0.00E+00	1.66E-08
1047	599887.4	4176854	7.63E-08	1.90E-07	0.00E+00	2.66E-07	7.63E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.11E-08	6.48E-09	1.09E-08	0.00E+00	1.74E-08
1048	599878.4	4176857	7.96E-08	1.98E-07	0.00E+00	2.78E-07	7.96E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	3.00E-08	0.00E+00	4.29E-08	6.76E-09	1.14E-08	0.00E+00	1.82E-08
1049	599869.4	4176860	8.18E-08	2.04E-07	0.00E+00	2.85E-07	8.18E-08	2.04E-07	0.00E+00	2.85E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.94E-09	1.17E-08	0.00E+00	1.87E-08
1050	599860.4	4176862	8.38E-08	2.09E-07	0.00E+00	2.93E-07	8.38E-08	2.09E-07	0.00E+00	2.93E-07	1.36E-08	3.16E-08	0.00E+00	4.52E-08	7.12E-09	1.20E-08	0.00E+00	1.92E-08
1051	599851.4	4176865	8.63E-08	2.15E-07	0.00E+00	3.01E-07	8.63E-08	2.15E-07	0.00E+00	3.01E-07	1.40E-08	3.25E-08	0.00E+00	4.65E-08	7.33E-09	1.24E-08	0.00E+00	1.97E-08
1052	599842.4	4176868	8.92E-08	2.22E-07	0.00E+00	3.11E-07	8.92E-08	2.22E-07	0.00E+00	3.11E-07	1.45E-08	3.36E-08	0.00E+00	4.81E-08	7.58E-09	1.28E-08	0.00E+00	2.04E-08
1053	599833.4	4176870	9.25E-08	2.30E-07	0.00E+00	3.23E-07	9.25E-08	2.30E-07	0.00E+00	3.23E-07	1.50E-08	3.48E-08	0.00E+00	4.99E-08	7.85E-09	1.33E-08	0.00E+00	2.11E-08
1054	599824.4	4176873	9.56E-08	2.38E-07	0.00E+00	3.34E-07	9.56E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.15E-08	8.12E-09	1.37E-08	0.00E+00	2.18E-08
1055	599815.4	4176875	9.85E-08	2.45E-07	0.00E+00	3.44E-07	9.85E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.37E-09	1.41E-08	0.00E+00	2.25E-08
1056	599806.4	4176878	1.01E-07	2.50E-07	0.00E+00	3.51E-07	1.01E-07	2.50E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.42E-08	8.54E-09	1.44E-08	0.00E+00	2.30E-08
1057	600517.9	4176100	6.33E-08	1.58E-07	0.00E+00	2.21E-07	6.33E-08	1.58E-07	0.00E+00	2.21E-07	1.03E-08	2.38E-08	0.00E+00	3.41E-08	5.37E-09	9.08E-09	0.00E+00	1.45E-08
1058	600517.5	4176091	6.45E-08	1.61E-07	0.00E+00	2.25E-07	6.45E-08	1.61E-07	0.00E+00	2.25E-07	1.05E-08	2.43E-08	0.00E+00	3.48E-08	5.48E-09	9.26E-09	0.00E+00	1.47E-08
1059	600517.1	4176082	6.58E-08	1.64E-07	0.00E+00	2.30E-07	6.58E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.48E-08	0.00E+00	3.55E-08	5.59E-09	9.44E-09	0.00E+00	1.50E-08
1060	600516.7	4176072	6.71E-08	1.67E-07	0.00E+00	2.34E-07	6.71E-08	1.67E-07	0.00E+00	2.34E-07	1.09E-08	2.53E-08	0.00E+00	3.62E-08	5.70E-09	9.63E-09	0.00E+00	1.53E-08
1061	600516.3	4176063	6.84E-08	1.70E-07	0.00E+00	2.39E-07	6.84E-08	1.70E-07	0.00E+00	2.39E-07	1.11E-08	2.57E-08	0.00E+00	3.69E-08	5.80E-09	9.81E-09	0.00E+00	1.56E-08
1062	600027.3	4176832	3.9E-08	9.70E-08	0.00E+00	1.36E-07	3.90E-08	9.70E-08	0.00E+00	1.36E-07	6.34E-09	1.47E-08	0.00E+00	2.10E-08	3.31E-09	5.59E-09	0.00E+00	8.90E-09
1063	600018.4	4176835	4E-08	9.95E-08	0.00E+00	1.40E-07	4.00E-08	9.95E-08	0.00E+00	1.40E-07	6.50E-09	1.51E-08	0.00E+00	2.16E-08	3.39E-09	5.74E-09	0.00E+00	9.13E-09
1064	600009.4	4176838	4.12E-08	1.02E-07	0.00E+00	1.44E-07	4.12E-08	1.02E-07	0.00E+00	1.44E-07	6.69E-09	1.55E-08	0.00E+00	2.22E-08	3.49E-09	5.91E-09	0.00E+00	9.40E-09
1065	600000.4	4176840	4.25E-08	1.06E-07	0.00E+00	1.48E-07	4.25E-08	1.06E-07	0.00E+00	1.48E-07	6.92E-09	1.60E-08	0.00E+00	2.29E-08	3.61E-09	6.10E-09	0.00E+00	9.71E-09
1066	599982.4	4176845	4.58E-08	1.14E-07	0.00E+00	1.60E-07	4.58E-08	1.14E-07	0.00E+00	1.60E-07	7.45E-09	1.72E-08	0.00E+00	2.47E-08	3.89E-09	6.57E-09	0.00E+00	1.05E-08
1067	599973.4	4176848	4.79E-08	1.19E-07	0.00E+00	1.67E-07	4.79E-08	1.19E-07	0.00E+00	1.67E-07	7.79E-09	1.80E-08	0.00E+00	2.58E-08	4.06E-09	6.87E-09	0.00E+00	1.09E-08
1068	599964.5	4176851	5.02E-08	1.25E-07	0.00E+00	1.75E-07	5.02E-08	1.25E-07	0.00E+00	1.75E-07	8.17E-09	1.89E-08	0.00E+00	2.71E-08	4.26E-09	7.20E-09	0.00E+00	1.15E-08
1069	599955.5	4176853	5.3E-08	1.32E-07	0.00E+00	1.85E-07	5.30E-08	1.32E-07	0.00E+00	1.85E-07	8.63E-09	2.00E-08	0.00E+00	2.86E-08	4.50E-09	7.61E-09	0.00E+00	1.21E-08
1070	599946.5	4176856	5.63E-08	1.40E-07	0.00E+00	1.96E-07	5.63E-08	1.40E-07	0.00E+00	1.96E-07	9.15E-09	2.12E-08	0.00E+00	3.03E-08	4.78E-09	8.07E-09	0.00E+00	1.29E-08
1071	599937.5	4176859	5.95E-08	1.48E-07	0.00E+00	2.08E-07	5.95E-08	1.48E-07	0.00E+00	2.08E-07	9.68E-09	2.24E-08	0.00E+00	3.21E-08	5.05E-09	8.54E-09	0.00E+00	1.36E-08
1072	599928.5	4176861	6.35E-08	1.58E-07	0.00E+00	2.22E-07	6.35E-08	1.58E-07	0.00E+00	2.22E-07	1.03E-08	2.39E-08	0.00E+00	3.42E-08	5.39E-09	9.11E-09	0.00E+00	1.45E-08
1073	599919.5	4176864	6.81E-08	1.70E-07	0.00E+00	2.38E-07	6.81E-08	1.70E-07	0.00E+00	2.38E-07	1.11E-08	2.56E-08	0.00E+00	3.67E-08	5.78E-09	9.77E-09	0.00E+00	1.56E-08
1074	599910.5	4176866	7.31E-08	1.82E-07	0.00E+00	2.55E-07	7.31E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.94E-08	6.21E-09	1.05E-08	0.00E+00	1.67E-08
1075	599901.6	4176869	7.78E-08	1.94E-07	0.00E+00	2.71E-07	7.78E-08	1.94E-07	0.00E+00	2.71E-07	1.26E-08	2.93E-08	0.00E+00	4.19E-08	6.60E-09	1.12E-08	0.00E+00	1.78E-08
1076	599892.6	4176872	8E-08	1.99E-07	0.00E+00	2.79E-07	8.00E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.31E-08	6.79E-09	1.15E-08	0.00E+00	1.83E-08
1077	599883.6	4176874	8.21E-08	2.05E-07	0.00E+00	2.87E-07	8.21E-08	2.05E-07	0.00E+00	2.87E-07	1.34E-08	3.09E-08	0.00E+00	4.43E-08	6.97E-09	1.18E-08	0.00E+00	1.88E-08
1078	599874.6	4176877	8.42E-08	2.10E-07	0.00E+00	2.94E-07	8.42E-08	2.10E-07	0.00E+00	2.94E-07	1.37E-08	3.17E-08	0.00E+00	4.54E-08	7.15E-09	1.21E-08	0.00E+00	1.92E-08
1079	599865.6	4176880	8.68E-08	2.16E-07	0.00E+00	3.03E-07	8.68E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.68E-08	7.37E-09	1.25E-08	0.00E+00	1.98E-08
1080	599856.6	4176882	8.99E-08	2.24E-07	0.00E+00	3.14E-07	8.99E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.38E-08	0.00E+00	4.85E-08	7.63E-09	1.29E-08	0.00E+00	2.05E-08
1081	599847.6	4176885	9.32E-08	2.32E-07	0.00E+00	3.25E-07	9.32E-08	2.32E-07	0.00E+00	3.25E-07	1.52E-08	3.51E-08	0.00E+00	5.03E-08	7.91E-09	1.34E-08	0.00E+00	2.13E-08
1082	599838.7	4176887	9.46E-08	2.36E-07	0.00E+00	3.30E-07	9.46E-08	2.36E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.10E-08	8.03E-09	1.36E-08	0.00E+00	2.16E-08
1083	599829.7	4176890	9.49E-08	2.36E-07	0.00E+00	3.31E-07	9.49E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.12E-08	8.06E-09	1.36E-08	0.00E+00	2.17E-08
1084	599820.7	4176893	9.59E-08	2.39E-07	0.00E+00	3.35E-07	9.59E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.61E-08	0.00E+00	5.17E-08	8.14E-09	1.38E-08	0.00E+00	2.19E-08
1085	599811.7	4176895	9.71E-08	2.42E-07	0.00E+00	3.39E-07	9.71E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.66E-08	0.00E+00	5.23E-08	8.24E-09	1.39E-08	0.00E+00	2.22E-08
1086	599802.7	4176898	9.76E-08	2.43E-07	0.00E+00	3.41E-07	9.76E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.29E-09	1.40E-08	0.00E+00	2.23E-08
1087	599793.7	4176901	9.85E-08	2.45E-07	0.00E+00	3.44E-07	9.85E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.36E-09	1.41E-08	0.00E+00	2.25E-08
1088	600537.5	4176090	6.74E-08	1.68E-07	0.00E+00	2.35E-07	6.74E-08	1.68E-07	0.00E+00	2.35E-07	1.10E-08	2.54E-08	0.00E+00	3.63E-08	5.72E-09	9.67E-09	0.00E+00	1.54E-08
1089	600537.1	4176081	6.86E-08	1.71E-07	0.00E+00	2.39E-07	6.86E-08	1.71E-07	0.00E+00	2.39E-07	1.12E-08	2.58E-08	0.00E+00	3.70E-08	5.82E-09	9.84E-09	0.00E+00	1.57E-08
1090	600536.7	4176071	6.97E-08	1.74E-07	0.00E+00	2.43E-07	6.97E-08	1.74E-07	0.00E+00	2.43E-07	1.13E-08	2.62E-08	0.00E+00	3.76E-08	5.92E-09	1.00E-08	0.00E+00	1.59E-08
1091	600536.3	4176062	7.07E-08	1.76E-07	0.00E+00	2.47E-07	7.07E-08	1.76E-07	0.00E+00	2.47E-07	1.15E-08	2.66E-08	0.00E+00	3.81E-08	6.00E-09	1.01E-08	0.00E+00	1.61E-08
1092	600032.2	4176850	3.9E-08	9.71E-08	0.00E+00	1.36E-07	3.90E-08	9.71E-08	0.00E+00	1.36E-07	6.35E-09	1.47E-08	0.00E+00	2.10E-08	3.31E-09	5.60E-09	0.00E+00	8.91E-09
1093	600023.2	4176852	4.02E-08	1.00E-07	0.00E+00	1.40E-07	4.02E-08	1.00E-07	0.00E+00	1.40E-07	6.54E-09	1.51E-08	0.00E+00	2.17E-08	3.41E-09	5.77E-09	0.00E+00	9.18E-09
1094	600014.3	4176855	4.16E-08	1.03E-07	0.00E+00	1.45E-07	4.16E-08	1.03E-07	0.00E+00	1.45E-07	6.76E-09	1.56E-08	0.00E+00	2.24E-08	3.53E-09	5.96E-09	0.00E+00	9.49E-09
1095	599987.4	4176863	4.73E-08	1.18E-07	0.00E+00	1.65E-07	4.73E-08	1.18E-07	0.00E+00	1.65E-07	7.70E-09	1.78E-08	0.00E+00	2.55E-08	4.02E-09	6.79E-09	0.00E+00	1.08E-08
1096	599978.4	4176865	4.97E-08	1.24E-07	0.00E+00	1.74E-07	4.97E-08	1.24E-07	0.00E+00	1.74E-07	8.09E-09	1.87E-08	0.00E+00	2.68E-08	4.22E-09	7.14E-09	0.00E+00	1.14E-08
1097	599969.4	4176868	5.24E-08	1.30E-07	0.00E+00	1.83E-07	5.24E-08	1.30E-07	0.00E+00	1.83E-07	8.52E-09	1.97E-08	0.00E+00	2.83E-08	4.45E-09	7.52E-09	0.00E+00	1.20E-08

1098	599960.5	4176871	5.54E-08	1.38E-07	0.00E+00	1.93E-07	5.54E-08	1.38E-07	0.00E+00	1.93E-07	9.01E-09	2.09E-08	0.00E+00	2.99E-08	4.70E-09	7.95E-09	0.00E+00	1.27E-08
1099	599951.5	4176873	5.87E-08	1.46E-07	0.00E+00	2.05E-07	5.87E-08	1.46E-07	0.00E+00	2.05E-07	9.56E-09	2.21E-08	0.00E+00	3.17E-08	4.99E-09	8.43E-09	0.00E+00	1.34E-08
1100	599942.5	4176876	6.25E-08	1.56E-07	0.00E+00	2.18E-07	6.25E-08	1.56E-07	0.00E+00	2.18E-07	1.02E-08	2.35E-08	0.00E+00	3.37E-08	5.30E-09	8.96E-09	0.00E+00	1.43E-08
1101	599933.6	4176879	6.65E-08	1.66E-07	0.00E+00	2.32E-07	6.65E-08	1.66E-07	0.00E+00	2.32E-07	1.08E-08	2.51E-08	0.00E+00	3.59E-08	5.65E-09	9.55E-09	0.00E+00	1.52E-08
1102	599924.6	4176881	7.12E-08	1.77E-07	0.00E+00	2.48E-07	7.12E-08	1.77E-07	0.00E+00	2.48E-07	1.16E-08	2.68E-08	0.00E+00	3.84E-08	6.04E-09	1.02E-08	0.00E+00	1.63E-08
1103	599915.6	4176884	7.6E-08	1.89E-07	0.00E+00	2.65E-07	7.60E-08	1.89E-07	0.00E+00	2.65E-07	1.24E-08	2.86E-08	0.00E+00	4.10E-08	6.45E-09	1.09E-08	0.00E+00	1.74E-08
1104	599906.7	4176886	8.03E-08	2.00E-07	0.00E+00	2.80E-07	8.03E-08	2.00E-07	0.00E+00	2.80E-07	1.31E-08	3.02E-08	0.00E+00	4.33E-08	6.82E-09	1.15E-08	0.00E+00	1.83E-08
1105	599897.7	4176889	7.97E-08	1.98E-07	0.00E+00	2.78E-07	7.97E-08	1.98E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.30E-08	6.77E-09	1.14E-08	0.00E+00	1.82E-08
1106	599888.7	4176892	7.81E-08	1.95E-07	0.00E+00	2.73E-07	7.81E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.63E-09	1.12E-08	0.00E+00	1.78E-08
1107	599879.8	4176894	7.67E-08	1.91E-07	0.00E+00	2.68E-07	7.67E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.13E-08	6.51E-09	1.10E-08	0.00E+00	1.75E-08
1108	599870.8	4176897	7.59E-08	1.89E-07	0.00E+00	2.65E-07	7.59E-08	1.89E-07	0.00E+00	2.65E-07	1.23E-08	2.86E-08	0.00E+00	4.09E-08	6.44E-09	1.09E-08	0.00E+00	1.73E-08
1109	599861.8	4176900	7.67E-08	1.91E-07	0.00E+00	2.68E-07	7.67E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.14E-08	6.52E-09	1.10E-08	0.00E+00	1.75E-08
1110	599852.9	4176902	7.81E-08	1.94E-07	0.00E+00	2.73E-07	7.81E-08	1.94E-07	0.00E+00	2.73E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.63E-09	1.12E-08	0.00E+00	1.78E-08
1111	599843.9	4176905	8E-08	1.99E-07	0.00E+00	2.79E-07	8.00E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.32E-08	6.80E-09	1.15E-08	0.00E+00	1.83E-08
1112	599834.9	4176907	8.21E-08	2.05E-07	0.00E+00	2.87E-07	8.21E-08	2.05E-07	0.00E+00	2.87E-07	1.34E-08	3.09E-08	0.00E+00	4.43E-08	6.97E-09	1.18E-08	0.00E+00	1.88E-08
1113	599826	4176910	8.49E-08	2.11E-07	0.00E+00	2.96E-07	8.49E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.20E-08	0.00E+00	4.58E-08	7.21E-09	1.22E-08	0.00E+00	1.94E-08
1114	599817	4176913	8.82E-08	2.20E-07	0.00E+00	3.08E-07	8.82E-08	2.20E-07	0.00E+00	3.08E-07	1.43E-08	3.32E-08	0.00E+00	4.75E-08	7.49E-09	1.27E-08	0.00E+00	2.01E-08
1115	599808	4176915	9.06E-08	2.26E-07	0.00E+00	3.16E-07	9.06E-08	2.26E-07	0.00E+00	3.16E-07	1.47E-08	3.41E-08	0.00E+00	4.89E-08	7.69E-09	1.30E-08	0.00E+00	2.07E-08
1116	599799.1	4176918	9.29E-08	2.31E-07	0.00E+00	3.24E-07	9.29E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.50E-08	0.00E+00	5.01E-08	7.89E-09	1.33E-08	0.00E+00	2.12E-08
1117	599790.1	4176920	9.49E-08	2.36E-07	0.00E+00	3.31E-07	9.49E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.12E-08	8.06E-09	1.36E-08	0.00E+00	2.17E-08
1118	600046	4176864	3.75E-08	9.33E-08	0.00E+00	1.31E-07	3.75E-08	9.33E-08	0.00E+00	1.31E-07	6.10E-09	1.41E-08	0.00E+00	2.02E-08	3.18E-09	5.38E-09	0.00E+00	8.56E-09
1119	600037	4176867	3.85E-08	9.59E-08	0.00E+00	1.34E-07	3.85E-08	9.59E-08	0.00E+00	1.34E-07	6.26E-09	1.45E-08	0.00E+00	2.08E-08	3.27E-09	5.53E-09	0.00E+00	8.80E-09
1120	600028.1	4176870	3.98E-08	9.91E-08	0.00E+00	1.39E-07	3.98E-08	9.91E-08	0.00E+00	1.39E-07	6.47E-09	1.50E-08	0.00E+00	2.15E-08	3.38E-09	5.71E-09	0.00E+00	9.09E-09
1121	599992.3	4176880	4.88E-08	1.22E-07	0.00E+00	1.70E-07	4.88E-08	1.22E-07	0.00E+00	1.70E-07	7.94E-09	1.84E-08	0.00E+00	2.63E-08	4.14E-09	7.00E-09	0.00E+00	1.11E-08
1122	599983.4	4176883	5.15E-08	1.28E-07	0.00E+00	1.80E-07	5.15E-08	1.28E-07	0.00E+00	1.80E-07	8.38E-09	1.94E-08	0.00E+00	2.78E-08	4.37E-09	7.39E-09	0.00E+00	1.18E-08
1123	599974.4	4176885	5.46E-08	1.36E-07	0.00E+00	1.90E-07	5.46E-08	1.36E-07	0.00E+00	1.90E-07	8.88E-09	2.05E-08	0.00E+00	2.94E-08	4.63E-09	7.83E-09	0.00E+00	1.25E-08
1124	599965.5	4176888	5.69E-08	1.42E-07	0.00E+00	1.99E-07	5.69E-08	1.42E-07	0.00E+00	1.99E-07	9.26E-09	2.14E-08	0.00E+00	3.07E-08	4.83E-09	8.17E-09	0.00E+00	1.30E-08
1125	599956.5	4176891	5.89E-08	1.47E-07	0.00E+00	2.06E-07	5.89E-08	1.47E-07	0.00E+00	2.06E-07	9.58E-09	2.22E-08	0.00E+00	3.18E-08	5.00E-09	8.45E-09	0.00E+00	1.35E-08
1126	599947.6	4176893	6.05E-08	1.51E-07	0.00E+00	2.11E-07	6.05E-08	1.51E-07	0.00E+00	2.11E-07	9.84E-09	2.28E-08	0.00E+00	3.26E-08	5.14E-09	8.68E-09	0.00E+00	1.38E-08
1127	599938.6	4176896	6.17E-08	1.54E-07	0.00E+00	2.15E-07	6.17E-08	1.54E-07	0.00E+00	2.15E-07	1.00E-08	2.32E-08	0.00E+00	3.33E-08	5.24E-09	8.85E-09	0.00E+00	1.41E-08
1128	599929.7	4176898	6.26E-08	1.56E-07	0.00E+00	2.18E-07	6.26E-08	1.56E-07	0.00E+00	2.18E-07	1.02E-08	2.36E-08	0.00E+00	3.37E-08	5.31E-09	8.98E-09	0.00E+00	1.43E-08
1129	599920.7	4176901	6.32E-08	1.57E-07	0.00E+00	2.21E-07	6.32E-08	1.57E-07	0.00E+00	2.21E-07	1.03E-08	2.38E-08	0.00E+00	3.41E-08	5.37E-09	9.08E-09	0.00E+00	1.44E-08
1130	599911.8	4176904	6.36E-08	1.58E-07	0.00E+00	2.22E-07	6.36E-08	1.58E-07	0.00E+00	2.22E-07	1.04E-08	2.40E-08	0.00E+00	3.43E-08	5.40E-09	9.13E-09	0.00E+00	1.45E-08
1131	599902.8	4176906	6.36E-08	1.58E-07	0.00E+00	2.22E-07	6.36E-08	1.58E-07	0.00E+00	2.22E-07	1.04E-08	2.40E-08	0.00E+00	3.43E-08	5.40E-09	9.13E-09	0.00E+00	1.45E-08
1132	599893.9	4176909	6.24E-08	1.55E-07	0.00E+00	2.18E-07	6.24E-08	1.55E-07	0.00E+00	2.18E-07	1.01E-08	2.35E-08	0.00E+00	3.36E-08	5.30E-09	8.95E-09	0.00E+00	1.42E-08
1133	599884.9	4176912	6.11E-08	1.52E-07	0.00E+00	2.13E-07	6.11E-08	1.52E-07	0.00E+00	2.13E-07	9.95E-09	2.30E-08	0.00E+00	3.30E-08	5.19E-09	8.77E-09	0.00E+00	1.40E-08
1134	599876	4176914	6E-08	1.50E-07	0.00E+00	2.10E-07	6.00E-08	1.50E-07	0.00E+00	2.10E-07	9.77E-09	2.26E-08	0.00E+00	3.24E-08	5.10E-09	8.62E-09	0.00E+00	1.37E-08
1135	599867	4176917	6.13E-08	1.53E-07	0.00E+00	2.14E-07	6.13E-08	1.53E-07	0.00E+00	2.14E-07	9.98E-09	2.31E-08	0.00E+00	3.31E-08	5.21E-09	8.80E-09	0.00E+00	1.40E-08
1136	599858.1	4176919	6.48E-08	1.61E-07	0.00E+00	2.26E-07	6.48E-08	1.61E-07	0.00E+00	2.26E-07	1.05E-08	2.44E-08	0.00E+00	3.49E-08	5.50E-09	9.30E-09	0.00E+00	1.48E-08
1137	599849.1	4176922	6.9E-08	1.72E-07	0.00E+00	2.41E-07	6.90E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.72E-08	5.86E-09	9.91E-09	0.00E+00	1.58E-08
1138	599840.2	4176925	7.38E-08	1.84E-07	0.00E+00	2.58E-07	7.38E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.78E-08	0.00E+00	3.98E-08	6.27E-09	1.06E-08	0.00E+00	1.69E-08
1139	599831.3	4176927	7.86E-08	1.96E-07	0.00E+00	2.74E-07	7.86E-08	1.96E-07	0.00E+00	2.74E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.67E-09	1.13E-08	0.00E+00	1.80E-08
1140	599822.3	4176930	8.34E-08	2.08E-07	0.00E+00	2.91E-07	8.34E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.50E-08	7.08E-09	1.20E-08	0.00E+00	1.91E-08
1141	599813.4	4176933	8.79E-08	2.19E-07	0.00E+00	3.07E-07	8.79E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.31E-08	0.00E+00	4.74E-08	7.47E-09	1.26E-08	0.00E+00	2.01E-08
1142	599804.4	4176935	8.98E-08	2.24E-07	0.00E+00	3.13E-07	8.98E-08	2.24E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.62E-09	1.29E-08	0.00E+00	2.05E-08
1143	599795.5	4176938	9.13E-08	2.27E-07	0.00E+00	3.19E-07	9.13E-08	2.27E-07	0.00E+00	3.19E-07	1.49E-08	3.44E-08	0.00E+00	4.92E-08	7.75E-09	1.31E-08	0.00E+00	2.09E-08
1144	599786.5	4176940	9.25E-08	2.30E-07	0.00E+00	3.23E-07	9.25E-08	2.30E-07	0.00E+00	3.23E-07	1.50E-08	3.48E-08	0.00E+00	4.99E-08	7.85E-09	1.33E-08	0.00E+00	2.11E-08
1145	600059.8	4176879	3.53E-08	8.79E-08	0.00E+00	1.23E-07	3.53E-08	8.79E-08	0.00E+00	1.23E-07	5.74E-09	1.33E-08	0.00E+00	1.90E-08	3.00E-09	5.07E-09	0.00E+00	8.07E-09
1146	600050.8	4176882	3.63E-08	9.03E-08	0.00E+00	1.27E-07	3.63E-08	9.03E-08	0.00E+00	1.27E-07	5.90E-09	1.37E-08	0.00E+00	1.96E-08	3.08E-09	5.20E-09	0.00E+00	8.28E-09
1147	600041.9	4176885	3.75E-08	9.33E-08	0.00E+00	1.31E-07	3.75E-08	9.33E-08	0.00E+00	1.31E-07	6.10E-09	1.41E-08	0.00E+00	2.02E-08	3.18E-09	5.38E-09	0.00E+00	8.56E-09
1148	600033	4176887	3.89E-08	9.68E-08	0.00E+00	1.36E-07	3.89E-08	9.68E-08	0.00E+00	1.36E-07	6.33E-09	1.46E-08	0.00E+00	2.10E-08	3.30E-09	5.58E-09	0.00E+00	8.88E-09
1149	600006.2	4176895	4.42E-08	1.10E-07	0.00E+00	1.54E-07	4.42E-08	1.10E-07	0.00E+00	1.54E-07	7.19E-09	1.66E-08	0.00E+00	2.38E-08	3.75E-09	6.34E-09	0.00E+00	1.01E-08
1150	599997.2	4176898	4.64E-08	1.15E-07	0.00E+00	1.62E-07	4.64E-08	1.15E-07	0.00E+00	1.62E-07	7.54E-09	1.75E-08	0.00E+00	2.50E-08	3.94E-09	6.65E-09	0.00E+00	1.06E-08
1151	599988.3	4176900	4.83E-08	1.20E-07	0.00E+00	1.68E-07	4.83E-08	1.20E-07	0.00E+00	1.68E-07	7.85E-09	1.82E-08	0.00E+00	2.60E-08	4.10E-09	6.92E-09	0.00E+00	1.10E-08
1152	599979.4	4176903	4.99E-08	1.24E-07	0.00E+00	1.74E-07	4.99E-08	1.24E-07	0.00E+00	1.74E-07	8.12E-09	1.88E-08	0.00E+00	2.69E-08	4.24E-09	7.16E-09	0.00E+00	1.14E-08
1153	599970.5	4176905	5.17E-08	1.29E-07	0.00E+00	1.80E-07	5.17E-08	1.29E-07	0.00E+00	1.80E-07	8.40E-09	1.94E-08	0.00E+00	2.79E-08	4.39E-09	7.41E-09	0.00E+00	1.18E-08
1154	599961.5	4176908	5.31E-08	1.32E-07	0.00E+00	1.85E-07	5.31E-08	1.32E-07	0.00E+00	1.85E-07	8.65E-09	2.00E-08	0.00E+00	2.87E-08	4.51E-09	7.63E-09	0.00E+00	1.21E-08
1155	599952.6	4176911	5.35E-08	1.33E-07	0.00E+00	1.87E-07	5.35E-08	1.33E-07	0.00E+00	1.87E-07	8.70E-09	2.01E-08	0.00E+00	2.88E-08	4.54E-09	7.67E-09	0.00E+00	1.22E-08
1156	599943.7	4176913	5.34E-08	1.33E-07	0.00E+00	1.86E-07	5.34E-08	1.33E-07	0.00E+00	1.86E-07	8.69E-09	2.01E-08	0.00E+00	2.88E-08	4.53E-09	7.66E-09	0.00E+00	1.22E-08
1157	599934.7	4176916	5.29E-08	1.32E-07	0.00E+00	1.85E-07	5.29E-08	1.32E-07	0.00E+00	1.85E-07	8.61E-09	1.99E-08	0.00E+00	2.85E-08	4.49E-09	7.60E-09	0.00E+00	1.21E-08
1158	599925.8	4176918	5.28E-08	1.32E-07	0.00E+00	1.84E-07	5.28E-08	1.32E-07	0.00E+00	1.84E-07	8.60E-09	1.99E-08	0.00E+00	2.85E-08	4.49E-09	7.58E-09	0.00E+00	1.21E-08
1159	599916.9	4176921	5.3E-08	1.32E-07	0.00E+00	1.85E-07	5.30E-08	1.32E-07	0.00E+00	1.85E-07	8.62E-09	1.99E-08	0.00E+00	2.86E-08	4.50E-09	7.60E-09	0.00E+00	1.21E-08
1160	599908	4176924	5.34E-08	1.33E-07	0.00E+00	1.86E-07	5.34E-08	1.33E-07	0.00E+00	1.86E-07	8.68E-09	2.01E-08	0.00E+00	2.88E-08	4.53E-09	7.66E-09	0.00E+00	1.22E-08
1161	599899	4176926	5.37E-08	1.34E-07	0.00E+00	1.87E-07	5.37E-08	1.34E-07	0.00E+00	1.87E-07	8.73E-09	2.02E-08	0.00E+00	2.89E-08	4.56E-09	7.70E-09	0.00E+00	1.23E-08
1162	599890.1	4176929	5.4E-08	1.34E-07	0.00E+00	1.89E-07	5.40E-08	1.34E-07	0.00E+00	1.89E-07	8.79E-09	2.03E-08	0.00E+00	2.91E-08	4.59E-09	7.75E-09	0.00E+00	1.23E-08
1163	599881.2	4176932	5.47E-08	1.36E-07	0.00E+00	1.91E-07	5.47E-08	1.36E-07	0.00E+00	1.91E-07	8.90E-09	2.06E-08	0.00E+00	2.95E-08	4.64E-09	7.85E-09	0.00E+00	1.25E-08
1164	599872.2	4176934	5.61E-08	1.40E-07	0.00E+00	1.96E-07	5.61E-08	1.40E-07	0.00E+00	1.96E-07	9.13E-09	2.11E-08	0.00E+00	3.02E-08	4.76E-09	8.05E-09	0.00E+00	1.28E-08
1165	599863.3	4176937	6E-08	1.49E-07	0.00E+00	2.09E-07	6.00E-08	1.49E-07	0.00E+00	2.09E-07	9.76E-09	2.26E-08	0.00E+00	3.23E-08	5.09E-09	8.61E-09	0.00E+00	1.37E-08
1166	599854.4	4176939	6.48E-08	1.61E-07	0.00E+00	2.26E-07	6.48E-08	1.61E-07	0.00E+00	2.26E-07	1.05E-08	2.44E-08	0.00E+00	3.50E-08	5.50E-09	9.30E-09	0.00E+00	1.48E-08
1167	599845.4	4176942	7.06E-08	1.76E-07	0.00E+00	2.46E-07	7.06E-08	1.76E-07	0.00E+00	2.46E-07	1.15E-08	2.66E-08	0.00E+00	3.80E-08	5.99E-09	1.01E-08	0.00E+00	1.61E-08
1168	599836.5	4176945	7.55E-08	1.88E-07	0.00E+00	2.64E-07	7.55E-08	1.88E-07	0.00E+00	2.64E-07	1.23E-08	2.84E-08	0.00E+00	4.07E-08	6.41E-09	1.08E-08	0.00E+00	1.72E-08
1169	599827.6	4176947	8.03E-08	2.00E-07	0.00E+00	2.80E-07	8.03E-08	2.00E-07	0.00E+00	2.80E-07	1.31E-08	3.02E-08	0.00E+00	4.33E-08	6.81E-09	1.15E-08	0.00E+00	1.83E-08
1170	599818.7	4176950	8.47E-08	2.11E-07	0.00E+00	2.96E-07	8.47E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.19E-08	0.00E+00	4.57E-08	7.19E-09	1.22E-08	0.00E+00	1.94E-08
1171	599809.7	4176952	8.76E-08	2.18E-07	0.00E+00	3.06E-07	8.76E-08	2.18E-07	0.00E+00	3.06E-07	1.42E-08	3.30E-08	0.00E+00	4.72E-08	7.44E-09	1.26E-08	0.00E+00	2.00E-08
1172	599800.8	4176955	8.88E-08	2.21E-07	0.00E+00	3.10E-07	8.88E-08	2.21E-07	0.00E+00	3.10E-07	1.45E-08	3.34E-08	0.00E+00	4.79E-08	7.54E-09	1.27E-08	0.00E+00	2.03E-08
1173	599791.9	4176958	8.99E-08	2.24E-07	0.00E+00	3.14E-07	8.99E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.39E-08	0.00E+00	4.85E-08	7.64E-09	1.29E-08	0.00E+00	2.05E-08
1174	599782.9	4176960	9.09E-08	2.26E-07	0.00E+00	3.17E-07	9.09E-08	2.26E-07	0.00E+00	3.17E-07	1.48E-08	3.42E-08	0.00E+00	4.90E-08	7.72E-09	1.30E-08	0.00E+00	2.08E-08
1175	599649	4176999	7.43E-08	1.85E-07	0.00E+00	2.59E-07	7.43E-08	1.85E-07	0.00E+00	2.59E-07	1.21E-08	2.80E-08	0.00E+00	4.01E-08	6.31E-09	1.07E-08	0.00E+00	1.70E-08
1176	599640.1	4177002	7.41E-08	1.85E-07	0.00E+00	2.59E-07	7.41E-08	1.85E-07	0.00E+00	2.59E-07	1.21E-08	2.79E-08	0.00E+00	4.00E-08	6.30E-09	1.06E-08	0.00E+00	1.69E-08
1177	599631.1	4177005	7.41E-08	1.85E-07	0.00E+00	2.59E-07	7.41E-08	1.85E-07	0.00E+00	2.59E-07	1.21E-08	2.79E-08	0.00E+00	4.00E-08	6.29E-09	1.06E-08	0.00E+00	1.69E-08
1178	599622.2	4177007	7.37E-08	1.83E-07	0.00E+00	2.57E-07	7.37E-08	1.83E-07	0.00E+00	2.57E-07	1.20E-08	2.77E-08	0.00E+00	3.97E-08	6.26E-09	1.06E-08	0.00E+00	1.68E-08
1179	600073.5	4176894	3.31E-08	8.24E-08	0.00E+00	1.16E-07	3.31E-08	8.24E-08	0.00E+00	1.16E-07	5.38E-09	1.25E-08	0.00E+00	1.78E-08	2.81E-09	4.75E-09	0.00E+00	7.56E-09
1180	600064.6	4176897	3.38E-08	8.42E-08	0.00E+00	1.18E-07	3.38E-08	8.42E-08	0.00E+00	1.18E-07	5.50E-09	1.27E-08	0.00E+00	1.82E-08	2.87E-09	4.85E-09	0.00E+00	7.73E-09
1181	600055.7	4176899	3.45E-08	8.59E-08	0.00E+00	1.20E-07	3.45E-08	8.59E-08	0.00E+00	1.20E-07	5.61E-09	1.30E-08	0.00E+00	1.86E-08	2.93E-09	4.95E-09	0.00E+00	7.88E-09
1182	600046.8	4176902	3.54E-08	8.81E-08	0.00E+00	1.23E-07	3.54E-08	8.81E-08	0.00E+00	1.23E-07	5.76E-09	1.33E-08	0.00E+00	1.91E-08	3.00E-09	5.08E-09	0.00E+00	8.08E-09
1183	600028.9	4176907	3.75E-08	9.34E-08	0.00E+00	1.31E-07	3.75E-08	9.34E-08	0.00E+00	1.31E-07	6.10E-09	1.41E-08	0.00E+00	2.02E-08	3.19E-09	5.38E-09	0.00E+00	8.57E-09
1184	600020	4176910	3.88E-08	9.67E-08	0.00E+00	1.35E-07	3.88E-08	9.67E-08	0.00E+00	1.35E-07	6.32E-09	1.46E-08	0.00E+00	2.09E-08	3.30E-09	5.57E-09	0.00E+00	8.87E-09
1185	600011.1	4176912	4.05E-08	1.01E-07	0.00E+00	1.41E-07	4.05E-08	1.01E-07	0.00E+00	1.41E-07	6.59E-09	1.52E-08	0.00E+00	2.18E-08	3.44E-09	5.81E-09	0.00E+00	9.25E-09
1186	600002.2	4176915	4.24E-08	1.06E-07	0.00E+00	1.48E-07	4.24E-08	1.06E-07	0.00E+00	1.48E-07	6.90E-09	1.60E-08	0.00E+00	2.29E-08	3.60E-09	6.09E-09	0.00E+00	9.69E-09
1187	599993.3	4176918	4.42E-08	1.10E-07	0.00E+00	1.54E-07	4.42E-08	1.10E-07	0.00E+00	1.54E-07	7.20E-09	1.67E-08	0.00E+00	2.39E-08	3.76E-09	6.35E-09	0.00E+00	1.01E-08
1188	599984.4	4176920	4.52E-08	1.13E-07	0.00E+00	1.58E-07	4.52E-08	1.13E-07	0.00E+00	1.58E-07	7.35E-09	1.70E-08	0.00E+00	2.44E-08	3.84E-09	6.48E-09	0.00E+00	1.03E-08
1189	599975.5	4176923	4.59E-08	1.14E-07	0.00E+00	1.60E-07	4.59E-08	1.14E-07	0.00E+00	1.60E-07	7.47E-09	1.73E-08	0.00E+00	2.47E-08	3.90E-09	6.59E-09	0.00E+00	1.05E-08
1190	599966.6	4176925	4.63E-08	1.15E-07	0.00E+00	1.62E-07	4.63E-08	1.15E-07	0.00E+00	1.62E-07	7.54E-09	1.74E-08	0.00E+00	2.50E-08	3.93E-09	6.65E-09	0.00E+00	1.06E-08
1191	599957.6	4176928	4.62E-08	1.15E-07	0.00E+00	1.61E-07	4.62E-08	1.15E-07	0.00E+00	1.61E-07	7.51E-09	1.74E-08	0.00E+00	2.49E-08	3.92E-09	6.62E-09	0.00E+00	1.05E-08
1192	599948.7	4176931	4.59E-08	1.14E-07	0.00E+00	1.60E-07	4.59E-08	1.14E-07	0.00E+00	1.60E-07	7.46E-09	1.73E-08	0.00E+00	2.47E-08	3.89E-09	6.58E-09	0.00E+00	1.05E-08
1193	599939.8	4176933	4.56E-08	1.14E-07	0.00E+00	1.59E-07	4.56E-08	1.14E-07	0.00E+00	1.59E-07	7.43E-09	1.72E-08	0.00E+00	2.46E-08	3.88E-09	6.55E-09	0.00E+00	1.04E-08
1194	599930.9	4176936	4.56E-08	1.14E-07	0.00E+00	1.59E-07	4.56E-08	1.14E-07	0.00E+00	1.59E-07	7.43E-09	1.72E-08	0.00E+00	2.46E-08	3.88E-09	6.55E-09	0.00E+00	1.04E-08
1195	599922	4176938	4.62E-08	1.15E-07	0.00E+00	1.61E-07	4.62E-08	1.15E-07	0.00E+00	1.61E-07	7.52E-09	1.74E-08	0.00E+00	2.49E-08	3.93E-09	6.63E-09	0.00E+00	1.06E-08
1196	599913.1	4176941	4.69E-08	1.17E-07	0.00E+00	1.64E-07	4.69E-08	1.17E-07	0.00E+00	1.64E-07	7.64E-09	1.77E-08	0.00E+00	2.53E-08	3.99E-09	6.74E-09	0.00E+00	1.07E-08
1197	599904.2	4176944	4.79E-08	1.19E-07	0.00E+00	1.67E-07	4.79E-08	1.19E-07	0.00E+00	1.67E-07	7.79E-09	1.80E-08	0.00E+00	2.58E-08	4.07E-09	6.88E-09	0.00E+00	1.09E-08
1198	599895.3	4176946	4.89E-08	1.22E-07	0.00E+00	1.71E-07	4.89E-08	1.22E-07	0.00E+00	1.71E-07	7.95E-09	1.84E-08	0.00E+00	2.63E-08	4.15E-09	7.01E-09	0.00E+00	1.12E-08
1199	599886.3	4176949	5.12E-08	1.27E-07	0.00E+00	1.79E-07	5.12E-08	1.27E-07	0.00E+00	1.79E-07	8.33E-09	1.93E-08	0.00E+00	2.76E-08	4.35E-09	7.34E-09	0.00E+00	1.17E-08
1200	599877.4	4176951	5.43E-08	1.35E-07	0.00E+00	1.89E-07	5.43E-08	1.35E-07	0.00E+00	1.89E-07	8.83E-09	2.04E-08	0.00E+00	2.93E-08	4.61E-09	7.79E-09	0.00E+00	1.24E-08
1201	599868.5	4176954	5.89E-08	1.47E-07	0.00E+00	2.06E-07	5.89E-08	1.47E-07	0.00E+00	2.06E-07	9.59E-09	2.22E-08	0.00E+00	3.18E-08	5.00E-09	8.46E-09	0.00E+00	1.35E-08
1202	599859.6	4176957	6.46E-08	1.61E-07	0.00E+00	2.26E-07	6.46E-08	1.61E-07	0.00E+00	2.26E-07	1.05E-08	2.43E-08	0.00E+00	3.48E-08	5.49E-09	9.27E-09	0.00E+00	1.48E-08
1203	599850.7	4176959	7.05E-08	1.75E-07	0.00E+00	2.46E-07	7.05E-08	1.75E-07	0.00E+00	2.46E-07	1.15E-08	2.65E-08	0.00E+00	3.80E-08	5.98E-09	1.01E-08	0.00E+00	1.61E-08
1204	599841.8	4176962	7.58E-08	1.89E-07	0.00E+00	2.64E-07	7.58E-08	1.89E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.09E-08	6.43E-09	1.09E-08	0.00E+00	1.73E-08
1205	599832.9	4176964	7.95E-08	1.98E-07	0.00E+00	2.78E-07	7.95E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	2.99E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
1206	599823.9	4176967	8.28E-08	2.06E-07	0.00E+00	2.89E-07	8.28E-08	2.06E-07	0.00E+00	2.89E-07	1.35E-08	3.12E-08	0.00E+00	4.46E-08	7.03E-09	1.19E-08	0.00E+00	1.89E-08
1207	599815	4176970	8.55E-08	2.13E-07	0.00E+00	2.98E-07	8.55E-08	2.13E-07	0.00E+00	2.98E-07	1.39E-08	3.22E-08	0.00E+00	4.61E-08	7.26E-09	1.23E-08	0.00E+00	1.95E-08

1208	599806.1	4176972	8.69E-08	2.16E-07	0.00E+00	3.03E-07	8.69E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.68E-08	7.38E-09	1.25E-08	0.00E+00	1.98E-08
1209	599797.2	4176975	8.79E-08	2.19E-07	0.00E+00	3.07E-07	8.79E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.31E-08	0.00E+00	4.74E-08	7.46E-09	1.26E-08	0.00E+00	2.01E-08
1210	599788.3	4176977	8.87E-08	2.21E-07	0.00E+00	3.10E-07	8.87E-08	2.21E-07	0.00E+00	3.10E-07	1.44E-08	3.34E-08	0.00E+00	4.78E-08	7.53E-09	1.27E-08	0.00E+00	2.03E-08
1211	599779.4	4176980	8.94E-08	2.23E-07	0.00E+00	3.12E-07	8.94E-08	2.23E-07	0.00E+00	3.12E-07	1.45E-08	3.37E-08	0.00E+00	4.82E-08	7.59E-09	1.28E-08	0.00E+00	2.04E-08
1212	599690.3	4177006	7.73E-08	1.92E-07	0.00E+00	2.70E-07	7.73E-08	1.92E-07	0.00E+00	2.70E-07	1.26E-08	2.91E-08	0.00E+00	4.17E-08	6.56E-09	1.11E-08	0.00E+00	1.76E-08
1213	599681.3	4177009	7.31E-08	1.82E-07	0.00E+00	2.55E-07	7.31E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.94E-08	6.20E-09	1.05E-08	0.00E+00	1.67E-08
1214	599672.4	4177011	6.85E-08	1.70E-07	0.00E+00	2.39E-07	6.85E-08	1.70E-07	0.00E+00	2.39E-07	1.11E-08	2.58E-08	0.00E+00	3.69E-08	5.81E-09	9.83E-09	0.00E+00	1.56E-08
1215	599663.5	4177014	6.36E-08	1.58E-07	0.00E+00	2.22E-07	6.36E-08	1.58E-07	0.00E+00	2.22E-07	1.03E-08	2.40E-08	0.00E+00	3.43E-08	5.40E-09	9.13E-09	0.00E+00	1.45E-08
1216	599654.6	4177017	6.36E-08	1.58E-07	0.00E+00	2.22E-07	6.36E-08	1.58E-07	0.00E+00	2.22E-07	1.03E-08	2.39E-08	0.00E+00	3.43E-08	5.40E-09	9.13E-09	0.00E+00	1.45E-08
1217	599645.7	4177019	6.37E-08	1.59E-07	0.00E+00	2.22E-07	6.37E-08	1.59E-07	0.00E+00	2.22E-07	1.04E-08	2.40E-08	0.00E+00	3.44E-08	5.41E-09	9.14E-09	0.00E+00	1.46E-08
1218	599636.8	4177022	6.4E-08	1.59E-07	0.00E+00	2.23E-07	6.40E-08	1.59E-07	0.00E+00	2.23E-07	1.04E-08	2.41E-08	0.00E+00	3.45E-08	5.43E-09	9.18E-09	0.00E+00	1.46E-08
1219	599627.9	4177024	6.52E-08	1.62E-07	0.00E+00	2.27E-07	6.52E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.45E-08	0.00E+00	3.51E-08	5.53E-09	9.35E-09	0.00E+00	1.49E-08
1220	599619	4177027	6.73E-08	1.68E-07	0.00E+00	2.35E-07	6.73E-08	1.68E-07	0.00E+00	2.35E-07	1.10E-08	2.53E-08	0.00E+00	3.63E-08	5.72E-09	9.66E-09	0.00E+00	1.54E-08
1221	599610	4177030	6.99E-08	1.74E-07	0.00E+00	2.44E-07	6.99E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.77E-08	5.94E-09	1.00E-08	0.00E+00	1.60E-08
1222	599601.1	4177032	7.22E-08	1.80E-07	0.00E+00	2.52E-07	7.22E-08	1.80E-07	0.00E+00	2.52E-07	1.17E-08	2.72E-08	0.00E+00	3.89E-08	6.13E-09	1.04E-08	0.00E+00	1.65E-08
1223	599592.2	4177035	7.29E-08	1.81E-07	0.00E+00	2.54E-07	7.29E-08	1.81E-07	0.00E+00	2.54E-07	1.19E-08	2.74E-08	0.00E+00	3.93E-08	6.19E-09	1.05E-08	0.00E+00	1.66E-08
1224	600093.4	4176907	3.11E-08	7.73E-08	0.00E+00	1.08E-07	3.11E-08	7.73E-08	0.00E+00	1.08E-07	5.05E-09	1.17E-08	0.00E+00	1.67E-08	2.64E-09	4.46E-09	0.00E+00	7.09E-09
1225	600084.4	4176910	3.13E-08	7.80E-08	0.00E+00	1.09E-07	3.13E-08	7.80E-08	0.00E+00	1.09E-07	5.10E-09	1.18E-08	0.00E+00	1.69E-08	2.66E-09	4.50E-09	0.00E+00	7.16E-09
1226	600075.4	4176912	3.18E-08	7.91E-08	0.00E+00	1.11E-07	3.18E-08	7.91E-08	0.00E+00	1.11E-07	5.17E-09	1.20E-08	0.00E+00	1.71E-08	2.70E-09	4.56E-09	0.00E+00	7.26E-09
1227	600066.4	4176915	3.25E-08	8.09E-08	0.00E+00	1.13E-07	3.25E-08	8.09E-08	0.00E+00	1.13E-07	5.29E-09	1.22E-08	0.00E+00	1.75E-08	2.76E-09	4.66E-09	0.00E+00	7.42E-09
1228	600039.4	4176923	3.53E-08	8.78E-08	0.00E+00	1.23E-07	3.53E-08	8.78E-08	0.00E+00	1.23E-07	5.74E-09	1.33E-08	0.00E+00	1.90E-08	2.99E-09	5.06E-09	0.00E+00	8.06E-09
1229	600030.4	4176926	3.63E-08	9.05E-08	0.00E+00	1.27E-07	3.63E-08	9.05E-08	0.00E+00	1.27E-07	5.91E-09	1.37E-08	0.00E+00	1.96E-08	3.08E-09	5.21E-09	0.00E+00	8.30E-09
1230	600021.4	4176928	3.74E-08	9.31E-08	0.00E+00	1.30E-07	3.74E-08	9.31E-08	0.00E+00	1.30E-07	6.08E-09	1.41E-08	0.00E+00	2.02E-08	3.17E-09	5.36E-09	0.00E+00	8.54E-09
1231	600012.4	4176931	3.84E-08	9.56E-08	0.00E+00	1.34E-07	3.84E-08	9.56E-08	0.00E+00	1.34E-07	6.25E-09	1.45E-08	0.00E+00	2.07E-08	3.26E-09	5.51E-09	0.00E+00	8.77E-09
1232	600003.4	4176933	3.93E-08	9.80E-08	0.00E+00	1.37E-07	3.93E-08	9.80E-08	0.00E+00	1.37E-07	6.40E-09	1.48E-08	0.00E+00	2.12E-08	3.34E-09	5.65E-09	0.00E+00	8.99E-09
1233	599994.4	4176936	4E-08	9.95E-08	0.00E+00	1.39E-07	4.00E-08	9.95E-08	0.00E+00	1.39E-07	6.50E-09	1.50E-08	0.00E+00	2.15E-08	3.39E-09	5.73E-09	0.00E+00	9.13E-09
1234	599985.4	4176939	4.03E-08	1.00E-07	0.00E+00	1.40E-07	4.03E-08	1.00E-07	0.00E+00	1.40E-07	6.55E-09	1.52E-08	0.00E+00	2.17E-08	3.42E-09	5.78E-09	0.00E+00	9.19E-09
1235	599976.4	4176941	4.01E-08	9.99E-08	0.00E+00	1.40E-07	4.01E-08	9.99E-08	0.00E+00	1.40E-07	6.53E-09	1.51E-08	0.00E+00	2.16E-08	3.41E-09	5.76E-09	0.00E+00	9.17E-09
1236	599967.4	4176944	3.98E-08	9.90E-08	0.00E+00	1.39E-07	3.98E-08	9.90E-08	0.00E+00	1.39E-07	6.47E-09	1.50E-08	0.00E+00	2.14E-08	3.38E-09	5.71E-09	0.00E+00	9.09E-09
1237	599958.4	4176947	3.98E-08	9.90E-08	0.00E+00	1.39E-07	3.98E-08	9.90E-08	0.00E+00	1.39E-07	6.47E-09	1.50E-08	0.00E+00	2.14E-08	3.38E-09	5.71E-09	0.00E+00	9.09E-09
1238	599949.4	4176949	4.06E-08	1.01E-07	0.00E+00	1.42E-07	4.06E-08	1.01E-07	0.00E+00	1.42E-07	6.61E-09	1.53E-08	0.00E+00	2.19E-08	3.45E-09	5.83E-09	0.00E+00	9.28E-09
1239	599940.4	4176952	4.16E-08	1.04E-07	0.00E+00	1.45E-07	4.16E-08	1.04E-07	0.00E+00	1.45E-07	6.77E-09	1.57E-08	0.00E+00	2.24E-08	3.53E-09	5.97E-09	0.00E+00	9.50E-09
1240	599931.4	4176954	4.27E-08	1.06E-07	0.00E+00	1.49E-07	4.27E-08	1.06E-07	0.00E+00	1.49E-07	6.95E-09	1.61E-08	0.00E+00	2.30E-08	3.63E-09	6.13E-09	0.00E+00	9.76E-09
1241	599922.4	4176957	4.44E-08	1.11E-07	0.00E+00	1.55E-07	4.44E-08	1.11E-07	0.00E+00	1.55E-07	7.23E-09	1.67E-08	0.00E+00	2.40E-08	3.77E-09	6.38E-09	0.00E+00	1.02E-08
1242	599913.4	4176960	4.63E-08	1.15E-07	0.00E+00	1.62E-07	4.63E-08	1.15E-07	0.00E+00	1.62E-07	7.54E-09	1.74E-08	0.00E+00	2.50E-08	3.93E-09	6.65E-09	0.00E+00	1.06E-08
1243	599904.4	4176962	4.86E-08	1.21E-07	0.00E+00	1.70E-07	4.86E-08	1.21E-07	0.00E+00	1.70E-07	7.90E-09	1.83E-08	0.00E+00	2.62E-08	4.13E-09	6.97E-09	0.00E+00	1.11E-08
1244	599895.4	4176965	5.18E-08	1.29E-07	0.00E+00	1.81E-07	5.18E-08	1.29E-07	0.00E+00	1.81E-07	8.43E-09	1.95E-08	0.00E+00	2.79E-08	4.40E-09	7.43E-09	0.00E+00	1.18E-08
1245	599886.4	4176968	5.6E-08	1.40E-07	0.00E+00	1.96E-07	5.60E-08	1.40E-07	0.00E+00	1.96E-07	9.12E-09	2.11E-08	0.00E+00	3.02E-08	4.76E-09	8.04E-09	0.00E+00	1.28E-08
1246	599877.4	4176970	6.15E-08	1.53E-07	0.00E+00	2.15E-07	6.15E-08	1.53E-07	0.00E+00	2.15E-07	1.00E-08	2.32E-08	0.00E+00	3.32E-08	5.22E-09	8.83E-09	0.00E+00	1.40E-08
1247	599868.4	4176973	6.69E-08	1.67E-07	0.00E+00	2.33E-07	6.69E-08	1.67E-07	0.00E+00	2.33E-07	1.09E-08	2.52E-08	0.00E+00	3.61E-08	5.68E-09	9.60E-09	0.00E+00	1.53E-08
1248	599859.4	4176976	7.15E-08	1.78E-07	0.00E+00	2.49E-07	7.15E-08	1.78E-07	0.00E+00	2.49E-07	1.16E-08	2.69E-08	0.00E+00	3.85E-08	6.07E-09	1.03E-08	0.00E+00	1.63E-08
1249	599850.4	4176978	7.55E-08	1.88E-07	0.00E+00	2.63E-07	7.55E-08	1.88E-07	0.00E+00	2.63E-07	1.23E-08	2.84E-08	0.00E+00	4.07E-08	6.41E-09	1.08E-08	0.00E+00	1.72E-08
1250	599841.4	4176981	7.9E-08	1.97E-07	0.00E+00	2.76E-07	7.90E-08	1.97E-07	0.00E+00	2.76E-07	1.29E-08	2.97E-08	0.00E+00	4.26E-08	6.71E-09	1.13E-08	0.00E+00	1.80E-08
1251	599832.4	4176983	8.13E-08	2.03E-07	0.00E+00	2.84E-07	8.13E-08	2.03E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.39E-08	6.91E-09	1.17E-08	0.00E+00	1.86E-08
1252	599823.4	4176986	8.32E-08	2.07E-07	0.00E+00	2.90E-07	8.32E-08	2.07E-07	0.00E+00	2.90E-07	1.35E-08	3.13E-08	0.00E+00	4.49E-08	7.07E-09	1.19E-08	0.00E+00	1.90E-08
1253	599814.4	4176989	8.46E-08	2.11E-07	0.00E+00	2.95E-07	8.46E-08	2.11E-07	0.00E+00	2.95E-07	1.38E-08	3.19E-08	0.00E+00	4.56E-08	7.19E-09	1.21E-08	0.00E+00	1.93E-08
1254	599805.4	4176991	8.56E-08	2.13E-07	0.00E+00	2.99E-07	8.56E-08	2.13E-07	0.00E+00	2.99E-07	1.39E-08	3.22E-08	0.00E+00	4.62E-08	7.27E-09	1.23E-08	0.00E+00	1.96E-08
1255	599796.4	4176994	8.64E-08	2.15E-07	0.00E+00	3.02E-07	8.64E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.97E-08
1256	599787.4	4176997	8.71E-08	2.17E-07	0.00E+00	3.04E-07	8.71E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.70E-08	7.40E-09	1.25E-08	0.00E+00	1.99E-08
1257	599778.4	4176999	8.76E-08	2.18E-07	0.00E+00	3.06E-07	8.76E-08	2.18E-07	0.00E+00	3.06E-07	1.43E-08	3.30E-08	0.00E+00	4.73E-08	7.44E-09	1.26E-08	0.00E+00	2.00E-08
1258	599769.4	4177002	8.8E-08	2.19E-07	0.00E+00	3.07E-07	8.80E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.31E-08	0.00E+00	4.75E-08	7.47E-09	1.26E-08	0.00E+00	2.01E-08
1259	599706.4	4177020	7.72E-08	1.92E-07	0.00E+00	2.70E-07	7.72E-08	1.92E-07	0.00E+00	2.70E-07	1.26E-08	2.91E-08	0.00E+00	4.16E-08	6.56E-09	1.11E-08	0.00E+00	1.76E-08
1260	599697.3	4177023	7.11E-08	1.77E-07	0.00E+00	2.48E-07	7.11E-08	1.77E-07	0.00E+00	2.48E-07	1.16E-08	2.68E-08	0.00E+00	3.83E-08	6.04E-09	1.02E-08	0.00E+00	1.62E-08
1261	599688.3	4177026	6.54E-08	1.63E-07	0.00E+00	2.28E-07	6.54E-08	1.63E-07	0.00E+00	2.28E-07	1.06E-08	2.46E-08	0.00E+00	3.52E-08	5.55E-09	9.38E-09	0.00E+00	1.49E-08
1262	599679.3	4177028	6.02E-08	1.50E-07	0.00E+00	2.10E-07	6.02E-08	1.50E-07	0.00E+00	2.10E-07	9.79E-09	2.27E-08	0.00E+00	3.25E-08	5.11E-09	8.64E-09	0.00E+00	1.38E-08
1263	599670.3	4177031	5.49E-08	1.37E-07	0.00E+00	1.92E-07	5.49E-08	1.37E-07	0.00E+00	1.92E-07	8.93E-09	2.07E-08	0.00E+00	2.96E-08	4.66E-09	7.88E-09	0.00E+00	1.25E-08
1264	599661.3	4177033	5.1E-08	1.27E-07	0.00E+00	1.78E-07	5.10E-08	1.27E-07	0.00E+00	1.78E-07	8.30E-09	1.92E-08	0.00E+00	2.75E-08	4.33E-09	7.32E-09	0.00E+00	1.17E-08
1265	599652.3	4177036	5.17E-08	1.29E-07	0.00E+00	1.80E-07	5.17E-08	1.29E-07	0.00E+00	1.80E-07	8.40E-09	1.94E-08	0.00E+00	2.79E-08	4.39E-09	7.41E-09	0.00E+00	1.18E-08
1266	599643.3	4177039	5.28E-08	1.31E-07	0.00E+00	1.84E-07	5.28E-08	1.31E-07	0.00E+00	1.84E-07	8.59E-09	1.99E-08	0.00E+00	2.85E-08	4.48E-09	7.57E-09	0.00E+00	1.21E-08
1267	599634.3	4177041	5.43E-08	1.35E-07	0.00E+00	1.90E-07	5.43E-08	1.35E-07	0.00E+00	1.90E-07	8.84E-09	2.05E-08	0.00E+00	2.93E-08	4.61E-09	7.80E-09	0.00E+00	1.24E-08
1268	599625.3	4177044	5.83E-08	1.45E-07	0.00E+00	2.03E-07	5.83E-08	1.45E-07	0.00E+00	2.03E-07	9.48E-09	2.19E-08	0.00E+00	3.14E-08	4.95E-09	8.36E-09	0.00E+00	1.33E-08
1269	599616.3	4177047	6.24E-08	1.55E-07	0.00E+00	2.18E-07	6.24E-08	1.55E-07	0.00E+00	2.18E-07	1.01E-08	2.35E-08	0.00E+00	3.36E-08	5.30E-09	8.95E-09	0.00E+00	1.42E-08
1270	599607.3	4177049	6.63E-08	1.65E-07	0.00E+00	2.31E-07	6.63E-08	1.65E-07	0.00E+00	2.31E-07	1.08E-08	2.49E-08	0.00E+00	3.57E-08	5.63E-09	9.51E-09	0.00E+00	1.51E-08
1271	599598.3	4177052	6.82E-08	1.70E-07	0.00E+00	2.38E-07	6.82E-08	1.70E-07	0.00E+00	2.38E-07	1.11E-08	2.57E-08	0.00E+00	3.68E-08	5.79E-09	9.79E-09	0.00E+00	1.56E-08
1272	599589.3	4177054	6.9E-08	1.72E-07	0.00E+00	2.41E-07	6.90E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.72E-08	5.86E-09	9.90E-09	0.00E+00	1.58E-08
1273	599580.3	4177057	6.98E-08	1.74E-07	0.00E+00	2.44E-07	6.98E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.77E-08	5.93E-09	1.00E-08	0.00E+00	1.60E-08
1274	599718.5	4176021	1.39E-06	3.46E-06	0.00E+00	4.85E-06	1.39E-06	3.46E-06	0.00E+00	4.85E-06	2.26E-07	5.23E-07	0.00E+00	7.49E-07	1.18E-07	1.99E-07	0.00E+00	3.17E-07
1275	599701.4	4176017	1.5E-06	3.73E-06	0.00E+00	5.23E-06	1.50E-06	3.73E-06	0.00E+00	5.23E-06	2.44E-07	5.65E-07	0.00E+00	8.09E-07	1.27E-07	2.15E-07	0.00E+00	3.43E-07
1276	599719.9	4176011	1.3E-06	3.24E-06	0.00E+00	4.54E-06	1.30E-06	3.24E-06	0.00E+00	4.54E-06	2.12E-07	4.90E-07	0.00E+00	7.02E-07	1.11E-07	1.87E-07	0.00E+00	2.97E-07
1277	599728.4	4176015	1.27E-06	3.17E-06	0.00E+00	4.44E-06	1.27E-06	3.17E-06	0.00E+00	4.44E-06	2.07E-07	4.79E-07	0.00E+00	6.85E-07	1.08E-07	1.82E-07	0.00E+00	2.90E-07
1278	599736.9	4176019	1.25E-06	3.12E-06	0.00E+00	4.38E-06	1.25E-06	3.12E-06	0.00E+00	4.38E-06	2.04E-07	4.72E-07	0.00E+00	6.76E-07	1.07E-07	1.80E-07	0.00E+00	2.87E-07
1279	599711.4	4176007	1.34E-06	3.34E-06	0.00E+00	4.68E-06	1.34E-06	3.34E-06	0.00E+00	4.68E-06	2.18E-07	5.05E-07	0.00E+00	7.24E-07	1.14E-07	1.93E-07	0.00E+00	3.07E-07
1280	599701.9	4176007	1.42E-06	3.54E-06	0.00E+00	4.96E-06	1.42E-06	3.54E-06	0.00E+00	4.96E-06	2.31E-07	5.35E-07	0.00E+00	7.66E-07	1.21E-07	2.04E-07	0.00E+00	3.24E-07
1281	599692.3	4176006	1.51E-06	3.75E-06	0.00E+00	5.25E-06	1.51E-06	3.75E-06	0.00E+00	5.25E-06	2.45E-07	5.67E-07	0.00E+00	8.12E-07	1.28E-07	2.16E-07	0.00E+00	3.44E-07
1282	599682.8	4176006	1.61E-06	4.01E-06	0.00E+00	5.62E-06	1.61E-06	4.01E-06	0.00E+00	5.62E-06	2.62E-07	6.06E-07	0.00E+00	8.68E-07	1.37E-07	2.31E-07	0.00E+00	3.68E-07
1283	599673.3	4176005	1.72E-06	4.28E-06	0.00E+00	6.00E-06	1.72E-06	4.28E-06	0.00E+00	6.00E-06	2.80E-07	6.47E-07	0.00E+00	9.27E-07	1.46E-07	2.47E-07	0.00E+00	3.93E-07
1284	599720.1	4176001	1.23E-06	3.05E-06	0.00E+00	4.28E-06	1.23E-06	3.05E-06	0.00E+00	4.28E-06	1.99E-07	4.61E-07	0.00E+00	6.61E-07	1.04E-07	1.76E-07	0.00E+00	2.80E-07
1285	599736.7	4176008	1.17E-06	2.92E-06	0.00E+00	4.09E-06	1.17E-06	2.92E-06	0.00E+00	4.09E-06	1.91E-07	4.41E-07	0.00E+00	6.32E-07	9.95E-08	1.68E-07	0.00E+00	2.68E-07
1286	599744.9	4176012	1.16E-06	2.88E-06	0.00E+00	4.03E-06	1.16E-06	2.88E-06	0.00E+00	4.03E-06	1.88E-07	4.35E-07	0.00E+00	6.23E-07	9.82E-08	1.66E-07	0.00E+00	2.64E-07
1287	599711.9	4175997	1.26E-06	3.14E-06	0.00E+00	4.40E-06	1.26E-06	3.14E-06	0.00E+00	4.40E-06	2.05E-07	4.75E-07	0.00E+00	6.80E-07	1.07E-07	1.81E-07	0.00E+00	2.88E-07
1288	599702.3	4175997	1.33E-06	3.32E-06	0.00E+00	4.66E-06	1.33E-06	3.32E-06	0.00E+00	4.66E-06	2.17E-07	5.02E-07	0.00E+00	7.19E-07	1.13E-07	1.91E-07	0.00E+00	3.05E-07
1289	599692.8	4175996	1.41E-06	3.51E-06	0.00E+00	4.92E-06	1.41E-06	3.51E-06	0.00E+00	4.92E-06	2.29E-07	5.31E-07	0.00E+00	7.61E-07	1.20E-07	2.02E-07	0.00E+00	3.22E-07
1290	599683.3	4175996	1.5E-06	3.74E-06	0.00E+00	5.24E-06	1.50E-06	3.74E-06	0.00E+00	5.24E-06	2.44E-07	5.65E-07	0.00E+00	8.09E-07	1.27E-07	2.15E-07	0.00E+00	3.43E-07
1291	599673.8	4175995	1.59E-06	3.96E-06	0.00E+00	5.55E-06	1.59E-06	3.96E-06	0.00E+00	5.55E-06	2.59E-07	5.99E-07	0.00E+00	8.58E-07	1.35E-07	2.28E-07	0.00E+00	3.63E-07
1292	599720.4	4175991	1.15E-06	2.85E-06	0.00E+00	4.00E-06	1.15E-06	2.85E-06	0.00E+00	4.00E-06	1.86E-07	4.31E-07	0.00E+00	6.18E-07	9.73E-08	1.64E-07	0.00E+00	2.62E-07
1293	599736.6	4175998	1.1E-06	2.73E-06	0.00E+00	3.82E-06	1.10E-06	2.73E-06	0.00E+00	3.82E-06	1.78E-07	4.13E-07	0.00E+00	5.91E-07	9.30E-08	1.57E-07	0.00E+00	2.50E-07
1294	599752.7	4176005	1.06E-06	2.64E-06	0.00E+00	3.70E-06	1.06E-06	2.64E-06	0.00E+00	3.70E-06	1.72E-07	3.99E-07	0.00E+00	5.71E-07	9.00E-08	1.52E-07	0.00E+00	2.42E-07
1295	599768.9	4176012	1.11E-06	2.77E-06	0.00E+00	3.88E-06	1.11E-06	2.77E-06	0.00E+00	3.88E-06	1.81E-07	4.19E-07	0.00E+00	5.99E-07	9.44E-08	1.60E-07	0.00E+00	2.54E-07
1296	599702.8	4175987	1.24E-06	3.08E-06	0.00E+00	4.32E-06	1.24E-06	3.08E-06	0.00E+00	4.32E-06	2.02E-07	4.66E-07	0.00E+00	6.68E-07	1.05E-07	1.78E-07	0.00E+00	2.83E-07
1297	599693.3	4175986	1.3E-06	3.25E-06	0.00E+00	4.55E-06	1.30E-06	3.25E-06	0.00E+00	4.55E-06	2.12E-07	4.91E-07	0.00E+00	7.04E-07	1.11E-07	1.87E-07	0.00E+00	2.98E-07
1298	599683.8	4175986	1.38E-06	3.43E-06	0.00E+00	4.81E-06	1.38E-06	3.43E-06	0.00E+00	4.81E-06	2.24E-07	5.19E-07	0.00E+00	7.43E-07	1.17E-07	1.98E-07	0.00E+00	3.15E-07
1299	599674.3	4175985	1.45E-06	3.61E-06	0.00E+00	5.06E-06	1.45E-06	3.61E-06	0.00E+00	5.06E-06	2.36E-07	5.46E-07	0.00E+00	7.82E-07	1.23E-07	2.08E-07	0.00E+00	3.31E-07
1300	599720.8	4175981	1.07E-06	2.67E-06	0.00E+00	3.74E-06	1.07E-06	2.67E-06	0.00E+00	3.74E-06	1.74E-07	4.03E-07	0.00E+00	5.77E-07	9.09E-08	1.54E-07	0.00E+00	2.45E-07
1301	599736.6	4175988	1.02E-06	2.54E-06	0.00E+00	3.57E-06	1.02E-06	2.54E-06	0.00E+00	3.57E-06	1.66E-07	3.85E-07	0.00E+00	5.51E-07	8.67E-08	1.47E-07	0.00E+00	2.33E-07
1302	599752.5	4175995	9.83E-07	2.45E-06	0.00E+00	3.43E-06	9.83E-07	2.45E-06	0.00E+00	3.43E-06	1.60E-07	3.70E-07	0.00E+00	5.30E-07	8.34E-08	1.41E-07	0.00E+00	2.24E-07
1303	599768.4	4176002	1.02E-06	2.53E-06	0.00E+00	3.54E-06	1.02E-06	2.53E-06	0.00E+00	3.54E-06	1.65E-07	3.82E-07	0.00E+00	5.47E-07	8.62E-08	1.46E-07	0.00E+00	2.32E-07
1304	599784.2	4176009	1.09E-06	2.71E-06	0.00E+00	3.80E-06	1.09E-06	2.71E-06	0.00E+00	3.80E-06	1.77E-07	4.10E-07	0.00E+00	5.88E-07	9.26E-08	1.56E-07	0.00E+00	2.49E-07
1305	599703.3	4175977	1.15E-06	2.88E-06	0.00E+00	4.03E-06	1.15E-06	2.88E-06	0.00E+00	4.03E-06	1.88E-07	4.35E-07	0.00E+00	6.23E-07	9.80E-08	1.66E-07	0.00E+00	2.64E-07
1306	599693.8	4175976	1.21E-06	3.02E-06	0.00E+00	4.23E-06	1.21E-06	3.02E-06	0.00E+00	4.23E-06	1.97E-07	4.56E-07	0.00E+00	6.53E-07	1.03E-07	1.74E-07	0.00E+00	2.77E-07
1307	599684.3	4175976	1.27E-06	3.16E-06	0.00E+00	4.43E-06	1.27E-06	3.16E-06	0.00E+00	4.43E-06	2.06E-07	4.78E-07	0.00E+00	6.84E-07	1.08E-07	1.82E-07	0.00E+00	2.90E-07
1308	599674.7	4175975	1.32E-06	3.29E-06	0.00E+00	4.61E-06	1.32E-06	3.29E-06	0.00E+00	4.61E-06	2.15E-07	4.98E-07	0.00E+00	7.13E-07	1.12E-07	1.90E-07	0.00E+00	3.02E-07
1309	599721.9	4175971	9.97E-07	2.48E-06	0.00E+00	3.48E-06	9.97E-07	2.48E-06	0.00E+00	3.48E-06	1.62E-07	3.75E-07	0.00E+00	5.37E-07	8.46E-08	1.43E-07	0.00E+00	2.28E-07
1310	599730.5	4175975	9.75E-07	2.43E-06	0.00E+00	3.40E-06	9.75E-07	2.43E-06	0.00E+00	3.40E-06	1.59E-07	3.67E-07	0.00E+00	5.26E-07	8.28E-08	1.40E-07	0.00E+00	2.23E-07
1311	599739.1	4175979	9.51E-07	2.37E-06	0.00E+00	3.32E-06	9.51E-07	2.37E-06	0.00E+00	3.32E-06	1.55E-07	3.58E-07	0.00E+00	5.13E-07	8.08E-08	1.37E-07	0.00E+00	2.17E-07
1312	599747.7	4175983	9.27E-07	2.31E-06	0.00E+00	3.24E-06	9.27E-07	2.31E-06	0.00E+00	3.24E-06	1.51E-07	3.49E-07	0.00E+00	5.00E-07	7.87E-08	1.33E-07	0.00E+00	2.12E-07
1313	599756.3	4175986	9.14E-07	2.28E-06	0.00E+00	3.19E-06	9.14E-07	2.28E-06	0.00E+00	3.19E-06	1.49E-07	3.44E-07	0.00E+00	4.93E-07	7.76E-08	1.31E-07	0.00E+00	2.09E-07
1314	599764.9	4175990	9.28E-07	2.31E-06	0.00E+00	3.24E-06	9.28E-07	2.31E-06	0.00E+00	3.24E-06	1.51E-07	3.50E-07	0.00E+00	5.01E-07	7.88E-08	1.33E-07	0.00E+00	2.12E-07
1315	599773.5	4175994	9.51E-07	2.37E-06	0.00E+00	3.32E-06	9.51E-07	2.37E-06	0.00E+00	3.32E-06	1.55E-07	3.58E-07	0.00E+00	5.13E-07	8.07E-08	1.36E-07	0.00E+00	2.17E-07
1316	599782.1	4175998	9.84E-07	2.45E-06	0.00E+00	3.43E-06	9.84E-07	2.45E-06	0.00E+00	3.43E-06	1.60E-07	3.70E-07	0.00E+00	5.30E-07	8.35E-08	1.41E-07	0.00E+00	2.25E-07
1317	599790.7	4176002	9.92E-07	2.47E-06	0.00E+00	3.46E-06	9.92E-07	2.47E-06	0.00E+00	3.46E-06	1.61E-07	3.73E-07	0.00E+00	5.35E-07	8.42E-08	1.42E-07	0.00E+00	2.27E-07

1318	599713.3	4175967	1.02E-06	2.53E-06	0.00E+00	3.55E-06	1.02E-06	2.53E-06	0.00E+00	3.55E-06	1.65E-07	3.83E-07	0.00E+00	5.48E-07	8.63E-08	1.46E-07	0.00E+00	2.32E-07
1319	599703.8	4175967	1.06E-06	2.65E-06	0.00E+00	3.72E-06	1.06E-06	2.65E-06	0.00E+00	3.72E-06	1.73E-07	4.01E-07	0.00E+00	5.74E-07	9.04E-08	1.53E-07	0.00E+00	2.43E-07
1320	599694.3	4175966	1.11E-06	2.77E-06	0.00E+00	3.88E-06	1.11E-06	2.77E-06	0.00E+00	3.88E-06	1.81E-07	4.18E-07	0.00E+00	5.99E-07	9.43E-08	1.59E-07	0.00E+00	2.54E-07
1321	599684.7	4175966	1.15E-06	2.87E-06	0.00E+00	4.02E-06	1.15E-06	2.87E-06	0.00E+00	4.02E-06	1.87E-07	4.34E-07	0.00E+00	6.21E-07	9.79E-08	1.65E-07	0.00E+00	2.63E-07
1322	599675.2	4175965	1.19E-06	2.96E-06	0.00E+00	4.15E-06	1.19E-06	2.96E-06	0.00E+00	4.15E-06	1.93E-07	4.47E-07	0.00E+00	6.41E-07	1.01E-07	1.71E-07	0.00E+00	2.71E-07
1323	599722.2	4175961	9.2E-07	2.29E-06	0.00E+00	3.21E-06	9.20E-07	2.29E-06	0.00E+00	3.21E-06	1.50E-07	3.46E-07	0.00E+00	4.96E-07	7.81E-08	1.32E-07	0.00E+00	2.10E-07
1324	599730.6	4175965	9.06E-07	2.26E-06	0.00E+00	3.16E-06	9.06E-07	2.26E-06	0.00E+00	3.16E-06	1.47E-07	3.41E-07	0.00E+00	4.88E-07	7.69E-08	1.30E-07	0.00E+00	2.07E-07
1325	599739	4175969	8.88E-07	2.21E-06	0.00E+00	3.10E-06	8.88E-07	2.21E-06	0.00E+00	3.10E-06	1.44E-07	3.34E-07	0.00E+00	4.79E-07	7.54E-08	1.27E-07	0.00E+00	2.03E-07
1326	599747.4	4175972	8.68E-07	2.16E-06	0.00E+00	3.03E-06	8.68E-07	2.16E-06	0.00E+00	3.03E-06	1.41E-07	3.27E-07	0.00E+00	4.68E-07	7.37E-08	1.25E-07	0.00E+00	1.98E-07
1327	599755.9	4175976	8.55E-07	2.13E-06	0.00E+00	2.98E-06	8.55E-07	2.13E-06	0.00E+00	2.98E-06	1.39E-07	3.22E-07	0.00E+00	4.61E-07	7.26E-08	1.23E-07	0.00E+00	1.95E-07
1328	599764.3	4175980	8.63E-07	2.15E-06	0.00E+00	3.01E-06	8.63E-07	2.15E-06	0.00E+00	3.01E-06	1.40E-07	3.25E-07	0.00E+00	4.65E-07	7.33E-08	1.24E-07	0.00E+00	1.97E-07
1329	599772.7	4175983	8.77E-07	2.18E-06	0.00E+00	3.06E-06	8.77E-07	2.18E-06	0.00E+00	3.06E-06	1.43E-07	3.30E-07	0.00E+00	4.73E-07	7.45E-08	1.26E-07	0.00E+00	2.00E-07
1330	599781.1	4175987	9.01E-07	2.24E-06	0.00E+00	3.14E-06	9.01E-07	2.24E-06	0.00E+00	3.14E-06	1.47E-07	3.39E-07	0.00E+00	4.86E-07	7.65E-08	1.29E-07	0.00E+00	2.06E-07
1331	599789.5	4175991	9.16E-07	2.28E-06	0.00E+00	3.20E-06	9.16E-07	2.28E-06	0.00E+00	3.20E-06	1.49E-07	3.45E-07	0.00E+00	4.94E-07	7.77E-08	1.31E-07	0.00E+00	2.09E-07
1332	599797.9	4175995	9.2E-07	2.29E-06	0.00E+00	3.21E-06	9.20E-07	2.29E-06	0.00E+00	3.21E-06	1.50E-07	3.46E-07	0.00E+00	4.96E-07	7.81E-08	1.32E-07	0.00E+00	2.10E-07
1333	599810	4176007	9.5E-07	2.37E-06	0.00E+00	3.32E-06	9.50E-07	2.37E-06	0.00E+00	3.32E-06	1.55E-07	3.58E-07	0.00E+00	5.12E-07	8.07E-08	1.36E-07	0.00E+00	2.17E-07
1334	599813.7	4176015	9.71E-07	2.42E-06	0.00E+00	3.39E-06	9.71E-07	2.42E-06	0.00E+00	3.39E-06	1.58E-07	3.66E-07	0.00E+00	5.24E-07	8.25E-08	1.39E-07	0.00E+00	2.22E-07
1335	599713.8	4175957	9.3E-07	2.32E-06	0.00E+00	3.24E-06	9.30E-07	2.32E-06	0.00E+00	3.24E-06	1.51E-07	3.50E-07	0.00E+00	5.01E-07	7.89E-08	1.33E-07	0.00E+00	2.12E-07
1336	599704.3	4175957	9.69E-07	2.41E-06	0.00E+00	3.38E-06	9.69E-07	2.41E-06	0.00E+00	3.38E-06	1.58E-07	3.65E-07	0.00E+00	5.22E-07	8.23E-08	1.39E-07	0.00E+00	2.21E-07
1337	599694.7	4175956	1.01E-06	2.50E-06	0.00E+00	3.51E-06	1.01E-06	2.50E-06	0.00E+00	3.51E-06	1.64E-07	3.79E-07	0.00E+00	5.42E-07	8.54E-08	1.44E-07	0.00E+00	2.30E-07
1338	599685.2	4175956	1.03E-06	2.57E-06	0.00E+00	3.61E-06	1.03E-06	2.57E-06	0.00E+00	3.61E-06	1.68E-07	3.89E-07	0.00E+00	5.58E-07	8.78E-08	1.48E-07	0.00E+00	2.36E-07
1339	599675.7	4175955	1.06E-06	2.63E-06	0.00E+00	3.68E-06	1.06E-06	2.63E-06	0.00E+00	3.68E-06	1.72E-07	3.97E-07	0.00E+00	5.69E-07	8.96E-08	1.51E-07	0.00E+00	2.41E-07
1340	599722.5	4175951	8.41E-07	2.09E-06	0.00E+00	2.94E-06	8.41E-07	2.09E-06	0.00E+00	2.94E-06	1.37E-07	3.17E-07	0.00E+00	4.54E-07	7.14E-08	1.21E-07	0.00E+00	1.92E-07
1341	599730.8	4175955	8.33E-07	2.07E-06	0.00E+00	2.91E-06	8.33E-07	2.07E-06	0.00E+00	2.91E-06	1.36E-07	3.14E-07	0.00E+00	4.49E-07	7.07E-08	1.20E-07	0.00E+00	1.90E-07
1342	599747.3	4175962	8.12E-07	2.02E-06	0.00E+00	2.83E-06	8.12E-07	2.02E-06	0.00E+00	2.83E-06	1.32E-07	3.06E-07	0.00E+00	4.38E-07	6.90E-08	1.17E-07	0.00E+00	1.86E-07
1343	599755.6	4175966	7.99E-07	1.99E-06	0.00E+00	2.79E-06	7.99E-07	1.99E-06	0.00E+00	2.79E-06	1.30E-07	3.01E-07	0.00E+00	4.31E-07	6.79E-08	1.15E-07	0.00E+00	1.83E-07
1344	599772.1	4175973	8.13E-07	2.03E-06	0.00E+00	2.84E-06	8.13E-07	2.03E-06	0.00E+00	2.84E-06	1.32E-07	3.06E-07	0.00E+00	4.39E-07	6.91E-08	1.17E-07	0.00E+00	1.86E-07
1345	599780.4	4175977	8.27E-07	2.06E-06	0.00E+00	2.89E-06	8.27E-07	2.06E-06	0.00E+00	2.89E-06	1.35E-07	3.12E-07	0.00E+00	4.46E-07	7.03E-08	1.19E-07	0.00E+00	1.89E-07
1346	599796.9	4175984	8.55E-07	2.13E-06	0.00E+00	2.99E-06	8.55E-07	2.13E-06	0.00E+00	2.99E-06	1.39E-07	3.22E-07	0.00E+00	4.61E-07	7.26E-08	1.23E-07	0.00E+00	1.95E-07
1347	599805.2	4175988	8.67E-07	2.16E-06	0.00E+00	3.03E-06	8.67E-07	2.16E-06	0.00E+00	3.03E-06	1.41E-07	3.26E-07	0.00E+00	4.68E-07	7.36E-08	1.24E-07	0.00E+00	1.98E-07
1348	599817.1	4176000	8.58E-07	2.14E-06	0.00E+00	2.99E-06	8.58E-07	2.14E-06	0.00E+00	2.99E-06	1.40E-07	3.23E-07	0.00E+00	4.63E-07	7.29E-08	1.23E-07	0.00E+00	1.96E-07
1349	599820.7	4176008	8.34E-07	2.08E-06	0.00E+00	2.91E-06	8.34E-07	2.08E-06	0.00E+00	2.91E-06	1.36E-07	3.14E-07	0.00E+00	4.50E-07	7.08E-08	1.20E-07	0.00E+00	1.91E-07
1350	599824.3	4176016	8.04E-07	2.00E-06	0.00E+00	2.81E-06	8.04E-07	2.00E-06	0.00E+00	2.81E-06	1.31E-07	3.03E-07	0.00E+00	4.33E-07	6.83E-08	1.15E-07	0.00E+00	1.84E-07
1351	599714.3	4175947	8.42E-07	2.10E-06	0.00E+00	2.94E-06	8.42E-07	2.10E-06	0.00E+00	2.94E-06	1.37E-07	3.17E-07	0.00E+00	4.54E-07	7.15E-08	1.21E-07	0.00E+00	1.92E-07
1352	599704.7	4175947	8.7E-07	2.17E-06	0.00E+00	3.04E-06	8.70E-07	2.17E-06	0.00E+00	3.04E-06	1.42E-07	3.28E-07	0.00E+00	4.69E-07	7.39E-08	1.25E-07	0.00E+00	1.99E-07
1353	599695.2	4175946	8.95E-07	2.23E-06	0.00E+00	3.12E-06	8.95E-07	2.23E-06	0.00E+00	3.12E-06	1.46E-07	3.37E-07	0.00E+00	4.82E-07	7.60E-08	1.28E-07	0.00E+00	2.04E-07
1354	599685.7	4175946	9.14E-07	2.28E-06	0.00E+00	3.19E-06	9.14E-07	2.28E-06	0.00E+00	3.19E-06	1.49E-07	3.44E-07	0.00E+00	4.93E-07	7.76E-08	1.31E-07	0.00E+00	2.09E-07
1355	599676.2	4175945	9.28E-07	2.31E-06	0.00E+00	3.24E-06	9.28E-07	2.31E-06	0.00E+00	3.24E-06	1.51E-07	3.49E-07	0.00E+00	5.00E-07	7.88E-08	1.33E-07	0.00E+00	2.12E-07
1356	599666.6	4175945	9.38E-07	2.33E-06	0.00E+00	3.27E-06	9.38E-07	2.33E-06	0.00E+00	3.27E-06	1.53E-07	3.53E-07	0.00E+00	5.06E-07	7.96E-08	1.35E-07	0.00E+00	2.14E-07
1357	599722.9	4175941	7.63E-07	1.90E-06	0.00E+00	2.66E-06	7.63E-07	1.90E-06	0.00E+00	2.66E-06	1.24E-07	2.87E-07	0.00E+00	4.11E-07	6.48E-08	1.09E-07	0.00E+00	1.74E-07
1358	599739.2	4175948	7.61E-07	1.89E-06	0.00E+00	2.66E-06	7.61E-07	1.89E-06	0.00E+00	2.66E-06	1.24E-07	2.86E-07	0.00E+00	4.10E-07	6.46E-08	1.09E-07	0.00E+00	1.74E-07
1359	599755.4	4175955	7.57E-07	1.88E-06	0.00E+00	2.64E-06	7.57E-07	1.88E-06	0.00E+00	2.64E-06	1.23E-07	2.85E-07	0.00E+00	4.08E-07	6.43E-08	1.09E-07	0.00E+00	1.73E-07
1360	599771.7	4175963	7.54E-07	1.88E-06	0.00E+00	2.63E-06	7.54E-07	1.88E-06	0.00E+00	2.63E-06	1.23E-07	2.84E-07	0.00E+00	4.07E-07	6.40E-08	1.08E-07	0.00E+00	1.72E-07
1361	599788	4175970	7.74E-07	1.93E-06	0.00E+00	2.70E-06	7.74E-07	1.93E-06	0.00E+00	2.70E-06	1.26E-07	2.91E-07	0.00E+00	4.17E-07	6.57E-08	1.11E-07	0.00E+00	1.77E-07
1362	599804.2	4175977	7.97E-07	1.98E-06	0.00E+00	2.78E-06	7.97E-07	1.98E-06	0.00E+00	2.78E-06	1.30E-07	3.00E-07	0.00E+00	4.30E-07	6.77E-08	1.14E-07	0.00E+00	1.82E-07
1363	599824.1	4175992	7.61E-07	1.89E-06	0.00E+00	2.65E-06	7.61E-07	1.89E-06	0.00E+00	2.65E-06	1.24E-07	2.86E-07	0.00E+00	4.10E-07	6.46E-08	1.09E-07	0.00E+00	1.74E-07
1364	599827.7	4176001	7.41E-07	1.84E-06	0.00E+00	2.58E-06	7.41E-07	1.84E-06	0.00E+00	2.58E-06	1.20E-07	2.79E-07	0.00E+00	3.99E-07	6.29E-08	1.06E-07	0.00E+00	1.69E-07
1365	599834.8	4176017	6.87E-07	1.71E-06	0.00E+00	2.40E-06	6.87E-07	1.71E-06	0.00E+00	2.40E-06	1.12E-07	2.59E-07	0.00E+00	3.71E-07	5.84E-08	9.86E-08	0.00E+00	1.57E-07
1366	599705.2	4175937	7.73E-07	1.92E-06	0.00E+00	2.70E-06	7.73E-07	1.92E-06	0.00E+00	2.70E-06	1.26E-07	2.91E-07	0.00E+00	4.17E-07	6.56E-08	1.11E-07	0.00E+00	1.76E-07
1367	599695.7	4175936	7.87E-07	1.96E-06	0.00E+00	2.75E-06	7.87E-07	1.96E-06	0.00E+00	2.75E-06	1.28E-07	2.96E-07	0.00E+00	4.24E-07	6.68E-08	1.13E-07	0.00E+00	1.80E-07
1368	599686.2	4175936	7.98E-07	1.99E-06	0.00E+00	2.79E-06	7.98E-07	1.99E-06	0.00E+00	2.79E-06	1.30E-07	3.01E-07	0.00E+00	4.31E-07	6.78E-08	1.15E-07	0.00E+00	1.82E-07
1369	599676.6	4175936	8.08E-07	2.01E-06	0.00E+00	2.82E-06	8.08E-07	2.01E-06	0.00E+00	2.82E-06	1.31E-07	3.04E-07	0.00E+00	4.36E-07	6.86E-08	1.16E-07	0.00E+00	1.85E-07
1370	599667.1	4175935	8.16E-07	2.03E-06	0.00E+00	2.85E-06	8.16E-07	2.03E-06	0.00E+00	2.85E-06	1.33E-07	3.07E-07	0.00E+00	4.40E-07	6.93E-08	1.17E-07	0.00E+00	1.86E-07
1371	599723.9	4175931	6.85E-07	1.71E-06	0.00E+00	2.39E-06	6.85E-07	1.71E-06	0.00E+00	2.39E-06	1.11E-07	2.58E-07	0.00E+00	3.69E-07	5.81E-08	9.83E-08	0.00E+00	1.56E-07
1372	599732.5	4175935	6.97E-07	1.74E-06	0.00E+00	2.43E-06	6.97E-07	1.74E-06	0.00E+00	2.43E-06	1.13E-07	2.62E-07	0.00E+00	3.76E-07	5.92E-08	1.00E-07	0.00E+00	1.59E-07
1373	599741.2	4175939	7.06E-07	1.76E-06	0.00E+00	2.46E-06	7.06E-07	1.76E-06	0.00E+00	2.46E-06	1.15E-07	2.66E-07	0.00E+00	3.81E-07	5.99E-08	1.01E-07	0.00E+00	1.61E-07
1374	599749.8	4175943	7.17E-07	1.79E-06	0.00E+00	2.50E-06	7.17E-07	1.79E-06	0.00E+00	2.50E-06	1.17E-07	2.70E-07	0.00E+00	3.87E-07	6.09E-08	1.03E-07	0.00E+00	1.64E-07
1375	599758.4	4175947	7.17E-07	1.78E-06	0.00E+00	2.50E-06	7.17E-07	1.78E-06	0.00E+00	2.50E-06	1.17E-07	2.70E-07	0.00E+00	3.86E-07	6.08E-08	1.03E-07	0.00E+00	1.64E-07
1376	599767.1	4175950	7.22E-07	1.80E-06	0.00E+00	2.52E-06	7.22E-07	1.80E-06	0.00E+00	2.52E-06	1.17E-07	2.72E-07	0.00E+00	3.89E-07	6.13E-08	1.04E-07	0.00E+00	1.65E-07
1377	599775.7	4175954	7.04E-07	1.75E-06	0.00E+00	2.46E-06	7.04E-07	1.75E-06	0.00E+00	2.46E-06	1.15E-07	2.65E-07	0.00E+00	3.80E-07	5.98E-08	1.01E-07	0.00E+00	1.61E-07
1378	599784.4	4175958	7.11E-07	1.77E-06	0.00E+00	2.48E-06	7.11E-07	1.77E-06	0.00E+00	2.48E-06	1.16E-07	2.68E-07	0.00E+00	3.83E-07	6.04E-08	1.02E-07	0.00E+00	1.62E-07
1379	599793	4175962	7.21E-07	1.79E-06	0.00E+00	2.51E-06	7.21E-07	1.79E-06	0.00E+00	2.51E-06	1.17E-07	2.71E-07	0.00E+00	3.88E-07	6.12E-08	1.03E-07	0.00E+00	1.65E-07
1380	599801.7	4175966	7.31E-07	1.82E-06	0.00E+00	2.55E-06	7.31E-07	1.82E-06	0.00E+00	2.55E-06	1.19E-07	2.75E-07	0.00E+00	3.94E-07	6.21E-08	1.05E-07	0.00E+00	1.67E-07
1381	599810.3	4175970	7.44E-07	1.85E-06	0.00E+00	2.59E-06	7.44E-07	1.85E-06	0.00E+00	2.59E-06	1.21E-07	2.80E-07	0.00E+00	4.01E-07	6.31E-08	1.07E-07	0.00E+00	1.70E-07
1382	599819	4175973	7.3E-07	1.82E-06	0.00E+00	2.55E-06	7.30E-07	1.82E-06	0.00E+00	2.55E-06	1.19E-07	2.75E-07	0.00E+00	3.93E-07	6.20E-08	1.05E-07	0.00E+00	1.67E-07
1383	599831.4	4175986	6.88E-07	1.71E-06	0.00E+00	2.40E-06	6.88E-07	1.71E-06	0.00E+00	2.40E-06	1.12E-07	2.59E-07	0.00E+00	3.71E-07	5.84E-08	9.87E-08	0.00E+00	1.57E-07
1384	599835.2	4175995	6.69E-07	1.66E-06	0.00E+00	2.33E-06	6.69E-07	1.66E-06	0.00E+00	2.33E-06	1.09E-07	2.52E-07	0.00E+00	3.61E-07	5.68E-08	9.59E-08	0.00E+00	1.53E-07
1385	599839	4176003	6.44E-07	1.60E-06	0.00E+00	2.25E-06	6.44E-07	1.60E-06	0.00E+00	2.25E-06	1.05E-07	2.43E-07	0.00E+00	3.47E-07	5.47E-08	9.25E-08	0.00E+00	1.47E-07
1386	599842.8	4176012	6.17E-07	1.54E-06	0.00E+00	2.15E-06	6.17E-07	1.54E-06	0.00E+00	2.15E-06	1.00E-07	2.32E-07	0.00E+00	3.33E-07	5.24E-08	8.85E-08	0.00E+00	1.41E-07
1387	599846.6	4176021	6.03E-07	1.50E-06	0.00E+00	2.11E-06	6.03E-07	1.50E-06	0.00E+00	2.11E-06	9.82E-08	2.27E-07	0.00E+00	3.25E-07	5.12E-08	8.66E-08	0.00E+00	1.38E-07
1388	599850.4	4176029	6.01E-07	1.50E-06	0.00E+00	2.10E-06	6.01E-07	1.50E-06	0.00E+00	2.10E-06	9.77E-08	2.26E-07	0.00E+00	3.24E-07	5.10E-08	8.62E-08	0.00E+00	1.37E-07
1389	599715.2	4175927	6.69E-07	1.67E-06	0.00E+00	2.34E-06	6.69E-07	1.67E-06	0.00E+00	2.34E-06	1.09E-07	2.52E-07	0.00E+00	3.61E-07	5.68E-08	9.60E-08	0.00E+00	1.53E-07
1390	599705.7	4175927	6.78E-07	1.69E-06	0.00E+00	2.37E-06	6.78E-07	1.69E-06	0.00E+00	2.37E-06	1.10E-07	2.55E-07	0.00E+00	3.66E-07	5.76E-08	9.73E-08	0.00E+00	1.55E-07
1391	599696.2	4175926	6.84E-07	1.70E-06	0.00E+00	2.39E-06	6.84E-07	1.70E-06	0.00E+00	2.39E-06	1.11E-07	2.58E-07	0.00E+00	3.69E-07	5.81E-08	9.82E-08	0.00E+00	1.56E-07
1392	599686.6	4175926	6.91E-07	1.72E-06	0.00E+00	2.41E-06	6.91E-07	1.72E-06	0.00E+00	2.41E-06	1.12E-07	2.60E-07	0.00E+00	3.72E-07	5.86E-08	9.91E-08	0.00E+00	1.58E-07
1393	599677.1	4175926	6.97E-07	1.74E-06	0.00E+00	2.43E-06	6.97E-07	1.74E-06	0.00E+00	2.43E-06	1.13E-07	2.62E-07	0.00E+00	3.76E-07	5.92E-08	1.00E-07	0.00E+00	1.59E-07
1394	599667.6	4175925	7.02E-07	1.75E-06	0.00E+00	2.45E-06	7.02E-07	1.75E-06	0.00E+00	2.45E-06	1.14E-07	2.64E-07	0.00E+00	3.79E-07	5.96E-08	1.01E-07	0.00E+00	1.60E-07
1395	599724.2	4175921	6.08E-07	1.51E-06	0.00E+00	2.12E-06	6.08E-07	1.51E-06	0.00E+00	2.12E-06	9.89E-08	2.29E-07	0.00E+00	3.28E-07	5.16E-08	8.72E-08	0.00E+00	1.39E-07
1396	599732.7	4175925	6.3E-07	1.57E-06	0.00E+00	2.20E-06	6.30E-07	1.57E-06	0.00E+00	2.20E-06	1.02E-07	2.37E-07	0.00E+00	3.40E-07	5.35E-08	9.04E-08	0.00E+00	1.44E-07
1397	599741.2	4175929	6.48E-07	1.61E-06	0.00E+00	2.26E-06	6.48E-07	1.61E-06	0.00E+00	2.26E-06	1.05E-07	2.44E-07	0.00E+00	3.50E-07	5.51E-08	9.30E-08	0.00E+00	1.48E-07
1398	599749.7	4175932	6.59E-07	1.64E-06	0.00E+00	2.30E-06	6.59E-07	1.64E-06	0.00E+00	2.30E-06	1.07E-07	2.48E-07	0.00E+00	3.55E-07	5.60E-08	9.46E-08	0.00E+00	1.51E-07
1399	599758.2	4175936	6.7E-07	1.67E-06	0.00E+00	2.34E-06	6.70E-07	1.67E-06	0.00E+00	2.34E-06	1.09E-07	2.52E-07	0.00E+00	3.61E-07	5.69E-08	9.61E-08	0.00E+00	1.53E-07
1400	599766.7	4175940	6.78E-07	1.69E-06	0.00E+00	2.37E-06	6.78E-07	1.69E-06	0.00E+00	2.37E-06	1.10E-07	2.55E-07	0.00E+00	3.66E-07	5.76E-08	9.73E-08	0.00E+00	1.55E-07
1401	599775.2	4175944	6.84E-07	1.70E-06	0.00E+00	2.39E-06	6.84E-07	1.70E-06	0.00E+00	2.39E-06	1.11E-07	2.57E-07	0.00E+00	3.69E-07	5.80E-08	9.81E-08	0.00E+00	1.56E-07
1402	599783.7	4175948	6.68E-07	1.66E-06	0.00E+00	2.33E-06	6.68E-07	1.66E-06	0.00E+00	2.33E-06	1.09E-07	2.51E-07	0.00E+00	3.60E-07	5.67E-08	9.59E-08	0.00E+00	1.53E-07
1403	599792.2	4175951	6.72E-07	1.67E-06	0.00E+00	2.35E-06	6.72E-07	1.67E-06	0.00E+00	2.35E-06	1.09E-07	2.53E-07	0.00E+00	3.62E-07	5.71E-08	9.64E-08	0.00E+00	1.53E-07
1404	599800.7	4175955	6.76E-07	1.68E-06	0.00E+00	2.36E-06	6.76E-07	1.68E-06	0.00E+00	2.36E-06	1.10E-07	2.55E-07	0.00E+00	3.65E-07	5.74E-08	9.71E-08	0.00E+00	1.55E-07
1405	599809.2	4175959	6.86E-07	1.71E-06	0.00E+00	2.39E-06	6.86E-07	1.71E-06	0.00E+00	2.39E-06	1.12E-07	2.58E-07	0.00E+00	3.70E-07	5.83E-08	9.84E-08	0.00E+00	1.57E-07
1406	599817.7	4175963	6.85E-07	1.71E-06	0.00E+00	2.39E-06	6.85E-07	1.71E-06	0.00E+00	2.39E-06	1.11E-07	2.58E-07	0.00E+00	3.69E-07	5.82E-08	9.83E-08	0.00E+00	1.56E-07
1407	599826.2	4175966	6.64E-07	1.65E-06	0.00E+00	2.32E-06	6.64E-07	1.65E-06	0.00E+00	2.32E-06	1.08E-07	2.50E-07	0.00E+00	3.58E-07	5.64E-08	9.53E-08	0.00E+00	1.52E-07
1408	599838.4	4175979	6.3E-07	1.57E-06	0.00E+00	2.20E-06	6.30E-07	1.57E-06	0.00E+00	2.20E-06	1.03E-07	2.37E-07	0.00E+00	3.40E-07	5.35E-08	9.05E-08	0.00E+00	1.44E-07
1409	599842.2	4175987	6.16E-07	1.53E-06	0.00E+00	2.15E-06	6.16E-07	1.53E-06	0.00E+00	2.15E-06	1.00E-07	2.32E-07	0.00E+00	3.32E-07	5.23E-08	8.84E-08	0.00E+00	1.41E-07
1410	599845.9	4175996	5.96E-07	1.48E-06	0.00E+00	2.08E-06	5.96E-07	1.48E-06	0.00E+00	2.08E-06	9.70E-08	2.25E-07	0.00E+00	3.22E-07	5.06E-08	8.56E-08	0.00E+00	1.36E-07
1411	599849.6	4176004	5.78E-07	1.44E-06	0.00E+00	2.02E-06	5.78E-07	1.44E-06	0.00E+00	2.02E-06	9.40E-08	2.18E-07	0.00E+00	3.12E-07	4.91E-08	8.29E-08	0.00E+00	1.32E-07
1412	599853.4	4176013	5.61E-07	1.40E-06	0.00E+00	1.96E-06	5.61E-07	1.40E-06	0.00E+00	1.96E-06	9.12E-08	2.11E-07	0.00E+00	3.02E-07	4.76E-08	8.05E-08	0.00E+00	1.28E-07
1413	599857.1	4176021	5.53E-07	1.38E-06	0.00E+00	1.93E-06	5.53E-07	1.38E-06	0.00E+00	1.93E-06	9.00E-08	2.08E-07	0.00E+00	2.98E-07	4.70E-08	7.94E-08	0.00E+00	1.26E-07
1414	599860.8	4176030	5.51E-07	1.37E-06	0.00E+00	1.92E-06	5.51E-07	1.37E-06	0.00E+00	1.92E-06	8.96E-08	2.07E-07	0.00E+00	2.97E-07	4.68E-08	7.90E-08	0.00E+00	1.26E-07
1415	599864.5	4176038	5.5E-07	1.37E-06	0.00E+00	1.92E-06	5.50E-07	1.37E-06	0.00E+00	1.92E-06	8.94E-08	2.07E-07	0.00E+00	2.96E-07	4.67E-08	7.89E-08	0.00E+00	1.26E-07
1416	599715.7	4175917	5.85E-07	1.46E-06	0.00E+00	2.04E-06	5.85E-07	1.46E-06	0.00E+00	2.04E-06	9.52E-08	2.20E-07	0.00E+00	3.16E-07	4.97E-08	8.40E-08	0.00E+00	1.34E-07
1417	599706.2	4175917	5.85E-07	1.46E-06	0.00E+00	2.04E-06	5.85E-07	1.46E-06	0.00E+00	2.04E-06	9.52E-08	2.20E-07	0.00E+00	3.16E-07	4.97E-08	8.40E-08	0.00E+00	1.34E-07
1418	599696.6	4175916	5.82E-07	1.45E-06	0.00E+00	2.03E-06	5.82E-07	1.45E-06	0.00E+00	2.03E-06	9.47E-08	2.19E-07	0.00E+00	3.14E-07	4.94E-08	8.35E-08	0.00E+00	1.33E-07
1419	599687.1	4175916	5.79E-07	1.44E-06	0.00E+00	2.02E-06	5.79E-07	1.44E-06	0.00E+00	2.02E-06	9.42E-08	2.18E-07	0.00E+00	3.12E-07	4.92E-08	8.31E-08	0.00E+00	1.32E-07
1420	599677.6	4175916	5.77E-07	1.44E-06	0.00E+00	2.01E-06	5.77E-07	1.44E-06	0.00E+00	2.01E-06	9.38E-08	2.17E-07	0.00E+00	3.11E-07	4.90E-08	8.28E-08	0.00E+00	1.32E-07
1421	599668.1	4175915	5.74E-07	1.43E-06	0.00E+00	2.00E-06	5.74E-07	1.43E-06	0.00E+00	2.00E-06	9.33E-08	2.16E-07	0.00E+00	3.09E-07	4.87E-08	8.23E-08	0.00E+00	1.31E-07
1422	599724.6	4175911	5.57E-07	1.39E-06	0.00E+00	1.94E-06	5.57E-07	1.39E-06	0.00E+00	1.94E-06	9.06E-08	2.10E-07	0.00E+00	3.00E-07	4.73E-08	7.99E-08	0.00E+00	1.27E-07
1423	599732.9	4175915	5.66E-07	1.41E-06	0.00E+00	1.98E-06	5.66E-07	1.41E-06	0.00E+00	1.98E-06	9.21E-08	2.13E-07	0.00E+00	3.05E-07	4.81E-08	8.13E-08	0.00E+00	1.29E-07
1424	599741.3	4175919	5.9E-07	1.47E-06	0.00E+00	2.06E-06	5.90E-07	1.47E-06	0.00E+00	2.06E-06	9.61E-08	2.22E-07	0.00E+00	3.18E-07	5.01E-08	8.47E-08	0.00E+00	1.35E-07
1425	599749.7	4175922	6.07E-07	1.51E-06	0.00E+00	2.12E-06	6.07E-07	1.51E-06	0.00E+00	2.12E-06	9.88E-08	2.29E-07	0.00E+00	3.27E-07	5.16E-08	8.71E-08	0.00E+00	1.39E-07
1426	599758	4175926	6.2E-07	1.54E-06	0.00E+00	2.16E-06	6.20E-07	1.54E-06	0.00E+00	2.16E-06	1.01E-07	2.33E-07	0.00E+00	3.34E-07	5.26E-08	8.89E-08	0.00E+00	1.42E-07
1427	599766.4	4175930	6.31E-07	1.57E-06	0.00E+00	2.20E-06	6.31E-07	1.57E-06	0.00E+00	2.20E-06	1.03E-07	2.38E-07	0.00E+00	3.40E-07	5.36E-08	9.06E-08	0.00E+00	1.44E-07

1428	599774.8	4175933	6.39E-07	1.59E-06	0.00E+00	2.23E-06	6.39E-07	1.59E-06	0.00E+00	2.23E-06	1.04E-07	2.41E-07	0.00E+00	3.45E-07	5.43E-08	9.17E-08	0.00E+00	1.46E-07
1429	599783.2	4175937	6.36E-07	1.58E-06	0.00E+00	2.22E-06	6.36E-07	1.58E-06	0.00E+00	2.22E-06	1.03E-07	2.39E-07	0.00E+00	3.43E-07	5.40E-08	9.12E-08	0.00E+00	1.45E-07
1430	599791.5	4175941	6.34E-07	1.58E-06	0.00E+00	2.21E-06	6.34E-07	1.58E-06	0.00E+00	2.21E-06	1.03E-07	2.39E-07	0.00E+00	3.42E-07	5.38E-08	9.09E-08	0.00E+00	1.45E-07
1431	599799.9	4175945	6.37E-07	1.59E-06	0.00E+00	2.22E-06	6.37E-07	1.59E-06	0.00E+00	2.22E-06	1.04E-07	2.40E-07	0.00E+00	3.43E-07	5.41E-08	9.14E-08	0.00E+00	1.45E-07
1432	599808.3	4175948	6.42E-07	1.60E-06	0.00E+00	2.24E-06	6.42E-07	1.60E-06	0.00E+00	2.24E-06	1.04E-07	2.42E-07	0.00E+00	3.46E-07	5.45E-08	9.21E-08	0.00E+00	1.47E-07
1433	599816.7	4175952	6.43E-07	1.60E-06	0.00E+00	2.24E-06	6.43E-07	1.60E-06	0.00E+00	2.24E-06	1.05E-07	2.42E-07	0.00E+00	3.47E-07	5.46E-08	9.23E-08	0.00E+00	1.47E-07
1434	599825	4175956	6.33E-07	1.58E-06	0.00E+00	2.21E-06	6.33E-07	1.58E-06	0.00E+00	2.21E-06	1.03E-07	2.38E-07	0.00E+00	3.41E-07	5.37E-08	9.08E-08	0.00E+00	1.45E-07
1435	599833.4	4175959	6.18E-07	1.54E-06	0.00E+00	2.16E-06	6.18E-07	1.54E-06	0.00E+00	2.16E-06	1.01E-07	2.33E-07	0.00E+00	3.33E-07	5.25E-08	8.87E-08	0.00E+00	1.41E-07
1436	599845.5	4175972	5.88E-07	1.46E-06	0.00E+00	2.05E-06	5.88E-07	1.46E-06	0.00E+00	2.05E-06	9.57E-08	2.21E-07	0.00E+00	3.17E-07	4.99E-08	8.44E-08	0.00E+00	1.34E-07
1437	599849.1	4175980	5.72E-07	1.43E-06	0.00E+00	2.00E-06	5.72E-07	1.43E-06	0.00E+00	2.00E-06	9.31E-08	2.16E-07	0.00E+00	3.09E-07	4.86E-08	8.21E-08	0.00E+00	1.31E-07
1438	599852.8	4175988	5.55E-07	1.38E-06	0.00E+00	1.94E-06	5.55E-07	1.38E-06	0.00E+00	1.94E-06	9.03E-08	2.09E-07	0.00E+00	2.99E-07	4.71E-08	7.96E-08	0.00E+00	1.27E-07
1439	599856.5	4175997	5.41E-07	1.35E-06	0.00E+00	1.89E-06	5.41E-07	1.35E-06	0.00E+00	1.89E-06	8.79E-08	2.04E-07	0.00E+00	2.91E-07	4.59E-08	7.76E-08	0.00E+00	1.23E-07
1440	599860.2	4176005	5.27E-07	1.31E-06	0.00E+00	1.84E-06	5.27E-07	1.31E-06	0.00E+00	1.84E-06	8.58E-08	1.98E-07	0.00E+00	2.84E-07	4.48E-08	7.56E-08	0.00E+00	1.20E-07
1441	599863.8	4176014	5.15E-07	1.28E-06	0.00E+00	1.80E-06	5.15E-07	1.28E-06	0.00E+00	1.80E-06	8.37E-08	1.94E-07	0.00E+00	2.77E-07	4.37E-08	7.38E-08	0.00E+00	1.18E-07
1442	599867.5	4176022	5.09E-07	1.27E-06	0.00E+00	1.78E-06	5.09E-07	1.27E-06	0.00E+00	1.78E-06	8.28E-08	1.92E-07	0.00E+00	2.75E-07	4.32E-08	7.31E-08	0.00E+00	1.16E-07
1443	599871.2	4176030	5.07E-07	1.26E-06	0.00E+00	1.77E-06	5.07E-07	1.26E-06	0.00E+00	1.77E-06	8.25E-08	1.91E-07	0.00E+00	2.73E-07	4.31E-08	7.28E-08	0.00E+00	1.16E-07
1444	599874.9	4176039	5.07E-07	1.26E-06	0.00E+00	1.77E-06	5.07E-07	1.26E-06	0.00E+00	1.77E-06	8.25E-08	1.91E-07	0.00E+00	2.73E-07	4.30E-08	7.27E-08	0.00E+00	1.16E-07
1445	599716.2	4175907	5.14E-07	1.28E-06	0.00E+00	1.79E-06	5.14E-07	1.28E-06	0.00E+00	1.79E-06	8.36E-08	1.93E-07	0.00E+00	2.77E-07	4.36E-08	7.37E-08	0.00E+00	1.17E-07
1446	599706.7	4175907	5E-07	1.25E-06	0.00E+00	1.75E-06	5.00E-07	1.25E-06	0.00E+00	1.75E-06	8.14E-08	1.88E-07	0.00E+00	2.70E-07	4.25E-08	7.18E-08	0.00E+00	1.14E-07
1447	599697.1	4175906	4.9E-07	1.22E-06	0.00E+00	1.71E-06	4.90E-07	1.22E-06	0.00E+00	1.71E-06	7.97E-08	1.85E-07	0.00E+00	2.64E-07	4.16E-08	7.03E-08	0.00E+00	1.12E-07
1448	599687.6	4175906	4.81E-07	1.20E-06	0.00E+00	1.68E-06	4.81E-07	1.20E-06	0.00E+00	1.68E-06	7.83E-08	1.81E-07	0.00E+00	2.60E-07	4.09E-08	6.91E-08	0.00E+00	1.10E-07
1449	599678.1	4175906	4.74E-07	1.18E-06	0.00E+00	1.65E-06	4.74E-07	1.18E-06	0.00E+00	1.65E-06	7.71E-08	1.78E-07	0.00E+00	2.56E-07	4.02E-08	6.80E-08	0.00E+00	1.08E-07
1450	599668.6	4175905	4.66E-07	1.16E-06	0.00E+00	1.63E-06	4.66E-07	1.16E-06	0.00E+00	1.63E-06	7.58E-08	1.75E-07	0.00E+00	2.51E-07	3.96E-08	6.69E-08	0.00E+00	1.06E-07
1451	599724.9	4175901	4.86E-07	1.21E-06	0.00E+00	1.70E-06	4.86E-07	1.21E-06	0.00E+00	1.70E-06	7.91E-08	1.83E-07	0.00E+00	2.62E-07	4.13E-08	6.98E-08	0.00E+00	1.11E-07
1452	599733.2	4175905	5.2E-07	1.29E-06	0.00E+00	1.81E-06	5.20E-07	1.29E-06	0.00E+00	1.81E-06	8.45E-08	1.96E-07	0.00E+00	2.80E-07	4.41E-08	7.46E-08	0.00E+00	1.19E-07
1453	599741.4	4175908	5.45E-07	1.36E-06	0.00E+00	1.90E-06	5.45E-07	1.36E-06	0.00E+00	1.90E-06	8.87E-08	2.05E-07	0.00E+00	2.94E-07	4.63E-08	7.83E-08	0.00E+00	1.25E-07
1454	599758	4175916	5.77E-07	1.44E-06	0.00E+00	2.01E-06	5.77E-07	1.44E-06	0.00E+00	2.01E-06	9.39E-08	2.17E-07	0.00E+00	3.11E-07	4.90E-08	8.28E-08	0.00E+00	1.32E-07
1455	599766.2	4175919	5.89E-07	1.47E-06	0.00E+00	2.06E-06	5.89E-07	1.47E-06	0.00E+00	2.06E-06	9.59E-08	2.22E-07	0.00E+00	3.18E-07	5.01E-08	8.46E-08	0.00E+00	1.35E-07
1456	599782.8	4175927	6.01E-07	1.50E-06	0.00E+00	2.10E-06	6.01E-07	1.50E-06	0.00E+00	2.10E-06	9.77E-08	2.26E-07	0.00E+00	3.24E-07	5.10E-08	8.62E-08	0.00E+00	1.37E-07
1457	599791	4175930	6.01E-07	1.50E-06	0.00E+00	2.10E-06	6.01E-07	1.50E-06	0.00E+00	2.10E-06	9.78E-08	2.26E-07	0.00E+00	3.24E-07	5.11E-08	8.63E-08	0.00E+00	1.37E-07
1458	599799.3	4175934	6E-07	1.49E-06	0.00E+00	2.09E-06	6.00E-07	1.49E-06	0.00E+00	2.09E-06	9.76E-08	2.26E-07	0.00E+00	3.24E-07	5.10E-08	8.61E-08	0.00E+00	1.37E-07
1459	599807.6	4175938	6.02E-07	1.50E-06	0.00E+00	2.10E-06	6.02E-07	1.50E-06	0.00E+00	2.10E-06	9.79E-08	2.27E-07	0.00E+00	3.25E-07	5.11E-08	8.64E-08	0.00E+00	1.37E-07
1460	599815.8	4175941	6.05E-07	1.51E-06	0.00E+00	2.11E-06	6.05E-07	1.51E-06	0.00E+00	2.11E-06	9.84E-08	2.28E-07	0.00E+00	3.26E-07	5.14E-08	8.68E-08	0.00E+00	1.38E-07
1461	599832.4	4175949	5.92E-07	1.47E-06	0.00E+00	2.07E-06	5.92E-07	1.47E-06	0.00E+00	2.07E-06	9.64E-08	2.23E-07	0.00E+00	3.19E-07	5.03E-08	8.50E-08	0.00E+00	1.35E-07
1462	599840.6	4175952	5.82E-07	1.45E-06	0.00E+00	2.03E-06	5.82E-07	1.45E-06	0.00E+00	2.03E-06	9.47E-08	2.19E-07	0.00E+00	3.14E-07	4.94E-08	8.35E-08	0.00E+00	1.33E-07
1463	599852.5	4175964	5.5E-07	1.37E-06	0.00E+00	1.92E-06	5.50E-07	1.37E-06	0.00E+00	1.92E-06	8.95E-08	2.07E-07	0.00E+00	2.97E-07	4.67E-08	7.89E-08	0.00E+00	1.26E-07
1464	599856.1	4175973	5.36E-07	1.34E-06	0.00E+00	1.87E-06	5.36E-07	1.34E-06	0.00E+00	1.87E-06	8.73E-08	2.02E-07	0.00E+00	2.89E-07	4.55E-08	7.70E-08	0.00E+00	1.23E-07
1465	599859.8	4175981	5.2E-07	1.29E-06	0.00E+00	1.81E-06	5.20E-07	1.29E-06	0.00E+00	1.81E-06	8.46E-08	1.96E-07	0.00E+00	2.80E-07	4.41E-08	7.46E-08	0.00E+00	1.19E-07
1466	599863.4	4175989	5.05E-07	1.26E-06	0.00E+00	1.76E-06	5.05E-07	1.26E-06	0.00E+00	1.76E-06	8.21E-08	1.90E-07	0.00E+00	2.72E-07	4.29E-08	7.24E-08	0.00E+00	1.15E-07
1467	599867	4175998	4.94E-07	1.23E-06	0.00E+00	1.72E-06	4.94E-07	1.23E-06	0.00E+00	1.72E-06	8.04E-08	1.86E-07	0.00E+00	2.66E-07	4.20E-08	7.09E-08	0.00E+00	1.13E-07
1468	599870.6	4176006	4.84E-07	1.21E-06	0.00E+00	1.69E-06	4.84E-07	1.21E-06	0.00E+00	1.69E-06	7.88E-08	1.82E-07	0.00E+00	2.61E-07	4.11E-08	6.95E-08	0.00E+00	1.11E-07
1469	599874.3	4176014	4.75E-07	1.18E-06	0.00E+00	1.66E-06	4.75E-07	1.18E-06	0.00E+00	1.66E-06	7.73E-08	1.79E-07	0.00E+00	2.56E-07	4.03E-08	6.82E-08	0.00E+00	1.08E-07
1470	599877.9	4176022	4.72E-07	1.18E-06	0.00E+00	1.65E-06	4.72E-07	1.18E-06	0.00E+00	1.65E-06	7.68E-08	1.78E-07	0.00E+00	2.55E-07	4.01E-08	6.78E-08	0.00E+00	1.08E-07
1471	599881.5	4176031	4.72E-07	1.18E-06	0.00E+00	1.65E-06	4.72E-07	1.18E-06	0.00E+00	1.65E-06	7.69E-08	1.78E-07	0.00E+00	2.55E-07	4.01E-08	6.78E-08	0.00E+00	1.08E-07
1472	599885.1	4176039	4.74E-07	1.18E-06	0.00E+00	1.66E-06	4.74E-07	1.18E-06	0.00E+00	1.66E-06	7.72E-08	1.79E-07	0.00E+00	2.56E-07	4.03E-08	6.81E-08	0.00E+00	1.08E-07
1473	599716.7	4175897	4.47E-07	1.11E-06	0.00E+00	1.56E-06	4.47E-07	1.11E-06	0.00E+00	1.56E-06	7.27E-08	1.68E-07	0.00E+00	2.41E-07	3.80E-08	6.42E-08	0.00E+00	1.02E-07
1474	599707.1	4175897	4.25E-07	1.06E-06	0.00E+00	1.48E-06	4.25E-07	1.06E-06	0.00E+00	1.48E-06	6.92E-08	1.60E-07	0.00E+00	2.29E-07	3.61E-08	6.10E-08	0.00E+00	9.71E-08
1475	599697.6	4175896	4.1E-07	1.02E-06	0.00E+00	1.43E-06	4.10E-07	1.02E-06	0.00E+00	1.43E-06	6.67E-08	1.54E-07	0.00E+00	2.21E-07	3.48E-08	5.88E-08	0.00E+00	9.36E-08
1476	599688.1	4175896	3.97E-07	9.90E-07	0.00E+00	1.39E-06	3.97E-07	9.90E-07	0.00E+00	1.39E-06	6.47E-08	1.50E-07	0.00E+00	2.14E-07	3.37E-08	5.70E-08	0.00E+00	9.08E-08
1477	599678.6	4175896	3.87E-07	9.65E-07	0.00E+00	1.35E-06	3.87E-07	9.65E-07	0.00E+00	1.35E-06	6.30E-08	1.46E-07	0.00E+00	2.09E-07	3.29E-08	5.56E-08	0.00E+00	8.85E-08
1478	599669	4175895	3.78E-07	9.42E-07	0.00E+00	1.32E-06	3.78E-07	9.42E-07	0.00E+00	1.32E-06	6.15E-08	1.42E-07	0.00E+00	2.04E-07	3.21E-08	5.43E-08	0.00E+00	8.64E-08
1479	599725.8	4175891	4.27E-07	1.06E-06	0.00E+00	1.49E-06	4.27E-07	1.06E-06	0.00E+00	1.49E-06	6.94E-08	1.61E-07	0.00E+00	2.30E-07	3.62E-08	6.13E-08	0.00E+00	9.75E-08
1480	599734.5	4175895	4.64E-07	1.15E-06	0.00E+00	1.62E-06	4.64E-07	1.15E-06	0.00E+00	1.62E-06	7.54E-08	1.75E-07	0.00E+00	2.50E-07	3.94E-08	6.66E-08	0.00E+00	1.06E-07
1481	599743.2	4175899	4.95E-07	1.23E-06	0.00E+00	1.73E-06	4.95E-07	1.23E-06	0.00E+00	1.73E-06	8.04E-08	1.86E-07	0.00E+00	2.67E-07	4.20E-08	7.10E-08	0.00E+00	1.13E-07
1482	599751.8	4175903	5.19E-07	1.29E-06	0.00E+00	1.81E-06	5.19E-07	1.29E-06	0.00E+00	1.81E-06	8.44E-08	1.95E-07	0.00E+00	2.80E-07	4.40E-08	7.44E-08	0.00E+00	1.18E-07
1483	599760.5	4175907	5.39E-07	1.34E-06	0.00E+00	1.88E-06	5.39E-07	1.34E-06	0.00E+00	1.88E-06	8.77E-08	2.03E-07	0.00E+00	2.91E-07	4.58E-08	7.74E-08	0.00E+00	1.23E-07
1484	599769.2	4175911	5.55E-07	1.38E-06	0.00E+00	1.94E-06	5.55E-07	1.38E-06	0.00E+00	1.94E-06	9.03E-08	2.09E-07	0.00E+00	2.99E-07	4.71E-08	7.97E-08	0.00E+00	1.27E-07
1485	599777.9	4175914	5.66E-07	1.41E-06	0.00E+00	1.97E-06	5.66E-07	1.41E-06	0.00E+00	1.97E-06	9.20E-08	2.13E-07	0.00E+00	3.05E-07	4.80E-08	8.12E-08	0.00E+00	1.29E-07
1486	599786.6	4175918	5.72E-07	1.42E-06	0.00E+00	2.00E-06	5.72E-07	1.42E-06	0.00E+00	2.00E-06	9.30E-08	2.15E-07	0.00E+00	3.08E-07	4.85E-08	8.20E-08	0.00E+00	1.31E-07
1487	599795.2	4175922	5.75E-07	1.43E-06	0.00E+00	2.01E-06	5.75E-07	1.43E-06	0.00E+00	2.01E-06	9.35E-08	2.16E-07	0.00E+00	3.10E-07	4.88E-08	8.25E-08	0.00E+00	1.31E-07
1488	599803.9	4175926	5.77E-07	1.44E-06	0.00E+00	2.01E-06	5.77E-07	1.44E-06	0.00E+00	2.01E-06	9.38E-08	2.17E-07	0.00E+00	3.11E-07	4.90E-08	8.27E-08	0.00E+00	1.32E-07
1489	599812.6	4175930	5.66E-07	1.41E-06	0.00E+00	1.97E-06	5.66E-07	1.41E-06	0.00E+00	1.97E-06	9.20E-08	2.13E-07	0.00E+00	3.05E-07	4.80E-08	8.12E-08	0.00E+00	1.29E-07
1490	599821.3	4175934	5.66E-07	1.41E-06	0.00E+00	1.98E-06	5.66E-07	1.41E-06	0.00E+00	1.98E-06	9.22E-08	2.13E-07	0.00E+00	3.05E-07	4.81E-08	8.13E-08	0.00E+00	1.29E-07
1491	599829.9	4175937	5.64E-07	1.40E-06	0.00E+00	1.97E-06	5.64E-07	1.40E-06	0.00E+00	1.97E-06	9.17E-08	2.12E-07	0.00E+00	3.04E-07	4.79E-08	8.09E-08	0.00E+00	1.29E-07
1492	599838.6	4175941	5.58E-07	1.39E-06	0.00E+00	1.95E-06	5.58E-07	1.39E-06	0.00E+00	1.95E-06	9.08E-08	2.10E-07	0.00E+00	3.01E-07	4.74E-08	8.01E-08	0.00E+00	1.28E-07
1493	599847.3	4175945	5.45E-07	1.36E-06	0.00E+00	1.90E-06	5.45E-07	1.36E-06	0.00E+00	1.90E-06	8.86E-08	2.05E-07	0.00E+00	2.94E-07	4.63E-08	7.82E-08	0.00E+00	1.24E-07
1494	599859.8	4175958	5.18E-07	1.29E-06	0.00E+00	1.81E-06	5.18E-07	1.29E-06	0.00E+00	1.81E-06	8.42E-08	1.95E-07	0.00E+00	2.79E-07	4.40E-08	7.43E-08	0.00E+00	1.18E-07
1495	599863.6	4175966	5.05E-07	1.26E-06	0.00E+00	1.76E-06	5.05E-07	1.26E-06	0.00E+00	1.76E-06	8.21E-08	1.90E-07	0.00E+00	2.72E-07	4.28E-08	7.24E-08	0.00E+00	1.15E-07
1496	599867.4	4175975	4.89E-07	1.22E-06	0.00E+00	1.71E-06	4.89E-07	1.22E-06	0.00E+00	1.71E-06	7.95E-08	1.84E-07	0.00E+00	2.64E-07	4.15E-08	7.02E-08	0.00E+00	1.12E-07
1497	599871.2	4175984	4.71E-07	1.17E-06	0.00E+00	1.64E-06	4.71E-07	1.17E-06	0.00E+00	1.64E-06	7.66E-08	1.77E-07	0.00E+00	2.54E-07	4.00E-08	6.76E-08	0.00E+00	1.08E-07
1498	599875	4175993	4.61E-07	1.15E-06	0.00E+00	1.61E-06	4.61E-07	1.15E-06	0.00E+00	1.61E-06	7.50E-08	1.74E-07	0.00E+00	2.48E-07	3.91E-08	6.61E-08	0.00E+00	1.05E-07
1499	599878.8	4176001	4.54E-07	1.13E-06	0.00E+00	1.59E-06	4.54E-07	1.13E-06	0.00E+00	1.59E-06	7.39E-08	1.71E-07	0.00E+00	2.45E-07	3.86E-08	6.52E-08	0.00E+00	1.04E-07
1500	599882.6	4176010	4.47E-07	1.11E-06	0.00E+00	1.56E-06	4.47E-07	1.11E-06	0.00E+00	1.56E-06	7.27E-08	1.68E-07	0.00E+00	2.41E-07	3.80E-08	6.41E-08	0.00E+00	1.02E-07
1501	599886.4	4176019	4.41E-07	1.10E-06	0.00E+00	1.54E-06	4.41E-07	1.10E-06	0.00E+00	1.54E-06	7.18E-08	1.66E-07	0.00E+00	2.38E-07	3.75E-08	6.33E-08	0.00E+00	1.01E-07
1502	599890.2	4176027	4.42E-07	1.10E-06	0.00E+00	1.54E-06	4.42E-07	1.10E-06	0.00E+00	1.54E-06	7.18E-08	1.66E-07	0.00E+00	2.38E-07	3.75E-08	6.34E-08	0.00E+00	1.01E-07
1503	599894	4176036	4.44E-07	1.10E-06	0.00E+00	1.55E-06	4.44E-07	1.10E-06	0.00E+00	1.55E-06	7.22E-08	1.67E-07	0.00E+00	2.39E-07	3.77E-08	6.37E-08	0.00E+00	1.01E-07
1504	599897.9	4176045	4.48E-07	1.12E-06	0.00E+00	1.56E-06	4.48E-07	1.12E-06	0.00E+00	1.56E-06	7.30E-08	1.69E-07	0.00E+00	2.42E-07	3.81E-08	6.43E-08	0.00E+00	1.02E-07
1505	599717.1	4175887	3.89E-07	9.68E-07	0.00E+00	1.36E-06	3.89E-07	9.68E-07	0.00E+00	1.36E-06	6.32E-08	1.46E-07	0.00E+00	2.10E-07	3.30E-08	5.58E-08	0.00E+00	8.88E-08
1506	599707.6	4175887	3.68E-07	9.16E-07	0.00E+00	1.28E-06	3.68E-07	9.16E-07	0.00E+00	1.28E-06	5.98E-08	1.38E-07	0.00E+00	1.98E-07	3.12E-08	5.28E-08	0.00E+00	8.40E-08
1507	599698.1	4175886	3.52E-07	8.75E-07	0.00E+00	1.23E-06	3.52E-07	8.75E-07	0.00E+00	1.23E-06	5.72E-08	1.32E-07	0.00E+00	1.90E-07	2.99E-08	5.05E-08	0.00E+00	8.03E-08
1508	599688.6	4175886	3.37E-07	8.39E-07	0.00E+00	1.18E-06	3.37E-07	8.39E-07	0.00E+00	1.18E-06	5.48E-08	1.27E-07	0.00E+00	1.82E-07	2.86E-08	4.84E-08	0.00E+00	7.70E-08
1509	599679	4175886	3.25E-07	8.10E-07	0.00E+00	1.14E-06	3.25E-07	8.10E-07	0.00E+00	1.14E-06	5.29E-08	1.23E-07	0.00E+00	1.75E-07	2.76E-08	4.67E-08	0.00E+00	7.43E-08
1510	599669.5	4175885	3.14E-07	7.83E-07	0.00E+00	1.10E-06	3.14E-07	7.83E-07	0.00E+00	1.10E-06	5.11E-08	1.18E-07	0.00E+00	1.70E-07	2.67E-08	4.51E-08	0.00E+00	7.18E-08
1511	599726.2	4175881	3.74E-07	9.30E-07	0.00E+00	1.30E-06	3.74E-07	9.30E-07	0.00E+00	1.30E-06	6.08E-08	1.41E-07	0.00E+00	2.01E-07	3.17E-08	5.36E-08	0.00E+00	8.53E-08
1512	599734.7	4175885	4.1E-07	1.02E-06	0.00E+00	1.43E-06	4.10E-07	1.02E-06	0.00E+00	1.43E-06	6.66E-08	1.54E-07	0.00E+00	2.21E-07	3.48E-08	5.88E-08	0.00E+00	9.36E-08
1513	599743.3	4175889	4.42E-07	1.10E-06	0.00E+00	1.54E-06	4.42E-07	1.10E-06	0.00E+00	1.54E-06	7.19E-08	1.67E-07	0.00E+00	2.38E-07	3.76E-08	6.35E-08	0.00E+00	1.01E-07
1514	599751.8	4175893	4.71E-07	1.17E-06	0.00E+00	1.64E-06	4.71E-07	1.17E-06	0.00E+00	1.64E-06	7.66E-08	1.77E-07	0.00E+00	2.54E-07	4.00E-08	6.75E-08	0.00E+00	1.08E-07
1515	599760.4	4175896	4.96E-07	1.23E-06	0.00E+00	1.73E-06	4.96E-07	1.23E-06	0.00E+00	1.73E-06	8.07E-08	1.87E-07	0.00E+00	2.67E-07	4.21E-08	7.11E-08	0.00E+00	1.13E-07
1516	599768.9	4175900	5.16E-07	1.28E-06	0.00E+00	1.80E-06	5.16E-07	1.28E-06	0.00E+00	1.80E-06	8.39E-08	1.94E-07	0.00E+00	2.78E-07	4.38E-08	7.40E-08	0.00E+00	1.18E-07
1517	599777.5	4175904	5.31E-07	1.32E-06	0.00E+00	1.85E-06	5.31E-07	1.32E-06	0.00E+00	1.85E-06	8.63E-08	2.00E-07	0.00E+00	2.86E-07	4.51E-08	7.62E-08	0.00E+00	1.21E-07
1518	599786.1	4175908	5.4E-07	1.35E-06	0.00E+00	1.89E-06	5.40E-07	1.35E-06	0.00E+00	1.89E-06	8.79E-08	2.04E-07	0.00E+00	2.91E-07	4.59E-08	7.76E-08	0.00E+00	1.23E-07
1519	599794.6	4175912	5.46E-07	1.36E-06	0.00E+00	1.90E-06	5.46E-07	1.36E-06	0.00E+00	1.90E-06	8.88E-08	2.05E-07	0.00E+00	2.94E-07	4.63E-08	7.83E-08	0.00E+00	1.25E-07
1520	599803.2	4175915	5.49E-07	1.37E-06	0.00E+00	1.92E-06	5.49E-07	1.37E-06	0.00E+00	1.92E-06	8.93E-08	2.07E-07	0.00E+00	2.96E-07	4.66E-08	7.88E-08	0.00E+00	1.25E-07
1521	599811.7	4175919	5.51E-07	1.37E-06	0.00E+00	1.92E-06	5.51E-07	1.37E-06	0.00E+00	1.92E-06	8.96E-08	2.07E-07	0.00E+00	2.97E-07	4.68E-08	7.90E-08	0.00E+00	1.26E-07
1522	599820.3	4175923	5.34E-07	1.33E-06	0.00E+00	1.86E-06	5.34E-07	1.33E-06	0.00E+00	1.86E-06	8.69E-08	2.01E-07	0.00E+00	2.88E-07	4.53E-08	7.66E-08	0.00E+00	1.22E-07
1523	599828.8	4175927	5.32E-07	1.33E-06	0.00E+00	1.86E-06	5.32E-07	1.33E-06	0.00E+00	1.86E-06	8.66E-08	2.00E-07	0.00E+00	2.87E-07	4.52E-08	7.64E-08	0.00E+00	1.22E-07
1524	599837.4	4175931	5.31E-07	1.32E-06	0.00E+00	1.85E-06	5.31E-07	1.32E-06	0.00E+00	1.85E-06	8.64E-08	2.00E-07	0.00E+00	2.86E-07	4.51E-08	7.62E-08	0.00E+00	1.21E-07
1525	599846	4175934	5.25E-07	1.31E-06	0.00E+00	1.83E-06	5.25E-07	1.31E-06	0.00E+00	1.83E-06	8.54E-08	1.98E-07	0.00E+00	2.83E-07	4.46E-08	7.54E-08	0.00E+00	1.20E-07
1526	599854.5	4175938	5.09E-07	1.27E-06	0.00E+00	1.78E-06	5.09E-07	1.27E-06	0.00E+00	1.78E-06	8.29E-08	1.92E-07	0.00E+00	2.75E-07	4.33E-08	7.31E-08	0.00E+00	1.16E-07
1527	599866.8	4175951	4.88E-07	1.22E-06	0.00E+00	1.70E-06	4.88E-07	1.22E-06	0.00E+00	1.70E-06	7.94E-08	1.84E-07	0.00E+00	2.63E-07	4.14E-08	7.00E-08	0.00E+00	1.11E-07
1528	599870.6	4175959	4.79E-07	1.19E-06	0.00E+00	1.67E-06	4.79E-07	1.19E-06	0.00E+00	1.67E-06	7.80E-08	1.81E-07	0.00E+00	2.58E-07	4.07E-08	6.88E-08	0.00E+00	1.10E-07
1529	599874.3	4175968	4.66E-07	1.16E-06	0.00E+00	1.63E-06	4.66E-07	1.16E-06	0.00E+00	1.63E-06	7.57E-08	1.75E-07	0.00E+00	2.51E-07	3.95E-08	6.68E-08	0.00E+00	1.06E-07
1530	599878.1	4175976	4.52E-07	1.13E-06	0.00E+00	1.58E-06	4.52E-07	1.13E-06	0.00E+00	1.58E-06	7.35E-08	1.70E-07	0.00E+00	2.44E-07	3.84E-08	6.48E-08	0.00E+00	1.03E-07
1531	599881.8	4175985	4.38E-07	1.09E-06	0.00E+00	1.53E-06	4.38E-07	1.09E-06	0.00E+00	1.53E-06	7.12E-08	1.65E-07	0.00E+00	2.36E-07	3.72E-08	6.28E-08	0.00E+00	9.99E-08
1532	599885.6	4175993	4.31E-07	1.07E-06	0.00E+00	1.50E-06	4.31E-07	1.07E-06	0.00E+00	1.50E-06	7.01E-08	1.62E-07	0.00E+00	2.32E-07	3.66E-08	6.18E-08	0.00E+00	9.84E-08
1533	599889.3	4176002	4.25E-07	1.06E-06	0.00E+00	1.48E-06	4.25E-07	1.06E-06	0.00E+00	1.48E-06	6.91E-08	1.60E-07	0.00E+00	2.29E-07	3.60E-08	6.09E-08	0.00E+00	9.70E-08
1534	599893.1	4176011	4.18E-07	1.04E-06	0.00E+00	1.46E-06	4.18E-07	1.04E-06	0.00E+00	1.46E-06	6.79E-08	1.57E-07	0.00E+00	2.25E-07	3.55E-08	5.99E-08	0.00E+00	9.54E-08
1535	599896.8	4176019	4.13E-07	1.03E-06	0.00E+00	1.44E-06	4.13E-07	1.03E-06	0.00E+00	1.44E-06	6.72E-08	1.56E-07	0.00E+00	2.23E-07	3.51E-08	5.93E-08	0.00E+00	9.43E-08
1536	599900.6	4176028	4.14E-07	1.03E-06	0.00E+00	1.44E-06	4.14E-07	1.03E-06	0.00E+00	1.44E-06	6.74E-08	1.56E-07	0.00E+00	2.23E-07	3.52E-08	5.94E-08	0.00E+00	9.46E-08
1537	599717.6	4175877	3.37E-07	8.40E-07	0.00E+00	1.18E-06	3.37E-07	8.40E-07	0.00E+00	1.18E-06	5.49E-08	1.27E-07	0.00E+00	1.82E-07	2.86E-08	4.84E-08	0.00E+00	7.70E-08

1538	599708.1	4175877	3.2E-07	7.98E-07	0.00E+00	1.12E-06	3.20E-07	7.98E-07	0.00E+00	1.12E-06	5.21E-08	1.21E-07	0.00E+00	1.73E-07	2.72E-08	4.60E-08	0.00E+00	7.32E-08
1539	599698.6	4175876	3.02E-07	7.52E-07	0.00E+00	1.05E-06	3.02E-07	7.52E-07	0.00E+00	1.05E-06	4.92E-08	1.14E-07	0.00E+00	1.63E-07	2.57E-08	4.34E-08	0.00E+00	6.90E-08
1540	599689	4175876	2.86E-07	7.12E-07	0.00E+00	9.99E-07	2.86E-07	7.12E-07	0.00E+00	9.99E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.11E-08	0.00E+00	6.54E-08
1541	599679.5	4175876	2.74E-07	6.82E-07	0.00E+00	9.56E-07	2.74E-07	6.82E-07	0.00E+00	9.56E-07	4.46E-08	1.03E-07	0.00E+00	1.48E-07	2.33E-08	3.93E-08	0.00E+00	6.26E-08
1542	599670	4175875	2.63E-07	6.54E-07	0.00E+00	9.16E-07	2.63E-07	6.54E-07	0.00E+00	9.16E-07	4.27E-08	9.88E-08	0.00E+00	1.42E-07	2.23E-08	3.77E-08	0.00E+00	6.00E-08
1543	599726.5	4175871	3.28E-07	8.17E-07	0.00E+00	1.15E-06	3.28E-07	8.17E-07	0.00E+00	1.15E-06	5.34E-08	1.24E-07	0.00E+00	1.77E-07	2.79E-08	4.71E-08	0.00E+00	7.50E-08
1544	599735	4175875	3.62E-07	9.02E-07	0.00E+00	1.26E-06	3.62E-07	9.02E-07	0.00E+00	1.26E-06	5.90E-08	1.36E-07	0.00E+00	1.95E-07	3.08E-08	5.20E-08	0.00E+00	8.28E-08
1545	599743.4	4175879	3.94E-07	9.80E-07	0.00E+00	1.37E-06	3.94E-07	9.80E-07	0.00E+00	1.37E-06	6.40E-08	1.48E-07	0.00E+00	2.12E-07	3.34E-08	5.65E-08	0.00E+00	8.99E-08
1546	599751.9	4175882	4.21E-07	1.05E-06	0.00E+00	1.47E-06	4.21E-07	1.05E-06	0.00E+00	1.47E-06	6.85E-08	1.58E-07	0.00E+00	2.27E-07	3.57E-08	6.04E-08	0.00E+00	9.61E-08
1547	599760.3	4175886	4.44E-07	1.10E-06	0.00E+00	1.55E-06	4.44E-07	1.10E-06	0.00E+00	1.55E-06	7.22E-08	1.67E-07	0.00E+00	2.39E-07	3.77E-08	6.37E-08	0.00E+00	1.01E-07
1548	599768.8	4175890	4.81E-07	1.20E-06	0.00E+00	1.68E-06	4.81E-07	1.20E-06	0.00E+00	1.68E-06	7.83E-08	1.81E-07	0.00E+00	2.60E-07	4.09E-08	6.91E-08	0.00E+00	1.10E-07
1549	599777.2	4175894	4.96E-07	1.24E-06	0.00E+00	1.73E-06	4.96E-07	1.24E-06	0.00E+00	1.73E-06	8.07E-08	1.87E-07	0.00E+00	2.68E-07	4.21E-08	7.12E-08	0.00E+00	1.13E-07
1550	599785.7	4175897	5.07E-07	1.26E-06	0.00E+00	1.77E-06	5.07E-07	1.26E-06	0.00E+00	1.77E-06	8.25E-08	1.91E-07	0.00E+00	2.74E-07	4.31E-08	7.28E-08	0.00E+00	1.16E-07
1551	599794.1	4175901	5.14E-07	1.28E-06	0.00E+00	1.79E-06	5.14E-07	1.28E-06	0.00E+00	1.79E-06	8.37E-08	1.94E-07	0.00E+00	2.77E-07	4.37E-08	7.38E-08	0.00E+00	1.17E-07
1552	599802.6	4175905	5.19E-07	1.29E-06	0.00E+00	1.81E-06	5.19E-07	1.29E-06	0.00E+00	1.81E-06	8.45E-08	1.95E-07	0.00E+00	2.80E-07	4.41E-08	7.45E-08	0.00E+00	1.19E-07
1553	599811	4175909	5.22E-07	1.30E-06	0.00E+00	1.82E-06	5.22E-07	1.30E-06	0.00E+00	1.82E-06	8.50E-08	1.97E-07	0.00E+00	2.82E-07	4.43E-08	7.49E-08	0.00E+00	1.19E-07
1554	599819.5	4175912	5.08E-07	1.27E-06	0.00E+00	1.77E-06	5.08E-07	1.27E-06	0.00E+00	1.77E-06	8.27E-08	1.91E-07	0.00E+00	2.74E-07	4.32E-08	7.30E-08	0.00E+00	1.16E-07
1555	599827.9	4175916	5.08E-07	1.27E-06	0.00E+00	1.77E-06	5.08E-07	1.27E-06	0.00E+00	1.77E-06	8.27E-08	1.91E-07	0.00E+00	2.74E-07	4.32E-08	7.30E-08	0.00E+00	1.16E-07
1556	599836.4	4175920	5.07E-07	1.26E-06	0.00E+00	1.77E-06	5.07E-07	1.26E-06	0.00E+00	1.77E-06	8.25E-08	1.91E-07	0.00E+00	2.73E-07	4.30E-08	7.27E-08	0.00E+00	1.16E-07
1557	599844.8	4175924	5.03E-07	1.25E-06	0.00E+00	1.76E-06	5.03E-07	1.25E-06	0.00E+00	1.76E-06	8.19E-08	1.89E-07	0.00E+00	2.71E-07	4.27E-08	7.22E-08	0.00E+00	1.15E-07
1558	599853.3	4175927	4.93E-07	1.23E-06	0.00E+00	1.72E-06	4.93E-07	1.23E-06	0.00E+00	1.72E-06	8.02E-08	1.86E-07	0.00E+00	2.66E-07	4.19E-08	7.07E-08	0.00E+00	1.13E-07
1559	599861.7	4175931	4.81E-07	1.20E-06	0.00E+00	1.68E-06	4.81E-07	1.20E-06	0.00E+00	1.68E-06	7.82E-08	1.81E-07	0.00E+00	2.59E-07	4.08E-08	6.90E-08	0.00E+00	1.10E-07
1560	599873.9	4175943	4.63E-07	1.15E-06	0.00E+00	1.61E-06	4.63E-07	1.15E-06	0.00E+00	1.61E-06	7.53E-08	1.74E-07	0.00E+00	2.49E-07	3.93E-08	6.64E-08	0.00E+00	1.06E-07
1561	599877.6	4175952	4.57E-07	1.14E-06	0.00E+00	1.59E-06	4.57E-07	1.14E-06	0.00E+00	1.59E-06	7.43E-08	1.72E-07	0.00E+00	2.46E-07	3.88E-08	6.56E-08	0.00E+00	1.04E-07
1562	599881.3	4175960	4.47E-07	1.11E-06	0.00E+00	1.56E-06	4.47E-07	1.11E-06	0.00E+00	1.56E-06	7.28E-08	1.68E-07	0.00E+00	2.41E-07	3.80E-08	6.42E-08	0.00E+00	1.02E-07
1563	599885	4175969	4.35E-07	1.08E-06	0.00E+00	1.52E-06	4.35E-07	1.08E-06	0.00E+00	1.52E-06	7.08E-08	1.64E-07	0.00E+00	2.35E-07	3.70E-08	6.25E-08	0.00E+00	9.94E-08
1564	599888.7	4175977	4.23E-07	1.05E-06	0.00E+00	1.47E-06	4.23E-07	1.05E-06	0.00E+00	1.47E-06	6.87E-08	1.59E-07	0.00E+00	2.28E-07	3.59E-08	6.06E-08	0.00E+00	9.65E-08
1565	599892.4	4175986	4.09E-07	1.02E-06	0.00E+00	1.43E-06	4.09E-07	1.02E-06	0.00E+00	1.43E-06	6.66E-08	1.54E-07	0.00E+00	2.21E-07	3.48E-08	5.87E-08	0.00E+00	9.35E-08
1566	599896.1	4175994	4.04E-07	1.01E-06	0.00E+00	1.41E-06	4.04E-07	1.01E-06	0.00E+00	1.41E-06	6.57E-08	1.52E-07	0.00E+00	2.18E-07	3.43E-08	5.80E-08	0.00E+00	9.22E-08
1567	599899.8	4176003	3.98E-07	9.90E-07	0.00E+00	1.39E-06	3.98E-07	9.90E-07	0.00E+00	1.39E-06	6.47E-08	1.50E-07	0.00E+00	2.14E-07	3.38E-08	5.71E-08	0.00E+00	9.09E-08
1568	599903.5	4176011	3.91E-07	9.74E-07	0.00E+00	1.37E-06	3.91E-07	9.74E-07	0.00E+00	1.37E-06	6.36E-08	1.47E-07	0.00E+00	2.11E-07	3.32E-08	5.61E-08	0.00E+00	8.93E-08
1569	599718.1	4175867	2.98E-07	7.42E-07	0.00E+00	1.04E-06	2.98E-07	7.42E-07	0.00E+00	1.04E-06	4.85E-08	1.12E-07	0.00E+00	1.61E-07	2.53E-08	4.27E-08	0.00E+00	6.80E-08
1570	599708.6	4175867	2.8E-07	6.96E-07	0.00E+00	9.76E-07	2.80E-07	6.96E-07	0.00E+00	9.76E-07	4.55E-08	1.05E-07	0.00E+00	1.51E-07	2.37E-08	4.01E-08	0.00E+00	6.39E-08
1571	599699	4175866	2.6E-07	6.48E-07	0.00E+00	9.08E-07	2.60E-07	6.48E-07	0.00E+00	9.08E-07	4.23E-08	9.80E-08	0.00E+00	1.40E-07	2.21E-08	3.74E-08	0.00E+00	5.95E-08
1572	599689.5	4175866	2.44E-07	6.07E-07	0.00E+00	8.50E-07	2.44E-07	6.07E-07	0.00E+00	8.50E-07	3.96E-08	9.18E-08	0.00E+00	1.31E-07	2.07E-08	3.50E-08	0.00E+00	5.57E-08
1573	599680	4175866	2.32E-07	5.78E-07	0.00E+00	8.10E-07	2.32E-07	5.78E-07	0.00E+00	8.10E-07	3.77E-08	8.74E-08	0.00E+00	1.25E-07	1.97E-08	3.33E-08	0.00E+00	5.30E-08
1574	599670.5	4175865	2.22E-07	5.52E-07	0.00E+00	7.73E-07	2.22E-07	5.52E-07	0.00E+00	7.73E-07	3.60E-08	8.34E-08	0.00E+00	1.19E-07	1.88E-08	3.18E-08	0.00E+00	5.06E-08
1575	599726.9	4175861	2.97E-07	7.40E-07	0.00E+00	1.04E-06	2.97E-07	7.40E-07	0.00E+00	1.04E-06	4.83E-08	1.12E-07	0.00E+00	1.60E-07	2.52E-08	4.26E-08	0.00E+00	6.79E-08
1576	599735.3	4175865	3.28E-07	8.17E-07	0.00E+00	1.15E-06	3.28E-07	8.17E-07	0.00E+00	1.15E-06	5.34E-08	1.24E-07	0.00E+00	1.77E-07	2.79E-08	4.71E-08	0.00E+00	7.50E-08
1577	599743.6	4175869	3.6E-07	8.96E-07	0.00E+00	1.26E-06	3.60E-07	8.96E-07	0.00E+00	1.26E-06	5.85E-08	1.36E-07	0.00E+00	1.94E-07	3.06E-08	5.16E-08	0.00E+00	8.22E-08
1578	599752	4175872	3.89E-07	9.69E-07	0.00E+00	1.36E-06	3.89E-07	9.69E-07	0.00E+00	1.36E-06	6.33E-08	1.46E-07	0.00E+00	2.10E-07	3.30E-08	5.58E-08	0.00E+00	8.89E-08
1579	599760.3	4175876	4.12E-07	1.03E-06	0.00E+00	1.44E-06	4.12E-07	1.03E-06	0.00E+00	1.44E-06	6.71E-08	1.55E-07	0.00E+00	2.22E-07	3.50E-08	5.92E-08	0.00E+00	9.42E-08
1580	599768.7	4175880	4.33E-07	1.08E-06	0.00E+00	1.51E-06	4.33E-07	1.08E-06	0.00E+00	1.51E-06	7.04E-08	1.63E-07	0.00E+00	2.33E-07	3.67E-08	6.21E-08	0.00E+00	9.88E-08
1581	599777	4175883	4.5E-07	1.12E-06	0.00E+00	1.57E-06	4.50E-07	1.12E-06	0.00E+00	1.57E-06	7.32E-08	1.69E-07	0.00E+00	2.42E-07	3.82E-08	6.45E-08	0.00E+00	1.03E-07
1582	599785.4	4175887	4.72E-07	1.18E-06	0.00E+00	1.65E-06	4.72E-07	1.18E-06	0.00E+00	1.65E-06	7.68E-08	1.78E-07	0.00E+00	2.55E-07	4.01E-08	6.78E-08	0.00E+00	1.08E-07
1583	599793.7	4175891	4.86E-07	1.21E-06	0.00E+00	1.70E-06	4.86E-07	1.21E-06	0.00E+00	1.70E-06	7.91E-08	1.83E-07	0.00E+00	2.62E-07	4.13E-08	6.98E-08	0.00E+00	1.11E-07
1584	599802.1	4175895	4.89E-07	1.22E-06	0.00E+00	1.71E-06	4.89E-07	1.22E-06	0.00E+00	1.71E-06	7.95E-08	1.84E-07	0.00E+00	2.64E-07	4.15E-08	7.02E-08	0.00E+00	1.12E-07
1585	599810.4	4175898	4.92E-07	1.22E-06	0.00E+00	1.72E-06	4.92E-07	1.22E-06	0.00E+00	1.72E-06	8.00E-08	1.85E-07	0.00E+00	2.65E-07	4.18E-08	7.06E-08	0.00E+00	1.12E-07
1586	599818.8	4175902	4.96E-07	1.23E-06	0.00E+00	1.73E-06	4.96E-07	1.23E-06	0.00E+00	1.73E-06	8.06E-08	1.87E-07	0.00E+00	2.67E-07	4.21E-08	7.11E-08	0.00E+00	1.13E-07
1587	599827.1	4175906	4.83E-07	1.20E-06	0.00E+00	1.69E-06	4.83E-07	1.20E-06	0.00E+00	1.69E-06	7.86E-08	1.82E-07	0.00E+00	2.60E-07	4.10E-08	6.93E-08	0.00E+00	1.10E-07
1588	599835.5	4175909	4.84E-07	1.20E-06	0.00E+00	1.69E-06	4.84E-07	1.20E-06	0.00E+00	1.69E-06	7.87E-08	1.82E-07	0.00E+00	2.61E-07	4.11E-08	6.94E-08	0.00E+00	1.10E-07
1589	599843.8	4175913	4.83E-07	1.20E-06	0.00E+00	1.68E-06	4.83E-07	1.20E-06	0.00E+00	1.68E-06	7.85E-08	1.82E-07	0.00E+00	2.60E-07	4.10E-08	6.93E-08	0.00E+00	1.10E-07
1590	599852.2	4175917	4.76E-07	1.18E-06	0.00E+00	1.66E-06	4.76E-07	1.18E-06	0.00E+00	1.66E-06	7.74E-08	1.79E-07	0.00E+00	2.57E-07	4.04E-08	6.83E-08	0.00E+00	1.09E-07
1591	599860.5	4175920	4.67E-07	1.16E-06	0.00E+00	1.63E-06	4.67E-07	1.16E-06	0.00E+00	1.63E-06	7.60E-08	1.76E-07	0.00E+00	2.52E-07	3.96E-08	6.70E-08	0.00E+00	1.07E-07
1592	599868.9	4175924	4.57E-07	1.14E-06	0.00E+00	1.59E-06	4.57E-07	1.14E-06	0.00E+00	1.59E-06	7.43E-08	1.72E-07	0.00E+00	2.46E-07	3.88E-08	6.55E-08	0.00E+00	1.04E-07
1593	599880.9	4175936	4.41E-07	1.10E-06	0.00E+00	1.54E-06	4.41E-07	1.10E-06	0.00E+00	1.54E-06	7.18E-08	1.66E-07	0.00E+00	2.38E-07	3.75E-08	6.33E-08	0.00E+00	1.01E-07
1594	599884.6	4175945	4.36E-07	1.09E-06	0.00E+00	1.52E-06	4.36E-07	1.09E-06	0.00E+00	1.52E-06	7.10E-08	1.64E-07	0.00E+00	2.35E-07	3.70E-08	6.26E-08	0.00E+00	9.96E-08
1595	599888.2	4175953	4.29E-07	1.07E-06	0.00E+00	1.50E-06	4.29E-07	1.07E-06	0.00E+00	1.50E-06	6.98E-08	1.62E-07	0.00E+00	2.31E-07	3.64E-08	6.16E-08	0.00E+00	9.80E-08
1596	599891.9	4175961	4.19E-07	1.04E-06	0.00E+00	1.46E-06	4.19E-07	1.04E-06	0.00E+00	1.46E-06	6.82E-08	1.58E-07	0.00E+00	2.26E-07	3.56E-08	6.01E-08	0.00E+00	9.57E-08
1597	599895.6	4175970	4.08E-07	1.02E-06	0.00E+00	1.42E-06	4.08E-07	1.02E-06	0.00E+00	1.42E-06	6.64E-08	1.54E-07	0.00E+00	2.20E-07	3.46E-08	5.85E-08	0.00E+00	9.32E-08
1598	599899.2	4175978	3.96E-07	9.86E-07	0.00E+00	1.38E-06	3.96E-07	9.86E-07	0.00E+00	1.38E-06	6.44E-08	1.49E-07	0.00E+00	2.14E-07	3.36E-08	5.69E-08	0.00E+00	9.05E-08
1599	599902.9	4175987	3.84E-07	9.57E-07	0.00E+00	1.34E-06	3.84E-07	9.57E-07	0.00E+00	1.34E-06	6.25E-08	1.45E-07	0.00E+00	2.07E-07	3.26E-08	5.52E-08	0.00E+00	8.78E-08
1600	599906.6	4175995	3.8E-07	9.46E-07	0.00E+00	1.33E-06	3.80E-07	9.46E-07	0.00E+00	1.33E-06	6.18E-08	1.43E-07	0.00E+00	2.05E-07	3.22E-08	5.45E-08	0.00E+00	8.67E-08
1601	599718.6	4175857	2.71E-07	6.76E-07	0.00E+00	9.47E-07	2.71E-07	6.76E-07	0.00E+00	9.47E-07	4.42E-08	1.02E-07	0.00E+00	1.46E-07	2.30E-08	3.90E-08	0.00E+00	6.20E-08
1602	599709	4175857	2.54E-07	6.32E-07	0.00E+00	8.86E-07	2.54E-07	6.32E-07	0.00E+00	8.86E-07	4.13E-08	9.56E-08	0.00E+00	1.37E-07	2.16E-08	3.64E-08	0.00E+00	5.80E-08
1603	599699.5	4175857	2.36E-07	5.88E-07	0.00E+00	8.24E-07	2.36E-07	5.88E-07	0.00E+00	8.24E-07	3.84E-08	8.89E-08	0.00E+00	1.27E-07	2.00E-08	3.39E-08	0.00E+00	5.39E-08
1604	599690	4175856	2.21E-07	5.49E-07	0.00E+00	7.70E-07	2.21E-07	5.49E-07	0.00E+00	7.70E-07	3.59E-08	8.31E-08	0.00E+00	1.19E-07	1.87E-08	3.17E-08	0.00E+00	5.04E-08
1605	599680.5	4175856	2.1E-07	5.22E-07	0.00E+00	7.31E-07	2.10E-07	5.22E-07	0.00E+00	7.31E-07	3.41E-08	7.89E-08	0.00E+00	1.13E-07	1.78E-08	3.01E-08	0.00E+00	4.79E-08
1606	599671	4175855	1.99E-07	4.97E-07	0.00E+00	6.96E-07	1.99E-07	4.97E-07	0.00E+00	6.96E-07	3.25E-08	7.51E-08	0.00E+00	1.08E-07	1.69E-08	2.86E-08	0.00E+00	4.56E-08
1607	599727.7	4175851	2.76E-07	6.87E-07	0.00E+00	9.63E-07	2.76E-07	6.87E-07	0.00E+00	9.63E-07	4.49E-08	1.04E-07	0.00E+00	1.49E-07	2.34E-08	3.96E-08	0.00E+00	6.31E-08
1608	599736.4	4175855	3.04E-07	7.58E-07	0.00E+00	1.06E-06	3.04E-07	7.58E-07	0.00E+00	1.06E-06	4.95E-08	1.15E-07	0.00E+00	1.64E-07	2.58E-08	4.37E-08	0.00E+00	6.95E-08
1609	599745.1	4175859	3.34E-07	8.33E-07	0.00E+00	1.17E-06	3.34E-07	8.33E-07	0.00E+00	1.17E-06	5.44E-08	1.26E-07	0.00E+00	1.80E-07	2.84E-08	4.80E-08	0.00E+00	7.64E-08
1610	599753.8	4175863	3.65E-07	9.09E-07	0.00E+00	1.27E-06	3.65E-07	9.09E-07	0.00E+00	1.27E-06	5.94E-08	1.37E-07	0.00E+00	1.97E-07	3.10E-08	5.24E-08	0.00E+00	8.34E-08
1611	599762.5	4175867	3.9E-07	9.70E-07	0.00E+00	1.36E-06	3.90E-07	9.70E-07	0.00E+00	1.36E-06	6.34E-08	1.47E-07	0.00E+00	2.10E-07	3.31E-08	5.59E-08	0.00E+00	8.90E-08
1612	599771.2	4175871	4.1E-07	1.02E-06	0.00E+00	1.43E-06	4.10E-07	1.02E-06	0.00E+00	1.43E-06	6.68E-08	1.55E-07	0.00E+00	2.21E-07	3.48E-08	5.89E-08	0.00E+00	9.37E-08
1613	599779.9	4175874	4.28E-07	1.07E-06	0.00E+00	1.50E-06	4.28E-07	1.07E-06	0.00E+00	1.50E-06	6.97E-08	1.61E-07	0.00E+00	2.31E-07	3.64E-08	6.15E-08	0.00E+00	9.79E-08
1614	599788.6	4175878	4.41E-07	1.10E-06	0.00E+00	1.54E-06	4.41E-07	1.10E-06	0.00E+00	1.54E-06	7.17E-08	1.66E-07	0.00E+00	2.38E-07	3.74E-08	6.32E-08	0.00E+00	1.01E-07
1615	599797.3	4175882	4.5E-07	1.12E-06	0.00E+00	1.57E-06	4.50E-07	1.12E-06	0.00E+00	1.57E-06	7.32E-08	1.70E-07	0.00E+00	2.43E-07	3.82E-08	6.46E-08	0.00E+00	1.03E-07
1616	599806	4175886	4.6E-07	1.14E-06	0.00E+00	1.60E-06	4.60E-07	1.14E-06	0.00E+00	1.60E-06	7.48E-08	1.73E-07	0.00E+00	2.48E-07	3.90E-08	6.60E-08	0.00E+00	1.05E-07
1617	599814.7	4175890	4.66E-07	1.16E-06	0.00E+00	1.63E-06	4.66E-07	1.16E-06	0.00E+00	1.63E-06	7.58E-08	1.75E-07	0.00E+00	2.51E-07	3.96E-08	6.69E-08	0.00E+00	1.06E-07
1618	599823.4	4175894	4.71E-07	1.17E-06	0.00E+00	1.64E-06	4.71E-07	1.17E-06	0.00E+00	1.64E-06	7.66E-08	1.77E-07	0.00E+00	2.54E-07	4.00E-08	6.76E-08	0.00E+00	1.08E-07
1619	599832.1	4175898	4.58E-07	1.14E-06	0.00E+00	1.60E-06	4.58E-07	1.14E-06	0.00E+00	1.60E-06	7.45E-08	1.72E-07	0.00E+00	2.47E-07	3.89E-08	6.57E-08	0.00E+00	1.05E-07
1620	599840.8	4175902	4.6E-07	1.14E-06	0.00E+00	1.60E-06	4.60E-07	1.14E-06	0.00E+00	1.60E-06	7.48E-08	1.73E-07	0.00E+00	2.48E-07	3.90E-08	6.59E-08	0.00E+00	1.05E-07
1621	599849.5	4175905	4.57E-07	1.14E-06	0.00E+00	1.60E-06	4.57E-07	1.14E-06	0.00E+00	1.60E-06	7.44E-08	1.72E-07	0.00E+00	2.47E-07	3.88E-08	6.56E-08	0.00E+00	1.04E-07
1622	599858.2	4175909	4.52E-07	1.13E-06	0.00E+00	1.58E-06	4.52E-07	1.13E-06	0.00E+00	1.58E-06	7.35E-08	1.70E-07	0.00E+00	2.44E-07	3.84E-08	6.49E-08	0.00E+00	1.03E-07
1623	599866.9	4175913	4.45E-07	1.11E-06	0.00E+00	1.55E-06	4.45E-07	1.11E-06	0.00E+00	1.55E-06	7.23E-08	1.67E-07	0.00E+00	2.40E-07	3.77E-08	6.38E-08	0.00E+00	1.02E-07
1624	599875.6	4175917	4.35E-07	1.08E-06	0.00E+00	1.52E-06	4.35E-07	1.08E-06	0.00E+00	1.52E-06	7.08E-08	1.64E-07	0.00E+00	2.35E-07	3.70E-08	6.25E-08	0.00E+00	9.94E-08
1625	599888.2	4175930	4.22E-07	1.05E-06	0.00E+00	1.47E-06	4.22E-07	1.05E-06	0.00E+00	1.47E-06	6.86E-08	1.59E-07	0.00E+00	2.28E-07	3.58E-08	6.06E-08	0.00E+00	9.64E-08
1626	599892	4175938	4.17E-07	1.04E-06	0.00E+00	1.46E-06	4.17E-07	1.04E-06	0.00E+00	1.46E-06	6.79E-08	1.57E-07	0.00E+00	2.25E-07	3.54E-08	5.99E-08	0.00E+00	9.53E-08
1627	599895.8	4175947	4.1E-07	1.02E-06	0.00E+00	1.43E-06	4.10E-07	1.02E-06	0.00E+00	1.43E-06	6.67E-08	1.54E-07	0.00E+00	2.21E-07	3.48E-08	5.89E-08	0.00E+00	9.37E-08
1628	599899.6	4175956	4.01E-07	9.99E-07	0.00E+00	1.40E-06	4.01E-07	9.99E-07	0.00E+00	1.40E-06	6.53E-08	1.51E-07	0.00E+00	2.16E-07	3.41E-08	5.76E-08	0.00E+00	9.17E-08
1629	599903.4	4175964	3.91E-07	9.73E-07	0.00E+00	1.36E-06	3.91E-07	9.73E-07	0.00E+00	1.36E-06	6.36E-08	1.47E-07	0.00E+00	2.11E-07	3.32E-08	5.61E-08	0.00E+00	8.93E-08
1630	599907.2	4175973	3.81E-07	9.48E-07	0.00E+00	1.33E-06	3.81E-07	9.48E-07	0.00E+00	1.33E-06	6.19E-08	1.43E-07	0.00E+00	2.05E-07	3.23E-08	5.46E-08	0.00E+00	8.70E-08
1631	599911.1	4175982	3.69E-07	9.20E-07	0.00E+00	1.29E-06	3.69E-07	9.20E-07	0.00E+00	1.29E-06	6.01E-08	1.39E-07	0.00E+00	1.99E-07	3.14E-08	5.30E-08	0.00E+00	8.44E-08
1632	599719	4175847	2.52E-07	6.28E-07	0.00E+00	8.81E-07	2.52E-07	6.28E-07	0.00E+00	8.81E-07	4.11E-08	9.50E-08	0.00E+00	1.36E-07	2.14E-08	3.62E-08	0.00E+00	5.76E-08
1633	599709.5	4175847	2.36E-07	5.87E-07	0.00E+00	8.22E-07	2.36E-07	5.87E-07	0.00E+00	8.22E-07	3.83E-08	8.87E-08	0.00E+00	1.27E-07	2.00E-08	3.38E-08	0.00E+00	5.38E-08
1634	599700	4175847	2.19E-07	5.45E-07	0.00E+00	7.64E-07	2.19E-07	5.45E-07	0.00E+00	7.64E-07	3.56E-08	8.24E-08	0.00E+00	1.18E-07	1.86E-08	3.14E-08	0.00E+00	5.00E-08
1635	599690.5	4175846	2.04E-07	5.08E-07	0.00E+00	7.12E-07	2.04E-07	5.08E-07	0.00E+00	7.12E-07	3.32E-08	7.68E-08	0.00E+00	1.10E-07	1.73E-08	2.93E-08	0.00E+00	4.66E-08
1636	599681	4175846	1.93E-07	4.81E-07	0.00E+00	6.74E-07	1.93E-07	4.81E-07	0.00E+00	6.74E-07	3.14E-08	7.28E-08	0.00E+00	1.04E-07	1.64E-08	2.77E-08	0.00E+00	4.41E-08
1637	599671.4	4175845	1.84E-07	4.57E-07	0.00E+00	6.41E-07	1.84E-07	4.57E-07	0.00E+00	6.41E-07	2.99E-08	6.91E-08	0.00E+00	9.90E-08	1.56E-08	2.63E-08	0.00E+00	4.19E-08
1638	599728.1	4175841	2.59E-07	6.46E-07	0.00E+00	9.05E-07	2.59E-07	6.46E-07	0.00E+00	9.05E-07	4.22E-08	9.76E-08	0.00E+00	1.40E-07	2.20E-08	3.72E-08	0.00E+00	5.92E-08
1639	599736.7	4175845	2.82E-07	7.03E-07	0.00E+00	9.85E-07	2.82E-07	7.03E-07	0.00E+00	9.85E-07	4.59E-08	1.06E-07	0.00E+00	1.52E-07	2.40E-08	4.05E-08	0.00E+00	6.44E-08
1640	599745.3	4175849	3.07E-07	7.66E-07	0.00E+00	1.07E-06	3.07E-07	7.66E-07	0.00E+00	1.07E-06	5.00E-08	1.16E-07	0.00E+00	1.66E-07	2.61E-08	4.41E-08	0.00E+00	7.02E-08
1641	599753.9	4175853	3.35E-07	8.33E-07	0.00E+00	1.17E-06	3.35E-07	8.33E-07	0.00E+00	1.17E-06	5.44E-08	1.26E-07	0.00E+00	1.80E-07	2.84E-08	4.80E-08	0.00E+00	7.64E-08
1642	599762.5	4175857	3.59E-07	8.95E-07	0.00E+00	1.25E-06	3.59E-07	8.95E-07	0.00E+00	1.25E-06	5.85E-08	1.35E-07	0.00E+00	1.94E-07	3.05E-08	5.16E-08	0.00E+00	8.21E-08
1643	599771.1	4175860	3.82E-07	9.52E-07	0.00E+00	1.33E-06	3.82E-07	9.52E-07	0.00E+00	1.33E-06	6.22E-08	1.44E-07	0.00E+00	2.06E-07	3.25E-08	5.49E-08	0.00E+00	8.73E-08
1644	599779.7	4175864	4.02E-07	1.00E-06	0.00E+00	1.40E-06	4.02E-07	1.00E-06	0.00E+00	1.40E-06	6.55E-08	1.51E-07	0.00E+00	2.17E-07	3.42E-08	5.77E-08	0.00E+00	9.19E-08
1645	599788.3	4175868	4.16E-07	1.04E-06	0.00E+00	1.45E-06	4.16E-07	1.04E-06	0.00E+00	1.45E-06	6.77E-08	1.57E-07	0.00E+00	2.24E-07	3.53E-08	5.97E-08	0.00E+00	9.50E-08
1646	599796.9	4175872	4.24E-07	1.06E-06	0.00E+00	1.48E-06	4.24E-07	1.06E-06	0.00E+00	1.48E-06	6.91E-08	1.60E-07	0.00E+00	2.29E-07	3.60E-08	6.09E-08	0.00E+00	9.70E-08
1647	599805.5	4175876	4.31E-07	1.07E-06	0.00E+00	1.50E-06	4.31E-07	1.07E-06	0.00E+00	1.50E-06	7.01E-08	1.62E-07	0.00E+00	2.32E-07	3.66E-08	6.18E-08	0.00E+00	9.84E-08

1648	599814.1	4175879	4.35E-07	1.08E-06	0.00E+00	1.52E-06	4.35E-07	1.08E-06	0.00E+00	1.52E-06	7.07E-08	1.64E-07	0.00E+00	2.34E-07	3.69E-08	6.24E-08	0.00E+00	9.93E-08
1649	599822.7	4175883	4.38E-07	1.09E-06	0.00E+00	1.53E-06	4.38E-07	1.09E-06	0.00E+00	1.53E-06	7.12E-08	1.65E-07	0.00E+00	2.36E-07	3.72E-08	6.28E-08	0.00E+00	9.99E-08
1650	599831.3	4175887	4.39E-07	1.09E-06	0.00E+00	1.53E-06	4.39E-07	1.09E-06	0.00E+00	1.53E-06	7.14E-08	1.65E-07	0.00E+00	2.37E-07	3.73E-08	6.30E-08	0.00E+00	1.00E-07
1651	599839.9	4175891	4.39E-07	1.09E-06	0.00E+00	1.53E-06	4.39E-07	1.09E-06	0.00E+00	1.53E-06	7.14E-08	1.65E-07	0.00E+00	2.37E-07	3.72E-08	6.30E-08	0.00E+00	1.00E-07
1652	599848.5	4175895	4.36E-07	1.09E-06	0.00E+00	1.52E-06	4.36E-07	1.09E-06	0.00E+00	1.52E-06	7.10E-08	1.64E-07	0.00E+00	2.35E-07	3.70E-08	6.26E-08	0.00E+00	9.97E-08
1653	599857	4175899	4.33E-07	1.08E-06	0.00E+00	1.51E-06	4.33E-07	1.08E-06	0.00E+00	1.51E-06	7.05E-08	1.63E-07	0.00E+00	2.34E-07	3.68E-08	6.22E-08	0.00E+00	9.90E-08
1654	599865.6	4175902	4.29E-07	1.07E-06	0.00E+00	1.50E-06	4.29E-07	1.07E-06	0.00E+00	1.50E-06	6.98E-08	1.62E-07	0.00E+00	2.31E-07	3.65E-08	6.16E-08	0.00E+00	9.81E-08
1655	599874.2	4175906	4.23E-07	1.05E-06	0.00E+00	1.48E-06	4.23E-07	1.05E-06	0.00E+00	1.48E-06	6.89E-08	1.59E-07	0.00E+00	2.28E-07	3.59E-08	6.08E-08	0.00E+00	9.67E-08
1656	599882.8	4175910	4.16E-07	1.04E-06	0.00E+00	1.45E-06	4.16E-07	1.04E-06	0.00E+00	1.45E-06	6.77E-08	1.57E-07	0.00E+00	2.24E-07	3.53E-08	5.97E-08	0.00E+00	9.50E-08
1657	599895.2	4175922	4.05E-07	1.01E-06	0.00E+00	1.41E-06	4.05E-07	1.01E-06	0.00E+00	1.41E-06	6.59E-08	1.52E-07	0.00E+00	2.18E-07	3.44E-08	5.81E-08	0.00E+00	9.25E-08
1658	599899	4175931	4.01E-07	9.98E-07	0.00E+00	1.40E-06	4.01E-07	9.98E-07	0.00E+00	1.40E-06	6.52E-08	1.51E-07	0.00E+00	2.16E-07	3.40E-08	5.75E-08	0.00E+00	9.16E-08
1659	599902.7	4175940	3.95E-07	9.83E-07	0.00E+00	1.38E-06	3.95E-07	9.83E-07	0.00E+00	1.38E-06	6.42E-08	1.49E-07	0.00E+00	2.13E-07	3.35E-08	5.66E-08	0.00E+00	9.02E-08
1660	599906.5	4175948	3.88E-07	9.66E-07	0.00E+00	1.35E-06	3.88E-07	9.66E-07	0.00E+00	1.35E-06	6.31E-08	1.46E-07	0.00E+00	2.09E-07	3.30E-08	5.57E-08	0.00E+00	8.86E-08
1661	599910.3	4175957	3.8E-07	9.47E-07	0.00E+00	1.33E-06	3.80E-07	9.47E-07	0.00E+00	1.33E-06	6.19E-08	1.43E-07	0.00E+00	2.05E-07	3.23E-08	5.46E-08	0.00E+00	8.68E-08
1662	599914.1	4175965	3.71E-07	9.24E-07	0.00E+00	1.29E-06	3.71E-07	9.24E-07	0.00E+00	1.29E-06	6.03E-08	1.40E-07	0.00E+00	2.00E-07	3.15E-08	5.32E-08	0.00E+00	8.47E-08
1663	599719.5	4175837	2.4E-07	5.97E-07	0.00E+00	8.37E-07	2.40E-07	5.97E-07	0.00E+00	8.37E-07	3.90E-08	9.03E-08	0.00E+00	1.29E-07	2.04E-08	3.44E-08	0.00E+00	5.48E-08
1664	599710	4175837	2.24E-07	5.57E-07	0.00E+00	7.81E-07	2.24E-07	5.57E-07	0.00E+00	7.81E-07	3.64E-08	8.43E-08	0.00E+00	1.21E-07	1.90E-08	3.21E-08	0.00E+00	5.11E-08
1665	599700.5	4175837	2.08E-07	5.18E-07	0.00E+00	7.26E-07	2.08E-07	5.18E-07	0.00E+00	7.26E-07	3.38E-08	7.83E-08	0.00E+00	1.12E-07	1.77E-08	2.99E-08	0.00E+00	4.75E-08
1666	599691	4175836	1.94E-07	4.83E-07	0.00E+00	6.76E-07	1.94E-07	4.83E-07	0.00E+00	6.76E-07	3.15E-08	7.30E-08	0.00E+00	1.04E-07	1.65E-08	2.78E-08	0.00E+00	4.43E-08
1667	599681.4	4175836	1.83E-07	4.55E-07	0.00E+00	6.37E-07	1.83E-07	4.55E-07	0.00E+00	6.37E-07	2.97E-08	6.87E-08	0.00E+00	9.84E-08	1.55E-08	2.62E-08	0.00E+00	4.17E-08
1668	599671.9	4175835	1.72E-07	4.29E-07	0.00E+00	6.02E-07	1.72E-07	4.29E-07	0.00E+00	6.02E-07	2.80E-08	6.49E-08	0.00E+00	9.29E-08	1.46E-08	2.47E-08	0.00E+00	3.94E-08
1669	599728.5	4175831	2.43E-07	6.05E-07	0.00E+00	8.48E-07	2.43E-07	6.05E-07	0.00E+00	8.48E-07	3.95E-08	9.15E-08	0.00E+00	1.31E-07	2.06E-08	3.49E-08	0.00E+00	5.55E-08
1670	599737	4175835	2.65E-07	6.60E-07	0.00E+00	9.25E-07	2.65E-07	6.60E-07	0.00E+00	9.25E-07	4.31E-08	9.98E-08	0.00E+00	1.43E-07	2.25E-08	3.80E-08	0.00E+00	6.05E-08
1671	599745.5	4175839	2.86E-07	7.11E-07	0.00E+00	9.97E-07	2.86E-07	7.11E-07	0.00E+00	9.97E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.10E-08	0.00E+00	6.52E-08
1672	599754	4175843	3.08E-07	7.67E-07	0.00E+00	1.08E-06	3.08E-07	7.67E-07	0.00E+00	1.08E-06	5.01E-08	1.16E-07	0.00E+00	1.66E-07	2.62E-08	4.42E-08	0.00E+00	7.04E-08
1673	599762.5	4175846	3.32E-07	8.27E-07	0.00E+00	1.16E-06	3.32E-07	8.27E-07	0.00E+00	1.16E-06	5.40E-08	1.25E-07	0.00E+00	1.79E-07	2.82E-08	4.76E-08	0.00E+00	7.58E-08
1674	599771	4175850	3.55E-07	8.83E-07	0.00E+00	1.24E-06	3.55E-07	8.83E-07	0.00E+00	1.24E-06	5.77E-08	1.34E-07	0.00E+00	1.91E-07	3.01E-08	5.09E-08	0.00E+00	8.10E-08
1675	599779.5	4175854	3.75E-07	9.35E-07	0.00E+00	1.31E-06	3.75E-07	9.35E-07	0.00E+00	1.31E-06	6.11E-08	1.41E-07	0.00E+00	2.02E-07	3.19E-08	5.39E-08	0.00E+00	8.57E-08
1676	599788	4175858	3.91E-07	9.74E-07	0.00E+00	1.37E-06	3.91E-07	9.74E-07	0.00E+00	1.37E-06	6.36E-08	1.47E-07	0.00E+00	2.11E-07	3.32E-08	5.61E-08	0.00E+00	8.93E-08
1677	599796.5	4175861	4.02E-07	1.00E-06	0.00E+00	1.40E-06	4.02E-07	1.00E-06	0.00E+00	1.40E-06	6.53E-08	1.51E-07	0.00E+00	2.17E-07	3.41E-08	5.76E-08	0.00E+00	9.17E-08
1678	599805	4175865	4.09E-07	1.02E-06	0.00E+00	1.43E-06	4.09E-07	1.02E-06	0.00E+00	1.43E-06	6.65E-08	1.54E-07	0.00E+00	2.20E-07	3.47E-08	5.87E-08	0.00E+00	9.34E-08
1679	599813.5	4175869	4.14E-07	1.03E-06	0.00E+00	1.44E-06	4.14E-07	1.03E-06	0.00E+00	1.44E-06	6.73E-08	1.56E-07	0.00E+00	2.23E-07	3.52E-08	5.94E-08	0.00E+00	9.46E-08
1680	599822	4175873	4.18E-07	1.04E-06	0.00E+00	1.46E-06	4.18E-07	1.04E-06	0.00E+00	1.46E-06	6.80E-08	1.57E-07	0.00E+00	2.25E-07	3.55E-08	6.00E-08	0.00E+00	9.54E-08
1681	599830.5	4175877	4.2E-07	1.05E-06	0.00E+00	1.47E-06	4.20E-07	1.05E-06	0.00E+00	1.47E-06	6.84E-08	1.58E-07	0.00E+00	2.27E-07	3.57E-08	6.03E-08	0.00E+00	9.60E-08
1682	599839	4175880	4.21E-07	1.05E-06	0.00E+00	1.47E-06	4.21E-07	1.05E-06	0.00E+00	1.47E-06	6.85E-08	1.59E-07	0.00E+00	2.27E-07	3.58E-08	6.05E-08	0.00E+00	9.62E-08
1683	599847.5	4175884	4.21E-07	1.05E-06	0.00E+00	1.47E-06	4.21E-07	1.05E-06	0.00E+00	1.47E-06	6.85E-08	1.58E-07	0.00E+00	2.27E-07	3.57E-08	6.04E-08	0.00E+00	9.61E-08
1684	599856	4175888	4.19E-07	1.04E-06	0.00E+00	1.46E-06	4.19E-07	1.04E-06	0.00E+00	1.46E-06	6.81E-08	1.58E-07	0.00E+00	2.26E-07	3.55E-08	6.01E-08	0.00E+00	9.56E-08
1685	599864.5	4175892	4.15E-07	1.03E-06	0.00E+00	1.45E-06	4.15E-07	1.03E-06	0.00E+00	1.45E-06	6.74E-08	1.56E-07	0.00E+00	2.24E-07	3.52E-08	5.95E-08	0.00E+00	9.47E-08
1686	599873	4175895	4.09E-07	1.02E-06	0.00E+00	1.43E-06	4.09E-07	1.02E-06	0.00E+00	1.43E-06	6.65E-08	1.54E-07	0.00E+00	2.21E-07	3.47E-08	5.87E-08	0.00E+00	9.34E-08
1687	599881.5	4175899	4.05E-07	1.01E-06	0.00E+00	1.41E-06	4.05E-07	1.01E-06	0.00E+00	1.41E-06	6.59E-08	1.53E-07	0.00E+00	2.18E-07	3.44E-08	5.81E-08	0.00E+00	9.26E-08
1688	599890	4175903	3.99E-07	9.94E-07	0.00E+00	1.39E-06	3.99E-07	9.94E-07	0.00E+00	1.39E-06	6.50E-08	1.50E-07	0.00E+00	2.15E-07	3.39E-08	5.73E-08	0.00E+00	9.12E-08
1689	599902.2	4175915	3.9E-07	9.72E-07	0.00E+00	1.36E-06	3.90E-07	9.72E-07	0.00E+00	1.36E-06	6.35E-08	1.47E-07	0.00E+00	2.10E-07	3.31E-08	5.60E-08	0.00E+00	8.91E-08
1690	599906	4175924	3.88E-07	9.65E-07	0.00E+00	1.35E-06	3.88E-07	9.65E-07	0.00E+00	1.35E-06	6.31E-08	1.46E-07	0.00E+00	2.09E-07	3.29E-08	5.56E-08	0.00E+00	8.86E-08
1691	599909.7	4175932	3.84E-07	9.56E-07	0.00E+00	1.34E-06	3.84E-07	9.56E-07	0.00E+00	1.34E-06	6.24E-08	1.45E-07	0.00E+00	2.07E-07	3.26E-08	5.51E-08	0.00E+00	8.77E-08
1692	599913.4	4175941	3.78E-07	9.42E-07	0.00E+00	1.32E-06	3.78E-07	9.42E-07	0.00E+00	1.32E-06	6.15E-08	1.42E-07	0.00E+00	2.04E-07	3.21E-08	5.43E-08	0.00E+00	8.64E-08
1693	599917.2	4175949	3.71E-07	9.24E-07	0.00E+00	1.29E-06	3.71E-07	9.24E-07	0.00E+00	1.29E-06	6.03E-08	1.40E-07	0.00E+00	2.00E-07	3.15E-08	5.32E-08	0.00E+00	8.47E-08
1694	599720	4175827	2.22E-07	5.53E-07	0.00E+00	7.74E-07	2.22E-07	5.53E-07	0.00E+00	7.74E-07	3.61E-08	8.35E-08	0.00E+00	1.20E-07	1.88E-08	3.18E-08	0.00E+00	5.07E-08
1695	599710.5	4175827	2.07E-07	5.15E-07	0.00E+00	7.22E-07	2.07E-07	5.15E-07	0.00E+00	7.22E-07	3.37E-08	7.79E-08	0.00E+00	1.12E-07	1.76E-08	2.97E-08	0.00E+00	4.73E-08
1696	599701	4175827	1.93E-07	4.79E-07	0.00E+00	6.72E-07	1.93E-07	4.79E-07	0.00E+00	6.72E-07	3.13E-08	7.25E-08	0.00E+00	1.04E-07	1.63E-08	2.76E-08	0.00E+00	4.40E-08
1697	599691.4	4175826	1.8E-07	4.47E-07	0.00E+00	6.26E-07	1.80E-07	4.47E-07	0.00E+00	6.26E-07	2.92E-08	6.76E-08	0.00E+00	9.68E-08	1.52E-08	2.58E-08	0.00E+00	4.10E-08
1698	599681.9	4175826	1.69E-07	4.22E-07	0.00E+00	5.91E-07	1.69E-07	4.22E-07	0.00E+00	5.91E-07	2.75E-08	6.37E-08	0.00E+00	9.13E-08	1.44E-08	2.43E-08	0.00E+00	3.87E-08
1699	599672.4	4175825	1.6E-07	3.99E-07	0.00E+00	5.60E-07	1.60E-07	3.99E-07	0.00E+00	5.60E-07	2.61E-08	6.04E-08	0.00E+00	8.65E-08	1.36E-08	2.30E-08	0.00E+00	3.66E-08
1700	599728.9	4175821	2.25E-07	5.59E-07	0.00E+00	7.84E-07	2.25E-07	5.59E-07	0.00E+00	7.84E-07	3.66E-08	8.46E-08	0.00E+00	1.21E-07	1.91E-08	3.22E-08	0.00E+00	5.13E-08
1701	599737.3	4175825	2.45E-07	6.10E-07	0.00E+00	8.54E-07	2.45E-07	6.10E-07	0.00E+00	8.54E-07	3.98E-08	9.22E-08	0.00E+00	1.32E-07	2.08E-08	3.51E-08	0.00E+00	5.59E-08
1702	599745.7	4175829	2.65E-07	6.61E-07	0.00E+00	9.26E-07	2.65E-07	6.61E-07	0.00E+00	9.26E-07	4.32E-08	9.99E-08	0.00E+00	1.43E-07	2.25E-08	3.81E-08	0.00E+00	6.06E-08
1703	599754.1	4175832	2.86E-07	7.12E-07	0.00E+00	9.97E-07	2.86E-07	7.12E-07	0.00E+00	9.97E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.10E-08	0.00E+00	6.53E-08
1704	599762.6	4175836	3.08E-07	7.68E-07	0.00E+00	1.08E-06	3.08E-07	7.68E-07	0.00E+00	1.08E-06	5.02E-08	1.16E-07	0.00E+00	1.66E-07	2.62E-08	4.43E-08	0.00E+00	7.05E-08
1705	599771	4175840	3.3E-07	8.23E-07	0.00E+00	1.15E-06	3.30E-07	8.23E-07	0.00E+00	1.15E-06	5.38E-08	1.24E-07	0.00E+00	1.78E-07	2.81E-08	4.74E-08	0.00E+00	7.55E-08
1706	599779.4	4175844	3.51E-07	8.74E-07	0.00E+00	1.23E-06	3.51E-07	8.74E-07	0.00E+00	1.23E-06	5.71E-08	1.32E-07	0.00E+00	1.89E-07	2.98E-08	5.04E-08	0.00E+00	8.02E-08
1707	599787.8	4175847	3.68E-07	9.16E-07	0.00E+00	1.28E-06	3.68E-07	9.16E-07	0.00E+00	1.28E-06	5.98E-08	1.38E-07	0.00E+00	1.98E-07	3.12E-08	5.28E-08	0.00E+00	8.40E-08
1708	599796.2	4175851	3.8E-07	9.46E-07	0.00E+00	1.33E-06	3.80E-07	9.46E-07	0.00E+00	1.33E-06	6.18E-08	1.43E-07	0.00E+00	2.05E-07	3.23E-08	5.45E-08	0.00E+00	8.68E-08
1709	599804.6	4175855	3.89E-07	9.69E-07	0.00E+00	1.36E-06	3.89E-07	9.69E-07	0.00E+00	1.36E-06	6.33E-08	1.47E-07	0.00E+00	2.10E-07	3.30E-08	5.59E-08	0.00E+00	8.89E-08
1710	599813	4175859	3.96E-07	9.85E-07	0.00E+00	1.38E-06	3.96E-07	9.85E-07	0.00E+00	1.38E-06	6.44E-08	1.49E-07	0.00E+00	2.13E-07	3.36E-08	5.68E-08	0.00E+00	9.04E-08
1711	599821.5	4175862	3.99E-07	9.94E-07	0.00E+00	1.39E-06	3.99E-07	9.94E-07	0.00E+00	1.39E-06	6.50E-08	1.50E-07	0.00E+00	2.15E-07	3.39E-08	5.73E-08	0.00E+00	9.12E-08
1712	599829.9	4175866	4.01E-07	9.98E-07	0.00E+00	1.40E-06	4.01E-07	9.98E-07	0.00E+00	1.40E-06	6.52E-08	1.51E-07	0.00E+00	2.16E-07	3.40E-08	5.75E-08	0.00E+00	9.15E-08
1713	599838.3	4175870	4.03E-07	1.00E-06	0.00E+00	1.40E-06	4.03E-07	1.00E-06	0.00E+00	1.40E-06	6.55E-08	1.52E-07	0.00E+00	2.17E-07	3.42E-08	5.78E-08	0.00E+00	9.20E-08
1714	599846.7	4175874	4.04E-07	1.01E-06	0.00E+00	1.41E-06	4.04E-07	1.01E-06	0.00E+00	1.41E-06	6.57E-08	1.52E-07	0.00E+00	2.18E-07	3.43E-08	5.79E-08	0.00E+00	9.22E-08
1715	599855.1	4175877	4.04E-07	1.01E-06	0.00E+00	1.41E-06	4.04E-07	1.01E-06	0.00E+00	1.41E-06	6.57E-08	1.52E-07	0.00E+00	2.18E-07	3.43E-08	5.80E-08	0.00E+00	9.23E-08
1716	599863.5	4175881	4.02E-07	1.00E-06	0.00E+00	1.40E-06	4.02E-07	1.00E-06	0.00E+00	1.40E-06	6.54E-08	1.51E-07	0.00E+00	2.17E-07	3.41E-08	5.77E-08	0.00E+00	9.19E-08
1717	599872	4175885	3.99E-07	9.93E-07	0.00E+00	1.39E-06	3.99E-07	9.93E-07	0.00E+00	1.39E-06	6.49E-08	1.50E-07	0.00E+00	2.15E-07	3.39E-08	5.72E-08	0.00E+00	9.11E-08
1718	599880.4	4175888	3.96E-07	9.85E-07	0.00E+00	1.38E-06	3.96E-07	9.85E-07	0.00E+00	1.38E-06	6.44E-08	1.49E-07	0.00E+00	2.13E-07	3.36E-08	5.68E-08	0.00E+00	9.04E-08
1719	599888.8	4175892	3.91E-07	9.75E-07	0.00E+00	1.37E-06	3.91E-07	9.75E-07	0.00E+00	1.37E-06	6.37E-08	1.47E-07	0.00E+00	2.11E-07	3.32E-08	5.62E-08	0.00E+00	8.94E-08
1720	599897.2	4175896	3.86E-07	9.60E-07	0.00E+00	1.35E-06	3.86E-07	9.60E-07	0.00E+00	1.35E-06	6.27E-08	1.45E-07	0.00E+00	2.08E-07	3.27E-08	5.53E-08	0.00E+00	8.81E-08
1721	599909.3	4175908	3.8E-07	9.45E-07	0.00E+00	1.33E-06	3.80E-07	9.45E-07	0.00E+00	1.33E-06	6.18E-08	1.43E-07	0.00E+00	2.05E-07	3.22E-08	5.45E-08	0.00E+00	8.67E-08
1722	599913	4175917	3.78E-07	9.41E-07	0.00E+00	1.32E-06	3.78E-07	9.41E-07	0.00E+00	1.32E-06	6.15E-08	1.42E-07	0.00E+00	2.04E-07	3.21E-08	5.42E-08	0.00E+00	8.63E-08
1723	599916.7	4175925	3.75E-07	9.33E-07	0.00E+00	1.31E-06	3.75E-07	9.33E-07	0.00E+00	1.31E-06	6.10E-08	1.41E-07	0.00E+00	2.02E-07	3.18E-08	5.38E-08	0.00E+00	8.56E-08
1724	599920.4	4175933	3.7E-07	9.20E-07	0.00E+00	1.29E-06	3.70E-07	9.20E-07	0.00E+00	1.29E-06	6.01E-08	1.39E-07	0.00E+00	1.99E-07	3.14E-08	5.30E-08	0.00E+00	8.44E-08
1725	599720.5	4175817	2.06E-07	5.13E-07	0.00E+00	7.18E-07	2.06E-07	5.13E-07	0.00E+00	7.18E-07	3.35E-08	7.75E-08	0.00E+00	1.11E-07	1.75E-08	2.95E-08	0.00E+00	4.70E-08
1726	599711	4175817	1.93E-07	4.79E-07	0.00E+00	6.72E-07	1.93E-07	4.79E-07	0.00E+00	6.72E-07	3.13E-08	7.25E-08	0.00E+00	1.04E-07	1.63E-08	2.76E-08	0.00E+00	4.40E-08
1727	599701.4	4175817	1.8E-07	4.48E-07	0.00E+00	6.28E-07	1.80E-07	4.48E-07	0.00E+00	6.28E-07	2.93E-08	6.78E-08	0.00E+00	9.71E-08	1.53E-08	2.58E-08	0.00E+00	4.11E-08
1728	599691.9	4175816	1.69E-07	4.20E-07	0.00E+00	5.89E-07	1.69E-07	4.20E-07	0.00E+00	5.89E-07	2.75E-08	6.36E-08	0.00E+00	9.10E-08	1.43E-08	2.42E-08	0.00E+00	3.86E-08
1729	599682.4	4175816	1.6E-07	3.97E-07	0.00E+00	5.57E-07	1.60E-07	3.97E-07	0.00E+00	5.57E-07	2.60E-08	6.01E-08	0.00E+00	8.60E-08	1.35E-08	2.29E-08	0.00E+00	3.64E-08
1730	599672.9	4175815	1.52E-07	3.78E-07	0.00E+00	5.29E-07	1.52E-07	3.78E-07	0.00E+00	5.29E-07	2.47E-08	5.71E-08	0.00E+00	8.18E-08	1.29E-08	2.18E-08	0.00E+00	3.47E-08
1731	599729.3	4175811	2.1E-07	5.24E-07	0.00E+00	7.34E-07	2.10E-07	5.24E-07	0.00E+00	7.34E-07	3.42E-08	7.92E-08	0.00E+00	1.13E-07	1.79E-08	3.02E-08	0.00E+00	4.80E-08
1732	599737.6	4175815	2.29E-07	5.70E-07	0.00E+00	7.99E-07	2.29E-07	5.70E-07	0.00E+00	7.99E-07	3.72E-08	8.62E-08	0.00E+00	1.23E-07	1.94E-08	3.28E-08	0.00E+00	5.23E-08
1733	599746	4175819	2.48E-07	6.18E-07	0.00E+00	8.66E-07	2.48E-07	6.18E-07	0.00E+00	8.66E-07	4.04E-08	9.34E-08	0.00E+00	1.34E-07	2.11E-08	3.56E-08	0.00E+00	5.67E-08
1734	599754.3	4175822	2.67E-07	6.66E-07	0.00E+00	9.33E-07	2.67E-07	6.66E-07	0.00E+00	9.33E-07	4.35E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.84E-08	0.00E+00	6.11E-08
1735	599762.6	4175826	2.87E-07	7.15E-07	0.00E+00	1.00E-06	2.87E-07	7.15E-07	0.00E+00	1.00E-06	4.67E-08	1.08E-07	0.00E+00	1.55E-07	2.44E-08	4.12E-08	0.00E+00	6.56E-08
1736	599771	4175830	3.08E-07	7.67E-07	0.00E+00	1.07E-06	3.08E-07	7.67E-07	0.00E+00	1.07E-06	5.01E-08	1.16E-07	0.00E+00	1.66E-07	2.62E-08	4.42E-08	0.00E+00	7.03E-08
1737	599779.3	4175833	3.29E-07	8.18E-07	0.00E+00	1.15E-06	3.29E-07	8.18E-07	0.00E+00	1.15E-06	5.35E-08	1.24E-07	0.00E+00	1.77E-07	2.79E-08	4.72E-08	0.00E+00	7.51E-08
1738	599787.7	4175837	3.47E-07	8.64E-07	0.00E+00	1.21E-06	3.47E-07	8.64E-07	0.00E+00	1.21E-06	5.64E-08	1.31E-07	0.00E+00	1.87E-07	2.95E-08	4.98E-08	0.00E+00	7.92E-08
1739	599796	4175841	3.6E-07	8.97E-07	0.00E+00	1.26E-06	3.60E-07	8.97E-07	0.00E+00	1.26E-06	5.86E-08	1.36E-07	0.00E+00	1.94E-07	3.06E-08	5.17E-08	0.00E+00	8.23E-08
1740	599804.3	4175845	3.71E-07	9.24E-07	0.00E+00	1.29E-06	3.71E-07	9.24E-07	0.00E+00	1.29E-06	6.04E-08	1.40E-07	0.00E+00	2.00E-07	3.15E-08	5.32E-08	0.00E+00	8.47E-08
1741	599812.7	4175848	3.79E-07	9.44E-07	0.00E+00	1.32E-06	3.79E-07	9.44E-07	0.00E+00	1.32E-06	6.17E-08	1.43E-07	0.00E+00	2.04E-07	3.22E-08	5.44E-08	0.00E+00	8.66E-08
1742	599821	4175852	3.85E-07	9.58E-07	0.00E+00	1.34E-06	3.85E-07	9.58E-07	0.00E+00	1.34E-06	6.26E-08	1.45E-07	0.00E+00	2.07E-07	3.27E-08	5.52E-08	0.00E+00	8.79E-08
1743	599829.3	4175856	3.88E-07	9.66E-07	0.00E+00	1.35E-06	3.88E-07	9.66E-07	0.00E+00	1.35E-06	6.31E-08	1.46E-07	0.00E+00	2.09E-07	3.29E-08	5.57E-08	0.00E+00	8.86E-08
1744	599837.7	4175859	3.89E-07	9.68E-07	0.00E+00	1.36E-06	3.89E-07	9.68E-07	0.00E+00	1.36E-06	6.32E-08	1.46E-07	0.00E+00	2.10E-07	3.30E-08	5.58E-08	0.00E+00	8.88E-08
1745	599846	4175863	3.88E-07	9.66E-07	0.00E+00	1.35E-06	3.88E-07	9.66E-07	0.00E+00	1.35E-06	6.31E-08	1.46E-07	0.00E+00	2.09E-07	3.29E-08	5.57E-08	0.00E+00	8.86E-08
1746	599854.3	4175867	3.88E-07	9.65E-07	0.00E+00	1.35E-06	3.88E-07	9.65E-07	0.00E+00	1.35E-06	6.31E-08	1.46E-07	0.00E+00	2.09E-07	3.29E-08	5.56E-08	0.00E+00	8.85E-08
1747	599862.7	4175870	3.88E-07	9.66E-07	0.00E+00	1.35E-06	3.88E-07	9.66E-07	0.00E+00	1.35E-06	6.31E-08	1.46E-07	0.00E+00	2.09E-07	3.29E-08	5.57E-08	0.00E+00	8.86E-08
1748	599871	4175874	3.87E-07	9.63E-07	0.00E+00	1.35E-06	3.87E-07	9.63E-07	0.00E+00	1.35E-06	6.29E-08	1.46E-07	0.00E+00	2.09E-07	3.28E-08	5.55E-08	0.00E+00	8.83E-08
1749	599879.4	4175878	3.86E-07	9.61E-07	0.00E+00	1.35E-06	3.86E-07	9.61E-07	0.00E+00	1.35E-06	6.28E-08	1.45E-07	0.00E+00	2.08E-07	3.28E-08	5.54E-08	0.00E+00	8.81E-08
1750	599887.7	4175882	3.84E-07	9.56E-07	0.00E+00	1.34E-06	3.84E-07	9.56E-07	0.00E+00	1.34E-06	6.25E-08	1.45E-07	0.00E+00	2.07E-07	3.26E-08	5.51E-08	0.00E+00	8.77E-08
1751	599896	4175885	3.81E-07	9.48E-07	0.00E+00	1.33E-06	3.81E-07	9.48E-07	0.00E+00	1.33E-06	6.19E-08	1.43E-07	0.00E+00	2.05E-07	3.23E-08	5.46E-08	0.00E+00	8.69E-08
1752	599904.4	4175889	3.76E-07	9.36E-07	0.00E+00	1.31E-06	3.76E-07	9.36E-07	0.00E+00	1.31E-06	6.11E-08	1.42E-07	0.00E+00	2.03E-07	3.19E-08	5.39E-08	0.00E+00	8.58E-08
1753	599916.4	4175901	3.71E-07	9.23E-07	0.00E+00	1.29E-06	3.71E-07	9.23E-07	0.00E+00	1.29E-06	6.03E-08	1.40E-07	0.00E+00	2.00E-07	3.15E-08	5.32E-08	0.00E+00	8.47E-08
1754	599920	4175909	3.69E-07	9.20E-07	0.00E+00	1.29E-06	3.69E-07	9.20E-07	0.00E+00	1.29E-06	6.01E-08	1.39E-07	0.00E+00	1.99E-07	3.14E-08	5.30E-08	0.00E+00	8.44E-08
1755	599923.7	4175918	3.67E-07	9.13E-07	0.00E+00	1.28E-06	3.67E-07	9.13E-07	0.00E+00	1.28E-06	5.96E-08	1.38E-07	0.00E+00	1.98E-07	3.11E-08	5.26E-08	0.00E+00	8.37E-08
1756	599927.3	4175926	3.62E-07	9.02E-07	0.00E+00	1.26E-06	3.62E-07	9.02E-07	0.00E+00	1.26E-06	5.89E-08	1.36E-07	0.00E+00	1.95E-07	3.08E-08	5.20E-08	0.00E+00	8.28E-08
1757	599721	4175807	1.93E-07	4.81E-07	0.00E+00	6.75E-07	1.93E-07	4.81E-07	0.00E+00	6.75E-07	3.14E-08	7.28E-08	0.00E+00	1.04E-07	1.64E-08	2.77E-08	0.00E+00	4.42E-08

1758	599711.4	4175807	1.82E-07	4.52E-07	0.00E+00	6.34E-07	1.82E-07	4.52E-07	0.00E+00	6.34E-07	2.96E-08	6.84E-08	0.00E+00	9.80E-08	1.54E-08	2.61E-08	0.00E+00	4.15E-08
1759	599701.9	4175807	1.71E-07	4.26E-07	0.00E+00	5.97E-07	1.71E-07	4.26E-07	0.00E+00	5.97E-07	2.78E-08	6.44E-08	0.00E+00	9.22E-08	1.45E-08	2.45E-08	0.00E+00	3.91E-08
1760	599692.4	4175806	1.61E-07	4.02E-07	0.00E+00	5.63E-07	1.61E-07	4.02E-07	0.00E+00	5.63E-07	2.62E-08	6.07E-08	0.00E+00	8.70E-08	1.37E-08	2.31E-08	0.00E+00	3.68E-08
1761	599682.9	4175806	1.53E-07	3.80E-07	0.00E+00	5.32E-07	1.53E-07	3.80E-07	0.00E+00	5.32E-07	2.48E-08	5.74E-08	0.00E+00	8.23E-08	1.30E-08	2.19E-08	0.00E+00	3.49E-08
1762	599673.3	4175805	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.45E-08	0.00E+00	7.81E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
1763	599730.1	4175801	1.95E-07	4.86E-07	0.00E+00	6.81E-07	1.95E-07	4.86E-07	0.00E+00	6.81E-07	3.18E-08	7.35E-08	0.00E+00	1.05E-07	1.66E-08	2.80E-08	0.00E+00	4.46E-08
1764	599738.7	4175805	2.18E-07	5.42E-07	0.00E+00	7.59E-07	2.18E-07	5.42E-07	0.00E+00	7.59E-07	3.54E-08	8.19E-08	0.00E+00	1.17E-07	1.85E-08	3.12E-08	0.00E+00	4.97E-08
1765	599747.3	4175809	2.37E-07	5.90E-07	0.00E+00	8.28E-07	2.37E-07	5.90E-07	0.00E+00	8.28E-07	3.86E-08	8.93E-08	0.00E+00	1.28E-07	2.01E-08	3.40E-08	0.00E+00	5.42E-08
1766	599755.9	4175813	2.56E-07	6.36E-07	0.00E+00	8.92E-07	2.56E-07	6.36E-07	0.00E+00	8.92E-07	4.16E-08	9.62E-08	0.00E+00	1.38E-07	2.17E-08	3.67E-08	0.00E+00	5.84E-08
1767	599764.6	4175817	2.74E-07	6.81E-07	0.00E+00	9.55E-07	2.74E-07	6.81E-07	0.00E+00	9.55E-07	4.45E-08	1.03E-07	0.00E+00	1.47E-07	2.32E-08	3.92E-08	0.00E+00	6.25E-08
1768	599773.2	4175820	2.93E-07	7.29E-07	0.00E+00	1.02E-06	2.93E-07	7.29E-07	0.00E+00	1.02E-06	4.76E-08	1.10E-07	0.00E+00	1.58E-07	2.48E-08	4.20E-08	0.00E+00	6.68E-08
1769	599781.8	4175824	3.12E-07	7.77E-07	0.00E+00	1.09E-06	3.12E-07	7.77E-07	0.00E+00	1.09E-06	5.08E-08	1.18E-07	0.00E+00	1.68E-07	2.65E-08	4.48E-08	0.00E+00	7.13E-08
1770	599790.4	4175828	3.3E-07	8.21E-07	0.00E+00	1.15E-06	3.30E-07	8.21E-07	0.00E+00	1.15E-06	5.36E-08	1.24E-07	0.00E+00	1.78E-07	2.80E-08	4.73E-08	0.00E+00	7.53E-08
1771	599799.1	4175832	3.45E-07	8.60E-07	0.00E+00	1.21E-06	3.45E-07	8.60E-07	0.00E+00	1.21E-06	5.62E-08	1.30E-07	0.00E+00	1.86E-07	2.93E-08	4.96E-08	0.00E+00	7.89E-08
1772	599807.7	4175836	3.59E-07	8.95E-07	0.00E+00	1.25E-06	3.59E-07	8.95E-07	0.00E+00	1.25E-06	5.85E-08	1.35E-07	0.00E+00	1.94E-07	3.05E-08	5.16E-08	0.00E+00	8.21E-08
1773	599816.3	4175840	3.68E-07	9.17E-07	0.00E+00	1.29E-06	3.68E-07	9.17E-07	0.00E+00	1.29E-06	5.99E-08	1.39E-07	0.00E+00	1.99E-07	3.13E-08	5.29E-08	0.00E+00	8.41E-08
1774	599824.9	4175843	3.75E-07	9.33E-07	0.00E+00	1.31E-06	3.75E-07	9.33E-07	0.00E+00	1.31E-06	6.09E-08	1.41E-07	0.00E+00	2.02E-07	3.18E-08	5.38E-08	0.00E+00	8.56E-08
1775	599833.6	4175847	3.78E-07	9.42E-07	0.00E+00	1.32E-06	3.78E-07	9.42E-07	0.00E+00	1.32E-06	6.15E-08	1.42E-07	0.00E+00	2.04E-07	3.21E-08	5.43E-08	0.00E+00	8.64E-08
1776	599842.2	4175851	3.79E-07	9.45E-07	0.00E+00	1.32E-06	3.79E-07	9.45E-07	0.00E+00	1.32E-06	6.17E-08	1.43E-07	0.00E+00	2.05E-07	3.22E-08	5.45E-08	0.00E+00	8.67E-08
1777	599850.8	4175855	3.79E-07	9.44E-07	0.00E+00	1.32E-06	3.79E-07	9.44E-07	0.00E+00	1.32E-06	6.17E-08	1.43E-07	0.00E+00	2.04E-07	3.22E-08	5.44E-08	0.00E+00	8.66E-08
1778	599859.4	4175859	3.78E-07	9.40E-07	0.00E+00	1.32E-06	3.78E-07	9.40E-07	0.00E+00	1.32E-06	6.14E-08	1.42E-07	0.00E+00	2.04E-07	3.21E-08	5.42E-08	0.00E+00	8.63E-08
1779	599868	4175863	3.75E-07	9.35E-07	0.00E+00	1.31E-06	3.75E-07	9.35E-07	0.00E+00	1.31E-06	6.11E-08	1.41E-07	0.00E+00	2.02E-07	3.19E-08	5.39E-08	0.00E+00	8.58E-08
1780	599876.7	4175866	3.74E-07	9.31E-07	0.00E+00	1.30E-06	3.74E-07	9.31E-07	0.00E+00	1.30E-06	6.08E-08	1.41E-07	0.00E+00	2.02E-07	3.17E-08	5.36E-08	0.00E+00	8.54E-08
1781	599885.3	4175870	3.75E-07	9.34E-07	0.00E+00	1.31E-06	3.75E-07	9.34E-07	0.00E+00	1.31E-06	6.10E-08	1.41E-07	0.00E+00	2.02E-07	3.18E-08	5.38E-08	0.00E+00	8.57E-08
1782	599893.9	4175874	3.74E-07	9.32E-07	0.00E+00	1.31E-06	3.74E-07	9.32E-07	0.00E+00	1.31E-06	6.09E-08	1.41E-07	0.00E+00	2.02E-07	3.18E-08	5.37E-08	0.00E+00	8.55E-08
1783	599902.5	4175878	3.72E-07	9.25E-07	0.00E+00	1.30E-06	3.72E-07	9.25E-07	0.00E+00	1.30E-06	6.04E-08	1.40E-07	0.00E+00	2.00E-07	3.16E-08	5.33E-08	0.00E+00	8.49E-08
1784	599911.2	4175882	3.68E-07	9.17E-07	0.00E+00	1.29E-06	3.68E-07	9.17E-07	0.00E+00	1.29E-06	5.99E-08	1.39E-07	0.00E+00	1.99E-07	3.13E-08	5.28E-08	0.00E+00	8.41E-08
1785	599923.6	4175894	3.63E-07	9.05E-07	0.00E+00	1.27E-06	3.63E-07	9.05E-07	0.00E+00	1.27E-06	5.91E-08	1.37E-07	0.00E+00	1.96E-07	3.09E-08	5.21E-08	0.00E+00	8.30E-08
1786	599927.4	4175903	3.62E-07	9.01E-07	0.00E+00	1.26E-06	3.62E-07	9.01E-07	0.00E+00	1.26E-06	5.89E-08	1.36E-07	0.00E+00	1.95E-07	3.07E-08	5.19E-08	0.00E+00	8.26E-08
1787	599931.1	4175912	3.59E-07	8.94E-07	0.00E+00	1.25E-06	3.59E-07	8.94E-07	0.00E+00	1.25E-06	5.84E-08	1.35E-07	0.00E+00	1.93E-07	3.05E-08	5.15E-08	0.00E+00	8.20E-08
1788	599721.4	4175797	1.74E-07	4.34E-07	0.00E+00	6.09E-07	1.74E-07	4.34E-07	0.00E+00	6.09E-07	2.84E-08	6.57E-08	0.00E+00	9.40E-08	1.48E-08	2.50E-08	0.00E+00	3.98E-08
1789	599711.9	4175797	1.63E-07	4.06E-07	0.00E+00	5.69E-07	1.63E-07	4.06E-07	0.00E+00	5.69E-07	2.65E-08	6.14E-08	0.00E+00	8.79E-08	1.38E-08	2.34E-08	0.00E+00	3.72E-08
1790	599702.4	4175797	1.53E-07	3.80E-07	0.00E+00	5.33E-07	1.53E-07	3.80E-07	0.00E+00	5.33E-07	2.48E-08	5.75E-08	0.00E+00	8.23E-08	1.30E-08	2.19E-08	0.00E+00	3.49E-08
1791	599692.9	4175796	1.43E-07	3.56E-07	0.00E+00	4.99E-07	1.43E-07	3.56E-07	0.00E+00	4.99E-07	2.33E-08	5.39E-08	0.00E+00	7.72E-08	1.22E-08	2.05E-08	0.00E+00	3.27E-08
1792	599683.4	4175796	1.35E-07	3.36E-07	0.00E+00	4.70E-07	1.35E-07	3.36E-07	0.00E+00	4.70E-07	2.19E-08	5.08E-08	0.00E+00	7.27E-08	1.14E-08	1.93E-08	0.00E+00	3.08E-08
1793	599673.8	4175795	1.28E-07	3.18E-07	0.00E+00	4.46E-07	1.28E-07	3.18E-07	0.00E+00	4.46E-07	2.08E-08	4.81E-08	0.00E+00	6.89E-08	1.09E-08	1.83E-08	0.00E+00	2.92E-08
1794	599730.5	4175791	1.77E-07	4.40E-07	0.00E+00	6.17E-07	1.77E-07	4.40E-07	0.00E+00	6.17E-07	2.88E-08	6.66E-08	0.00E+00	9.53E-08	1.50E-08	2.54E-08	0.00E+00	4.04E-08
1795	599739	4175795	1.99E-07	4.94E-07	0.00E+00	6.93E-07	1.99E-07	4.94E-07	0.00E+00	6.93E-07	3.23E-08	7.48E-08	0.00E+00	1.07E-07	1.69E-08	2.85E-08	0.00E+00	4.53E-08
1796	599747.5	4175799	2.21E-07	5.50E-07	0.00E+00	7.70E-07	2.21E-07	5.50E-07	0.00E+00	7.70E-07	3.59E-08	8.31E-08	0.00E+00	1.19E-07	1.87E-08	3.17E-08	0.00E+00	5.04E-08
1797	599756.1	4175803	2.41E-07	6.01E-07	0.00E+00	8.42E-07	2.41E-07	6.01E-07	0.00E+00	8.42E-07	3.93E-08	9.09E-08	0.00E+00	1.30E-07	2.05E-08	3.46E-08	0.00E+00	5.51E-08
1798	599764.6	4175806	2.59E-07	6.44E-07	0.00E+00	9.03E-07	2.59E-07	6.44E-07	0.00E+00	9.03E-07	4.21E-08	9.74E-08	0.00E+00	1.39E-07	2.20E-08	3.71E-08	0.00E+00	5.91E-08
1799	599773.2	4175810	2.75E-07	6.84E-07	0.00E+00	9.59E-07	2.75E-07	6.84E-07	0.00E+00	9.59E-07	4.47E-08	1.03E-07	0.00E+00	1.48E-07	2.33E-08	3.94E-08	0.00E+00	6.28E-08
1800	599781.7	4175814	2.92E-07	7.27E-07	0.00E+00	1.02E-06	2.92E-07	7.27E-07	0.00E+00	1.02E-06	4.75E-08	1.10E-07	0.00E+00	1.57E-07	2.48E-08	4.19E-08	0.00E+00	6.67E-08
1801	599790.2	4175818	3.08E-07	7.68E-07	0.00E+00	1.08E-06	3.08E-07	7.68E-07	0.00E+00	1.08E-06	5.02E-08	1.16E-07	0.00E+00	1.66E-07	2.62E-08	4.43E-08	0.00E+00	7.05E-08
1802	599798.8	4175822	3.24E-07	8.07E-07	0.00E+00	1.13E-06	3.24E-07	8.07E-07	0.00E+00	1.13E-06	5.27E-08	1.22E-07	0.00E+00	1.75E-07	2.75E-08	4.65E-08	0.00E+00	7.40E-08
1803	599807.3	4175825	3.38E-07	8.42E-07	0.00E+00	1.18E-06	3.38E-07	8.42E-07	0.00E+00	1.18E-06	5.50E-08	1.27E-07	0.00E+00	1.82E-07	2.87E-08	4.85E-08	0.00E+00	7.73E-08
1804	599815.9	4175829	3.51E-07	8.73E-07	0.00E+00	1.22E-06	3.51E-07	8.73E-07	0.00E+00	1.22E-06	5.70E-08	1.32E-07	0.00E+00	1.89E-07	2.98E-08	5.03E-08	0.00E+00	8.01E-08
1805	599824.4	4175833	3.61E-07	8.99E-07	0.00E+00	1.26E-06	3.61E-07	8.99E-07	0.00E+00	1.26E-06	5.87E-08	1.36E-07	0.00E+00	1.95E-07	3.07E-08	5.18E-08	0.00E+00	8.25E-08
1806	599832.9	4175837	3.69E-07	9.19E-07	0.00E+00	1.29E-06	3.69E-07	9.19E-07	0.00E+00	1.29E-06	6.01E-08	1.39E-07	0.00E+00	1.99E-07	3.14E-08	5.30E-08	0.00E+00	8.43E-08
1807	599841.5	4175841	3.72E-07	9.27E-07	0.00E+00	1.30E-06	3.72E-07	9.27E-07	0.00E+00	1.30E-06	6.05E-08	1.40E-07	0.00E+00	2.01E-07	3.16E-08	5.34E-08	0.00E+00	8.50E-08
1808	599850	4175844	3.72E-07	9.26E-07	0.00E+00	1.30E-06	3.72E-07	9.26E-07	0.00E+00	1.30E-06	6.05E-08	1.40E-07	0.00E+00	2.01E-07	3.16E-08	5.34E-08	0.00E+00	8.49E-08
1809	599858.6	4175848	3.71E-07	9.23E-07	0.00E+00	1.29E-06	3.71E-07	9.23E-07	0.00E+00	1.29E-06	6.03E-08	1.40E-07	0.00E+00	2.00E-07	3.15E-08	5.32E-08	0.00E+00	8.46E-08
1810	599867.1	4175852	3.69E-07	9.18E-07	0.00E+00	1.29E-06	3.69E-07	9.18E-07	0.00E+00	1.29E-06	6.00E-08	1.39E-07	0.00E+00	1.99E-07	3.13E-08	5.29E-08	0.00E+00	8.42E-08
1811	599875.6	4175856	3.67E-07	9.13E-07	0.00E+00	1.28E-06	3.67E-07	9.13E-07	0.00E+00	1.28E-06	5.97E-08	1.38E-07	0.00E+00	1.98E-07	3.11E-08	5.26E-08	0.00E+00	8.38E-08
1812	599884.2	4175860	3.67E-07	9.14E-07	0.00E+00	1.28E-06	3.67E-07	9.14E-07	0.00E+00	1.28E-06	5.97E-08	1.38E-07	0.00E+00	1.98E-07	3.12E-08	5.27E-08	0.00E+00	8.39E-08
1813	599892.7	4175863	3.67E-07	9.13E-07	0.00E+00	1.28E-06	3.67E-07	9.13E-07	0.00E+00	1.28E-06	5.97E-08	1.38E-07	0.00E+00	1.98E-07	3.11E-08	5.26E-08	0.00E+00	8.38E-08
1814	599901.3	4175867	3.66E-07	9.10E-07	0.00E+00	1.28E-06	3.66E-07	9.10E-07	0.00E+00	1.28E-06	5.95E-08	1.38E-07	0.00E+00	1.97E-07	3.10E-08	5.25E-08	0.00E+00	8.35E-08
1815	599909.8	4175871	3.64E-07	9.06E-07	0.00E+00	1.27E-06	3.64E-07	9.06E-07	0.00E+00	1.27E-06	5.92E-08	1.37E-07	0.00E+00	1.96E-07	3.09E-08	5.22E-08	0.00E+00	8.31E-08
1816	599918.3	4175875	3.61E-07	9.00E-07	0.00E+00	1.26E-06	3.61E-07	9.00E-07	0.00E+00	1.26E-06	5.88E-08	1.36E-07	0.00E+00	1.95E-07	3.07E-08	5.19E-08	0.00E+00	8.25E-08
1817	599930.6	4175887	3.57E-07	8.89E-07	0.00E+00	1.25E-06	3.57E-07	8.89E-07	0.00E+00	1.25E-06	5.81E-08	1.34E-07	0.00E+00	1.93E-07	3.03E-08	5.13E-08	0.00E+00	8.16E-08
1818	599934.4	4175896	3.55E-07	8.85E-07	0.00E+00	1.24E-06	3.55E-07	8.85E-07	0.00E+00	1.24E-06	5.78E-08	1.34E-07	0.00E+00	1.92E-07	3.02E-08	5.10E-08	0.00E+00	8.12E-08
1819	599721.9	4175788	1.57E-07	3.91E-07	0.00E+00	5.48E-07	1.57E-07	3.91E-07	0.00E+00	5.48E-07	2.55E-08	5.91E-08	0.00E+00	8.46E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
1820	599712.4	4175787	1.46E-07	3.64E-07	0.00E+00	5.10E-07	1.46E-07	3.64E-07	0.00E+00	5.10E-07	2.38E-08	5.51E-08	0.00E+00	7.88E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
1821	599702.9	4175787	1.36E-07	3.40E-07	0.00E+00	4.76E-07	1.36E-07	3.40E-07	0.00E+00	4.76E-07	2.22E-08	5.14E-08	0.00E+00	7.36E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
1822	599693.4	4175786	1.28E-07	3.18E-07	0.00E+00	4.46E-07	1.28E-07	3.18E-07	0.00E+00	4.46E-07	2.08E-08	4.81E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.92E-08
1823	599683.8	4175786	1.2E-07	2.99E-07	0.00E+00	4.19E-07	1.20E-07	2.99E-07	0.00E+00	4.19E-07	1.95E-08	4.52E-08	0.00E+00	6.48E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
1824	599731.3	4175771	1.48E-07	3.68E-07	0.00E+00	5.16E-07	1.48E-07	3.68E-07	0.00E+00	5.16E-07	2.40E-08	5.56E-08	0.00E+00	7.97E-08	1.25E-08	2.12E-08	0.00E+00	3.37E-08
1825	599739.7	4175775	1.69E-07	4.21E-07	0.00E+00	5.90E-07	1.69E-07	4.21E-07	0.00E+00	5.90E-07	2.75E-08	6.36E-08	0.00E+00	9.11E-08	1.44E-08	2.43E-08	0.00E+00	3.86E-08
1826	599748.1	4175779	1.91E-07	4.77E-07	0.00E+00	6.68E-07	1.91E-07	4.77E-07	0.00E+00	6.68E-07	3.11E-08	7.21E-08	0.00E+00	1.03E-07	1.63E-08	2.75E-08	0.00E+00	4.37E-08
1827	599756.4	4175782	2.11E-07	5.25E-07	0.00E+00	7.36E-07	2.11E-07	5.25E-07	0.00E+00	7.36E-07	3.43E-08	7.94E-08	0.00E+00	1.14E-07	1.79E-08	3.02E-08	0.00E+00	4.81E-08
1828	599764.8	4175786	2.24E-07	5.59E-07	0.00E+00	7.83E-07	2.24E-07	5.59E-07	0.00E+00	7.83E-07	3.65E-08	8.45E-08	0.00E+00	1.21E-07	1.91E-08	3.22E-08	0.00E+00	5.13E-08
1829	599773.2	4175790	2.39E-07	5.95E-07	0.00E+00	8.34E-07	2.39E-07	5.95E-07	0.00E+00	8.34E-07	3.89E-08	9.00E-08	0.00E+00	1.29E-07	2.03E-08	3.43E-08	0.00E+00	5.46E-08
1830	599781.6	4175794	2.54E-07	6.33E-07	0.00E+00	8.88E-07	2.54E-07	6.33E-07	0.00E+00	8.88E-07	4.14E-08	9.58E-08	0.00E+00	1.37E-07	2.16E-08	3.65E-08	0.00E+00	5.81E-08
1831	599790	4175797	2.7E-07	6.73E-07	0.00E+00	9.43E-07	2.70E-07	6.73E-07	0.00E+00	9.43E-07	4.39E-08	1.02E-07	0.00E+00	1.46E-07	2.29E-08	3.88E-08	0.00E+00	6.17E-08
1832	599798.4	4175801	2.86E-07	7.11E-07	0.00E+00	9.97E-07	2.86E-07	7.11E-07	0.00E+00	9.97E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.10E-08	0.00E+00	6.53E-08
1833	599806.8	4175805	3.01E-07	7.49E-07	0.00E+00	1.05E-06	3.01E-07	7.49E-07	0.00E+00	1.05E-06	4.89E-08	1.13E-07	0.00E+00	1.62E-07	2.55E-08	4.32E-08	0.00E+00	6.87E-08
1834	599815.2	4175809	3.13E-07	7.80E-07	0.00E+00	1.09E-06	3.13E-07	7.80E-07	0.00E+00	1.09E-06	5.10E-08	1.18E-07	0.00E+00	1.69E-07	2.66E-08	4.50E-08	0.00E+00	7.16E-08
1835	599823.6	4175812	3.22E-07	8.03E-07	0.00E+00	1.13E-06	3.22E-07	8.03E-07	0.00E+00	1.13E-06	5.25E-08	1.21E-07	0.00E+00	1.74E-07	2.74E-08	4.63E-08	0.00E+00	7.36E-08
1836	599832	4175816	3.31E-07	8.24E-07	0.00E+00	1.16E-06	3.31E-07	8.24E-07	0.00E+00	1.16E-06	5.39E-08	1.25E-07	0.00E+00	1.79E-07	2.81E-08	4.75E-08	0.00E+00	7.56E-08
1837	599840.4	4175820	3.39E-07	8.44E-07	0.00E+00	1.18E-06	3.39E-07	8.44E-07	0.00E+00	1.18E-06	5.52E-08	1.28E-07	0.00E+00	1.83E-07	2.88E-08	4.87E-08	0.00E+00	7.74E-08
1838	599848.8	4175823	3.46E-07	8.62E-07	0.00E+00	1.21E-06	3.46E-07	8.62E-07	0.00E+00	1.21E-06	5.63E-08	1.30E-07	0.00E+00	1.87E-07	2.94E-08	4.97E-08	0.00E+00	7.90E-08
1839	599857.1	4175827	3.51E-07	8.73E-07	0.00E+00	1.22E-06	3.51E-07	8.73E-07	0.00E+00	1.22E-06	5.70E-08	1.32E-07	0.00E+00	1.89E-07	2.98E-08	5.03E-08	0.00E+00	8.01E-08
1840	599865.5	4175831	3.53E-07	8.79E-07	0.00E+00	1.23E-06	3.53E-07	8.79E-07	0.00E+00	1.23E-06	5.74E-08	1.33E-07	0.00E+00	1.90E-07	3.00E-08	5.07E-08	0.00E+00	8.06E-08
1841	599873.9	4175835	3.54E-07	8.81E-07	0.00E+00	1.23E-06	3.54E-07	8.81E-07	0.00E+00	1.23E-06	5.75E-08	1.33E-07	0.00E+00	1.91E-07	3.00E-08	5.08E-08	0.00E+00	8.08E-08
1842	599882.3	4175838	3.56E-07	8.86E-07	0.00E+00	1.24E-06	3.56E-07	8.86E-07	0.00E+00	1.24E-06	5.79E-08	1.34E-07	0.00E+00	1.92E-07	3.02E-08	5.11E-08	0.00E+00	8.13E-08
1843	599890.7	4175842	3.57E-07	8.88E-07	0.00E+00	1.24E-06	3.57E-07	8.88E-07	0.00E+00	1.24E-06	5.80E-08	1.34E-07	0.00E+00	1.92E-07	3.03E-08	5.12E-08	0.00E+00	8.14E-08
1844	599899.1	4175846	3.56E-07	8.88E-07	0.00E+00	1.24E-06	3.56E-07	8.88E-07	0.00E+00	1.24E-06	5.80E-08	1.34E-07	0.00E+00	1.92E-07	3.03E-08	5.12E-08	0.00E+00	8.14E-08
1845	599907.5	4175850	3.56E-07	8.87E-07	0.00E+00	1.24E-06	3.56E-07	8.87E-07	0.00E+00	1.24E-06	5.80E-08	1.34E-07	0.00E+00	1.92E-07	3.02E-08	5.11E-08	0.00E+00	8.14E-08
1846	599915.9	4175853	3.56E-07	8.85E-07	0.00E+00	1.24E-06	3.56E-07	8.85E-07	0.00E+00	1.24E-06	5.78E-08	1.34E-07	0.00E+00	1.92E-07	3.02E-08	5.10E-08	0.00E+00	8.12E-08
1847	599924.3	4175857	3.54E-07	8.81E-07	0.00E+00	1.24E-06	3.54E-07	8.81E-07	0.00E+00	1.24E-06	5.76E-08	1.33E-07	0.00E+00	1.91E-07	3.00E-08	5.08E-08	0.00E+00	8.08E-08
1848	599932.7	4175861	3.51E-07	8.74E-07	0.00E+00	1.23E-06	3.51E-07	8.74E-07	0.00E+00	1.23E-06	5.71E-08	1.32E-07	0.00E+00	1.89E-07	2.98E-08	5.04E-08	0.00E+00	8.02E-08
1849	599722.9	4175768	1.3E-07	3.23E-07	0.00E+00	4.53E-07	1.30E-07	3.23E-07	0.00E+00	4.53E-07	2.11E-08	4.88E-08	0.00E+00	6.99E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
1850	599713.4	4175767	1.2E-07	2.99E-07	0.00E+00	4.19E-07	1.20E-07	2.99E-07	0.00E+00	4.19E-07	1.95E-08	4.52E-08	0.00E+00	6.48E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
1851	599732.4	4175751	1.25E-07	3.12E-07	0.00E+00	4.37E-07	1.25E-07	3.12E-07	0.00E+00	4.37E-07	2.04E-08	4.72E-08	0.00E+00	6.76E-08	1.06E-08	1.80E-08	0.00E+00	2.86E-08
1852	599741	4175755	1.43E-07	3.56E-07	0.00E+00	4.98E-07	1.43E-07	3.56E-07	0.00E+00	4.98E-07	2.32E-08	5.38E-08	0.00E+00	7.70E-08	1.21E-08	2.05E-08	0.00E+00	3.26E-08
1853	599749.6	4175759	1.63E-07	4.06E-07	0.00E+00	5.69E-07	1.63E-07	4.06E-07	0.00E+00	5.69E-07	2.65E-08	6.14E-08	0.00E+00	8.79E-08	1.38E-08	2.34E-08	0.00E+00	3.72E-08
1854	599758.1	4175763	1.83E-07	4.56E-07	0.00E+00	6.38E-07	1.83E-07	4.56E-07	0.00E+00	6.38E-07	2.98E-08	6.89E-08	0.00E+00	9.86E-08	1.55E-08	2.63E-08	0.00E+00	4.18E-08
1855	599766.7	4175767	2E-07	4.97E-07	0.00E+00	6.97E-07	2.00E-07	4.97E-07	0.00E+00	6.97E-07	3.25E-08	7.52E-08	0.00E+00	1.08E-07	1.69E-08	2.86E-08	0.00E+00	4.56E-08
1856	599775.3	4175770	2.15E-07	5.35E-07	0.00E+00	7.49E-07	2.15E-07	5.35E-07	0.00E+00	7.49E-07	3.49E-08	8.08E-08	0.00E+00	1.16E-07	1.82E-08	3.08E-08	0.00E+00	4.90E-08
1857	599783.8	4175774	2.28E-07	5.67E-07	0.00E+00	7.94E-07	2.28E-07	5.67E-07	0.00E+00	7.94E-07	3.70E-08	8.57E-08	0.00E+00	1.23E-07	1.93E-08	3.27E-08	0.00E+00	5.20E-08
1858	599792.4	4175778	2.4E-07	5.98E-07	0.00E+00	8.39E-07	2.40E-07	5.98E-07	0.00E+00	8.39E-07	3.91E-08	9.05E-08	0.00E+00	1.30E-07	2.04E-08	3.45E-08	0.00E+00	5.49E-08
1859	599801	4175782	2.54E-07	6.33E-07	0.00E+00	8.87E-07	2.54E-07	6.33E-07	0.00E+00	8.87E-07	4.13E-08	9.57E-08	0.00E+00	1.37E-07	2.16E-08	3.65E-08	0.00E+00	5.80E-08
1860	599809.5	4175786	2.68E-07	6.67E-07	0.00E+00	9.35E-07	2.68E-07	6.67E-07	0.00E+00	9.35E-07	4.36E-08	1.01E-07	0.00E+00	1.44E-07	2.28E-08	3.85E-08	0.00E+00	6.12E-08
1861	599818.1	4175789	2.81E-07	6.99E-07	0.00E+00	9.80E-07	2.81E-07	6.99E-07	0.00E+00	9.80E-07	4.57E-08	1.06E-07	0.00E+00	1.51E-07	2.38E-08	4.03E-08	0.00E+00	6.41E-08
1862	599826.7	4175793	2.92E-07	7.26E-07	0.00E+00	1.02E-06	2.92E-07	7.26E-07	0.00E+00	1.02E-06	4.74E-08	1.10E-07	0.00E+00	1.57E-07	2.48E-08	4.18E-08	0.00E+00	6.66E-08
1863	599835.3	4175797	3E-07	7.48E-07	0.00E+00	1.05E-06	3.00E-07	7.48E-07	0.00E+00	1.05E-06	4.89E-08	1.13E-07	0.00E+00	1.62E-07	2.55E-08	4.31E-08	0.00E+00	6.86E-08
1864	599843.8	4175801	3.08E-07	7.66E-07	0.00E+00	1.07E-06	3.08E-07	7.66E-07	0.00E+00	1.07E-06	5.01E-08	1.16E-07	0.00E+00	1.66E-07	2.61E-08	4.42E-08	0.00E+00	7.03E-08
1865	599852.4	4175805	3.16E-07	7.87E-07	0.00E+00	1.10E-06	3.16E-07	7.87E-07	0.00E+00	1.10E-06	5.14E-08	1.19E-07	0.00E+00	1.71E-07	2.69E-08	4.54E-08	0.00E+00	7.22E-08
1866	599861	4175808	3.23E-07	8.05E-07	0.00E+00	1.13E-06	3.23E-07	8.05E-07	0.00E+00	1.13E-06	5.26E-08	1.22E-07	0.00E+00	1.74E-07	2.75E-08	4.64E-08	0.00E+00	7.39E-08
1867	599869.5	4175812	3.29E-07	8.19E-07	0.00E+00	1.15E-06	3.29E-07	8.19E-07	0.00E+00	1.15E-06	5.35E-08	1.24E-07	0.00E+00	1.77E-07	2.79E-08	4.72E-08	0.00E+00	7.51E-08

1868	599878.1	4175816	3.34E-07	8.31E-07	0.00E+00	1.17E-06	3.34E-07	8.31E-07	0.00E+00	1.17E-06	5.43E-08	1.26E-07	0.00E+00	1.80E-07	2.83E-08	4.79E-08	0.00E+00	7.63E-08
1869	599886.7	4175820	3.39E-07	8.44E-07	0.00E+00	1.18E-06	3.39E-07	8.44E-07	0.00E+00	1.18E-06	5.51E-08	1.28E-07	0.00E+00	1.83E-07	2.88E-08	4.86E-08	0.00E+00	7.74E-08
1870	599895.2	4175824	3.43E-07	8.53E-07	0.00E+00	1.20E-06	3.43E-07	8.53E-07	0.00E+00	1.20E-06	5.57E-08	1.29E-07	0.00E+00	1.85E-07	2.91E-08	4.92E-08	0.00E+00	7.83E-08
1871	599903.8	4175827	3.45E-07	8.59E-07	0.00E+00	1.20E-06	3.45E-07	8.59E-07	0.00E+00	1.20E-06	5.61E-08	1.30E-07	0.00E+00	1.86E-07	2.93E-08	4.95E-08	0.00E+00	7.88E-08
1872	599912.4	4175831	3.47E-07	8.65E-07	0.00E+00	1.21E-06	3.47E-07	8.65E-07	0.00E+00	1.21E-06	5.65E-08	1.31E-07	0.00E+00	1.87E-07	2.95E-08	4.99E-08	0.00E+00	7.94E-08
1873	599921	4175835	3.5E-07	8.72E-07	0.00E+00	1.22E-06	3.50E-07	8.72E-07	0.00E+00	1.22E-06	5.70E-08	1.32E-07	0.00E+00	1.89E-07	2.97E-08	5.03E-08	0.00E+00	8.00E-08
1874	599929.5	4175839	3.5E-07	8.73E-07	0.00E+00	1.22E-06	3.50E-07	8.73E-07	0.00E+00	1.22E-06	5.70E-08	1.32E-07	0.00E+00	1.89E-07	2.98E-08	5.03E-08	0.00E+00	8.00E-08
1875	599938.1	4175843	3.42E-07	8.51E-07	0.00E+00	1.19E-06	3.42E-07	8.51E-07	0.00E+00	1.19E-06	5.56E-08	1.29E-07	0.00E+00	1.84E-07	2.90E-08	4.90E-08	0.00E+00	7.80E-08
1876	599946.7	4175847	3.28E-07	8.18E-07	0.00E+00	1.15E-06	3.28E-07	8.18E-07	0.00E+00	1.15E-06	5.34E-08	1.24E-07	0.00E+00	1.77E-07	2.79E-08	4.71E-08	0.00E+00	7.50E-08
1877	599723.8	4175748	1.24E-07	3.10E-07	0.00E+00	4.34E-07	1.24E-07	3.10E-07	0.00E+00	4.34E-07	2.03E-08	4.69E-08	0.00E+00	6.71E-08	1.06E-08	1.79E-08	0.00E+00	2.84E-08
1878	599714.3	4175747	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.33E-08	0.00E+00	6.21E-08	9.77E-09	1.65E-08	0.00E+00	2.63E-08
1879	599733.2	4175731	1.16E-07	2.89E-07	0.00E+00	4.06E-07	1.16E-07	2.89E-07	0.00E+00	4.06E-07	1.89E-08	4.38E-08	0.00E+00	6.27E-08	9.87E-09	1.67E-08	0.00E+00	2.66E-08
1880	599741.7	4175735	1.31E-07	3.26E-07	0.00E+00	4.57E-07	1.31E-07	3.26E-07	0.00E+00	4.57E-07	2.13E-08	4.93E-08	0.00E+00	7.06E-08	1.11E-08	1.88E-08	0.00E+00	2.99E-08
1881	599750.1	4175739	1.34E-07	3.33E-07	0.00E+00	4.67E-07	1.34E-07	3.33E-07	0.00E+00	4.67E-07	2.17E-08	5.03E-08	0.00E+00	7.21E-08	1.14E-08	1.92E-08	0.00E+00	3.05E-08
1882	599758.5	4175743	1.55E-07	3.85E-07	0.00E+00	5.39E-07	1.55E-07	3.85E-07	0.00E+00	5.39E-07	2.51E-08	5.82E-08	0.00E+00	8.33E-08	1.31E-08	2.22E-08	0.00E+00	3.53E-08
1883	599767	4175746	1.78E-07	4.43E-07	0.00E+00	6.20E-07	1.78E-07	4.43E-07	0.00E+00	6.20E-07	2.89E-08	6.69E-08	0.00E+00	9.58E-08	1.51E-08	2.55E-08	0.00E+00	4.06E-08
1884	599775.4	4175750	1.98E-07	4.92E-07	0.00E+00	6.89E-07	1.98E-07	4.92E-07	0.00E+00	6.89E-07	3.21E-08	7.44E-08	0.00E+00	1.06E-07	1.68E-08	2.83E-08	0.00E+00	4.51E-08
1885	599783.8	4175754	2.16E-07	5.37E-07	0.00E+00	7.52E-07	2.16E-07	5.37E-07	0.00E+00	7.52E-07	3.51E-08	8.12E-08	0.00E+00	1.16E-07	1.83E-08	3.09E-08	0.00E+00	4.92E-08
1886	599792.3	4175758	2.24E-07	5.57E-07	0.00E+00	7.81E-07	2.24E-07	5.57E-07	0.00E+00	7.81E-07	3.64E-08	8.43E-08	0.00E+00	1.21E-07	1.90E-08	3.21E-08	0.00E+00	5.11E-08
1887	599800.7	4175761	2.33E-07	5.80E-07	0.00E+00	8.12E-07	2.33E-07	5.80E-07	0.00E+00	8.12E-07	3.79E-08	8.76E-08	0.00E+00	1.26E-07	1.98E-08	3.34E-08	0.00E+00	5.32E-08
1888	599809.2	4175765	2.42E-07	6.04E-07	0.00E+00	8.46E-07	2.42E-07	6.04E-07	0.00E+00	8.46E-07	3.94E-08	9.13E-08	0.00E+00	1.31E-07	2.06E-08	3.48E-08	0.00E+00	5.54E-08
1889	599817.6	4175769	2.52E-07	6.29E-07	0.00E+00	8.81E-07	2.52E-07	6.29E-07	0.00E+00	8.81E-07	4.11E-08	9.51E-08	0.00E+00	1.36E-07	2.14E-08	3.62E-08	0.00E+00	5.77E-08
1890	599826	4175773	2.63E-07	6.54E-07	0.00E+00	9.16E-07	2.63E-07	6.54E-07	0.00E+00	9.16E-07	4.27E-08	9.89E-08	0.00E+00	1.42E-07	2.23E-08	3.77E-08	0.00E+00	6.00E-08
1891	599834.5	4175776	2.73E-07	6.79E-07	0.00E+00	9.51E-07	2.73E-07	6.79E-07	0.00E+00	9.51E-07	4.43E-08	1.03E-07	0.00E+00	1.47E-07	2.31E-08	3.91E-08	0.00E+00	6.23E-08
1892	599842.9	4175780	2.82E-07	7.02E-07	0.00E+00	9.84E-07	2.82E-07	7.02E-07	0.00E+00	9.84E-07	4.59E-08	1.06E-07	0.00E+00	1.52E-07	2.39E-08	4.05E-08	0.00E+00	6.44E-08
1893	599851.3	4175784	2.93E-07	7.30E-07	0.00E+00	1.02E-06	2.93E-07	7.30E-07	0.00E+00	1.02E-06	4.77E-08	1.10E-07	0.00E+00	1.58E-07	2.49E-08	4.20E-08	0.00E+00	6.69E-08
1894	599859.8	4175788	3.02E-07	7.53E-07	0.00E+00	1.06E-06	3.02E-07	7.53E-07	0.00E+00	1.06E-06	4.92E-08	1.14E-07	0.00E+00	1.63E-07	2.57E-08	4.34E-08	0.00E+00	6.91E-08
1895	599868.2	4175791	3.1E-07	7.71E-07	0.00E+00	1.08E-06	3.10E-07	7.71E-07	0.00E+00	1.08E-06	5.04E-08	1.17E-07	0.00E+00	1.67E-07	2.63E-08	4.44E-08	0.00E+00	7.07E-08
1896	599876.6	4175795	3.16E-07	7.87E-07	0.00E+00	1.10E-06	3.16E-07	7.87E-07	0.00E+00	1.10E-06	5.14E-08	1.19E-07	0.00E+00	1.70E-07	2.68E-08	4.54E-08	0.00E+00	7.22E-08
1897	599885.1	4175799	3.22E-07	8.03E-07	0.00E+00	1.13E-06	3.22E-07	8.03E-07	0.00E+00	1.13E-06	5.25E-08	1.21E-07	0.00E+00	1.74E-07	2.74E-08	4.63E-08	0.00E+00	7.37E-08
1898	599893.5	4175803	3.27E-07	8.14E-07	0.00E+00	1.14E-06	3.27E-07	8.14E-07	0.00E+00	1.14E-06	5.32E-08	1.23E-07	0.00E+00	1.76E-07	2.77E-08	4.69E-08	0.00E+00	7.46E-08
1899	599901.9	4175806	3.29E-07	8.20E-07	0.00E+00	1.15E-06	3.29E-07	8.20E-07	0.00E+00	1.15E-06	5.35E-08	1.24E-07	0.00E+00	1.77E-07	2.79E-08	4.72E-08	0.00E+00	7.52E-08
1900	599910.4	4175810	3.31E-07	8.23E-07	0.00E+00	1.15E-06	3.31E-07	8.23E-07	0.00E+00	1.15E-06	5.38E-08	1.24E-07	0.00E+00	1.78E-07	2.81E-08	4.75E-08	0.00E+00	7.55E-08
1901	599918.8	4175814	3.32E-07	8.26E-07	0.00E+00	1.16E-06	3.32E-07	8.26E-07	0.00E+00	1.16E-06	5.40E-08	1.25E-07	0.00E+00	1.79E-07	2.82E-08	4.76E-08	0.00E+00	7.58E-08
1902	599927.2	4175818	3.33E-07	8.30E-07	0.00E+00	1.16E-06	3.33E-07	8.30E-07	0.00E+00	1.16E-06	5.42E-08	1.26E-07	0.00E+00	1.80E-07	2.83E-08	4.78E-08	0.00E+00	7.61E-08
1903	599935.7	4175821	3.32E-07	8.28E-07	0.00E+00	1.16E-06	3.32E-07	8.28E-07	0.00E+00	1.16E-06	5.41E-08	1.25E-07	0.00E+00	1.79E-07	2.82E-08	4.77E-08	0.00E+00	7.59E-08
1904	599944.1	4175825	3.22E-07	8.03E-07	0.00E+00	1.13E-06	3.22E-07	8.03E-07	0.00E+00	1.13E-06	5.25E-08	1.21E-07	0.00E+00	1.74E-07	2.74E-08	4.63E-08	0.00E+00	7.37E-08
1905	599952.6	4175829	3.11E-07	7.74E-07	0.00E+00	1.08E-06	3.11E-07	7.74E-07	0.00E+00	1.08E-06	5.06E-08	1.17E-07	0.00E+00	1.68E-07	2.64E-08	4.46E-08	0.00E+00	7.10E-08
1906	599724.8	4175728	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.70E-08	3.93E-08	0.00E+00	5.62E-08	8.85E-09	1.50E-08	0.00E+00	2.38E-08
1907	599715.3	4175727	9.71E-08	2.42E-07	0.00E+00	3.39E-07	9.71E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.66E-08	0.00E+00	5.24E-08	8.25E-09	1.39E-08	0.00E+00	2.22E-08
1908	599734.3	4175711	9.59E-08	2.39E-07	0.00E+00	3.35E-07	9.59E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.61E-08	0.00E+00	5.17E-08	8.14E-09	1.38E-08	0.00E+00	2.19E-08
1909	599742.9	4175715	1.06E-07	2.65E-07	0.00E+00	3.72E-07	1.06E-07	2.65E-07	0.00E+00	3.72E-07	1.73E-08	4.01E-08	0.00E+00	5.74E-08	9.04E-09	1.53E-08	0.00E+00	2.43E-08
1910	599751.5	4175719	1.19E-07	2.96E-07	0.00E+00	4.14E-07	1.19E-07	2.96E-07	0.00E+00	4.14E-07	1.93E-08	4.47E-08	0.00E+00	6.40E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
1911	599760.1	4175723	1.25E-07	3.11E-07	0.00E+00	4.35E-07	1.25E-07	3.11E-07	0.00E+00	4.35E-07	2.03E-08	4.70E-08	0.00E+00	6.72E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
1912	599768.7	4175727	1.47E-07	3.67E-07	0.00E+00	5.15E-07	1.47E-07	3.67E-07	0.00E+00	5.15E-07	2.40E-08	5.55E-08	0.00E+00	7.95E-08	1.25E-08	2.12E-08	0.00E+00	3.37E-08
1913	599777.3	4175731	1.73E-07	4.31E-07	0.00E+00	6.04E-07	1.73E-07	4.31E-07	0.00E+00	6.04E-07	2.81E-08	6.51E-08	0.00E+00	9.32E-08	1.47E-08	2.48E-08	0.00E+00	3.95E-08
1914	599785.9	4175734	1.97E-07	4.91E-07	0.00E+00	6.88E-07	1.97E-07	4.91E-07	0.00E+00	6.88E-07	3.21E-08	7.42E-08	0.00E+00	1.06E-07	1.67E-08	2.83E-08	0.00E+00	4.50E-08
1915	599794.5	4175738	2.12E-07	5.28E-07	0.00E+00	7.39E-07	2.12E-07	5.28E-07	0.00E+00	7.39E-07	3.45E-08	7.98E-08	0.00E+00	1.14E-07	1.80E-08	3.04E-08	0.00E+00	4.84E-08
1916	599803.1	4175742	2.24E-07	5.58E-07	0.00E+00	7.82E-07	2.24E-07	5.58E-07	0.00E+00	7.82E-07	3.64E-08	8.44E-08	0.00E+00	1.21E-07	1.90E-08	3.22E-08	0.00E+00	5.12E-08
1917	599811.7	4175746	2.33E-07	5.81E-07	0.00E+00	8.14E-07	2.33E-07	5.81E-07	0.00E+00	8.14E-07	3.79E-08	8.78E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.33E-08
1918	599820.3	4175750	2.41E-07	6.00E-07	0.00E+00	8.41E-07	2.41E-07	6.00E-07	0.00E+00	8.41E-07	3.92E-08	9.08E-08	0.00E+00	1.30E-07	2.05E-08	3.46E-08	0.00E+00	5.51E-08
1919	599828.9	4175753	2.49E-07	6.21E-07	0.00E+00	8.70E-07	2.49E-07	6.21E-07	0.00E+00	8.70E-07	4.05E-08	9.38E-08	0.00E+00	1.34E-07	2.12E-08	3.58E-08	0.00E+00	5.69E-08
1920	599837.5	4175757	2.58E-07	6.42E-07	0.00E+00	8.99E-07	2.58E-07	6.42E-07	0.00E+00	8.99E-07	4.19E-08	9.70E-08	0.00E+00	1.39E-07	2.19E-08	3.70E-08	0.00E+00	5.89E-08
1921	599846.1	4175761	2.67E-07	6.65E-07	0.00E+00	9.32E-07	2.67E-07	6.65E-07	0.00E+00	9.32E-07	4.35E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.83E-08	0.00E+00	6.10E-08
1922	599854.7	4175765	2.79E-07	6.95E-07	0.00E+00	9.74E-07	2.79E-07	6.95E-07	0.00E+00	9.74E-07	4.54E-08	1.05E-07	0.00E+00	1.51E-07	2.37E-08	4.01E-08	0.00E+00	6.38E-08
1923	599863.3	4175769	2.9E-07	7.23E-07	0.00E+00	1.01E-06	2.90E-07	7.23E-07	0.00E+00	1.01E-06	4.72E-08	1.09E-07	0.00E+00	1.57E-07	2.47E-08	4.17E-08	0.00E+00	6.63E-08
1924	599871.9	4175772	3.01E-07	7.49E-07	0.00E+00	1.05E-06	3.01E-07	7.49E-07	0.00E+00	1.05E-06	4.89E-08	1.13E-07	0.00E+00	1.62E-07	2.55E-08	4.31E-08	0.00E+00	6.87E-08
1925	599880.5	4175776	3.13E-07	7.78E-07	0.00E+00	1.09E-06	3.13E-07	7.78E-07	0.00E+00	1.09E-06	5.09E-08	1.18E-07	0.00E+00	1.69E-07	2.65E-08	4.49E-08	0.00E+00	7.14E-08
1926	599889.1	4175780	3.22E-07	8.01E-07	0.00E+00	1.12E-06	3.22E-07	8.01E-07	0.00E+00	1.12E-06	5.23E-08	1.21E-07	0.00E+00	1.73E-07	2.73E-08	4.61E-08	0.00E+00	7.35E-08
1927	599897.7	4175784	3.28E-07	8.17E-07	0.00E+00	1.15E-06	3.28E-07	8.17E-07	0.00E+00	1.15E-06	5.34E-08	1.24E-07	0.00E+00	1.77E-07	2.79E-08	4.71E-08	0.00E+00	7.50E-08
1928	599906.2	4175788	3.3E-07	8.20E-07	0.00E+00	1.15E-06	3.30E-07	8.20E-07	0.00E+00	1.15E-06	5.36E-08	1.24E-07	0.00E+00	1.78E-07	2.80E-08	4.73E-08	0.00E+00	7.53E-08
1929	599914.8	4175792	3.24E-07	8.07E-07	0.00E+00	1.13E-06	3.24E-07	8.07E-07	0.00E+00	1.13E-06	5.27E-08	1.22E-07	0.00E+00	1.75E-07	2.75E-08	4.65E-08	0.00E+00	7.40E-08
1930	599923.4	4175795	3.2E-07	7.97E-07	0.00E+00	1.12E-06	3.20E-07	7.97E-07	0.00E+00	1.12E-06	5.21E-08	1.20E-07	0.00E+00	1.73E-07	2.72E-08	4.59E-08	0.00E+00	7.31E-08
1931	599932	4175799	3.17E-07	7.89E-07	0.00E+00	1.11E-06	3.17E-07	7.89E-07	0.00E+00	1.11E-06	5.16E-08	1.19E-07	0.00E+00	1.71E-07	2.69E-08	4.55E-08	0.00E+00	7.24E-08
1932	599940.6	4175803	3.13E-07	7.80E-07	0.00E+00	1.09E-06	3.13E-07	7.80E-07	0.00E+00	1.09E-06	5.10E-08	1.18E-07	0.00E+00	1.69E-07	2.66E-08	4.50E-08	0.00E+00	7.16E-08
1933	599949.2	4175807	3.08E-07	7.68E-07	0.00E+00	1.08E-06	3.08E-07	7.68E-07	0.00E+00	1.08E-06	5.02E-08	1.16E-07	0.00E+00	1.66E-07	2.62E-08	4.43E-08	0.00E+00	7.04E-08
1934	599957.8	4175811	3.02E-07	7.52E-07	0.00E+00	1.05E-06	3.02E-07	7.52E-07	0.00E+00	1.05E-06	4.91E-08	1.14E-07	0.00E+00	1.63E-07	2.56E-08	4.33E-08	0.00E+00	6.89E-08
1935	599725.8	4175708	8.69E-08	2.16E-07	0.00E+00	3.03E-07	8.69E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.69E-08	7.38E-09	1.25E-08	0.00E+00	1.99E-08
1936	599716.2	4175707	8.3E-08	2.07E-07	0.00E+00	2.90E-07	8.30E-08	2.07E-07	0.00E+00	2.90E-07	1.35E-08	3.12E-08	0.00E+00	4.47E-08	7.04E-09	1.19E-08	0.00E+00	1.90E-08
1937	599706.7	4175707	8.02E-08	2.00E-07	0.00E+00	2.80E-07	8.02E-08	2.00E-07	0.00E+00	2.80E-07	1.30E-08	3.02E-08	0.00E+00	4.32E-08	6.81E-09	1.15E-08	0.00E+00	1.83E-08
1938	599697.2	4175706	7.83E-08	1.95E-07	0.00E+00	2.73E-07	7.83E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.95E-08	0.00E+00	4.22E-08	6.65E-09	1.12E-08	0.00E+00	1.79E-08
1939	599743.7	4175695	8.59E-08	2.14E-07	0.00E+00	3.00E-07	8.59E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.24E-08	0.00E+00	4.63E-08	7.30E-09	1.23E-08	0.00E+00	1.96E-08
1940	599752.1	4175699	9.49E-08	2.36E-07	0.00E+00	3.31E-07	9.49E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.12E-08	8.06E-09	1.36E-08	0.00E+00	2.17E-08
1941	599760.6	4175703	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.52E-08	8.69E-09	1.47E-08	0.00E+00	2.34E-08
1942	599769.1	4175706	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.30E-08	9.93E-09	1.68E-08	0.00E+00	2.67E-08
1943	599777.5	4175710	1.4E-07	3.50E-07	0.00E+00	4.90E-07	1.40E-07	3.50E-07	0.00E+00	4.90E-07	2.29E-08	5.29E-08	0.00E+00	7.58E-08	1.19E-08	2.02E-08	0.00E+00	3.21E-08
1944	599786	4175714	1.69E-07	4.20E-07	0.00E+00	5.88E-07	1.69E-07	4.20E-07	0.00E+00	5.88E-07	2.74E-08	6.34E-08	0.00E+00	9.09E-08	1.43E-08	2.42E-08	0.00E+00	3.85E-08
1945	599794.5	4175718	1.92E-07	4.78E-07	0.00E+00	6.69E-07	1.92E-07	4.78E-07	0.00E+00	6.69E-07	3.12E-08	7.22E-08	0.00E+00	1.03E-07	1.63E-08	2.75E-08	0.00E+00	4.38E-08
1946	599803	4175721	2.11E-07	5.25E-07	0.00E+00	7.36E-07	2.11E-07	5.25E-07	0.00E+00	7.36E-07	3.43E-08	7.94E-08	0.00E+00	1.14E-07	1.79E-08	3.03E-08	0.00E+00	4.82E-08
1947	599811.4	4175725	2.28E-07	5.67E-07	0.00E+00	7.95E-07	2.28E-07	5.67E-07	0.00E+00	7.95E-07	3.70E-08	8.57E-08	0.00E+00	1.23E-07	1.93E-08	3.27E-08	0.00E+00	5.20E-08
1948	599819.9	4175729	2.35E-07	5.85E-07	0.00E+00	8.21E-07	2.35E-07	5.85E-07	0.00E+00	8.21E-07	3.83E-08	8.85E-08	0.00E+00	1.27E-07	2.00E-08	3.37E-08	0.00E+00	5.37E-08
1949	599828.4	4175733	2.41E-07	5.99E-07	0.00E+00	8.40E-07	2.41E-07	5.99E-07	0.00E+00	8.40E-07	3.91E-08	9.06E-08	0.00E+00	1.30E-07	2.04E-08	3.45E-08	0.00E+00	5.50E-08
1950	599836.8	4175737	2.47E-07	6.14E-07	0.00E+00	8.61E-07	2.47E-07	6.14E-07	0.00E+00	8.61E-07	4.01E-08	9.28E-08	0.00E+00	1.33E-07	2.09E-08	3.54E-08	0.00E+00	5.63E-08
1951	599845.3	4175740	2.54E-07	6.32E-07	0.00E+00	8.86E-07	2.54E-07	6.32E-07	0.00E+00	8.86E-07	4.13E-08	9.56E-08	0.00E+00	1.37E-07	2.16E-08	3.64E-08	0.00E+00	5.80E-08
1952	599853.8	4175744	2.65E-07	6.59E-07	0.00E+00	9.24E-07	2.65E-07	6.59E-07	0.00E+00	9.24E-07	4.31E-08	9.97E-08	0.00E+00	1.43E-07	2.25E-08	3.80E-08	0.00E+00	6.05E-08
1953	599862.2	4175748	2.76E-07	6.86E-07	0.00E+00	9.62E-07	2.76E-07	6.86E-07	0.00E+00	9.62E-07	4.48E-08	1.04E-07	0.00E+00	1.49E-07	2.34E-08	3.96E-08	0.00E+00	6.30E-08
1954	599870.7	4175752	2.86E-07	7.12E-07	0.00E+00	9.97E-07	2.86E-07	7.12E-07	0.00E+00	9.97E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.10E-08	0.00E+00	6.53E-08
1955	599879.2	4175755	2.94E-07	7.33E-07	0.00E+00	1.03E-06	2.94E-07	7.33E-07	0.00E+00	1.03E-06	4.79E-08	1.11E-07	0.00E+00	1.59E-07	2.50E-08	4.22E-08	0.00E+00	6.72E-08
1956	599887.7	4175759	3.03E-07	7.54E-07	0.00E+00	1.06E-06	3.03E-07	7.54E-07	0.00E+00	1.06E-06	4.93E-08	1.14E-07	0.00E+00	1.63E-07	2.57E-08	4.35E-08	0.00E+00	6.92E-08
1957	599896.1	4175763	3.13E-07	7.79E-07	0.00E+00	1.09E-06	3.13E-07	7.79E-07	0.00E+00	1.09E-06	5.09E-08	1.18E-07	0.00E+00	1.69E-07	2.66E-08	4.49E-08	0.00E+00	7.14E-08
1958	599904.6	4175767	3.22E-07	8.01E-07	0.00E+00	1.12E-06	3.22E-07	8.01E-07	0.00E+00	1.12E-06	5.24E-08	1.21E-07	0.00E+00	1.74E-07	2.73E-08	4.62E-08	0.00E+00	7.35E-08
1959	599913.1	4175770	3.19E-07	7.94E-07	0.00E+00	1.11E-06	3.19E-07	7.94E-07	0.00E+00	1.11E-06	5.19E-08	1.20E-07	0.00E+00	1.72E-07	2.71E-08	4.58E-08	0.00E+00	7.28E-08
1960	599921.5	4175774	3.15E-07	7.86E-07	0.00E+00	1.10E-06	3.15E-07	7.86E-07	0.00E+00	1.10E-06	5.13E-08	1.19E-07	0.00E+00	1.70E-07	2.68E-08	4.53E-08	0.00E+00	7.21E-08
1961	599930	4175778	3.1E-07	7.72E-07	0.00E+00	1.08E-06	3.10E-07	7.72E-07	0.00E+00	1.08E-06	5.05E-08	1.17E-07	0.00E+00	1.67E-07	2.63E-08	4.45E-08	0.00E+00	7.09E-08
1962	599938.5	4175782	3.07E-07	7.64E-07	0.00E+00	1.07E-06	3.07E-07	7.64E-07	0.00E+00	1.07E-06	4.99E-08	1.16E-07	0.00E+00	1.66E-07	2.61E-08	4.41E-08	0.00E+00	7.01E-08
1963	599947	4175785	3.05E-07	7.59E-07	0.00E+00	1.06E-06	3.05E-07	7.59E-07	0.00E+00	1.06E-06	4.96E-08	1.15E-07	0.00E+00	1.64E-07	2.59E-08	4.37E-08	0.00E+00	6.96E-08
1964	599955.4	4175789	3.01E-07	7.50E-07	0.00E+00	1.05E-06	3.01E-07	7.50E-07	0.00E+00	1.05E-06	4.90E-08	1.13E-07	0.00E+00	1.62E-07	2.56E-08	4.32E-08	0.00E+00	6.88E-08
1965	599963.9	4175793	2.97E-07	7.40E-07	0.00E+00	1.04E-06	2.97E-07	7.40E-07	0.00E+00	1.04E-06	4.83E-08	1.12E-07	0.00E+00	1.60E-07	2.52E-08	4.26E-08	0.00E+00	6.79E-08
1966	599972.4	4175797	2.97E-07	7.40E-07	0.00E+00	1.04E-06	2.97E-07	7.40E-07	0.00E+00	1.04E-06	4.84E-08	1.12E-07	0.00E+00	1.60E-07	2.52E-08	4.27E-08	0.00E+00	6.79E-08
1967	599779.4	4175691	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.77E-08	4.10E-08	0.00E+00	5.87E-08	9.25E-09	1.56E-08	0.00E+00	2.49E-08
1968	599788	4175694	1.3E-07	3.24E-07	0.00E+00	4.54E-07	1.30E-07	3.24E-07	0.00E+00	4.54E-07	2.12E-08	4.90E-08	0.00E+00	7.01E-08	1.10E-08	1.87E-08	0.00E+00	2.97E-08
1969	599796.6	4175698	1.55E-07	3.86E-07	0.00E+00	5.40E-07	1.55E-07	3.86E-07	0.00E+00	5.40E-07	2.52E-08	5.83E-08	0.00E+00	8.35E-08	1.31E-08	2.22E-08	0.00E+00	3.54E-08
1970	599805.2	4175702	1.82E-07	4.54E-07	0.00E+00	6.36E-07	1.82E-07	4.54E-07	0.00E+00	6.36E-07	2.97E-08	6.86E-08	0.00E+00	9.83E-08	1.55E-08	2.62E-08	0.00E+00	4.16E-08
1971	599813.8	4175706	2.11E-07	5.26E-07	0.00E+00	7.37E-07	2.11E-07	5.26E-07	0.00E+00	7.37E-07	3.44E-08	7.95E-08	0.00E+00	1.14E-07	1.79E-08	3.03E-08	0.00E+00	4.83E-08
1972	599822.4	4175710	2.25E-07	5.61E-07	0.00E+00	7.87E-07	2.25E-07	5.61E-07	0.00E+00	7.87E-07	3.67E-08	8.49E-08	0.00E+00	1.22E-07	1.91E-08	3.24E-08	0.00E+00	5.15E-08
1973	599831.1	4175714	2.38E-07	5.92E-07	0.00E+00	8.29E-07	2.38E-07	5.92E-07	0.00E+00	8.29E-07	3.87E-08	8.95E-08	0.00E+00	1.28E-07	2.02E-08	3.41E-08	0.00E+00	5.43E-08
1974	599839.7	4175717	2.46E-07	6.12E-07	0.00E+00	8.57E-07	2.46E-07	6.12E-07	0.00E+00	8.57E-07	4.00E-08	9.25E-08	0.00E+00	1.32E-07	2.09E-08	3.52E-08	0.00E+00	5.61E-08
1975	599848.3	4175721	2.53E-07	6.30E-07	0.00E+00	8.83E-07	2.53E-07	6.30E-07	0.00E+00	8.83E-07	4.11E-08	9.52E-08	0.00E+00	1.36E-07	2.15E-08	3.63E-08	0.00E+00	5.78E-08
1976	599856.9	4175725	2.63E-07	6.54E-07	0.00E+00	9.16E-07	2.63E-07	6.54E-07	0.00E+00	9.16E-07	4.27E-08	9.88E-08	0.00E+00	1.42E-07	2.23E-08	3.77E-08	0.00E+00	6.00E-08
1977	599865.5	4175729	2.72E-07	6.78E-07	0.00E+00	9.50E-07	2.72E-07	6.78E-07	0.00E+00	9.50E-07	4.43E-08	1.03E-07	0.00E+00	1.47E-07	2.31E-08	3.91E-08	0.00E+00	6.22E-08

1978	599874.1	4175733	2.81E-07	7.01E-07	0.00E+00	9.82E-07	2.81E-07	7.01E-07	0.00E+00	9.82E-07	4.58E-08	1.06E-07	0.00E+00	1.52E-07	2.39E-08	4.04E-08	0.00E+00	6.43E-08
1979	599882.7	4175737	2.83E-07	7.04E-07	0.00E+00	9.86E-07	2.83E-07	7.04E-07	0.00E+00	9.86E-07	4.60E-08	1.06E-07	0.00E+00	1.52E-07	2.40E-08	4.05E-08	0.00E+00	6.45E-08
1980	599891.4	4175740	2.86E-07	7.12E-07	0.00E+00	9.98E-07	2.86E-07	7.12E-07	0.00E+00	9.98E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.10E-08	0.00E+00	6.53E-08
1981	599900	4175744	2.91E-07	7.25E-07	0.00E+00	1.02E-06	2.91E-07	7.25E-07	0.00E+00	1.02E-06	4.74E-08	1.10E-07	0.00E+00	1.57E-07	2.47E-08	4.18E-08	0.00E+00	6.65E-08
1982	599908.6	4175748	2.93E-07	7.29E-07	0.00E+00	1.02E-06	2.93E-07	7.29E-07	0.00E+00	1.02E-06	4.77E-08	1.10E-07	0.00E+00	1.58E-07	2.49E-08	4.20E-08	0.00E+00	6.69E-08
1983	599917.2	4175752	2.91E-07	7.25E-07	0.00E+00	1.02E-06	2.91E-07	7.25E-07	0.00E+00	1.02E-06	4.73E-08	1.10E-07	0.00E+00	1.57E-07	2.47E-08	4.18E-08	0.00E+00	6.65E-08
1984	599925.8	4175756	2.89E-07	7.19E-07	0.00E+00	1.01E-06	2.89E-07	7.19E-07	0.00E+00	1.01E-06	4.70E-08	1.09E-07	0.00E+00	1.56E-07	2.45E-08	4.14E-08	0.00E+00	6.60E-08
1985	599934.4	4175759	2.87E-07	7.16E-07	0.00E+00	1.00E-06	2.87E-07	7.16E-07	0.00E+00	1.00E-06	4.68E-08	1.08E-07	0.00E+00	1.55E-07	2.44E-08	4.13E-08	0.00E+00	6.57E-08
1986	599943	4175763	2.93E-07	7.31E-07	0.00E+00	1.02E-06	2.93E-07	7.31E-07	0.00E+00	1.02E-06	4.77E-08	1.10E-07	0.00E+00	1.58E-07	2.49E-08	4.21E-08	0.00E+00	6.70E-08
1987	599951.7	4175767	2.97E-07	7.39E-07	0.00E+00	1.04E-06	2.97E-07	7.39E-07	0.00E+00	1.04E-06	4.83E-08	1.12E-07	0.00E+00	1.60E-07	2.52E-08	4.26E-08	0.00E+00	6.77E-08
1988	599960.3	4175771	2.97E-07	7.41E-07	0.00E+00	1.04E-06	2.97E-07	7.41E-07	0.00E+00	1.04E-06	4.84E-08	1.12E-07	0.00E+00	1.60E-07	2.53E-08	4.27E-08	0.00E+00	6.79E-08
1989	599968.9	4175775	2.98E-07	7.41E-07	0.00E+00	1.04E-06	2.98E-07	7.41E-07	0.00E+00	1.04E-06	4.84E-08	1.12E-07	0.00E+00	1.60E-07	2.53E-08	4.27E-08	0.00E+00	6.80E-08
1990	599977.5	4175779	2.97E-07	7.40E-07	0.00E+00	1.04E-06	2.97E-07	7.40E-07	0.00E+00	1.04E-06	4.83E-08	1.12E-07	0.00E+00	1.60E-07	2.52E-08	4.26E-08	0.00E+00	6.79E-08
1991	599986.1	4175782	2.97E-07	7.38E-07	0.00E+00	1.03E-06	2.97E-07	7.38E-07	0.00E+00	1.03E-06	4.82E-08	1.12E-07	0.00E+00	1.60E-07	2.52E-08	4.25E-08	0.00E+00	6.77E-08
1992	599796.6	4175678	1.26E-07	3.14E-07	0.00E+00	4.40E-07	1.26E-07	3.14E-07	0.00E+00	4.40E-07	2.05E-08	4.75E-08	0.00E+00	6.80E-08	1.07E-08	1.81E-08	0.00E+00	2.88E-08
1993	599805.1	4175682	1.48E-07	3.69E-07	0.00E+00	5.17E-07	1.48E-07	3.69E-07	0.00E+00	5.17E-07	2.41E-08	5.57E-08	0.00E+00	7.98E-08	1.26E-08	2.12E-08	0.00E+00	3.38E-08
1994	599813.6	4175685	1.74E-07	4.33E-07	0.00E+00	6.07E-07	1.74E-07	4.33E-07	0.00E+00	6.07E-07	2.83E-08	6.55E-08	0.00E+00	9.38E-08	1.48E-08	2.50E-08	0.00E+00	3.97E-08
1995	599822.1	4175689	1.91E-07	4.75E-07	0.00E+00	6.66E-07	1.91E-07	4.75E-07	0.00E+00	6.66E-07	3.10E-08	7.18E-08	0.00E+00	1.03E-07	1.62E-08	2.74E-08	0.00E+00	4.36E-08
1996	599830.6	4175693	2.07E-07	5.16E-07	0.00E+00	7.23E-07	2.07E-07	5.16E-07	0.00E+00	7.23E-07	3.37E-08	7.80E-08	0.00E+00	1.12E-07	1.76E-08	2.97E-08	0.00E+00	4.73E-08
1997	599839.1	4175697	2.22E-07	5.53E-07	0.00E+00	7.74E-07	2.22E-07	5.53E-07	0.00E+00	7.74E-07	3.61E-08	8.36E-08	0.00E+00	1.20E-07	1.88E-08	3.18E-08	0.00E+00	5.07E-08
1998	599847.6	4175701	2.35E-07	5.85E-07	0.00E+00	8.20E-07	2.35E-07	5.85E-07	0.00E+00	8.20E-07	3.82E-08	8.84E-08	0.00E+00	1.27E-07	1.99E-08	3.37E-08	0.00E+00	5.36E-08
1999	599856.1	4175704	2.48E-07	6.17E-07	0.00E+00	8.65E-07	2.48E-07	6.17E-07	0.00E+00	8.65E-07	4.03E-08	9.33E-08	0.00E+00	1.34E-07	2.10E-08	3.56E-08	0.00E+00	5.66E-08
2000	599864.6	4175708	2.61E-07	6.49E-07	0.00E+00	9.10E-07	2.61E-07	6.49E-07	0.00E+00	9.10E-07	4.24E-08	9.82E-08	0.00E+00	1.41E-07	2.21E-08	3.74E-08	0.00E+00	5.96E-08
2001	599873.1	4175712	2.74E-07	6.82E-07	0.00E+00	9.56E-07	2.74E-07	6.82E-07	0.00E+00	9.56E-07	4.46E-08	1.03E-07	0.00E+00	1.48E-07	2.33E-08	3.93E-08	0.00E+00	6.26E-08
2002	599881.6	4175716	2.72E-07	6.78E-07	0.00E+00	9.50E-07	2.72E-07	6.78E-07	0.00E+00	9.50E-07	4.43E-08	1.03E-07	0.00E+00	1.47E-07	2.31E-08	3.91E-08	0.00E+00	6.22E-08
2003	599890.1	4175719	2.68E-07	6.68E-07	0.00E+00	9.36E-07	2.68E-07	6.68E-07	0.00E+00	9.36E-07	4.36E-08	1.01E-07	0.00E+00	1.45E-07	2.28E-08	3.85E-08	0.00E+00	6.13E-08
2004	599898.6	4175723	2.67E-07	6.65E-07	0.00E+00	9.32E-07	2.67E-07	6.65E-07	0.00E+00	9.32E-07	4.34E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.83E-08	0.00E+00	6.10E-08
2005	599907.1	4175727	2.68E-07	6.67E-07	0.00E+00	9.35E-07	2.68E-07	6.67E-07	0.00E+00	9.35E-07	4.36E-08	1.01E-07	0.00E+00	1.44E-07	2.28E-08	3.85E-08	0.00E+00	6.12E-08
2006	599915.6	4175731	2.68E-07	6.68E-07	0.00E+00	9.37E-07	2.68E-07	6.68E-07	0.00E+00	9.37E-07	4.37E-08	1.01E-07	0.00E+00	1.45E-07	2.28E-08	3.85E-08	0.00E+00	6.13E-08
2007	599924.1	4175735	2.68E-07	6.67E-07	0.00E+00	9.34E-07	2.68E-07	6.67E-07	0.00E+00	9.34E-07	4.36E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.84E-08	0.00E+00	6.12E-08
2008	599932.6	4175738	2.66E-07	6.63E-07	0.00E+00	9.29E-07	2.66E-07	6.63E-07	0.00E+00	9.29E-07	4.33E-08	1.00E-07	0.00E+00	1.43E-07	2.26E-08	3.82E-08	0.00E+00	6.08E-08
2009	599941.1	4175742	2.74E-07	6.83E-07	0.00E+00	9.58E-07	2.74E-07	6.83E-07	0.00E+00	9.58E-07	4.46E-08	1.03E-07	0.00E+00	1.48E-07	2.33E-08	3.94E-08	0.00E+00	6.27E-08
2010	599949.6	4175746	2.83E-07	7.05E-07	0.00E+00	9.88E-07	2.83E-07	7.05E-07	0.00E+00	9.88E-07	4.61E-08	1.07E-07	0.00E+00	1.53E-07	2.40E-08	4.06E-08	0.00E+00	6.47E-08
2011	599958.1	4175750	2.9E-07	7.22E-07	0.00E+00	1.01E-06	2.90E-07	7.22E-07	0.00E+00	1.01E-06	4.72E-08	1.09E-07	0.00E+00	1.56E-07	2.46E-08	4.16E-08	0.00E+00	6.62E-08
2012	599966.6	4175753	2.94E-07	7.31E-07	0.00E+00	1.02E-06	2.94E-07	7.31E-07	0.00E+00	1.02E-06	4.78E-08	1.11E-07	0.00E+00	1.58E-07	2.49E-08	4.21E-08	0.00E+00	6.71E-08
2013	599975.1	4175757	2.95E-07	7.34E-07	0.00E+00	1.03E-06	2.95E-07	7.34E-07	0.00E+00	1.03E-06	4.80E-08	1.11E-07	0.00E+00	1.59E-07	2.50E-08	4.23E-08	0.00E+00	6.74E-08
2014	599983.6	4175761	2.95E-07	7.36E-07	0.00E+00	1.03E-06	2.95E-07	7.36E-07	0.00E+00	1.03E-06	4.81E-08	1.11E-07	0.00E+00	1.59E-07	2.51E-08	4.24E-08	0.00E+00	6.75E-08
2015	599992.1	4175765	2.95E-07	7.35E-07	0.00E+00	1.03E-06	2.95E-07	7.35E-07	0.00E+00	1.03E-06	4.80E-08	1.11E-07	0.00E+00	1.59E-07	2.51E-08	4.24E-08	0.00E+00	6.75E-08
2016	599790	4175655	9.89E-08	2.46E-07	0.00E+00	3.45E-07	9.89E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.40E-09	1.42E-08	0.00E+00	2.26E-08
2017	599798.6	4175658	1.16E-07	2.89E-07	0.00E+00	4.04E-07	1.16E-07	2.89E-07	0.00E+00	4.04E-07	1.89E-08	4.36E-08	0.00E+00	6.25E-08	9.84E-09	1.66E-08	0.00E+00	2.65E-08
2018	599807.3	4175662	1.36E-07	3.39E-07	0.00E+00	4.75E-07	1.36E-07	3.39E-07	0.00E+00	4.75E-07	2.22E-08	5.13E-08	0.00E+00	7.34E-08	1.16E-08	1.95E-08	0.00E+00	3.11E-08
2019	599815.9	4175666	1.58E-07	3.92E-07	0.00E+00	5.50E-07	1.58E-07	3.92E-07	0.00E+00	5.50E-07	2.56E-08	5.93E-08	0.00E+00	8.50E-08	1.34E-08	2.26E-08	0.00E+00	3.60E-08
2020	599824.5	4175670	1.74E-07	4.33E-07	0.00E+00	6.07E-07	1.74E-07	4.33E-07	0.00E+00	6.07E-07	2.83E-08	6.55E-08	0.00E+00	9.38E-08	1.48E-08	2.50E-08	0.00E+00	3.97E-08
2021	599833.2	4175674	1.91E-07	4.75E-07	0.00E+00	6.65E-07	1.91E-07	4.75E-07	0.00E+00	6.65E-07	3.10E-08	7.18E-08	0.00E+00	1.03E-07	1.62E-08	2.74E-08	0.00E+00	4.36E-08
2022	599841.8	4175678	2.07E-07	5.17E-07	0.00E+00	7.24E-07	2.07E-07	5.17E-07	0.00E+00	7.24E-07	3.37E-08	7.81E-08	0.00E+00	1.12E-07	1.76E-08	2.98E-08	0.00E+00	4.74E-08
2023	599850.4	4175681	2.19E-07	5.46E-07	0.00E+00	7.65E-07	2.19E-07	5.46E-07	0.00E+00	7.65E-07	3.56E-08	8.25E-08	0.00E+00	1.18E-07	1.86E-08	3.14E-08	0.00E+00	5.00E-08
2024	599859.1	4175685	2.31E-07	5.75E-07	0.00E+00	8.06E-07	2.31E-07	5.75E-07	0.00E+00	8.06E-07	3.76E-08	8.69E-08	0.00E+00	1.24E-07	1.96E-08	3.31E-08	0.00E+00	5.27E-08
2025	599867.7	4175689	2.43E-07	6.05E-07	0.00E+00	8.49E-07	2.43E-07	6.05E-07	0.00E+00	8.49E-07	3.96E-08	9.16E-08	0.00E+00	1.31E-07	2.06E-08	3.49E-08	0.00E+00	5.55E-08
2026	599876.3	4175693	2.52E-07	6.27E-07	0.00E+00	8.78E-07	2.52E-07	6.27E-07	0.00E+00	8.78E-07	4.10E-08	9.48E-08	0.00E+00	1.36E-07	2.14E-08	3.61E-08	0.00E+00	5.75E-08
2027	599885	4175697	2.52E-07	6.27E-07	0.00E+00	8.78E-07	2.52E-07	6.27E-07	0.00E+00	8.78E-07	4.09E-08	9.47E-08	0.00E+00	1.36E-07	2.14E-08	3.61E-08	0.00E+00	5.75E-08
2028	599893.6	4175701	2.51E-07	6.24E-07	0.00E+00	8.74E-07	2.51E-07	6.24E-07	0.00E+00	8.74E-07	4.08E-08	9.43E-08	0.00E+00	1.35E-07	2.13E-08	3.60E-08	0.00E+00	5.72E-08
2029	599902.2	4175704	2.49E-07	6.20E-07	0.00E+00	8.69E-07	2.49E-07	6.20E-07	0.00E+00	8.69E-07	4.05E-08	9.37E-08	0.00E+00	1.34E-07	2.11E-08	3.57E-08	0.00E+00	5.69E-08
2030	599910.9	4175708	2.51E-07	6.25E-07	0.00E+00	8.76E-07	2.51E-07	6.25E-07	0.00E+00	8.76E-07	4.08E-08	9.45E-08	0.00E+00	1.35E-07	2.13E-08	3.60E-08	0.00E+00	5.73E-08
2031	599919.5	4175712	2.52E-07	6.27E-07	0.00E+00	8.79E-07	2.52E-07	6.27E-07	0.00E+00	8.79E-07	4.10E-08	9.48E-08	0.00E+00	1.36E-07	2.14E-08	3.61E-08	0.00E+00	5.75E-08
2032	599928.1	4175716	2.51E-07	6.24E-07	0.00E+00	8.75E-07	2.51E-07	6.24E-07	0.00E+00	8.75E-07	4.08E-08	9.44E-08	0.00E+00	1.35E-07	2.13E-08	3.60E-08	0.00E+00	5.73E-08
2033	599936.7	4175720	2.55E-07	6.35E-07	0.00E+00	8.90E-07	2.55E-07	6.35E-07	0.00E+00	8.90E-07	4.15E-08	9.60E-08	0.00E+00	1.38E-07	2.17E-08	3.66E-08	0.00E+00	5.83E-08
2034	599945.4	4175724	2.65E-07	6.61E-07	0.00E+00	9.26E-07	2.65E-07	6.61E-07	0.00E+00	9.26E-07	4.32E-08	9.99E-08	0.00E+00	1.43E-07	2.25E-08	3.81E-08	0.00E+00	6.06E-08
2035	599954	4175727	2.75E-07	6.85E-07	0.00E+00	9.60E-07	2.75E-07	6.85E-07	0.00E+00	9.60E-07	4.47E-08	1.04E-07	0.00E+00	1.48E-07	2.33E-08	3.95E-08	0.00E+00	6.28E-08
2036	599962.6	4175731	2.84E-07	7.07E-07	0.00E+00	9.90E-07	2.84E-07	7.07E-07	0.00E+00	9.90E-07	4.62E-08	1.07E-07	0.00E+00	1.53E-07	2.41E-08	4.07E-08	0.00E+00	6.48E-08
2037	599971.3	4175735	2.87E-07	7.15E-07	0.00E+00	1.00E-06	2.87E-07	7.15E-07	0.00E+00	1.00E-06	4.67E-08	1.08E-07	0.00E+00	1.55E-07	2.44E-08	4.12E-08	0.00E+00	6.56E-08
2038	599979.9	4175739	2.9E-07	7.22E-07	0.00E+00	1.01E-06	2.90E-07	7.22E-07	0.00E+00	1.01E-06	4.72E-08	1.09E-07	0.00E+00	1.56E-07	2.46E-08	4.16E-08	0.00E+00	6.62E-08
2039	599988.5	4175743	2.93E-07	7.29E-07	0.00E+00	1.02E-06	2.93E-07	7.29E-07	0.00E+00	1.02E-06	4.77E-08	1.10E-07	0.00E+00	1.58E-07	2.49E-08	4.20E-08	0.00E+00	6.69E-08
2040	599997.2	4175747	2.89E-07	7.19E-07	0.00E+00	1.01E-06	2.89E-07	7.19E-07	0.00E+00	1.01E-06	4.70E-08	1.09E-07	0.00E+00	1.56E-07	2.45E-08	4.14E-08	0.00E+00	6.60E-08
2041	599781.7	4175630	8.62E-08	2.15E-07	0.00E+00	3.01E-07	8.62E-08	2.15E-07	0.00E+00	3.01E-07	1.40E-08	3.25E-08	0.00E+00	4.65E-08	7.32E-09	1.24E-08	0.00E+00	1.97E-08
2042	599790.2	4175634	9.19E-08	2.29E-07	0.00E+00	3.21E-07	9.19E-08	2.29E-07	0.00E+00	3.21E-07	1.50E-08	3.46E-08	0.00E+00	4.96E-08	7.80E-09	1.32E-08	0.00E+00	2.10E-08
2043	599798.7	4175638	1.1E-07	2.74E-07	0.00E+00	3.84E-07	1.10E-07	2.74E-07	0.00E+00	3.84E-07	1.79E-08	4.14E-08	0.00E+00	5.93E-08	9.33E-09	1.58E-08	0.00E+00	2.51E-08
2044	599807.3	4175642	1.3E-07	3.24E-07	0.00E+00	4.54E-07	1.30E-07	3.24E-07	0.00E+00	4.54E-07	2.12E-08	4.90E-08	0.00E+00	7.02E-08	1.11E-08	1.87E-08	0.00E+00	2.97E-08
2045	599815.8	4175646	1.51E-07	3.75E-07	0.00E+00	5.25E-07	1.51E-07	3.75E-07	0.00E+00	5.25E-07	2.45E-08	5.67E-08	0.00E+00	8.11E-08	1.28E-08	2.16E-08	0.00E+00	3.44E-08
2046	599824.3	4175649	1.66E-07	4.13E-07	0.00E+00	5.78E-07	1.66E-07	4.13E-07	0.00E+00	5.78E-07	2.70E-08	6.24E-08	0.00E+00	8.93E-08	1.41E-08	2.38E-08	0.00E+00	3.78E-08
2047	599832.8	4175653	1.79E-07	4.46E-07	0.00E+00	6.25E-07	1.79E-07	4.46E-07	0.00E+00	6.25E-07	2.91E-08	6.74E-08	0.00E+00	9.65E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
2048	599841.4	4175657	1.92E-07	4.79E-07	0.00E+00	6.71E-07	1.92E-07	4.79E-07	0.00E+00	6.71E-07	3.13E-08	7.24E-08	0.00E+00	1.04E-07	1.63E-08	2.76E-08	0.00E+00	4.39E-08
2049	599849.9	4175661	2.01E-07	5.00E-07	0.00E+00	7.00E-07	2.01E-07	5.00E-07	0.00E+00	7.00E-07	3.26E-08	7.56E-08	0.00E+00	1.08E-07	1.70E-08	2.88E-08	0.00E+00	4.58E-08
2050	599858.4	4175665	2.07E-07	5.16E-07	0.00E+00	7.24E-07	2.07E-07	5.16E-07	0.00E+00	7.24E-07	3.37E-08	7.81E-08	0.00E+00	1.12E-07	1.76E-08	2.98E-08	0.00E+00	4.74E-08
2051	599867	4175668	2.16E-07	5.37E-07	0.00E+00	7.53E-07	2.16E-07	5.37E-07	0.00E+00	7.53E-07	3.51E-08	8.12E-08	0.00E+00	1.16E-07	1.83E-08	3.10E-08	0.00E+00	4.93E-08
2052	599875.5	4175672	2.25E-07	5.59E-07	0.00E+00	7.84E-07	2.25E-07	5.59E-07	0.00E+00	7.84E-07	3.65E-08	8.45E-08	0.00E+00	1.21E-07	1.91E-08	3.22E-08	0.00E+00	5.13E-08
2053	599884	4175676	2.29E-07	5.71E-07	0.00E+00	8.01E-07	2.29E-07	5.71E-07	0.00E+00	8.01E-07	3.73E-08	8.64E-08	0.00E+00	1.24E-07	1.95E-08	3.29E-08	0.00E+00	5.24E-08
2054	599892.5	4175680	2.33E-07	5.81E-07	0.00E+00	8.14E-07	2.33E-07	5.81E-07	0.00E+00	8.14E-07	3.80E-08	8.79E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.33E-08
2055	599901.1	4175683	2.36E-07	5.88E-07	0.00E+00	8.24E-07	2.36E-07	5.88E-07	0.00E+00	8.24E-07	3.84E-08	8.89E-08	0.00E+00	1.27E-07	2.00E-08	3.39E-08	0.00E+00	5.39E-08
2056	599909.6	4175687	2.43E-07	6.06E-07	0.00E+00	8.50E-07	2.43E-07	6.06E-07	0.00E+00	8.50E-07	3.96E-08	9.17E-08	0.00E+00	1.31E-07	2.07E-08	3.49E-08	0.00E+00	5.56E-08
2057	599918.1	4175691	2.5E-07	6.22E-07	0.00E+00	8.72E-07	2.50E-07	6.22E-07	0.00E+00	8.72E-07	4.06E-08	9.40E-08	0.00E+00	1.35E-07	2.12E-08	3.58E-08	0.00E+00	5.70E-08
2058	599926.6	4175695	2.54E-07	6.31E-07	0.00E+00	8.85E-07	2.54E-07	6.31E-07	0.00E+00	8.85E-07	4.12E-08	9.55E-08	0.00E+00	1.37E-07	2.15E-08	3.64E-08	0.00E+00	5.79E-08
2059	599935.2	4175699	2.57E-07	6.39E-07	0.00E+00	8.96E-07	2.57E-07	6.39E-07	0.00E+00	8.96E-07	4.18E-08	9.67E-08	0.00E+00	1.38E-07	2.18E-08	3.68E-08	0.00E+00	5.86E-08
2060	599943.7	4175702	2.66E-07	6.63E-07	0.00E+00	9.29E-07	2.66E-07	6.63E-07	0.00E+00	9.29E-07	4.33E-08	1.00E-07	0.00E+00	1.43E-07	2.26E-08	3.82E-08	0.00E+00	6.08E-08
2061	599952.2	4175706	2.74E-07	6.82E-07	0.00E+00	9.56E-07	2.74E-07	6.82E-07	0.00E+00	9.56E-07	4.45E-08	1.03E-07	0.00E+00	1.48E-07	2.32E-08	3.93E-08	0.00E+00	6.25E-08
2062	599960.7	4175710	2.8E-07	6.96E-07	0.00E+00	9.76E-07	2.80E-07	6.96E-07	0.00E+00	9.76E-07	4.55E-08	1.05E-07	0.00E+00	1.51E-07	2.37E-08	4.01E-08	0.00E+00	6.39E-08
2063	599969.3	4175714	2.78E-07	6.92E-07	0.00E+00	9.70E-07	2.78E-07	6.92E-07	0.00E+00	9.70E-07	4.52E-08	1.05E-07	0.00E+00	1.50E-07	2.36E-08	3.99E-08	0.00E+00	6.35E-08
2064	599977.8	4175718	2.76E-07	6.88E-07	0.00E+00	9.64E-07	2.76E-07	6.88E-07	0.00E+00	9.64E-07	4.50E-08	1.04E-07	0.00E+00	1.49E-07	2.35E-08	3.97E-08	0.00E+00	6.31E-08
2065	599986.3	4175721	2.78E-07	6.92E-07	0.00E+00	9.70E-07	2.78E-07	6.92E-07	0.00E+00	9.70E-07	4.52E-08	1.05E-07	0.00E+00	1.50E-07	2.36E-08	3.99E-08	0.00E+00	6.35E-08
2066	599994.8	4175725	2.79E-07	6.93E-07	0.00E+00	9.72E-07	2.79E-07	6.93E-07	0.00E+00	9.72E-07	4.53E-08	1.05E-07	0.00E+00	1.50E-07	2.36E-08	4.00E-08	0.00E+00	6.36E-08
2067	600003.4	4175729	2.71E-07	6.76E-07	0.00E+00	9.47E-07	2.71E-07	6.76E-07	0.00E+00	9.47E-07	4.42E-08	1.02E-07	0.00E+00	1.46E-07	2.31E-08	3.90E-08	0.00E+00	6.20E-08
2068	600125.6	4175914	1.73E-07	4.32E-07	0.00E+00	6.05E-07	1.73E-07	4.32E-07	0.00E+00	6.05E-07	2.82E-08	6.53E-08	0.00E+00	9.35E-08	1.47E-08	2.49E-08	0.00E+00	3.96E-08
2069	600129.3	4175923	1.68E-07	4.18E-07	0.00E+00	5.85E-07	1.68E-07	4.18E-07	0.00E+00	5.85E-07	2.73E-08	6.32E-08	0.00E+00	9.04E-08	1.42E-08	2.41E-08	0.00E+00	3.83E-08
2070	600133.1	4175931	1.63E-07	4.05E-07	0.00E+00	5.68E-07	1.63E-07	4.05E-07	0.00E+00	5.68E-07	2.65E-08	6.13E-08	0.00E+00	8.78E-08	1.38E-08	2.34E-08	0.00E+00	3.72E-08
2071	600136.8	4175940	1.58E-07	3.93E-07	0.00E+00	5.52E-07	1.58E-07	3.93E-07	0.00E+00	5.52E-07	2.57E-08	5.95E-08	0.00E+00	8.52E-08	1.34E-08	2.27E-08	0.00E+00	3.61E-08
2072	600140.5	4175948	1.53E-07	3.82E-07	0.00E+00	5.35E-07	1.53E-07	3.82E-07	0.00E+00	5.35E-07	2.50E-08	5.78E-08	0.00E+00	8.27E-08	1.30E-08	2.20E-08	0.00E+00	3.50E-08
2073	600144.3	4175957	1.49E-07	3.71E-07	0.00E+00	5.20E-07	1.49E-07	3.71E-07	0.00E+00	5.20E-07	2.42E-08	5.61E-08	0.00E+00	8.03E-08	1.27E-08	2.14E-08	0.00E+00	3.40E-08
2074	600148	4175965	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
2075	600151.8	4175974	1.43E-07	3.56E-07	0.00E+00	4.99E-07	1.43E-07	3.56E-07	0.00E+00	4.99E-07	2.33E-08	5.38E-08	0.00E+00	7.71E-08	1.21E-08	2.05E-08	0.00E+00	3.27E-08
2076	600155.5	4175982	1.41E-07	3.51E-07	0.00E+00	4.92E-07	1.41E-07	3.51E-07	0.00E+00	4.92E-07	2.29E-08	5.31E-08	0.00E+00	7.60E-08	1.20E-08	2.02E-08	0.00E+00	3.22E-08
2077	600159.2	4175991	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.46E-08	1.17E-08	1.99E-08	0.00E+00	3.16E-08
2078	600163	4175999	1.38E-07	3.43E-07	0.00E+00	4.80E-07	1.38E-07	3.43E-07	0.00E+00	4.80E-07	2.24E-08	5.18E-08	0.00E+00	7.42E-08	1.17E-08	1.98E-08	0.00E+00	3.14E-08
2079	600166.7	4176008	1.38E-07	3.44E-07	0.00E+00	4.81E-07	1.38E-07	3.44E-07	0.00E+00	4.81E-07	2.24E-08	5.19E-08	0.00E+00	7.44E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
2080	600170.5	4176017	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.47E-08	1.18E-08	1.99E-08	0.00E+00	3.16E-08
2081	599774.7	4175607	7.08E-08	1.76E-07	0.00E+00	2.47E-07	7.08E-08	1.76E-07	0.00E+00	2.47E-07	1.15E-08	2.67E-08	0.00E+00	3.82E-08	6.01E-09	1.02E-08	0.00E+00	1.62E-08
2082	599783.4	4175611	7.99E-08	1.99E-07	0.00E+00	2.79E-07	7.99E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.31E-08	6.79E-09	1.15E-08	0.00E+00	1.83E-08
2083	599792	4175615	9.52E-08	2.37E-07	0.00E+00	3.32E-07	9.52E-08	2.37E-07	0.00E+00	3.32E-07	1.55E-08	3.58E-08	0.00E+00	5.13E-08	8.08E-09	1.37E-08	0.00E+00	2.17E-08
2084	599800.7	4175618	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.29E-08	0.00E+00	6.15E-08	9.68E-09	1.64E-08	0.00E+00	2.60E-08
2085	599809.3	4175622	1.37E-07	3.41E-07	0.00E+00	4.77E-07	1.37E-07	3.41E-07	0.00E+00	4.77E-07	2.23E-08	5.15E-08	0.00E+00	7.37E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
2086	599818	4175626	1.61E-07	4.02E-07	0.00E+00	5.63E-07	1.61E-07	4.02E-07	0.00E+00	5.63E-07	2.62E-08	6.07E-08	0.00E+00	8.70E-08	1.37E-08	2.31E-08	0.00E+00	3.68E-08
2087	599826.6	4175630	1.84E-07	4.59E-07	0.00E+00	6.43E-07	1.84E-07	4.59E-07	0.00E+00	6.43E-07	3.00E-08	6.93E-08	0.00E+00	9.93E-08	1.56E-08	2.64E-08	0.00E+00	4.21E-08

2088	599835.3	4175634	2.06E-07	5.12E-07	0.00E+00	7.18E-07	2.06E-07	5.12E-07	0.00E+00	7.18E-07	3.35E-08	7.75E-08	0.00E+00	1.11E-07	1.75E-08	2.95E-08	0.00E+00	4.70E-08
2089	599843.9	4175638	2.24E-07	5.59E-07	0.00E+00	7.83E-07	2.24E-07	5.59E-07	0.00E+00	7.83E-07	3.65E-08	8.45E-08	0.00E+00	1.21E-07	1.90E-08	3.22E-08	0.00E+00	5.12E-08
2090	599852.5	4175641	2.18E-07	5.42E-07	0.00E+00	7.60E-07	2.18E-07	5.42E-07	0.00E+00	7.60E-07	3.54E-08	8.20E-08	0.00E+00	1.17E-07	1.85E-08	3.12E-08	0.00E+00	4.97E-08
2091	599861.2	4175645	2.13E-07	5.29E-07	0.00E+00	7.42E-07	2.13E-07	5.29E-07	0.00E+00	7.42E-07	3.46E-08	8.00E-08	0.00E+00	1.15E-07	1.80E-08	3.05E-08	0.00E+00	4.85E-08
2092	599869.8	4175649	2.09E-07	5.20E-07	0.00E+00	7.28E-07	2.09E-07	5.20E-07	0.00E+00	7.28E-07	3.40E-08	7.86E-08	0.00E+00	1.13E-07	1.77E-08	3.00E-08	0.00E+00	4.77E-08
2093	599878.5	4175653	2.07E-07	5.15E-07	0.00E+00	7.22E-07	2.07E-07	5.15E-07	0.00E+00	7.22E-07	3.37E-08	7.79E-08	0.00E+00	1.12E-07	1.76E-08	2.97E-08	0.00E+00	4.73E-08
2094	599887.1	4175657	2.08E-07	5.17E-07	0.00E+00	7.25E-07	2.08E-07	5.17E-07	0.00E+00	7.25E-07	3.38E-08	7.82E-08	0.00E+00	1.12E-07	1.76E-08	2.98E-08	0.00E+00	4.74E-08
2095	599895.8	4175661	2.13E-07	5.32E-07	0.00E+00	7.45E-07	2.13E-07	5.32E-07	0.00E+00	7.45E-07	3.47E-08	8.04E-08	0.00E+00	1.15E-07	1.81E-08	3.06E-08	0.00E+00	4.88E-08
2096	599904.4	4175665	2.19E-07	5.46E-07	0.00E+00	7.65E-07	2.19E-07	5.46E-07	0.00E+00	7.65E-07	3.57E-08	8.25E-08	0.00E+00	1.18E-07	1.86E-08	3.15E-08	0.00E+00	5.01E-08
2097	599913.1	4175668	2.32E-07	5.78E-07	0.00E+00	8.10E-07	2.32E-07	5.78E-07	0.00E+00	8.10E-07	3.78E-08	8.74E-08	0.00E+00	1.25E-07	1.97E-08	3.33E-08	0.00E+00	5.30E-08
2098	599921.7	4175672	2.44E-07	6.07E-07	0.00E+00	8.51E-07	2.44E-07	6.07E-07	0.00E+00	8.51E-07	3.97E-08	9.19E-08	0.00E+00	1.32E-07	2.07E-08	3.50E-08	0.00E+00	5.57E-08
2099	599930.4	4175676	2.54E-07	6.33E-07	0.00E+00	8.88E-07	2.54E-07	6.33E-07	0.00E+00	8.88E-07	4.14E-08	9.58E-08	0.00E+00	1.37E-07	2.16E-08	3.65E-08	0.00E+00	5.81E-08
2100	599939	4175680	2.68E-07	6.67E-07	0.00E+00	9.35E-07	2.68E-07	6.67E-07	0.00E+00	9.35E-07	4.36E-08	1.01E-07	0.00E+00	1.44E-07	2.28E-08	3.85E-08	0.00E+00	6.12E-08
2101	599947.6	4175684	2.85E-07	7.10E-07	0.00E+00	9.95E-07	2.85E-07	7.10E-07	0.00E+00	9.95E-07	4.64E-08	1.07E-07	0.00E+00	1.54E-07	2.42E-08	4.09E-08	0.00E+00	6.51E-08
2102	599956.3	4175688	2.99E-07	7.45E-07	0.00E+00	1.04E-06	2.99E-07	7.45E-07	0.00E+00	1.04E-06	4.87E-08	1.13E-07	0.00E+00	1.61E-07	2.54E-08	4.29E-08	0.00E+00	6.83E-08
2103	599964.9	4175691	3.04E-07	7.58E-07	0.00E+00	1.06E-06	3.04E-07	7.58E-07	0.00E+00	1.06E-06	4.95E-08	1.15E-07	0.00E+00	1.64E-07	2.58E-08	4.37E-08	0.00E+00	6.95E-08
2104	599973.6	4175695	2.92E-07	7.26E-07	0.00E+00	1.02E-06	2.92E-07	7.26E-07	0.00E+00	1.02E-06	4.74E-08	1.10E-07	0.00E+00	1.57E-07	2.48E-08	4.18E-08	0.00E+00	6.66E-08
2105	599982.2	4175699	2.82E-07	7.02E-07	0.00E+00	9.84E-07	2.82E-07	7.02E-07	0.00E+00	9.84E-07	4.59E-08	1.06E-07	0.00E+00	1.52E-07	2.39E-08	4.05E-08	0.00E+00	6.44E-08
2106	599990.9	4175703	2.75E-07	6.85E-07	0.00E+00	9.60E-07	2.75E-07	6.85E-07	0.00E+00	9.60E-07	4.48E-08	1.04E-07	0.00E+00	1.48E-07	2.34E-08	3.95E-08	0.00E+00	6.29E-08
2107	599999.5	4175707	2.68E-07	6.66E-07	0.00E+00	9.34E-07	2.68E-07	6.66E-07	0.00E+00	9.34E-07	4.35E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.84E-08	0.00E+00	6.11E-08
2108	600008.2	4175711	2.61E-07	6.51E-07	0.00E+00	9.12E-07	2.61E-07	6.51E-07	0.00E+00	9.12E-07	4.25E-08	9.84E-08	0.00E+00	1.41E-07	2.22E-08	3.75E-08	0.00E+00	5.97E-08
2109	600016.8	4175714	2.58E-07	6.42E-07	0.00E+00	8.99E-07	2.58E-07	6.42E-07	0.00E+00	8.99E-07	4.19E-08	9.70E-08	0.00E+00	1.39E-07	2.19E-08	3.70E-08	0.00E+00	5.89E-08
2110	600129.4	4175876	1.87E-07	4.66E-07	0.00E+00	6.52E-07	1.87E-07	4.66E-07	0.00E+00	6.52E-07	3.04E-08	7.04E-08	0.00E+00	1.01E-07	1.59E-08	2.68E-08	0.00E+00	4.27E-08
2111	600133.2	4175885	1.81E-07	4.51E-07	0.00E+00	6.33E-07	1.81E-07	4.51E-07	0.00E+00	6.33E-07	2.95E-08	6.83E-08	0.00E+00	9.78E-08	1.54E-08	2.60E-08	0.00E+00	4.14E-08
2112	600137	4175894	1.76E-07	4.39E-07	0.00E+00	6.15E-07	1.76E-07	4.39E-07	0.00E+00	6.15E-07	2.87E-08	6.64E-08	0.00E+00	9.51E-08	1.50E-08	2.53E-08	0.00E+00	4.03E-08
2113	600140.8	4175902	1.71E-07	4.25E-07	0.00E+00	5.96E-07	1.71E-07	4.25E-07	0.00E+00	5.96E-07	2.78E-08	6.43E-08	0.00E+00	9.21E-08	1.45E-08	2.45E-08	0.00E+00	3.90E-08
2114	600144.5	4175911	1.65E-07	4.11E-07	0.00E+00	5.77E-07	1.65E-07	4.11E-07	0.00E+00	5.77E-07	2.69E-08	6.22E-08	0.00E+00	8.91E-08	1.40E-08	2.37E-08	0.00E+00	3.77E-08
2115	600148.3	4175920	1.6E-07	3.98E-07	0.00E+00	5.59E-07	1.60E-07	3.98E-07	0.00E+00	5.59E-07	2.60E-08	6.03E-08	0.00E+00	8.63E-08	1.36E-08	2.30E-08	0.00E+00	3.66E-08
2116	600152.1	4175928	1.55E-07	3.86E-07	0.00E+00	5.42E-07	1.55E-07	3.86E-07	0.00E+00	5.42E-07	2.52E-08	5.84E-08	0.00E+00	8.37E-08	1.32E-08	2.23E-08	0.00E+00	3.54E-08
2117	600155.9	4175937	1.5E-07	3.75E-07	0.00E+00	5.25E-07	1.50E-07	3.75E-07	0.00E+00	5.25E-07	2.45E-08	5.66E-08	0.00E+00	8.11E-08	1.28E-08	2.16E-08	0.00E+00	3.44E-08
2118	600159.7	4175946	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
2119	600163.5	4175954	1.43E-07	3.56E-07	0.00E+00	4.98E-07	1.43E-07	3.56E-07	0.00E+00	4.98E-07	2.32E-08	5.38E-08	0.00E+00	7.70E-08	1.21E-08	2.05E-08	0.00E+00	3.26E-08
2120	600167.3	4175963	1.4E-07	3.49E-07	0.00E+00	4.90E-07	1.40E-07	3.49E-07	0.00E+00	4.90E-07	2.28E-08	5.28E-08	0.00E+00	7.56E-08	1.19E-08	2.01E-08	0.00E+00	3.20E-08
2121	600171.1	4175972	1.38E-07	3.43E-07	0.00E+00	4.80E-07	1.38E-07	3.43E-07	0.00E+00	4.80E-07	2.24E-08	5.18E-08	0.00E+00	7.42E-08	1.17E-08	1.97E-08	0.00E+00	3.14E-08
2122	600174.9	4175980	1.35E-07	3.37E-07	0.00E+00	4.72E-07	1.35E-07	3.37E-07	0.00E+00	4.72E-07	2.20E-08	5.09E-08	0.00E+00	7.29E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
2123	600178.7	4175989	1.33E-07	3.32E-07	0.00E+00	4.65E-07	1.33E-07	3.32E-07	0.00E+00	4.65E-07	2.17E-08	5.02E-08	0.00E+00	7.18E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
2124	600182.5	4175998	1.33E-07	3.31E-07	0.00E+00	4.64E-07	1.33E-07	3.31E-07	0.00E+00	4.64E-07	2.16E-08	5.00E-08	0.00E+00	7.17E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
2125	600186.3	4176006	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.05E-08	0.00E+00	7.23E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
2126	600190.1	4176015	1.36E-07	3.38E-07	0.00E+00	4.73E-07	1.36E-07	3.38E-07	0.00E+00	4.73E-07	2.21E-08	5.11E-08	0.00E+00	7.31E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
2127	600193.9	4176024	1.37E-07	3.42E-07	0.00E+00	4.79E-07	1.37E-07	3.42E-07	0.00E+00	4.79E-07	2.23E-08	5.17E-08	0.00E+00	7.40E-08	1.17E-08	1.97E-08	0.00E+00	3.13E-08
2128	600197.7	4176032	1.39E-07	3.47E-07	0.00E+00	4.86E-07	1.39E-07	3.47E-07	0.00E+00	4.86E-07	2.27E-08	5.25E-08	0.00E+00	7.52E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08
2129	600201.4	4176041	1.42E-07	3.53E-07	0.00E+00	4.94E-07	1.42E-07	3.53E-07	0.00E+00	4.94E-07	2.30E-08	5.33E-08	0.00E+00	7.64E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
2130	600205.2	4176050	1.45E-07	3.62E-07	0.00E+00	5.08E-07	1.45E-07	3.62E-07	0.00E+00	5.08E-07	2.37E-08	5.48E-08	0.00E+00	7.84E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
2131	600209	4176058	1.52E-07	3.78E-07	0.00E+00	5.29E-07	1.52E-07	3.78E-07	0.00E+00	5.29E-07	2.47E-08	5.71E-08	0.00E+00	8.18E-08	1.29E-08	2.18E-08	0.00E+00	3.46E-08
2132	599775.2	4175587	7.74E-08	1.93E-07	0.00E+00	2.70E-07	7.74E-08	1.93E-07	0.00E+00	2.70E-07	1.26E-08	2.92E-08	0.00E+00	4.17E-08	6.57E-09	1.11E-08	0.00E+00	1.77E-08
2133	599783.7	4175591	8.7E-08	2.17E-07	0.00E+00	3.03E-07	8.70E-08	2.17E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.69E-08	7.38E-09	1.25E-08	0.00E+00	1.99E-08
2134	599792.3	4175594	1.01E-07	2.53E-07	0.00E+00	3.54E-07	1.01E-07	2.53E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.47E-08	8.61E-09	1.46E-08	0.00E+00	2.32E-08
2135	599800.8	4175598	1.2E-07	2.99E-07	0.00E+00	4.19E-07	1.20E-07	2.99E-07	0.00E+00	4.19E-07	1.95E-08	4.52E-08	0.00E+00	6.48E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
2136	599809.4	4175602	1.42E-07	3.54E-07	0.00E+00	4.96E-07	1.42E-07	3.54E-07	0.00E+00	4.96E-07	2.31E-08	5.35E-08	0.00E+00	7.66E-08	1.21E-08	2.04E-08	0.00E+00	3.24E-08
2137	599817.9	4175606	1.64E-07	4.08E-07	0.00E+00	5.71E-07	1.64E-07	4.08E-07	0.00E+00	5.71E-07	2.66E-08	6.17E-08	0.00E+00	8.83E-08	1.39E-08	2.35E-08	0.00E+00	3.74E-08
2138	599826.5	4175610	1.85E-07	4.60E-07	0.00E+00	6.45E-07	1.85E-07	4.60E-07	0.00E+00	6.45E-07	3.01E-08	6.96E-08	0.00E+00	9.97E-08	1.57E-08	2.65E-08	0.00E+00	4.22E-08
2139	599835	4175613	2.09E-07	5.20E-07	0.00E+00	7.29E-07	2.09E-07	5.20E-07	0.00E+00	7.29E-07	3.40E-08	7.86E-08	0.00E+00	1.13E-07	1.77E-08	3.00E-08	0.00E+00	4.77E-08
2140	599843.6	4175617	2.35E-07	5.85E-07	0.00E+00	8.20E-07	2.35E-07	5.85E-07	0.00E+00	8.20E-07	3.82E-08	8.85E-08	0.00E+00	1.27E-07	2.00E-08	3.37E-08	0.00E+00	5.37E-08
2141	599852.1	4175621	2.36E-07	5.88E-07	0.00E+00	8.25E-07	2.36E-07	5.88E-07	0.00E+00	8.25E-07	3.84E-08	8.90E-08	0.00E+00	1.27E-07	2.01E-08	3.39E-08	0.00E+00	5.40E-08
2142	599860.7	4175625	2.35E-07	5.86E-07	0.00E+00	8.22E-07	2.35E-07	5.86E-07	0.00E+00	8.22E-07	3.83E-08	8.86E-08	0.00E+00	1.27E-07	2.00E-08	3.38E-08	0.00E+00	5.38E-08
2143	599869.2	4175628	2.3E-07	5.73E-07	0.00E+00	8.03E-07	2.30E-07	5.73E-07	0.00E+00	8.03E-07	3.74E-08	8.66E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.25E-08
2144	599877.8	4175632	2.26E-07	5.63E-07	0.00E+00	7.89E-07	2.26E-07	5.63E-07	0.00E+00	7.89E-07	3.68E-08	8.51E-08	0.00E+00	1.22E-07	1.92E-08	3.24E-08	0.00E+00	5.16E-08
2145	599886.3	4175636	2.24E-07	5.58E-07	0.00E+00	7.82E-07	2.24E-07	5.58E-07	0.00E+00	7.82E-07	3.65E-08	8.44E-08	0.00E+00	1.21E-07	1.90E-08	3.22E-08	0.00E+00	5.12E-08
2146	599894.8	4175640	2.22E-07	5.54E-07	0.00E+00	7.76E-07	2.22E-07	5.54E-07	0.00E+00	7.76E-07	3.62E-08	8.38E-08	0.00E+00	1.20E-07	1.89E-08	3.19E-08	0.00E+00	5.08E-08
2147	599903.4	4175644	2.21E-07	5.50E-07	0.00E+00	7.71E-07	2.21E-07	5.50E-07	0.00E+00	7.71E-07	3.59E-08	8.32E-08	0.00E+00	1.19E-07	1.88E-08	3.17E-08	0.00E+00	5.05E-08
2148	599911.9	4175647	2.27E-07	5.66E-07	0.00E+00	7.94E-07	2.27E-07	5.66E-07	0.00E+00	7.94E-07	3.70E-08	8.56E-08	0.00E+00	1.23E-07	1.93E-08	3.26E-08	0.00E+00	5.19E-08
2149	599920.5	4175651	2.35E-07	5.86E-07	0.00E+00	8.21E-07	2.35E-07	5.86E-07	0.00E+00	8.21E-07	3.83E-08	8.86E-08	0.00E+00	1.27E-07	2.00E-08	3.38E-08	0.00E+00	5.38E-08
2150	599929	4175655	2.45E-07	6.09E-07	0.00E+00	8.53E-07	2.45E-07	6.09E-07	0.00E+00	8.53E-07	3.98E-08	9.21E-08	0.00E+00	1.32E-07	2.08E-08	3.51E-08	0.00E+00	5.59E-08
2151	599937.6	4175659	2.57E-07	6.39E-07	0.00E+00	8.95E-07	2.57E-07	6.39E-07	0.00E+00	8.95E-07	4.17E-08	9.66E-08	0.00E+00	1.38E-07	2.18E-08	3.68E-08	0.00E+00	5.86E-08
2152	599946.1	4175663	2.7E-07	6.72E-07	0.00E+00	9.42E-07	2.70E-07	6.72E-07	0.00E+00	9.42E-07	4.39E-08	1.02E-07	0.00E+00	1.46E-07	2.29E-08	3.87E-08	0.00E+00	6.17E-08
2153	599954.7	4175666	2.84E-07	7.08E-07	0.00E+00	9.93E-07	2.84E-07	7.08E-07	0.00E+00	9.93E-07	4.63E-08	1.07E-07	0.00E+00	1.53E-07	2.42E-08	4.08E-08	0.00E+00	6.50E-08
2154	599963.2	4175670	3E-07	7.46E-07	0.00E+00	1.05E-06	3.00E-07	7.46E-07	0.00E+00	1.05E-06	4.87E-08	1.13E-07	0.00E+00	1.62E-07	2.54E-08	4.30E-08	0.00E+00	6.84E-08
2155	599971.8	4175674	2.93E-07	7.30E-07	0.00E+00	1.02E-06	2.93E-07	7.30E-07	0.00E+00	1.02E-06	4.77E-08	1.10E-07	0.00E+00	1.58E-07	2.49E-08	4.21E-08	0.00E+00	6.70E-08
2156	599980.3	4175678	2.86E-07	7.12E-07	0.00E+00	9.98E-07	2.86E-07	7.12E-07	0.00E+00	9.98E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.10E-08	0.00E+00	6.53E-08
2157	599988.9	4175682	2.79E-07	6.95E-07	0.00E+00	9.74E-07	2.79E-07	6.95E-07	0.00E+00	9.74E-07	4.54E-08	1.05E-07	0.00E+00	1.50E-07	2.37E-08	4.00E-08	0.00E+00	6.37E-08
2158	599997.4	4175685	2.69E-07	6.69E-07	0.00E+00	9.37E-07	2.69E-07	6.69E-07	0.00E+00	9.37E-07	4.37E-08	1.01E-07	0.00E+00	1.45E-07	2.28E-08	3.85E-08	0.00E+00	6.13E-08
2159	600006	4175689	2.54E-07	6.33E-07	0.00E+00	8.87E-07	2.54E-07	6.33E-07	0.00E+00	8.87E-07	4.13E-08	9.57E-08	0.00E+00	1.37E-07	2.16E-08	3.65E-08	0.00E+00	5.80E-08
2160	600014.5	4175693	2.44E-07	6.07E-07	0.00E+00	8.51E-07	2.44E-07	6.07E-07	0.00E+00	8.51E-07	3.97E-08	9.18E-08	0.00E+00	1.31E-07	2.07E-08	3.50E-08	0.00E+00	5.57E-08
2161	600023	4175697	2.37E-07	5.90E-07	0.00E+00	8.26E-07	2.37E-07	5.90E-07	0.00E+00	8.26E-07	3.85E-08	8.91E-08	0.00E+00	1.28E-07	2.01E-08	3.40E-08	0.00E+00	5.41E-08
2162	600139.1	4175852	1.77E-07	4.41E-07	0.00E+00	6.19E-07	1.77E-07	4.41E-07	0.00E+00	6.19E-07	2.88E-08	6.67E-08	0.00E+00	9.56E-08	1.50E-08	2.54E-08	0.00E+00	4.05E-08
2163	600142.9	4175860	1.78E-07	4.42E-07	0.00E+00	6.20E-07	1.78E-07	4.42E-07	0.00E+00	6.20E-07	2.89E-08	6.69E-08	0.00E+00	9.58E-08	1.51E-08	2.55E-08	0.00E+00	4.06E-08
2164	600146.6	4175869	1.76E-07	4.37E-07	0.00E+00	6.13E-07	1.76E-07	4.37E-07	0.00E+00	6.13E-07	2.86E-08	6.61E-08	0.00E+00	9.47E-08	1.49E-08	2.52E-08	0.00E+00	4.01E-08
2165	600150.4	4175878	1.71E-07	4.26E-07	0.00E+00	5.97E-07	1.71E-07	4.26E-07	0.00E+00	5.97E-07	2.78E-08	6.44E-08	0.00E+00	9.23E-08	1.45E-08	2.46E-08	0.00E+00	3.91E-08
2166	600154.1	4175886	1.68E-07	4.17E-07	0.00E+00	5.85E-07	1.68E-07	4.17E-07	0.00E+00	5.85E-07	2.73E-08	6.31E-08	0.00E+00	9.03E-08	1.42E-08	2.40E-08	0.00E+00	3.83E-08
2167	600157.9	4175895	1.65E-07	4.10E-07	0.00E+00	5.75E-07	1.65E-07	4.10E-07	0.00E+00	5.75E-07	2.68E-08	6.20E-08	0.00E+00	8.88E-08	1.40E-08	2.36E-08	0.00E+00	3.76E-08
2168	600161.6	4175903	1.6E-07	3.98E-07	0.00E+00	5.58E-07	1.60E-07	3.98E-07	0.00E+00	5.58E-07	2.60E-08	6.02E-08	0.00E+00	8.63E-08	1.36E-08	2.30E-08	0.00E+00	3.65E-08
2169	600165.4	4175912	1.55E-07	3.86E-07	0.00E+00	5.42E-07	1.55E-07	3.86E-07	0.00E+00	5.42E-07	2.52E-08	5.84E-08	0.00E+00	8.37E-08	1.32E-08	2.23E-08	0.00E+00	3.54E-08
2170	600169.1	4175920	1.51E-07	3.75E-07	0.00E+00	5.26E-07	1.51E-07	3.75E-07	0.00E+00	5.26E-07	2.45E-08	5.67E-08	0.00E+00	8.12E-08	1.28E-08	2.16E-08	0.00E+00	3.44E-08
2171	600172.9	4175929	1.46E-07	3.64E-07	0.00E+00	5.10E-07	1.46E-07	3.64E-07	0.00E+00	5.10E-07	2.38E-08	5.50E-08	0.00E+00	7.88E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
2172	600176.6	4175938	1.41E-07	3.51E-07	0.00E+00	4.93E-07	1.41E-07	3.51E-07	0.00E+00	4.93E-07	2.30E-08	5.31E-08	0.00E+00	7.61E-08	1.20E-08	2.03E-08	0.00E+00	3.22E-08
2173	600180.4	4175946	1.37E-07	3.40E-07	0.00E+00	4.77E-07	1.37E-07	3.40E-07	0.00E+00	4.77E-07	2.22E-08	5.15E-08	0.00E+00	7.37E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
2174	600184.1	4175955	1.35E-07	3.36E-07	0.00E+00	4.70E-07	1.35E-07	3.36E-07	0.00E+00	4.70E-07	2.19E-08	5.07E-08	0.00E+00	7.27E-08	1.14E-08	1.93E-08	0.00E+00	3.08E-08
2175	600187.9	4175963	1.33E-07	3.31E-07	0.00E+00	4.64E-07	1.33E-07	3.31E-07	0.00E+00	4.64E-07	2.16E-08	5.00E-08	0.00E+00	7.16E-08	1.13E-08	1.91E-08	0.00E+00	3.03E-08
2176	600191.6	4175972	1.3E-07	3.24E-07	0.00E+00	4.54E-07	1.30E-07	3.24E-07	0.00E+00	4.54E-07	2.11E-08	4.89E-08	0.00E+00	7.01E-08	1.10E-08	1.86E-08	0.00E+00	2.97E-08
2177	600195.4	4175980	1.29E-07	3.20E-07	0.00E+00	4.49E-07	1.29E-07	3.20E-07	0.00E+00	4.49E-07	2.09E-08	4.84E-08	0.00E+00	6.94E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08
2178	600199.1	4175989	1.29E-07	3.20E-07	0.00E+00	4.49E-07	1.29E-07	3.20E-07	0.00E+00	4.49E-07	2.09E-08	4.84E-08	0.00E+00	6.94E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08
2179	600202.9	4175998	1.3E-07	3.24E-07	0.00E+00	4.54E-07	1.30E-07	3.24E-07	0.00E+00	4.54E-07	2.12E-08	4.90E-08	0.00E+00	7.01E-08	1.10E-08	1.87E-08	0.00E+00	2.97E-08
2180	600206.6	4176006	1.32E-07	3.28E-07	0.00E+00	4.60E-07	1.32E-07	3.28E-07	0.00E+00	4.60E-07	2.14E-08	4.96E-08	0.00E+00	7.10E-08	1.12E-08	1.89E-08	0.00E+00	3.01E-08
2181	600210.4	4176015	1.34E-07	3.33E-07	0.00E+00	4.66E-07	1.34E-07	3.33E-07	0.00E+00	4.66E-07	2.17E-08	5.03E-08	0.00E+00	7.21E-08	1.13E-08	1.92E-08	0.00E+00	3.05E-08
2182	600214.1	4176023	1.36E-07	3.38E-07	0.00E+00	4.74E-07	1.36E-07	3.38E-07	0.00E+00	4.74E-07	2.21E-08	5.12E-08	0.00E+00	7.33E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
2183	600217.9	4176032	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.46E-08	1.18E-08	1.99E-08	0.00E+00	3.16E-08
2184	600221.6	4176040	1.42E-07	3.53E-07	0.00E+00	4.95E-07	1.42E-07	3.53E-07	0.00E+00	4.95E-07	2.31E-08	5.34E-08	0.00E+00	7.65E-08	1.20E-08	2.04E-08	0.00E+00	3.24E-08
2185	600225.4	4176049	1.46E-07	3.64E-07	0.00E+00	5.10E-07	1.46E-07	3.64E-07	0.00E+00	5.10E-07	2.38E-08	5.51E-08	0.00E+00	7.89E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
2186	600229.1	4176058	1.52E-07	3.79E-07	0.00E+00	5.31E-07	1.52E-07	3.79E-07	0.00E+00	5.31E-07	2.48E-08	5.73E-08	0.00E+00	8.21E-08	1.29E-08	2.18E-08	0.00E+00	3.48E-08
2187	600232.8	4176066	1.59E-07	3.97E-07	0.00E+00	5.56E-07	1.59E-07	3.97E-07	0.00E+00	5.56E-07	2.59E-08	6.00E-08	0.00E+00	8.59E-08	1.35E-08	2.29E-08	0.00E+00	3.64E-08
2188	599768.1	4175563	8.54E-08	2.13E-07	0.00E+00	2.98E-07	8.54E-08	2.13E-07	0.00E+00	2.98E-07	1.39E-08	3.22E-08	0.00E+00	4.61E-08	7.25E-09	1.23E-08	0.00E+00	1.95E-08
2189	599776.7	4175567	9.35E-08	2.33E-07	0.00E+00	3.26E-07	9.35E-08	2.33E-07	0.00E+00	3.26E-07	1.52E-08	3.52E-08	0.00E+00	5.04E-08	7.94E-09	1.34E-08	0.00E+00	2.14E-08
2190	599785.4	4175571	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.72E-09	1.47E-08	0.00E+00	2.34E-08
2191	599794	4175575	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.86E-08	4.32E-08	0.00E+00	6.18E-08	9.73E-09	1.64E-08	0.00E+00	2.62E-08
2192	599802.7	4175579	1.3E-07	3.23E-07	0.00E+00	4.53E-07	1.30E-07	3.23E-07	0.00E+00	4.53E-07	2.11E-08	4.89E-08	0.00E+00	7.00E-08	1.10E-08	1.86E-08	0.00E+00	2.97E-08
2193	599811.3	4175582	1.49E-07	3.70E-07	0.00E+00	5.19E-07	1.49E-07	3.70E-07	0.00E+00	5.19E-07	2.42E-08	5.60E-08	0.00E+00	8.02E-08	1.26E-08	2.13E-08	0.00E+00	3.40E-08
2194	599820	4175586	1.67E-07	4.15E-07	0.00E+00	5.81E-07	1.67E-07	4.15E-07	0.00E+00	5.81E-07	2.71E-08	6.27E-08	0.00E+00	8.98E-08	1.41E-08	2.39E-08	0.00E+00	3.80E-08
2195	599828.7	4175590	1.85E-07	4.61E-07	0.00E+00	6.46E-07	1.85E-07	4.61E-07	0.00E+00	6.46E-07	3.01E-08	6.97E-08	0.00E+00	9.98E-08	1.57E-08	2.66E-08	0.00E+00	4.23E-08
2196	599837.3	4175594	2.06E-07	5.13E-07	0.00E+00	7.19E-07	2.06E-07	5.13E-07	0.00E+00	7.19E-07	3.35E-08	7.76E-08	0.00E+00	1.11E-07	1.75E-08	2.96E-08	0.00E+00	4.71E-08
2197	599846	4175598	2.24E-07	5.57E-07	0.00E+00	7.81E-07	2.24E-07	5.57E-07	0.00E+00	7.81E-07	3.64E-08	8.42E-08	0.00E+00	1.21E-07	1.90E-08	3.21E-08	0.00E+00	5.11E-08

2198	599854.6	4175602	2.29E-07	5.71E-07	0.00E+00	8.00E-07	2.29E-07	5.71E-07	0.00E+00	8.00E-07	3.73E-08	8.63E-08	0.00E+00	1.24E-07	1.95E-08	3.29E-08	0.00E+00	5.24E-08
2199	599863.3	4175605	2.33E-07	5.81E-07	0.00E+00	8.14E-07	2.33E-07	5.81E-07	0.00E+00	8.14E-07	3.80E-08	8.78E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.33E-08
2200	599871.9	4175609	2.36E-07	5.87E-07	0.00E+00	8.22E-07	2.36E-07	5.87E-07	0.00E+00	8.22E-07	3.83E-08	8.87E-08	0.00E+00	1.27E-07	2.00E-08	3.38E-08	0.00E+00	5.38E-08
2201	599880.6	4175613	2.36E-07	5.88E-07	0.00E+00	8.24E-07	2.36E-07	5.88E-07	0.00E+00	8.24E-07	3.84E-08	8.89E-08	0.00E+00	1.27E-07	2.01E-08	3.39E-08	0.00E+00	5.39E-08
2202	599889.3	4175617	2.37E-07	5.89E-07	0.00E+00	8.26E-07	2.37E-07	5.89E-07	0.00E+00	8.26E-07	3.85E-08	8.91E-08	0.00E+00	1.28E-07	2.01E-08	3.40E-08	0.00E+00	5.41E-08
2203	599897.9	4175621	2.37E-07	5.90E-07	0.00E+00	8.27E-07	2.37E-07	5.90E-07	0.00E+00	8.27E-07	3.85E-08	8.92E-08	0.00E+00	1.28E-07	2.01E-08	3.40E-08	0.00E+00	5.41E-08
2204	599906.6	4175625	2.39E-07	5.94E-07	0.00E+00	8.33E-07	2.39E-07	5.94E-07	0.00E+00	8.33E-07	3.88E-08	8.98E-08	0.00E+00	1.29E-07	2.03E-08	3.42E-08	0.00E+00	5.45E-08
2205	599915.2	4175629	2.43E-07	6.06E-07	0.00E+00	8.49E-07	2.43E-07	6.06E-07	0.00E+00	8.49E-07	3.96E-08	9.16E-08	0.00E+00	1.31E-07	2.06E-08	3.49E-08	0.00E+00	5.55E-08
2206	599923.9	4175632	2.48E-07	6.18E-07	0.00E+00	8.66E-07	2.48E-07	6.18E-07	0.00E+00	8.66E-07	4.04E-08	9.34E-08	0.00E+00	1.34E-07	2.11E-08	3.56E-08	0.00E+00	5.67E-08
2207	599932.6	4175636	2.54E-07	6.33E-07	0.00E+00	8.88E-07	2.54E-07	6.33E-07	0.00E+00	8.88E-07	4.14E-08	9.58E-08	0.00E+00	1.37E-07	2.16E-08	3.65E-08	0.00E+00	5.81E-08
2208	599941.2	4175640	2.57E-07	6.41E-07	0.00E+00	8.98E-07	2.57E-07	6.41E-07	0.00E+00	8.98E-07	4.19E-08	9.69E-08	0.00E+00	1.39E-07	2.18E-08	3.69E-08	0.00E+00	5.88E-08
2209	599949.9	4175644	2.63E-07	6.55E-07	0.00E+00	9.18E-07	2.63E-07	6.55E-07	0.00E+00	9.18E-07	4.28E-08	9.90E-08	0.00E+00	1.42E-07	2.23E-08	3.77E-08	0.00E+00	6.01E-08
2210	599958.5	4175648	2.72E-07	6.78E-07	0.00E+00	9.50E-07	2.72E-07	6.78E-07	0.00E+00	9.50E-07	4.43E-08	1.02E-07	0.00E+00	1.47E-07	2.31E-08	3.91E-08	0.00E+00	6.22E-08
2211	599967.2	4175652	2.78E-07	6.92E-07	0.00E+00	9.71E-07	2.78E-07	6.92E-07	0.00E+00	9.71E-07	4.52E-08	1.05E-07	0.00E+00	1.50E-07	2.36E-08	3.99E-08	0.00E+00	6.35E-08
2212	599975.8	4175655	2.73E-07	6.80E-07	0.00E+00	9.53E-07	2.73E-07	6.80E-07	0.00E+00	9.53E-07	4.44E-08	1.03E-07	0.00E+00	1.47E-07	2.32E-08	3.92E-08	0.00E+00	6.24E-08
2213	599984.5	4175659	2.67E-07	6.64E-07	0.00E+00	9.31E-07	2.67E-07	6.64E-07	0.00E+00	9.31E-07	4.34E-08	1.00E-07	0.00E+00	1.44E-07	2.26E-08	3.83E-08	0.00E+00	6.09E-08
2214	599993.2	4175663	2.6E-07	6.48E-07	0.00E+00	9.08E-07	2.60E-07	6.48E-07	0.00E+00	9.08E-07	4.23E-08	9.80E-08	0.00E+00	1.40E-07	2.21E-08	3.74E-08	0.00E+00	5.95E-08
2215	600001.8	4175667	2.49E-07	6.20E-07	0.00E+00	8.69E-07	2.49E-07	6.20E-07	0.00E+00	8.69E-07	4.05E-08	9.38E-08	0.00E+00	1.34E-07	2.12E-08	3.57E-08	0.00E+00	5.69E-08
2216	600010.5	4175671	2.38E-07	5.93E-07	0.00E+00	8.31E-07	2.38E-07	5.93E-07	0.00E+00	8.31E-07	3.87E-08	8.96E-08	0.00E+00	1.28E-07	2.02E-08	3.42E-08	0.00E+00	5.44E-08
2217	600019.1	4175675	2.28E-07	5.67E-07	0.00E+00	7.94E-07	2.28E-07	5.67E-07	0.00E+00	7.94E-07	3.70E-08	8.57E-08	0.00E+00	1.23E-07	1.93E-08	3.27E-08	0.00E+00	5.20E-08
2218	600027.8	4175679	2.18E-07	5.44E-07	0.00E+00	7.62E-07	2.18E-07	5.44E-07	0.00E+00	7.62E-07	3.55E-08	8.22E-08	0.00E+00	1.18E-07	1.85E-08	3.13E-08	0.00E+00	4.99E-08
2219	600154	4175839	1.61E-07	4.00E-07	0.00E+00	5.61E-07	1.61E-07	4.00E-07	0.00E+00	5.61E-07	2.61E-08	6.05E-08	0.00E+00	8.66E-08	1.36E-08	2.30E-08	0.00E+00	3.67E-08
2220	600157.8	4175848	1.61E-07	4.00E-07	0.00E+00	5.60E-07	1.61E-07	4.00E-07	0.00E+00	5.60E-07	2.61E-08	6.04E-08	0.00E+00	8.65E-08	1.36E-08	2.30E-08	0.00E+00	3.67E-08
2221	600161.6	4175857	1.6E-07	3.99E-07	0.00E+00	5.59E-07	1.60E-07	3.99E-07	0.00E+00	5.59E-07	2.60E-08	6.03E-08	0.00E+00	8.63E-08	1.36E-08	2.30E-08	0.00E+00	3.66E-08
2222	600165.4	4175866	1.59E-07	3.97E-07	0.00E+00	5.56E-07	1.59E-07	3.97E-07	0.00E+00	5.56E-07	2.59E-08	6.00E-08	0.00E+00	8.59E-08	1.35E-08	2.29E-08	0.00E+00	3.64E-08
2223	600169.2	4175874	1.57E-07	3.92E-07	0.00E+00	5.49E-07	1.57E-07	3.92E-07	0.00E+00	5.49E-07	2.56E-08	5.92E-08	0.00E+00	8.48E-08	1.34E-08	2.26E-08	0.00E+00	3.59E-08
2224	600173	4175883	1.56E-07	3.88E-07	0.00E+00	5.44E-07	1.56E-07	3.88E-07	0.00E+00	5.44E-07	2.54E-08	5.87E-08	0.00E+00	8.40E-08	1.32E-08	2.24E-08	0.00E+00	3.56E-08
2225	600176.8	4175892	1.54E-07	3.83E-07	0.00E+00	5.37E-07	1.54E-07	3.83E-07	0.00E+00	5.37E-07	2.50E-08	5.79E-08	0.00E+00	8.29E-08	1.31E-08	2.21E-08	0.00E+00	3.51E-08
2226	600180.6	4175900	1.5E-07	3.73E-07	0.00E+00	5.23E-07	1.50E-07	3.73E-07	0.00E+00	5.23E-07	2.44E-08	5.65E-08	0.00E+00	8.08E-08	1.27E-08	2.15E-08	0.00E+00	3.42E-08
2227	600184.4	4175909	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.81E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
2228	600188.2	4175918	1.4E-07	3.49E-07	0.00E+00	4.90E-07	1.40E-07	3.49E-07	0.00E+00	4.90E-07	2.28E-08	5.28E-08	0.00E+00	7.56E-08	1.19E-08	2.01E-08	0.00E+00	3.20E-08
2229	600192	4175926	1.36E-07	3.39E-07	0.00E+00	4.75E-07	1.36E-07	3.39E-07	0.00E+00	4.75E-07	2.21E-08	5.12E-08	0.00E+00	7.33E-08	1.15E-08	1.95E-08	0.00E+00	3.11E-08
2230	600195.8	4175935	1.32E-07	3.29E-07	0.00E+00	4.62E-07	1.32E-07	3.29E-07	0.00E+00	4.62E-07	2.15E-08	4.98E-08	0.00E+00	7.13E-08	1.12E-08	1.90E-08	0.00E+00	3.02E-08
2231	600199.6	4175944	1.3E-07	3.23E-07	0.00E+00	4.53E-07	1.30E-07	3.23E-07	0.00E+00	4.53E-07	2.11E-08	4.88E-08	0.00E+00	6.99E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
2232	600203.4	4175952	1.27E-07	3.17E-07	0.00E+00	4.45E-07	1.27E-07	3.17E-07	0.00E+00	4.45E-07	2.07E-08	4.80E-08	0.00E+00	6.87E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
2233	600207.2	4175961	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.05E-08	4.74E-08	0.00E+00	6.78E-08	1.07E-08	1.81E-08	0.00E+00	2.87E-08
2234	600211	4175970	1.25E-07	3.10E-07	0.00E+00	4.35E-07	1.25E-07	3.10E-07	0.00E+00	4.35E-07	2.03E-08	4.69E-08	0.00E+00	6.72E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
2235	600214.8	4175978	1.25E-07	3.11E-07	0.00E+00	4.35E-07	1.25E-07	3.11E-07	0.00E+00	4.35E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
2236	600218.6	4175987	1.25E-07	3.12E-07	0.00E+00	4.38E-07	1.25E-07	3.12E-07	0.00E+00	4.38E-07	2.04E-08	4.72E-08	0.00E+00	6.76E-08	1.07E-08	1.80E-08	0.00E+00	2.87E-08
2237	600222.4	4175996	1.27E-07	3.17E-07	0.00E+00	4.44E-07	1.27E-07	3.17E-07	0.00E+00	4.44E-07	2.07E-08	4.79E-08	0.00E+00	6.86E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
2238	600226.2	4176004	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
2239	600230	4176013	1.31E-07	3.27E-07	0.00E+00	4.58E-07	1.31E-07	3.27E-07	0.00E+00	4.58E-07	2.14E-08	4.95E-08	0.00E+00	7.08E-08	1.12E-08	1.88E-08	0.00E+00	3.00E-08
2240	600233.8	4176022	1.34E-07	3.34E-07	0.00E+00	4.69E-07	1.34E-07	3.34E-07	0.00E+00	4.69E-07	2.19E-08	5.06E-08	0.00E+00	7.24E-08	1.14E-08	1.93E-08	0.00E+00	3.07E-08
2241	600237.6	4176030	1.36E-07	3.39E-07	0.00E+00	4.76E-07	1.36E-07	3.39E-07	0.00E+00	4.76E-07	2.22E-08	5.13E-08	0.00E+00	7.35E-08	1.16E-08	1.96E-08	0.00E+00	3.11E-08
2242	600241.4	4176039	1.39E-07	3.45E-07	0.00E+00	4.84E-07	1.39E-07	3.45E-07	0.00E+00	4.84E-07	2.25E-08	5.22E-08	0.00E+00	7.47E-08	1.18E-08	1.99E-08	0.00E+00	3.17E-08
2243	600245.2	4176048	1.41E-07	3.51E-07	0.00E+00	4.92E-07	1.41E-07	3.51E-07	0.00E+00	4.92E-07	2.30E-08	5.31E-08	0.00E+00	7.61E-08	1.20E-08	2.02E-08	0.00E+00	3.22E-08
2244	600249	4176056	1.44E-07	3.59E-07	0.00E+00	5.02E-07	1.44E-07	3.59E-07	0.00E+00	5.02E-07	2.34E-08	5.42E-08	0.00E+00	7.76E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
2245	600252.8	4176065	1.47E-07	3.67E-07	0.00E+00	5.14E-07	1.47E-07	3.67E-07	0.00E+00	5.14E-07	2.40E-08	5.55E-08	0.00E+00	7.94E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
2246	599760.1	4175539	9.77E-08	2.43E-07	0.00E+00	3.41E-07	9.77E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.30E-09	1.40E-08	0.00E+00	2.23E-08
2247	599768.6	4175543	9.85E-08	2.45E-07	0.00E+00	3.44E-07	9.85E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.36E-09	1.41E-08	0.00E+00	2.25E-08
2248	599777.2	4175547	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.65E-08	3.83E-08	0.00E+00	5.48E-08	8.63E-09	1.46E-08	0.00E+00	2.32E-08
2249	599785.8	4175551	1.09E-07	2.70E-07	0.00E+00	3.79E-07	1.09E-07	2.70E-07	0.00E+00	3.79E-07	1.77E-08	4.09E-08	0.00E+00	5.86E-08	9.22E-09	1.56E-08	0.00E+00	2.48E-08
2250	599794.3	4175554	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
2251	599802.9	4175558	1.34E-07	3.33E-07	0.00E+00	4.67E-07	1.34E-07	3.33E-07	0.00E+00	4.67E-07	2.18E-08	5.04E-08	0.00E+00	7.21E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
2252	599811.5	4175562	1.48E-07	3.69E-07	0.00E+00	5.17E-07	1.48E-07	3.69E-07	0.00E+00	5.17E-07	2.41E-08	5.57E-08	0.00E+00	7.98E-08	1.26E-08	2.12E-08	0.00E+00	3.38E-08
2253	599820	4175566	1.61E-07	4.01E-07	0.00E+00	5.62E-07	1.61E-07	4.01E-07	0.00E+00	5.62E-07	2.62E-08	6.06E-08	0.00E+00	8.68E-08	1.37E-08	2.31E-08	0.00E+00	3.68E-08
2254	599828.6	4175570	1.75E-07	4.35E-07	0.00E+00	6.10E-07	1.75E-07	4.35E-07	0.00E+00	6.10E-07	2.84E-08	6.58E-08	0.00E+00	9.43E-08	1.48E-08	2.51E-08	0.00E+00	3.99E-08
2255	599837.2	4175573	1.9E-07	4.74E-07	0.00E+00	6.64E-07	1.90E-07	4.74E-07	0.00E+00	6.64E-07	3.10E-08	7.17E-08	0.00E+00	1.03E-07	1.62E-08	2.73E-08	0.00E+00	4.35E-08
2256	599845.7	4175577	2.04E-07	5.09E-07	0.00E+00	7.13E-07	2.04E-07	5.09E-07	0.00E+00	7.13E-07	3.32E-08	7.69E-08	0.00E+00	1.10E-07	1.73E-08	2.93E-08	0.00E+00	4.67E-08
2257	599854.3	4175581	2.1E-07	5.23E-07	0.00E+00	7.33E-07	2.10E-07	5.23E-07	0.00E+00	7.33E-07	3.42E-08	7.91E-08	0.00E+00	1.13E-07	1.78E-08	3.01E-08	0.00E+00	4.80E-08
2258	599862.9	4175585	2.17E-07	5.41E-07	0.00E+00	7.58E-07	2.17E-07	5.41E-07	0.00E+00	7.58E-07	3.53E-08	8.18E-08	0.00E+00	1.17E-07	1.84E-08	3.12E-08	0.00E+00	4.96E-08
2259	599871.4	4175589	2.26E-07	5.63E-07	0.00E+00	7.89E-07	2.26E-07	5.63E-07	0.00E+00	7.89E-07	3.68E-08	8.51E-08	0.00E+00	1.22E-07	1.92E-08	3.24E-08	0.00E+00	5.16E-08
2260	599880	4175592	2.33E-07	5.80E-07	0.00E+00	8.13E-07	2.33E-07	5.80E-07	0.00E+00	8.13E-07	3.79E-08	8.77E-08	0.00E+00	1.26E-07	1.98E-08	3.34E-08	0.00E+00	5.32E-08
2261	599888.5	4175596	2.41E-07	5.99E-07	0.00E+00	8.40E-07	2.41E-07	5.99E-07	0.00E+00	8.40E-07	3.91E-08	9.06E-08	0.00E+00	1.30E-07	2.04E-08	3.45E-08	0.00E+00	5.50E-08
2262	599897.1	4175600	2.42E-07	6.02E-07	0.00E+00	8.44E-07	2.42E-07	6.02E-07	0.00E+00	8.44E-07	3.93E-08	9.10E-08	0.00E+00	1.30E-07	2.05E-08	3.47E-08	0.00E+00	5.52E-08
2263	599905.7	4175604	2.4E-07	5.97E-07	0.00E+00	8.37E-07	2.40E-07	5.97E-07	0.00E+00	8.37E-07	3.90E-08	9.03E-08	0.00E+00	1.29E-07	2.04E-08	3.44E-08	0.00E+00	5.48E-08
2264	599914.2	4175608	2.32E-07	5.79E-07	0.00E+00	8.11E-07	2.32E-07	5.79E-07	0.00E+00	8.11E-07	3.78E-08	8.75E-08	0.00E+00	1.25E-07	1.97E-08	3.34E-08	0.00E+00	5.31E-08
2265	599922.8	4175612	2.3E-07	5.73E-07	0.00E+00	8.03E-07	2.30E-07	5.73E-07	0.00E+00	8.03E-07	3.74E-08	8.66E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.26E-08
2266	599931.4	4175615	2.33E-07	5.81E-07	0.00E+00	8.14E-07	2.33E-07	5.81E-07	0.00E+00	8.14E-07	3.80E-08	8.79E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.33E-08
2267	599939.9	4175619	2.4E-07	5.98E-07	0.00E+00	8.38E-07	2.40E-07	5.98E-07	0.00E+00	8.38E-07	3.90E-08	9.04E-08	0.00E+00	1.29E-07	2.04E-08	3.44E-08	0.00E+00	5.48E-08
2268	599948.5	4175623	2.46E-07	6.12E-07	0.00E+00	8.58E-07	2.46E-07	6.12E-07	0.00E+00	8.58E-07	4.00E-08	9.26E-08	0.00E+00	1.33E-07	2.09E-08	3.53E-08	0.00E+00	5.62E-08
2269	599957.1	4175627	2.5E-07	6.21E-07	0.00E+00	8.71E-07	2.50E-07	6.21E-07	0.00E+00	8.71E-07	4.06E-08	9.40E-08	0.00E+00	1.35E-07	2.12E-08	3.58E-08	0.00E+00	5.70E-08
2270	599965.6	4175631	2.53E-07	6.30E-07	0.00E+00	8.83E-07	2.53E-07	6.30E-07	0.00E+00	8.83E-07	4.11E-08	9.52E-08	0.00E+00	1.36E-07	2.15E-08	3.63E-08	0.00E+00	5.78E-08
2271	599974.2	4175634	2.59E-07	6.44E-07	0.00E+00	9.03E-07	2.59E-07	6.44E-07	0.00E+00	9.03E-07	4.21E-08	9.75E-08	0.00E+00	1.40E-07	2.20E-08	3.71E-08	0.00E+00	5.91E-08
2272	599982.8	4175638	2.61E-07	6.50E-07	0.00E+00	9.11E-07	2.61E-07	6.50E-07	0.00E+00	9.11E-07	4.25E-08	9.83E-08	0.00E+00	1.41E-07	2.22E-08	3.75E-08	0.00E+00	5.96E-08
2273	599991.3	4175642	2.59E-07	6.46E-07	0.00E+00	9.05E-07	2.59E-07	6.46E-07	0.00E+00	9.05E-07	4.22E-08	9.76E-08	0.00E+00	1.40E-07	2.20E-08	3.72E-08	0.00E+00	5.92E-08
2274	599999.9	4175646	2.52E-07	6.27E-07	0.00E+00	8.79E-07	2.52E-07	6.27E-07	0.00E+00	8.79E-07	4.10E-08	9.49E-08	0.00E+00	1.36E-07	2.14E-08	3.62E-08	0.00E+00	5.76E-08
2275	600008.5	4175650	2.41E-07	5.99E-07	0.00E+00	8.39E-07	2.41E-07	5.99E-07	0.00E+00	8.39E-07	3.91E-08	9.06E-08	0.00E+00	1.30E-07	2.04E-08	3.45E-08	0.00E+00	5.49E-08
2276	600017	4175653	2.27E-07	5.65E-07	0.00E+00	7.91E-07	2.27E-07	5.65E-07	0.00E+00	7.91E-07	3.69E-08	8.54E-08	0.00E+00	1.22E-07	1.93E-08	3.25E-08	0.00E+00	5.18E-08
2277	600025.6	4175657	2.16E-07	5.37E-07	0.00E+00	7.52E-07	2.16E-07	5.37E-07	0.00E+00	7.52E-07	3.51E-08	8.11E-08	0.00E+00	1.16E-07	1.83E-08	3.09E-08	0.00E+00	4.92E-08
2278	600034.1	4175661	2.12E-07	5.27E-07	0.00E+00	7.39E-07	2.12E-07	5.27E-07	0.00E+00	7.39E-07	3.44E-08	7.97E-08	0.00E+00	1.14E-07	1.80E-08	3.04E-08	0.00E+00	4.83E-08
2279	600163.8	4175815	1.53E-07	3.80E-07	0.00E+00	5.33E-07	1.53E-07	3.80E-07	0.00E+00	5.33E-07	2.49E-08	5.75E-08	0.00E+00	8.24E-08	1.30E-08	2.19E-08	0.00E+00	3.49E-08
2280	600167.6	4175824	1.51E-07	3.75E-07	0.00E+00	5.25E-07	1.51E-07	3.75E-07	0.00E+00	5.25E-07	2.45E-08	5.67E-08	0.00E+00	8.12E-08	1.28E-08	2.16E-08	0.00E+00	3.44E-08
2281	600171.4	4175833	1.48E-07	3.68E-07	0.00E+00	5.16E-07	1.48E-07	3.68E-07	0.00E+00	5.16E-07	2.41E-08	5.57E-08	0.00E+00	7.97E-08	1.26E-08	2.12E-08	0.00E+00	3.38E-08
2282	600175.1	4175841	1.47E-07	3.66E-07	0.00E+00	5.12E-07	1.47E-07	3.66E-07	0.00E+00	5.12E-07	2.39E-08	5.53E-08	0.00E+00	7.92E-08	1.25E-08	2.11E-08	0.00E+00	3.35E-08
2283	600178.9	4175850	1.47E-07	3.65E-07	0.00E+00	5.12E-07	1.47E-07	3.65E-07	0.00E+00	5.12E-07	2.39E-08	5.52E-08	0.00E+00	7.91E-08	1.25E-08	2.10E-08	0.00E+00	3.35E-08
2284	600182.6	4175858	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
2285	600186.4	4175867	1.44E-07	3.59E-07	0.00E+00	5.03E-07	1.44E-07	3.59E-07	0.00E+00	5.03E-07	2.34E-08	5.43E-08	0.00E+00	7.77E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
2286	600190.1	4175876	1.42E-07	3.55E-07	0.00E+00	4.97E-07	1.42E-07	3.55E-07	0.00E+00	4.97E-07	2.32E-08	5.36E-08	0.00E+00	7.68E-08	1.21E-08	2.04E-08	0.00E+00	3.25E-08
2287	600193.9	4175884	1.4E-07	3.50E-07	0.00E+00	4.90E-07	1.40E-07	3.50E-07	0.00E+00	4.90E-07	2.29E-08	5.29E-08	0.00E+00	7.57E-08	1.19E-08	2.02E-08	0.00E+00	3.21E-08
2288	600197.7	4175893	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.46E-08	1.17E-08	1.99E-08	0.00E+00	3.16E-08
2289	600201.4	4175901	1.35E-07	3.36E-07	0.00E+00	4.71E-07	1.35E-07	3.36E-07	0.00E+00	4.71E-07	2.20E-08	5.09E-08	0.00E+00	7.28E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
2290	600205.2	4175910	1.32E-07	3.28E-07	0.00E+00	4.59E-07	1.32E-07	3.28E-07	0.00E+00	4.59E-07	2.14E-08	4.96E-08	0.00E+00	7.10E-08	1.12E-08	1.89E-08	0.00E+00	3.01E-08
2291	600208.9	4175918	1.29E-07	3.21E-07	0.00E+00	4.49E-07	1.29E-07	3.21E-07	0.00E+00	4.49E-07	2.09E-08	4.85E-08	0.00E+00	6.94E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08
2292	600212.7	4175927	1.26E-07	3.14E-07	0.00E+00	4.39E-07	1.26E-07	3.14E-07	0.00E+00	4.39E-07	2.05E-08	4.74E-08	0.00E+00	6.79E-08	1.07E-08	1.81E-08	0.00E+00	2.88E-08
2293	600216.4	4175936	1.24E-07	3.08E-07	0.00E+00	4.31E-07	1.24E-07	3.08E-07	0.00E+00	4.31E-07	2.01E-08	4.65E-08	0.00E+00	6.67E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
2294	600220.2	4175944	1.24E-07	3.08E-07	0.00E+00	4.32E-07	1.24E-07	3.08E-07	0.00E+00	4.32E-07	2.01E-08	4.66E-08	0.00E+00	6.67E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
2295	600224	4175953	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.98E-08	4.59E-08	0.00E+00	6.58E-08	1.04E-08	1.75E-08	0.00E+00	2.79E-08
2296	600227.7	4175961	1.2E-07	2.98E-07	0.00E+00	4.18E-07	1.20E-07	2.98E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.46E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
2297	600231.5	4175970	1.2E-07	3.00E-07	0.00E+00	4.21E-07	1.20E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
2298	600235.2	4175979	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.57E-08	0.00E+00	6.54E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
2299	600239	4175987	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.98E-08	4.59E-08	0.00E+00	6.58E-08	1.04E-08	1.75E-08	0.00E+00	2.79E-08
2300	600242.7	4175996	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.63E-08	0.00E+00	6.63E-08	1.04E-08	1.77E-08	0.00E+00	2.81E-08
2301	600246.5	4176004	1.24E-07	3.09E-07	0.00E+00	4.33E-07	1.24E-07	3.09E-07	0.00E+00	4.33E-07	2.02E-08	4.68E-08	0.00E+00	6.70E-08	1.05E-08	1.78E-08	0.00E+00	2.84E-08
2302	600250.3	4176013	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.04E-08	4.73E-08	0.00E+00	6.78E-08	1.07E-08	1.80E-08	0.00E+00	2.87E-08
2303	600254	4176021	1.27E-07	3.17E-07	0.00E+00	4.45E-07	1.27E-07	3.17E-07	0.00E+00	4.45E-07	2.07E-08	4.80E-08	0.00E+00	6.87E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
2304	600257.8	4176030	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.85E-08	0.00E+00	6.95E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08
2305	600261.5	4176039	1.31E-07	3.25E-07	0.00E+00	4.56E-07	1.31E-07	3.25E-07	0.00E+00	4.56E-07	2.12E-08	4.91E-08	0.00E+00	7.04E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
2306	600265.3	4176047	1.32E-07	3.29E-07	0.00E+00	4.62E-07	1.32E-07	3.29E-07	0.00E+00	4.62E-07	2.15E-08	4.98E-08	0.00E+00	7.13E-08	1.12E-08	1.90E-08	0.00E+00	3.02E-08
2307	600269	4176056	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.04E-08	0.00E+00	7.22E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08

2308	600272.8	4176064	1.35E-07	3.37E-07	0.00E+00	4.73E-07	1.35E-07	3.37E-07	0.00E+00	4.73E-07	2.20E-08	5.10E-08	0.00E+00	7.31E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
2309	599761.3	4175519	9.79E-08	2.44E-07	0.00E+00	3.42E-07	9.79E-08	2.44E-07	0.00E+00	3.42E-07	1.59E-08	3.69E-08	0.00E+00	5.28E-08	8.32E-09	1.41E-08	0.00E+00	2.24E-08
2310	599770	4175523	9.97E-08	2.48E-07	0.00E+00	3.48E-07	9.97E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.38E-08	8.46E-09	1.43E-08	0.00E+00	2.28E-08
2311	599778.7	4175527	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.67E-08	3.85E-08	0.00E+00	5.52E-08	8.69E-09	1.47E-08	0.00E+00	2.34E-08
2312	599787.3	4175531	1.1E-07	2.74E-07	0.00E+00	3.83E-07	1.10E-07	2.74E-07	0.00E+00	3.83E-07	1.79E-08	4.14E-08	0.00E+00	5.92E-08	9.33E-09	1.58E-08	0.00E+00	2.51E-08
2313	599796	4175535	1.24E-07	3.08E-07	0.00E+00	4.32E-07	1.24E-07	3.08E-07	0.00E+00	4.32E-07	2.02E-08	4.66E-08	0.00E+00	6.68E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08
2314	599804.7	4175539	1.37E-07	3.41E-07	0.00E+00	4.78E-07	1.37E-07	3.41E-07	0.00E+00	4.78E-07	2.23E-08	5.16E-08	0.00E+00	7.39E-08	1.16E-08	1.97E-08	0.00E+00	3.13E-08
2315	599813.4	4175542	1.5E-07	3.74E-07	0.00E+00	5.24E-07	1.50E-07	3.74E-07	0.00E+00	5.24E-07	2.44E-08	5.65E-08	0.00E+00	8.09E-08	1.27E-08	2.15E-08	0.00E+00	3.43E-08
2316	599822	4175546	1.59E-07	3.95E-07	0.00E+00	5.54E-07	1.59E-07	3.95E-07	0.00E+00	5.54E-07	2.58E-08	5.98E-08	0.00E+00	8.56E-08	1.35E-08	2.28E-08	0.00E+00	3.63E-08
2317	599830.7	4175550	1.69E-07	4.21E-07	0.00E+00	5.90E-07	1.69E-07	4.21E-07	0.00E+00	5.90E-07	2.75E-08	6.36E-08	0.00E+00	9.11E-08	1.43E-08	2.43E-08	0.00E+00	3.86E-08
2318	599839.4	4175554	1.81E-07	4.50E-07	0.00E+00	6.31E-07	1.81E-07	4.50E-07	0.00E+00	6.31E-07	2.94E-08	6.81E-08	0.00E+00	9.75E-08	1.54E-08	2.59E-08	0.00E+00	4.13E-08
2319	599848	4175558	1.88E-07	4.69E-07	0.00E+00	6.58E-07	1.88E-07	4.69E-07	0.00E+00	6.58E-07	3.07E-08	7.09E-08	0.00E+00	1.02E-07	1.60E-08	2.70E-08	0.00E+00	4.30E-08
2320	599856.7	4175562	1.91E-07	4.77E-07	0.00E+00	6.68E-07	1.91E-07	4.77E-07	0.00E+00	6.68E-07	3.11E-08	7.21E-08	0.00E+00	1.03E-07	1.63E-08	2.75E-08	0.00E+00	4.37E-08
2321	599865.4	4175566	1.95E-07	4.86E-07	0.00E+00	6.81E-07	1.95E-07	4.86E-07	0.00E+00	6.81E-07	3.17E-08	7.34E-08	0.00E+00	1.05E-07	1.66E-08	2.80E-08	0.00E+00	4.45E-08
2322	599874	4175569	2E-07	4.98E-07	0.00E+00	6.98E-07	2.00E-07	4.98E-07	0.00E+00	6.98E-07	3.25E-08	7.53E-08	0.00E+00	1.08E-07	1.70E-08	2.87E-08	0.00E+00	4.57E-08
2323	599882.7	4175573	1.98E-07	4.94E-07	0.00E+00	6.92E-07	1.98E-07	4.94E-07	0.00E+00	6.92E-07	3.23E-08	7.47E-08	0.00E+00	1.07E-07	1.68E-08	2.85E-08	0.00E+00	4.53E-08
2324	599891.4	4175577	1.99E-07	4.96E-07	0.00E+00	6.95E-07	1.99E-07	4.96E-07	0.00E+00	6.95E-07	3.24E-08	7.49E-08	0.00E+00	1.07E-07	1.69E-08	2.86E-08	0.00E+00	4.55E-08
2325	599900	4175581	2.03E-07	5.05E-07	0.00E+00	7.08E-07	2.03E-07	5.05E-07	0.00E+00	7.08E-07	3.30E-08	7.63E-08	0.00E+00	1.09E-07	1.72E-08	2.91E-08	0.00E+00	4.63E-08
2326	599908.7	4175585	2.05E-07	5.10E-07	0.00E+00	7.14E-07	2.05E-07	5.10E-07	0.00E+00	7.14E-07	3.33E-08	7.71E-08	0.00E+00	1.10E-07	1.74E-08	2.94E-08	0.00E+00	4.68E-08
2327	599917.4	4175589	2.02E-07	5.04E-07	0.00E+00	7.06E-07	2.02E-07	5.04E-07	0.00E+00	7.06E-07	3.29E-08	7.61E-08	0.00E+00	1.09E-07	1.72E-08	2.90E-08	0.00E+00	4.62E-08
2328	599926	4175593	1.98E-07	4.93E-07	0.00E+00	6.90E-07	1.98E-07	4.93E-07	0.00E+00	6.90E-07	3.22E-08	7.45E-08	0.00E+00	1.07E-07	1.68E-08	2.84E-08	0.00E+00	4.52E-08
2329	599934.7	4175596	1.93E-07	4.82E-07	0.00E+00	6.75E-07	1.93E-07	4.82E-07	0.00E+00	6.75E-07	3.15E-08	7.28E-08	0.00E+00	1.04E-07	1.64E-08	2.78E-08	0.00E+00	4.42E-08
2330	599943.4	4175600	2.02E-07	5.02E-07	0.00E+00	7.03E-07	2.02E-07	5.02E-07	0.00E+00	7.03E-07	3.28E-08	7.59E-08	0.00E+00	1.09E-07	1.71E-08	2.89E-08	0.00E+00	4.60E-08
2331	599952	4175604	2.09E-07	5.20E-07	0.00E+00	7.29E-07	2.09E-07	5.20E-07	0.00E+00	7.29E-07	3.40E-08	7.86E-08	0.00E+00	1.13E-07	1.77E-08	3.00E-08	0.00E+00	4.77E-08
2332	599960.7	4175608	2.15E-07	5.37E-07	0.00E+00	7.52E-07	2.15E-07	5.37E-07	0.00E+00	7.52E-07	3.51E-08	8.11E-08	0.00E+00	1.16E-07	1.83E-08	3.09E-08	0.00E+00	4.92E-08
2333	599969.4	4175612	2.24E-07	5.57E-07	0.00E+00	7.81E-07	2.24E-07	5.57E-07	0.00E+00	7.81E-07	3.64E-08	8.43E-08	0.00E+00	1.21E-07	1.90E-08	3.21E-08	0.00E+00	5.11E-08
2334	599978.1	4175616	2.34E-07	5.84E-07	0.00E+00	8.18E-07	2.34E-07	5.84E-07	0.00E+00	8.18E-07	3.81E-08	8.82E-08	0.00E+00	1.26E-07	1.99E-08	3.36E-08	0.00E+00	5.35E-08
2335	599986.7	4175619	2.46E-07	6.12E-07	0.00E+00	8.58E-07	2.46E-07	6.12E-07	0.00E+00	8.58E-07	4.00E-08	9.26E-08	0.00E+00	1.33E-07	2.09E-08	3.53E-08	0.00E+00	5.62E-08
2336	599995.4	4175623	2.58E-07	6.44E-07	0.00E+00	9.02E-07	2.58E-07	6.44E-07	0.00E+00	9.02E-07	4.20E-08	9.73E-08	0.00E+00	1.39E-07	2.19E-08	3.71E-08	0.00E+00	5.90E-08
2337	600004.1	4175627	2.67E-07	6.65E-07	0.00E+00	9.32E-07	2.67E-07	6.65E-07	0.00E+00	9.32E-07	4.34E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.83E-08	0.00E+00	6.10E-08
2338	600012.7	4175631	2.64E-07	6.57E-07	0.00E+00	9.21E-07	2.64E-07	6.57E-07	0.00E+00	9.21E-07	4.29E-08	9.94E-08	0.00E+00	1.42E-07	2.24E-08	3.79E-08	0.00E+00	6.03E-08
2339	600021.4	4175635	2.56E-07	6.37E-07	0.00E+00	8.93E-07	2.56E-07	6.37E-07	0.00E+00	8.93E-07	4.16E-08	9.64E-08	0.00E+00	1.38E-07	2.17E-08	3.67E-08	0.00E+00	5.85E-08
2340	600030.1	4175639	2.45E-07	6.10E-07	0.00E+00	8.55E-07	2.45E-07	6.10E-07	0.00E+00	8.55E-07	3.99E-08	9.23E-08	0.00E+00	1.32E-07	2.08E-08	3.52E-08	0.00E+00	5.60E-08
2341	600038.7	4175643	2.34E-07	5.83E-07	0.00E+00	8.17E-07	2.34E-07	5.83E-07	0.00E+00	8.17E-07	3.81E-08	8.81E-08	0.00E+00	1.26E-07	1.99E-08	3.36E-08	0.00E+00	5.35E-08
2342	600047.4	4175646	2.23E-07	5.56E-07	0.00E+00	7.79E-07	2.23E-07	5.56E-07	0.00E+00	7.79E-07	3.63E-08	8.41E-08	0.00E+00	1.20E-07	1.90E-08	3.20E-08	0.00E+00	5.10E-08
2343	600178.7	4175803	1.47E-07	3.66E-07	0.00E+00	5.12E-07	1.47E-07	3.66E-07	0.00E+00	5.12E-07	2.39E-08	5.53E-08	0.00E+00	7.92E-08	1.25E-08	2.11E-08	0.00E+00	3.35E-08
2344	600182.5	4175811	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.82E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
2345	600186.3	4175820	1.43E-07	3.56E-07	0.00E+00	4.99E-07	1.43E-07	3.56E-07	0.00E+00	4.99E-07	2.33E-08	5.38E-08	0.00E+00	7.71E-08	1.21E-08	2.05E-08	0.00E+00	3.27E-08
2346	600190.1	4175829	1.41E-07	3.50E-07	0.00E+00	4.91E-07	1.41E-07	3.50E-07	0.00E+00	4.91E-07	2.29E-08	5.30E-08	0.00E+00	7.59E-08	1.20E-08	2.02E-08	0.00E+00	3.22E-08
2347	600193.9	4175838	1.39E-07	3.45E-07	0.00E+00	4.84E-07	1.39E-07	3.45E-07	0.00E+00	4.84E-07	2.26E-08	5.22E-08	0.00E+00	7.48E-08	1.18E-08	1.99E-08	0.00E+00	3.17E-08
2348	600197.7	4175846	1.37E-07	3.41E-07	0.00E+00	4.79E-07	1.37E-07	3.41E-07	0.00E+00	4.79E-07	2.23E-08	5.16E-08	0.00E+00	7.39E-08	1.16E-08	1.97E-08	0.00E+00	3.13E-08
2349	600201.5	4175855	1.35E-07	3.36E-07	0.00E+00	4.71E-07	1.35E-07	3.36E-07	0.00E+00	4.71E-07	2.20E-08	5.08E-08	0.00E+00	7.28E-08	1.15E-08	1.94E-08	0.00E+00	3.08E-08
2350	600205.3	4175864	1.33E-07	3.30E-07	0.00E+00	4.63E-07	1.33E-07	3.30E-07	0.00E+00	4.63E-07	2.16E-08	4.99E-08	0.00E+00	7.15E-08	1.13E-08	1.90E-08	0.00E+00	3.03E-08
2351	600209.1	4175872	1.31E-07	3.27E-07	0.00E+00	4.58E-07	1.31E-07	3.27E-07	0.00E+00	4.58E-07	2.14E-08	4.94E-08	0.00E+00	7.08E-08	1.12E-08	1.88E-08	0.00E+00	3.00E-08
2352	600212.9	4175881	1.3E-07	3.23E-07	0.00E+00	4.53E-07	1.30E-07	3.23E-07	0.00E+00	4.53E-07	2.11E-08	4.89E-08	0.00E+00	7.00E-08	1.10E-08	1.86E-08	0.00E+00	2.97E-08
2353	600216.7	4175890	1.28E-07	3.19E-07	0.00E+00	4.47E-07	1.28E-07	3.19E-07	0.00E+00	4.47E-07	2.08E-08	4.82E-08	0.00E+00	6.90E-08	1.09E-08	1.84E-08	0.00E+00	2.92E-08
2354	600220.5	4175898	1.26E-07	3.13E-07	0.00E+00	4.38E-07	1.26E-07	3.13E-07	0.00E+00	4.38E-07	2.04E-08	4.73E-08	0.00E+00	6.77E-08	1.07E-08	1.80E-08	0.00E+00	2.87E-08
2355	600224.3	4175907	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.63E-08	0.00E+00	6.64E-08	1.04E-08	1.77E-08	0.00E+00	2.81E-08
2356	600228.1	4175916	1.21E-07	3.01E-07	0.00E+00	4.21E-07	1.21E-07	3.01E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.51E-08	1.02E-08	1.73E-08	0.00E+00	2.76E-08
2357	600231.9	4175924	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.93E-08	4.46E-08	0.00E+00	6.39E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
2358	600235.7	4175933	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.31E-08	9.93E-09	1.68E-08	0.00E+00	2.67E-08
2359	600239.5	4175942	1.16E-07	2.89E-07	0.00E+00	4.04E-07	1.16E-07	2.89E-07	0.00E+00	4.04E-07	1.89E-08	4.36E-08	0.00E+00	6.25E-08	9.84E-09	1.66E-08	0.00E+00	2.65E-08
2360	600243.3	4175950	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.33E-08	0.00E+00	6.20E-08	9.76E-09	1.65E-08	0.00E+00	2.62E-08
2361	600247.1	4175959	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.86E-08	4.31E-08	0.00E+00	6.18E-08	9.73E-09	1.64E-08	0.00E+00	2.62E-08
2362	600250.9	4175968	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.33E-08	0.00E+00	6.20E-08	9.77E-09	1.65E-08	0.00E+00	2.63E-08
2363	600254.7	4175977	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.88E-08	4.34E-08	0.00E+00	6.22E-08	9.80E-09	1.66E-08	0.00E+00	2.64E-08
2364	600258.5	4175985	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.83E-09	1.66E-08	0.00E+00	2.64E-08
2365	600262.3	4175994	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.30E-08	9.92E-09	1.68E-08	0.00E+00	2.67E-08
2366	600266.1	4176003	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.92E-08	4.44E-08	0.00E+00	6.36E-08	1.00E-08	1.69E-08	0.00E+00	2.69E-08
2367	600269.9	4176011	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.94E-08	4.48E-08	0.00E+00	6.42E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
2368	600273.7	4176020	1.2E-07	2.99E-07	0.00E+00	4.19E-07	1.20E-07	2.99E-07	0.00E+00	4.19E-07	1.95E-08	4.52E-08	0.00E+00	6.48E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
2369	600277.5	4176029	1.21E-07	3.02E-07	0.00E+00	4.24E-07	1.21E-07	3.02E-07	0.00E+00	4.24E-07	1.98E-08	4.57E-08	0.00E+00	6.55E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
2370	600281.3	4176037	1.23E-07	3.05E-07	0.00E+00	4.28E-07	1.23E-07	3.05E-07	0.00E+00	4.28E-07	2.00E-08	4.62E-08	0.00E+00	6.61E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
2371	600285.1	4176046	1.24E-07	3.09E-07	0.00E+00	4.34E-07	1.24E-07	3.09E-07	0.00E+00	4.34E-07	2.02E-08	4.68E-08	0.00E+00	6.70E-08	1.06E-08	1.78E-08	0.00E+00	2.84E-08
2372	600288.9	4176055	1.25E-07	3.10E-07	0.00E+00	4.35E-07	1.25E-07	3.10E-07	0.00E+00	4.35E-07	2.03E-08	4.69E-08	0.00E+00	6.71E-08	1.06E-08	1.79E-08	0.00E+00	2.84E-08
2373	600292.7	4176063	1.24E-07	3.10E-07	0.00E+00	4.34E-07	1.24E-07	3.10E-07	0.00E+00	4.34E-07	2.02E-08	4.68E-08	0.00E+00	6.71E-08	1.06E-08	1.79E-08	0.00E+00	2.84E-08
2374	599770.6	4175503	9.91E-08	2.47E-07	0.00E+00	3.46E-07	9.91E-08	2.47E-07	0.00E+00	3.46E-07	1.61E-08	3.73E-08	0.00E+00	5.34E-08	8.42E-09	1.42E-08	0.00E+00	2.26E-08
2375	599779.2	4175507	1E-07	2.49E-07	0.00E+00	3.49E-07	1.00E-07	2.49E-07	0.00E+00	3.49E-07	1.63E-08	3.77E-08	0.00E+00	5.40E-08	8.50E-09	1.44E-08	0.00E+00	2.29E-08
2376	599787.8	4175511	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.67E-08	8.92E-09	1.51E-08	0.00E+00	2.40E-08
2377	599796.4	4175515	1.1E-07	2.75E-07	0.00E+00	3.85E-07	1.10E-07	2.75E-07	0.00E+00	3.85E-07	1.79E-08	4.15E-08	0.00E+00	5.95E-08	9.36E-09	1.58E-08	0.00E+00	2.52E-08
2378	599804.9	4175518	1.22E-07	3.04E-07	0.00E+00	4.27E-07	1.22E-07	3.04E-07	0.00E+00	4.27E-07	1.99E-08	4.60E-08	0.00E+00	6.59E-08	1.04E-08	1.75E-08	0.00E+00	2.79E-08
2379	599813.5	4175522	1.36E-07	3.38E-07	0.00E+00	4.74E-07	1.36E-07	3.38E-07	0.00E+00	4.74E-07	2.21E-08	5.12E-08	0.00E+00	7.33E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
2380	599822.1	4175526	1.48E-07	3.68E-07	0.00E+00	5.16E-07	1.48E-07	3.68E-07	0.00E+00	5.16E-07	2.40E-08	5.56E-08	0.00E+00	7.97E-08	1.25E-08	2.12E-08	0.00E+00	3.37E-08
2381	599830.7	4175530	1.59E-07	3.95E-07	0.00E+00	5.54E-07	1.59E-07	3.95E-07	0.00E+00	5.54E-07	2.58E-08	5.98E-08	0.00E+00	8.56E-08	1.35E-08	2.28E-08	0.00E+00	3.63E-08
2382	599839.3	4175534	1.69E-07	4.21E-07	0.00E+00	5.90E-07	1.69E-07	4.21E-07	0.00E+00	5.90E-07	2.75E-08	6.36E-08	0.00E+00	9.11E-08	1.44E-08	2.43E-08	0.00E+00	3.86E-08
2383	599847.8	4175537	1.75E-07	4.35E-07	0.00E+00	6.09E-07	1.75E-07	4.35E-07	0.00E+00	6.09E-07	2.84E-08	6.58E-08	0.00E+00	9.42E-08	1.48E-08	2.51E-08	0.00E+00	3.99E-08
2384	599856.4	4175541	1.77E-07	4.40E-07	0.00E+00	6.16E-07	1.77E-07	4.40E-07	0.00E+00	6.16E-07	2.87E-08	6.65E-08	0.00E+00	9.52E-08	1.50E-08	2.53E-08	0.00E+00	4.03E-08
2385	599865	4175545	1.79E-07	4.46E-07	0.00E+00	6.25E-07	1.79E-07	4.46E-07	0.00E+00	6.25E-07	2.91E-08	6.75E-08	0.00E+00	9.66E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
2386	599873.6	4175549	1.82E-07	4.54E-07	0.00E+00	6.36E-07	1.82E-07	4.54E-07	0.00E+00	6.36E-07	2.96E-08	6.86E-08	0.00E+00	9.82E-08	1.55E-08	2.61E-08	0.00E+00	4.16E-08
2387	599882.2	4175553	1.76E-07	4.39E-07	0.00E+00	6.15E-07	1.76E-07	4.39E-07	0.00E+00	6.15E-07	2.87E-08	6.64E-08	0.00E+00	9.51E-08	1.50E-08	2.53E-08	0.00E+00	4.03E-08
2388	599890.7	4175556	1.7E-07	4.23E-07	0.00E+00	5.93E-07	1.70E-07	4.23E-07	0.00E+00	5.93E-07	2.77E-08	6.40E-08	0.00E+00	9.17E-08	1.44E-08	2.44E-08	0.00E+00	3.88E-08
2389	599899.3	4175560	1.64E-07	4.07E-07	0.00E+00	5.71E-07	1.64E-07	4.07E-07	0.00E+00	5.71E-07	2.66E-08	6.16E-08	0.00E+00	8.82E-08	1.39E-08	2.35E-08	0.00E+00	3.74E-08
2390	599907.9	4175564	1.59E-07	3.95E-07	0.00E+00	5.54E-07	1.59E-07	3.95E-07	0.00E+00	5.54E-07	2.58E-08	5.97E-08	0.00E+00	8.55E-08	1.35E-08	2.28E-08	0.00E+00	3.62E-08
2391	599916.5	4175568	1.58E-07	3.93E-07	0.00E+00	5.51E-07	1.58E-07	3.93E-07	0.00E+00	5.51E-07	2.57E-08	5.95E-08	0.00E+00	8.52E-08	1.34E-08	2.27E-08	0.00E+00	3.61E-08
2392	599925.1	4175572	1.58E-07	3.94E-07	0.00E+00	5.52E-07	1.58E-07	3.94E-07	0.00E+00	5.52E-07	2.58E-08	5.96E-08	0.00E+00	8.54E-08	1.34E-08	2.27E-08	0.00E+00	3.62E-08
2393	599933.7	4175576	1.57E-07	3.91E-07	0.00E+00	5.48E-07	1.57E-07	3.91E-07	0.00E+00	5.48E-07	2.56E-08	5.92E-08	0.00E+00	8.47E-08	1.33E-08	2.26E-08	0.00E+00	3.59E-08
2394	599942.2	4175579	1.6E-07	3.99E-07	0.00E+00	5.60E-07	1.60E-07	3.99E-07	0.00E+00	5.60E-07	2.61E-08	6.04E-08	0.00E+00	8.65E-08	1.36E-08	2.30E-08	0.00E+00	3.66E-08
2395	599950.8	4175583	1.66E-07	4.13E-07	0.00E+00	5.79E-07	1.66E-07	4.13E-07	0.00E+00	5.79E-07	2.70E-08	6.24E-08	0.00E+00	8.94E-08	1.41E-08	2.38E-08	0.00E+00	3.79E-08
2396	599959.4	4175587	1.73E-07	4.31E-07	0.00E+00	6.04E-07	1.73E-07	4.31E-07	0.00E+00	6.04E-07	2.82E-08	6.52E-08	0.00E+00	9.33E-08	1.47E-08	2.48E-08	0.00E+00	3.95E-08
2397	599968	4175591	1.83E-07	4.55E-07	0.00E+00	6.37E-07	1.83E-07	4.55E-07	0.00E+00	6.37E-07	2.97E-08	6.88E-08	0.00E+00	9.85E-08	1.55E-08	2.62E-08	0.00E+00	4.17E-08
2398	599976.6	4175595	1.94E-07	4.84E-07	0.00E+00	6.78E-07	1.94E-07	4.84E-07	0.00E+00	6.78E-07	3.16E-08	7.31E-08	0.00E+00	1.05E-07	1.65E-08	2.79E-08	0.00E+00	4.44E-08
2399	599985.1	4175598	2.04E-07	5.08E-07	0.00E+00	7.12E-07	2.04E-07	5.08E-07	0.00E+00	7.12E-07	3.32E-08	7.68E-08	0.00E+00	1.10E-07	1.73E-08	2.93E-08	0.00E+00	4.66E-08
2400	599993.7	4175602	2.13E-07	5.30E-07	0.00E+00	7.43E-07	2.13E-07	5.30E-07	0.00E+00	7.43E-07	3.46E-08	8.01E-08	0.00E+00	1.15E-07	1.81E-08	3.05E-08	0.00E+00	4.86E-08
2401	600002.3	4175606	2.22E-07	5.54E-07	0.00E+00	7.76E-07	2.22E-07	5.54E-07	0.00E+00	7.76E-07	3.62E-08	8.37E-08	0.00E+00	1.20E-07	1.89E-08	3.19E-08	0.00E+00	5.08E-08
2402	600010.9	4175610	2.33E-07	5.79E-07	0.00E+00	8.12E-07	2.33E-07	5.79E-07	0.00E+00	8.12E-07	3.79E-08	8.76E-08	0.00E+00	1.25E-07	1.98E-08	3.34E-08	0.00E+00	5.32E-08
2403	600019.5	4175614	2.44E-07	6.07E-07	0.00E+00	8.51E-07	2.44E-07	6.07E-07	0.00E+00	8.51E-07	3.97E-08	9.18E-08	0.00E+00	1.31E-07	2.07E-08	3.50E-08	0.00E+00	5.57E-08
2404	600028	4175617	2.53E-07	6.31E-07	0.00E+00	8.84E-07	2.53E-07	6.31E-07	0.00E+00	8.84E-07	4.12E-08	9.54E-08	0.00E+00	1.37E-07	2.15E-08	3.64E-08	0.00E+00	5.79E-08
2405	600036.6	4175621	2.62E-07	6.51E-07	0.00E+00	9.13E-07	2.62E-07	6.51E-07	0.00E+00	9.13E-07	4.25E-08	9.85E-08	0.00E+00	1.41E-07	2.22E-08	3.75E-08	0.00E+00	5.97E-08
2406	600045.2	4175625	2.7E-07	6.73E-07	0.00E+00	9.43E-07	2.70E-07	6.73E-07	0.00E+00	9.43E-07	4.39E-08	1.02E-07	0.00E+00	1.46E-07	2.29E-08	3.88E-08	0.00E+00	6.17E-08
2407	600053.8	4175629	2.62E-07	6.53E-07	0.00E+00	9.15E-07	2.62E-07	6.53E-07	0.00E+00	9.15E-07	4.26E-08	9.87E-08	0.00E+00	1.41E-07	2.23E-08	3.76E-08	0.00E+00	5.99E-08
2408	600188.5	4175779	1.45E-07	3.62E-07	0.00E+00	5.08E-07	1.45E-07	3.62E-07	0.00E+00	5.08E-07	2.37E-08	5.48E-08	0.00E+00	7.84E-08	1.24E-08	2.09E-08	0.00E+00	3.32E-08
2409	600192.3	4175787	1.44E-07	3.59E-07	0.00E+00	5.03E-07	1.44E-07	3.59E-07	0.00E+00	5.03E-07	2.34E-08	5.42E-08	0.00E+00	7.77E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
2410	600196.1	4175796	1.42E-07	3.54E-07	0.00E+00	4.96E-07	1.42E-07	3.54E-07	0.00E+00	4.96E-07	2.31E-08	5.36E-08	0.00E+00	7.67E-08	1.21E-08	2.04E-08	0.00E+00	3.25E-08
2411	600199.8	4175805	1.4E-07	3.49E-07	0.00E+00	4.89E-07	1.40E-07	3.49E-07	0.00E+00	4.89E-07	2.28E-08	5.28E-08	0.00E+00	7.56E-08	1.19E-08	2.01E-08	0.00E+00	3.20E-08
2412	600203.6	4175813	1.38E-07	3.44E-07	0.00E+00	4.82E-07	1.38E-07	3.44E-07	0.00E+00	4.82E-07	2.25E-08	5.20E-08	0.00E+00	7.44E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
2413	600207.4	4175822	1.36E-07	3.39E-07	0.00E+00	4.76E-07	1.36E-07	3.39E-07	0.00E+00	4.76E-07	2.22E-08	5.13E-08	0.00E+00	7.35E-08	1.16E-08	1.96E-08	0.00E+00	3.11E-08
2414	600211.1	4175830	1.34E-07	3.35E-07	0.00E+00	4.69E-07	1.34E-07	3.35E-07	0.00E+00	4.69E-07	2.19E-08	5.06E-08	0.00E+00	7.25E-08	1.14E-08	1.93E-08	0.00E+00	3.07E-08
2415	600214.9	4175839	1.33E-07	3.30E-07	0.00E+00	4.63E-07	1.33E-07	3.30E-07	0.00E+00	4.63E-07	2.16E-08	4.99E-08	0.00E+00	7.15E-08	1.13E-08	1.90E-08	0.00E+00	3.03E-08
2416	600218.6	4175848	1.31E-07	3.26E-07	0.00E+00	4.57E-07	1.31E-07	3.26E-07	0.00E+00	4.57E-07	2.13E-08	4.93E-08	0.00E+00	7.05E-08	1.11E-08	1.88E-08	0.00E+00	2.99E-08
2417	600222.4	4175856	1.29E-07	3.20E-07	0.00E+00	4.49E-07	1.29E-07	3.20E-07	0.00E+00	4.49E-07	2.09E-08	4.84E-08	0.00E+00	6.93E-08	1.09E-08	1.84E-08	0.00E+00	2.94E-08

2418	600226.2	4175865	1.26E-07	3.14E-07	0.00E+00	4.40E-07	1.26E-07	3.14E-07	0.00E+00	4.40E-07	2.05E-08	4.75E-08	0.00E+00	6.80E-08	1.07E-08	1.81E-08	0.00E+00	2.88E-08
2419	600229.9	4175873	1.24E-07	3.09E-07	0.00E+00	4.33E-07	1.24E-07	3.09E-07	0.00E+00	4.33E-07	2.02E-08	4.67E-08	0.00E+00	6.69E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08
2420	600233.7	4175882	1.22E-07	3.03E-07	0.00E+00	4.24E-07	1.22E-07	3.03E-07	0.00E+00	4.24E-07	1.98E-08	4.58E-08	0.00E+00	6.56E-08	1.03E-08	1.74E-08	0.00E+00	2.78E-08
2421	600237.5	4175891	1.19E-07	2.98E-07	0.00E+00	4.17E-07	1.19E-07	2.98E-07	0.00E+00	4.17E-07	1.94E-08	4.50E-08	0.00E+00	6.44E-08	1.01E-08	1.71E-08	0.00E+00	2.73E-08
2422	600241.2	4175899	1.17E-07	2.93E-07	0.00E+00	4.10E-07	1.17E-07	2.93E-07	0.00E+00	4.10E-07	1.91E-08	4.42E-08	0.00E+00	6.33E-08	9.97E-09	1.69E-08	0.00E+00	2.68E-08
2423	600245	4175908	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.35E-08	0.00E+00	6.24E-08	9.82E-09	1.66E-08	0.00E+00	2.64E-08
2424	600248.8	4175916	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
2425	600252.5	4175925	1.12E-07	2.80E-07	0.00E+00	3.93E-07	1.12E-07	2.80E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.07E-08	9.55E-09	1.61E-08	0.00E+00	2.57E-08
2426	600256.3	4175934	1.11E-07	2.75E-07	0.00E+00	3.86E-07	1.11E-07	2.75E-07	0.00E+00	3.86E-07	1.80E-08	4.16E-08	0.00E+00	5.96E-08	9.39E-09	1.59E-08	0.00E+00	2.53E-08
2427	600260.1	4175942	1.1E-07	2.74E-07	0.00E+00	3.84E-07	1.10E-07	2.74E-07	0.00E+00	3.84E-07	1.79E-08	4.14E-08	0.00E+00	5.93E-08	9.34E-09	1.58E-08	0.00E+00	2.51E-08
2428	600263.8	4175951	1.1E-07	2.73E-07	0.00E+00	3.82E-07	1.10E-07	2.73E-07	0.00E+00	3.82E-07	1.78E-08	4.13E-08	0.00E+00	5.91E-08	9.30E-09	1.57E-08	0.00E+00	2.50E-08
2429	600267.6	4175959	1.09E-07	2.72E-07	0.00E+00	3.82E-07	1.09E-07	2.72E-07	0.00E+00	3.82E-07	1.78E-08	4.12E-08	0.00E+00	5.90E-08	9.28E-09	1.57E-08	0.00E+00	2.50E-08
2430	600271.4	4175968	1.1E-07	2.73E-07	0.00E+00	3.82E-07	1.10E-07	2.73E-07	0.00E+00	3.82E-07	1.78E-08	4.13E-08	0.00E+00	5.91E-08	9.31E-09	1.57E-08	0.00E+00	2.50E-08
2431	600275.1	4175977	1.1E-07	2.73E-07	0.00E+00	3.83E-07	1.10E-07	2.73E-07	0.00E+00	3.83E-07	1.79E-08	4.13E-08	0.00E+00	5.92E-08	9.32E-09	1.58E-08	0.00E+00	2.51E-08
2432	600278.9	4175985	1.1E-07	2.74E-07	0.00E+00	3.85E-07	1.10E-07	2.74E-07	0.00E+00	3.85E-07	1.79E-08	4.15E-08	0.00E+00	5.94E-08	9.36E-09	1.58E-08	0.00E+00	2.52E-08
2433	600282.6	4175994	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.81E-08	4.18E-08	0.00E+00	5.99E-08	9.43E-09	1.59E-08	0.00E+00	2.54E-08
2434	600286.4	4176002	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.82E-08	4.21E-08	0.00E+00	6.03E-08	9.49E-09	1.60E-08	0.00E+00	2.55E-08
2435	600290.2	4176011	1.13E-07	2.80E-07	0.00E+00	3.93E-07	1.13E-07	2.80E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.07E-08	9.56E-09	1.62E-08	0.00E+00	2.57E-08
2436	600293.9	4176020	1.13E-07	2.82E-07	0.00E+00	3.96E-07	1.13E-07	2.82E-07	0.00E+00	3.96E-07	1.84E-08	4.27E-08	0.00E+00	6.11E-08	9.63E-09	1.63E-08	0.00E+00	2.59E-08
2437	600297.7	4176028	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
2438	600301.5	4176037	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.86E-08	4.31E-08	0.00E+00	6.18E-08	9.73E-09	1.64E-08	0.00E+00	2.62E-08
2439	600305.2	4176045	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.33E-08	0.00E+00	6.20E-08	9.76E-09	1.65E-08	0.00E+00	2.63E-08
2440	600309	4176054	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.34E-08	0.00E+00	6.21E-08	9.78E-09	1.65E-08	0.00E+00	2.63E-08
2441	600312.8	4176063	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.89E-08	4.37E-08	0.00E+00	6.26E-08	9.86E-09	1.67E-08	0.00E+00	2.65E-08
2442	599806.7	4175499	1.07E-07	2.66E-07	0.00E+00	3.72E-07	1.07E-07	2.66E-07	0.00E+00	3.72E-07	1.74E-08	4.02E-08	0.00E+00	5.75E-08	9.06E-09	1.53E-08	0.00E+00	2.44E-08
2443	599815.3	4175503	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.49E-08	0.00E+00	6.42E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
2444	599824	4175506	1.34E-07	3.35E-07	0.00E+00	4.69E-07	1.34E-07	3.35E-07	0.00E+00	4.69E-07	2.19E-08	5.06E-08	0.00E+00	7.25E-08	1.14E-08	1.93E-08	0.00E+00	3.07E-08
2445	599832.7	4175510	1.48E-07	3.68E-07	0.00E+00	5.16E-07	1.48E-07	3.68E-07	0.00E+00	5.16E-07	2.40E-08	5.56E-08	0.00E+00	7.97E-08	1.25E-08	2.12E-08	0.00E+00	3.37E-08
2446	599841.4	4175514	1.6E-07	3.98E-07	0.00E+00	5.58E-07	1.60E-07	3.98E-07	0.00E+00	5.58E-07	2.60E-08	6.02E-08	0.00E+00	8.63E-08	1.36E-08	2.30E-08	0.00E+00	3.65E-08
2447	599850.1	4175518	1.64E-07	4.10E-07	0.00E+00	5.74E-07	1.64E-07	4.10E-07	0.00E+00	5.74E-07	2.68E-08	6.19E-08	0.00E+00	8.87E-08	1.40E-08	2.36E-08	0.00E+00	3.76E-08
2448	599858.7	4175522	1.67E-07	4.15E-07	0.00E+00	5.82E-07	1.67E-07	4.15E-07	0.00E+00	5.82E-07	2.71E-08	6.28E-08	0.00E+00	8.99E-08	1.42E-08	2.39E-08	0.00E+00	3.81E-08
2449	599867.4	4175526	1.69E-07	4.21E-07	0.00E+00	5.90E-07	1.69E-07	4.21E-07	0.00E+00	5.90E-07	2.75E-08	6.36E-08	0.00E+00	9.11E-08	1.43E-08	2.42E-08	0.00E+00	3.86E-08
2450	599876.1	4175530	1.69E-07	4.20E-07	0.00E+00	5.88E-07	1.69E-07	4.20E-07	0.00E+00	5.88E-07	2.74E-08	6.35E-08	0.00E+00	9.09E-08	1.43E-08	2.42E-08	0.00E+00	3.85E-08
2451	599884.8	4175533	1.62E-07	4.02E-07	0.00E+00	5.64E-07	1.62E-07	4.02E-07	0.00E+00	5.64E-07	2.63E-08	6.08E-08	0.00E+00	8.71E-08	1.37E-08	2.32E-08	0.00E+00	3.69E-08
2452	599893.4	4175537	1.54E-07	3.84E-07	0.00E+00	5.38E-07	1.54E-07	3.84E-07	0.00E+00	5.38E-07	2.51E-08	5.80E-08	0.00E+00	8.31E-08	1.31E-08	2.21E-08	0.00E+00	3.52E-08
2453	599902.1	4175541	1.48E-07	3.68E-07	0.00E+00	5.16E-07	1.48E-07	3.68E-07	0.00E+00	5.16E-07	2.40E-08	5.56E-08	0.00E+00	7.97E-08	1.25E-08	2.12E-08	0.00E+00	3.38E-08
2454	599910.8	4175545	1.42E-07	3.54E-07	0.00E+00	4.96E-07	1.42E-07	3.54E-07	0.00E+00	4.96E-07	2.31E-08	5.35E-08	0.00E+00	7.66E-08	1.21E-08	2.04E-08	0.00E+00	3.25E-08
2455	599919.5	4175549	1.38E-07	3.42E-07	0.00E+00	4.80E-07	1.38E-07	3.42E-07	0.00E+00	4.80E-07	2.24E-08	5.18E-08	0.00E+00	7.42E-08	1.17E-08	1.97E-08	0.00E+00	3.14E-08
2456	599928.2	4175553	1.34E-07	3.33E-07	0.00E+00	4.67E-07	1.34E-07	3.33E-07	0.00E+00	4.67E-07	2.18E-08	5.04E-08	0.00E+00	7.22E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
2457	599936.8	4175557	1.32E-07	3.29E-07	0.00E+00	4.61E-07	1.32E-07	3.29E-07	0.00E+00	4.61E-07	2.15E-08	4.97E-08	0.00E+00	7.12E-08	1.12E-08	1.89E-08	0.00E+00	3.01E-08
2458	599945.5	4175560	1.31E-07	3.27E-07	0.00E+00	4.58E-07	1.31E-07	3.27E-07	0.00E+00	4.58E-07	2.13E-08	4.94E-08	0.00E+00	7.07E-08	1.11E-08	1.88E-08	0.00E+00	3.00E-08
2459	599954.2	4175564	1.3E-07	3.24E-07	0.00E+00	4.53E-07	1.30E-07	3.24E-07	0.00E+00	4.53E-07	2.11E-08	4.89E-08	0.00E+00	7.01E-08	1.10E-08	1.86E-08	0.00E+00	2.97E-08
2460	599962.9	4175568	1.31E-07	3.27E-07	0.00E+00	4.58E-07	1.31E-07	3.27E-07	0.00E+00	4.58E-07	2.13E-08	4.94E-08	0.00E+00	7.07E-08	1.11E-08	1.88E-08	0.00E+00	3.00E-08
2461	599971.5	4175572	1.36E-07	3.38E-07	0.00E+00	4.73E-07	1.36E-07	3.38E-07	0.00E+00	4.73E-07	2.21E-08	5.11E-08	0.00E+00	7.32E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
2462	599980.2	4175576	1.42E-07	3.53E-07	0.00E+00	4.95E-07	1.42E-07	3.53E-07	0.00E+00	4.95E-07	2.31E-08	5.34E-08	0.00E+00	7.65E-08	1.20E-08	2.04E-08	0.00E+00	3.24E-08
2463	599988.9	4175580	1.5E-07	3.73E-07	0.00E+00	5.23E-07	1.50E-07	3.73E-07	0.00E+00	5.23E-07	2.44E-08	5.64E-08	0.00E+00	8.08E-08	1.27E-08	2.15E-08	0.00E+00	3.42E-08
2464	599997.6	4175584	1.61E-07	4.00E-07	0.00E+00	5.60E-07	1.61E-07	4.00E-07	0.00E+00	5.60E-07	2.61E-08	6.04E-08	0.00E+00	8.66E-08	1.36E-08	2.30E-08	0.00E+00	3.67E-08
2465	600006.3	4175587	1.73E-07	4.32E-07	0.00E+00	6.05E-07	1.73E-07	4.32E-07	0.00E+00	6.05E-07	2.82E-08	6.53E-08	0.00E+00	9.35E-08	1.47E-08	2.49E-08	0.00E+00	3.96E-08
2466	600014.9	4175591	1.87E-07	4.65E-07	0.00E+00	6.52E-07	1.87E-07	4.65E-07	0.00E+00	6.52E-07	3.04E-08	7.03E-08	0.00E+00	1.01E-07	1.59E-08	2.68E-08	0.00E+00	4.27E-08
2467	600023.6	4175595	2E-07	4.99E-07	0.00E+00	6.99E-07	2.00E-07	4.99E-07	0.00E+00	6.99E-07	3.26E-08	7.54E-08	0.00E+00	1.08E-07	1.70E-08	2.88E-08	0.00E+00	4.58E-08
2468	600032.3	4175599	2.07E-07	5.15E-07	0.00E+00	7.22E-07	2.07E-07	5.15E-07	0.00E+00	7.22E-07	3.36E-08	7.79E-08	0.00E+00	1.12E-07	1.76E-08	2.97E-08	0.00E+00	4.72E-08
2469	600041	4175603	2.13E-07	5.30E-07	0.00E+00	7.43E-07	2.13E-07	5.30E-07	0.00E+00	7.43E-07	3.46E-08	8.02E-08	0.00E+00	1.15E-07	1.81E-08	3.06E-08	0.00E+00	4.86E-08
2470	600049.6	4175607	2.2E-07	5.47E-07	0.00E+00	7.66E-07	2.20E-07	5.47E-07	0.00E+00	7.66E-07	3.57E-08	8.27E-08	0.00E+00	1.18E-07	1.86E-08	3.15E-08	0.00E+00	5.02E-08
2471	600058.3	4175610	2.25E-07	5.60E-07	0.00E+00	7.85E-07	2.25E-07	5.60E-07	0.00E+00	7.85E-07	3.66E-08	8.47E-08	0.00E+00	1.21E-07	1.91E-08	3.23E-08	0.00E+00	5.14E-08
2472	600203.3	4175766	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.83E-08	1.23E-08	2.08E-08	0.00E+00	3.32E-08
2473	600207.1	4175775	1.43E-07	3.56E-07	0.00E+00	4.99E-07	1.43E-07	3.56E-07	0.00E+00	4.99E-07	2.33E-08	5.39E-08	0.00E+00	7.71E-08	1.21E-08	2.05E-08	0.00E+00	3.27E-08
2474	600210.9	4175783	1.41E-07	3.52E-07	0.00E+00	4.93E-07	1.41E-07	3.52E-07	0.00E+00	4.93E-07	2.30E-08	5.32E-08	0.00E+00	7.62E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
2475	600214.7	4175792	1.4E-07	3.47E-07	0.00E+00	4.87E-07	1.40E-07	3.47E-07	0.00E+00	4.87E-07	2.27E-08	5.25E-08	0.00E+00	7.52E-08	1.18E-08	2.00E-08	0.00E+00	3.19E-08
2476	600218.5	4175801	1.38E-07	3.43E-07	0.00E+00	4.80E-07	1.38E-07	3.43E-07	0.00E+00	4.80E-07	2.24E-08	5.18E-08	0.00E+00	7.42E-08	1.17E-08	1.97E-08	0.00E+00	3.14E-08
2477	600222.3	4175809	1.36E-07	3.38E-07	0.00E+00	4.73E-07	1.36E-07	3.38E-07	0.00E+00	4.73E-07	2.21E-08	5.10E-08	0.00E+00	7.31E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
2478	600226.1	4175818	1.34E-07	3.33E-07	0.00E+00	4.67E-07	1.34E-07	3.33E-07	0.00E+00	4.67E-07	2.17E-08	5.03E-08	0.00E+00	7.21E-08	1.14E-08	1.92E-08	0.00E+00	3.05E-08
2479	600229.9	4175827	1.32E-07	3.28E-07	0.00E+00	4.60E-07	1.32E-07	3.28E-07	0.00E+00	4.60E-07	2.14E-08	4.96E-08	0.00E+00	7.10E-08	1.12E-08	1.89E-08	0.00E+00	3.01E-08
2480	600233.7	4175836	1.3E-07	3.23E-07	0.00E+00	4.53E-07	1.30E-07	3.23E-07	0.00E+00	4.53E-07	2.11E-08	4.89E-08	0.00E+00	7.00E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
2481	600237.5	4175844	1.28E-07	3.18E-07	0.00E+00	4.45E-07	1.28E-07	3.18E-07	0.00E+00	4.45E-07	2.08E-08	4.80E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
2482	600241.3	4175853	1.25E-07	3.12E-07	0.00E+00	4.37E-07	1.25E-07	3.12E-07	0.00E+00	4.37E-07	2.04E-08	4.72E-08	0.00E+00	6.76E-08	1.06E-08	1.80E-08	0.00E+00	2.86E-08
2483	600245.1	4175862	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.63E-08	0.00E+00	6.63E-08	1.04E-08	1.76E-08	0.00E+00	2.81E-08
2484	600248.9	4175870	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
2485	600252.8	4175879	1.18E-07	2.94E-07	0.00E+00	4.13E-07	1.18E-07	2.94E-07	0.00E+00	4.13E-07	1.92E-08	4.45E-08	0.00E+00	6.38E-08	1.00E-08	1.70E-08	0.00E+00	2.70E-08
2486	600256.6	4175888	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.35E-08	0.00E+00	6.23E-08	9.82E-09	1.66E-08	0.00E+00	2.64E-08
2487	600260.4	4175896	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.84E-08	4.25E-08	0.00E+00	6.09E-08	9.59E-09	1.62E-08	0.00E+00	2.58E-08
2488	600264.2	4175905	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.80E-08	4.17E-08	0.00E+00	5.97E-08	9.41E-09	1.59E-08	0.00E+00	2.53E-08
2489	600268	4175914	1.09E-07	2.70E-07	0.00E+00	3.79E-07	1.09E-07	2.70E-07	0.00E+00	3.79E-07	1.77E-08	4.09E-08	0.00E+00	5.85E-08	9.22E-09	1.56E-08	0.00E+00	2.48E-08
2490	600271.8	4175923	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.06E-08	0.00E+00	5.81E-08	9.15E-09	1.55E-08	0.00E+00	2.46E-08
2491	600275.6	4175931	1.05E-07	2.62E-07	0.00E+00	3.68E-07	1.05E-07	2.62E-07	0.00E+00	3.68E-07	1.71E-08	3.97E-08	0.00E+00	5.68E-08	8.95E-09	1.51E-08	0.00E+00	2.41E-08
2492	600279.4	4175940	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.70E-08	3.93E-08	0.00E+00	5.63E-08	8.87E-09	1.50E-08	0.00E+00	2.39E-08
2493	600283.2	4175949	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.91E-08	0.00E+00	5.61E-08	8.83E-09	1.49E-08	0.00E+00	2.37E-08
2494	600287	4175957	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.69E-08	3.90E-08	0.00E+00	5.59E-08	8.80E-09	1.49E-08	0.00E+00	2.37E-08
2495	600290.8	4175966	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.91E-08	0.00E+00	5.60E-08	8.82E-09	1.49E-08	0.00E+00	2.37E-08
2496	600294.6	4175975	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.70E-08	3.93E-08	0.00E+00	5.63E-08	8.86E-09	1.50E-08	0.00E+00	2.38E-08
2497	600298.4	4175983	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.70E-08	3.95E-08	0.00E+00	5.65E-08	8.90E-09	1.50E-08	0.00E+00	2.39E-08
2498	600302.2	4175992	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.67E-08	8.93E-09	1.51E-08	0.00E+00	2.40E-08
2499	600306.1	4176001	1.05E-07	2.63E-07	0.00E+00	3.68E-07	1.05E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.68E-08	8.95E-09	1.51E-08	0.00E+00	2.41E-08
2500	600309.9	4176010	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.96E-09	1.51E-08	0.00E+00	2.41E-08
2501	600313.7	4176018	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.96E-09	1.51E-08	0.00E+00	2.41E-08
2502	600317.5	4176027	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.96E-09	1.51E-08	0.00E+00	2.41E-08
2503	600321.3	4176036	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.96E-09	1.51E-08	0.00E+00	2.41E-08
2504	600325.1	4176044	1.06E-07	2.64E-07	0.00E+00	3.69E-07	1.06E-07	2.64E-07	0.00E+00	3.69E-07	1.72E-08	3.98E-08	0.00E+00	5.71E-08	8.99E-09	1.52E-08	0.00E+00	2.42E-08
2505	600328.9	4176053	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.07E-09	1.53E-08	0.00E+00	2.44E-08
2506	600332.7	4176062	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.76E-08	4.07E-08	0.00E+00	5.83E-08	9.18E-09	1.55E-08	0.00E+00	2.47E-08
2507	599746.8	4175452	1.3E-07	3.23E-07	0.00E+00	4.53E-07	1.30E-07	3.23E-07	0.00E+00	4.53E-07	2.11E-08	4.89E-08	0.00E+00	7.00E-08	1.10E-08	1.86E-08	0.00E+00	2.97E-08
2508	599755.4	4175456	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.28E-08	0.00E+00	6.13E-08	9.65E-09	1.63E-08	0.00E+00	2.60E-08
2509	599764	4175459	9.92E-08	2.47E-07	0.00E+00	3.46E-07	9.92E-08	2.47E-07	0.00E+00	3.46E-07	1.61E-08	3.73E-08	0.00E+00	5.35E-08	8.42E-09	1.42E-08	0.00E+00	2.26E-08
2510	599772.6	4175463	9.24E-08	2.30E-07	0.00E+00	3.23E-07	9.24E-08	2.30E-07	0.00E+00	3.23E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.85E-09	1.33E-08	0.00E+00	2.11E-08
2511	599781.2	4175467	8.35E-08	2.08E-07	0.00E+00	2.91E-07	8.35E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.50E-08	7.09E-09	1.20E-08	0.00E+00	1.91E-08
2512	599807	4175478	9.26E-08	2.31E-07	0.00E+00	3.23E-07	9.26E-08	2.31E-07	0.00E+00	3.23E-07	1.51E-08	3.49E-08	0.00E+00	4.99E-08	7.86E-09	1.33E-08	0.00E+00	2.12E-08
2513	599815.6	4175482	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.43E-08	8.55E-09	1.45E-08	0.00E+00	2.30E-08
2514	599824.2	4175486	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.84E-08	4.26E-08	0.00E+00	6.10E-08	9.61E-09	1.62E-08	0.00E+00	2.58E-08
2515	599832.8	4175490	1.29E-07	3.20E-07	0.00E+00	4.49E-07	1.29E-07	3.20E-07	0.00E+00	4.49E-07	2.09E-08	4.84E-08	0.00E+00	6.94E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08
2516	599841.3	4175494	1.44E-07	3.58E-07	0.00E+00	5.02E-07	1.44E-07	3.58E-07	0.00E+00	5.02E-07	2.34E-08	5.42E-08	0.00E+00	7.76E-08	1.22E-08	2.06E-08	0.00E+00	3.29E-08
2517	599849.9	4175498	1.52E-07	3.78E-07	0.00E+00	5.30E-07	1.52E-07	3.78E-07	0.00E+00	5.30E-07	2.47E-08	5.72E-08	0.00E+00	8.18E-08	1.29E-08	2.18E-08	0.00E+00	3.47E-08
2518	599858.5	4175501	1.57E-07	3.91E-07	0.00E+00	5.48E-07	1.57E-07	3.91E-07	0.00E+00	5.48E-07	2.55E-08	5.91E-08	0.00E+00	8.46E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
2519	599867.1	4175505	1.61E-07	4.02E-07	0.00E+00	5.63E-07	1.61E-07	4.02E-07	0.00E+00	5.63E-07	2.63E-08	6.08E-08	0.00E+00	8.71E-08	1.37E-08	2.32E-08	0.00E+00	3.69E-08
2520	599875.7	4175509	1.63E-07	4.06E-07	0.00E+00	5.69E-07	1.63E-07	4.06E-07	0.00E+00	5.69E-07	2.65E-08	6.13E-08	0.00E+00	8.78E-08	1.38E-08	2.34E-08	0.00E+00	3.72E-08
2521	599884.3	4175513	1.58E-07	3.94E-07	0.00E+00	5.52E-07	1.58E-07	3.94E-07	0.00E+00	5.52E-07	2.57E-08	5.96E-08	0.00E+00	8.53E-08	1.34E-08	2.27E-08	0.00E+00	3.61E-08
2522	599892.9	4175517	1.53E-07	3.80E-07	0.00E+00	5.32E-07	1.53E-07	3.80E-07	0.00E+00	5.32E-07	2.48E-08	5.74E-08	0.00E+00	8.23E-08	1.30E-08	2.19E-08	0.00E+00	3.48E-08
2523	599901.5	4175520	1.46E-07	3.64E-07	0.00E+00	5.10E-07	1.46E-07	3.64E-07	0.00E+00	5.10E-07	2.38E-08	5.50E-08	0.00E+00	7.87E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
2524	599910.1	4175524	1.38E-07	3.43E-07	0.00E+00	4.81E-07	1.38E-07	3.43E-07	0.00E+00	4.81E-07	2.24E-08	5.19E-08	0.00E+00	7.43E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
2525	599918.7	4175528	1.29E-07	3.22E-07	0.00E+00	4.52E-07	1.29E-07	3.22E-07	0.00E+00	4.52E-07	2.10E-08	4.87E-08	0.00E+00	6.98E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
2526	599927.3	4175532	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.56E-08	0.00E+00	6.53E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
2527	599935.9	4175536	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.32E-08	0.00E+00	6.19E-08	9.75E-09	1.65E-08	0.00E+00	2.62E-08

2528	599944.5	4175540	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.22E-08	9.80E-09	1.66E-08	0.00E+00	2.64E-08
2529	599953.1	4175543	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.83E-09	1.66E-08	0.00E+00	2.65E-08
2530	599961.7	4175547	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.83E-09	1.66E-08	0.00E+00	2.64E-08
2531	599970.3	4175551	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.22E-08	9.80E-09	1.66E-08	0.00E+00	2.64E-08
2532	599978.9	4175555	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.33E-08	0.00E+00	6.20E-08	9.76E-09	1.65E-08	0.00E+00	2.62E-08
2533	599987.5	4175559	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.86E-08	4.30E-08	0.00E+00	6.16E-08	9.71E-09	1.64E-08	0.00E+00	2.61E-08
2534	599996.1	4175562	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.86E-08	4.32E-08	0.00E+00	6.18E-08	9.73E-09	1.64E-08	0.00E+00	2.62E-08
2535	600004.7	4175566	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.93E-08	4.46E-08	0.00E+00	6.39E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
2536	600013.2	4175570	1.28E-07	3.20E-07	0.00E+00	4.48E-07	1.28E-07	3.20E-07	0.00E+00	4.48E-07	2.09E-08	4.84E-08	0.00E+00	6.93E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
2537	600021.8	4175574	1.39E-07	3.46E-07	0.00E+00	4.85E-07	1.39E-07	3.46E-07	0.00E+00	4.85E-07	2.26E-08	5.23E-08	0.00E+00	7.49E-08	1.18E-08	1.99E-08	0.00E+00	3.17E-08
2538	600030.4	4175578	1.49E-07	3.71E-07	0.00E+00	5.20E-07	1.49E-07	3.71E-07	0.00E+00	5.20E-07	2.42E-08	5.61E-08	0.00E+00	8.03E-08	1.26E-08	2.14E-08	0.00E+00	3.40E-08
2539	600039	4175582	1.58E-07	3.94E-07	0.00E+00	5.52E-07	1.58E-07	3.94E-07	0.00E+00	5.52E-07	2.58E-08	5.96E-08	0.00E+00	8.54E-08	1.34E-08	2.27E-08	0.00E+00	3.62E-08
2540	600047.6	4175585	1.67E-07	4.16E-07	0.00E+00	5.83E-07	1.67E-07	4.16E-07	0.00E+00	5.83E-07	2.72E-08	6.29E-08	0.00E+00	9.01E-08	1.42E-08	2.40E-08	0.00E+00	3.81E-08
2541	600056.2	4175589	1.74E-07	4.34E-07	0.00E+00	6.09E-07	1.74E-07	4.34E-07	0.00E+00	6.09E-07	2.84E-08	6.57E-08	0.00E+00	9.41E-08	1.48E-08	2.50E-08	0.00E+00	3.98E-08
2542	600064.8	4175593	1.81E-07	4.51E-07	0.00E+00	6.32E-07	1.81E-07	4.51E-07	0.00E+00	6.32E-07	2.94E-08	6.81E-08	0.00E+00	9.76E-08	1.54E-08	2.60E-08	0.00E+00	4.13E-08
2543	600213.2	4175742	1.52E-07	3.79E-07	0.00E+00	5.32E-07	1.52E-07	3.79E-07	0.00E+00	5.32E-07	2.48E-08	5.74E-08	0.00E+00	8.22E-08	1.29E-08	2.19E-08	0.00E+00	3.48E-08
2544	600217	4175751	1.49E-07	3.72E-07	0.00E+00	5.21E-07	1.49E-07	3.72E-07	0.00E+00	5.21E-07	2.43E-08	5.63E-08	0.00E+00	8.06E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
2545	600220.7	4175759	1.47E-07	3.66E-07	0.00E+00	5.12E-07	1.47E-07	3.66E-07	0.00E+00	5.12E-07	2.39E-08	5.53E-08	0.00E+00	7.92E-08	1.25E-08	2.11E-08	0.00E+00	3.35E-08
2546	600224.5	4175768	1.44E-07	3.59E-07	0.00E+00	5.03E-07	1.44E-07	3.59E-07	0.00E+00	5.03E-07	2.35E-08	5.43E-08	0.00E+00	7.78E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
2547	600228.3	4175777	1.42E-07	3.53E-07	0.00E+00	4.95E-07	1.42E-07	3.53E-07	0.00E+00	4.95E-07	2.31E-08	5.34E-08	0.00E+00	7.65E-08	1.20E-08	2.03E-08	0.00E+00	3.24E-08
2548	600232.1	4175785	1.39E-07	3.47E-07	0.00E+00	4.87E-07	1.39E-07	3.47E-07	0.00E+00	4.87E-07	2.27E-08	5.25E-08	0.00E+00	7.52E-08	1.18E-08	2.00E-08	0.00E+00	3.19E-08
2549	600235.8	4175794	1.37E-07	3.41E-07	0.00E+00	4.78E-07	1.37E-07	3.41E-07	0.00E+00	4.78E-07	2.23E-08	5.16E-08	0.00E+00	7.39E-08	1.16E-08	1.97E-08	0.00E+00	3.13E-08
2550	600239.6	4175802	1.35E-07	3.36E-07	0.00E+00	4.71E-07	1.35E-07	3.36E-07	0.00E+00	4.71E-07	2.20E-08	5.08E-08	0.00E+00	7.28E-08	1.15E-08	1.94E-08	0.00E+00	3.08E-08
2551	600243.4	4175811	1.33E-07	3.32E-07	0.00E+00	4.65E-07	1.33E-07	3.32E-07	0.00E+00	4.65E-07	2.17E-08	5.02E-08	0.00E+00	7.18E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
2552	600247.1	4175820	1.31E-07	3.27E-07	0.00E+00	4.58E-07	1.31E-07	3.27E-07	0.00E+00	4.58E-07	2.14E-08	4.94E-08	0.00E+00	7.08E-08	1.11E-08	1.88E-08	0.00E+00	3.00E-08
2553	600250.9	4175828	1.29E-07	3.22E-07	0.00E+00	4.51E-07	1.29E-07	3.22E-07	0.00E+00	4.51E-07	2.10E-08	4.87E-08	0.00E+00	6.97E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
2554	600254.7	4175837	1.27E-07	3.16E-07	0.00E+00	4.44E-07	1.27E-07	3.16E-07	0.00E+00	4.44E-07	2.07E-08	4.79E-08	0.00E+00	6.85E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
2555	600258.5	4175846	1.25E-07	3.11E-07	0.00E+00	4.35E-07	1.25E-07	3.11E-07	0.00E+00	4.35E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
2556	600262.2	4175854	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.99E-08	4.61E-08	0.00E+00	6.60E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
2557	600266	4175863	1.2E-07	2.98E-07	0.00E+00	4.18E-07	1.20E-07	2.98E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.46E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
2558	600269.8	4175871	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.31E-08	9.93E-09	1.68E-08	0.00E+00	2.67E-08
2559	600273.5	4175880	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
2560	600277.3	4175889	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.81E-08	4.20E-08	0.00E+00	6.01E-08	9.47E-09	1.60E-08	0.00E+00	2.55E-08
2561	600281.1	4175897	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.77E-08	4.10E-08	0.00E+00	5.87E-08	9.25E-09	1.56E-08	0.00E+00	2.49E-08
2562	600284.8	4175906	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.73E-08	4.00E-08	0.00E+00	5.73E-08	9.03E-09	1.53E-08	0.00E+00	2.43E-08
2563	600288.6	4175914	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.69E-08	3.90E-08	0.00E+00	5.59E-08	8.80E-09	1.49E-08	0.00E+00	2.37E-08
2564	600292.4	4175923	1.02E-07	2.54E-07	0.00E+00	3.55E-07	1.02E-07	2.54E-07	0.00E+00	3.55E-07	1.66E-08	3.83E-08	0.00E+00	5.49E-08	8.65E-09	1.46E-08	0.00E+00	2.33E-08
2565	600296.2	4175932	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.43E-08	8.55E-09	1.44E-08	0.00E+00	2.30E-08
2566	600299.9	4175940	9.97E-08	2.48E-07	0.00E+00	3.48E-07	9.97E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.38E-08	8.47E-09	1.43E-08	0.00E+00	2.28E-08
2567	600303.7	4175949	9.9E-08	2.47E-07	0.00E+00	3.46E-07	9.90E-08	2.47E-07	0.00E+00	3.46E-07	1.61E-08	3.73E-08	0.00E+00	5.34E-08	8.41E-09	1.42E-08	0.00E+00	2.26E-08
2568	600307.5	4175958	9.87E-08	2.46E-07	0.00E+00	3.44E-07	9.87E-08	2.46E-07	0.00E+00	3.44E-07	1.61E-08	3.72E-08	0.00E+00	5.32E-08	8.38E-09	1.42E-08	0.00E+00	2.25E-08
2569	600311.2	4175966	9.89E-08	2.46E-07	0.00E+00	3.45E-07	9.89E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.40E-09	1.42E-08	0.00E+00	2.26E-08
2570	600315	4175975	9.93E-08	2.47E-07	0.00E+00	3.47E-07	9.93E-08	2.47E-07	0.00E+00	3.47E-07	1.62E-08	3.74E-08	0.00E+00	5.35E-08	8.43E-09	1.43E-08	0.00E+00	2.27E-08
2571	600318.8	4175983	9.95E-08	2.48E-07	0.00E+00	3.47E-07	9.95E-08	2.48E-07	0.00E+00	3.47E-07	1.62E-08	3.75E-08	0.00E+00	5.36E-08	8.45E-09	1.43E-08	0.00E+00	2.27E-08
2572	600322.6	4175992	9.95E-08	2.48E-07	0.00E+00	3.47E-07	9.95E-08	2.48E-07	0.00E+00	3.47E-07	1.62E-08	3.75E-08	0.00E+00	5.36E-08	8.45E-09	1.43E-08	0.00E+00	2.27E-08
2573	600326.3	4176001	9.91E-08	2.47E-07	0.00E+00	3.46E-07	9.91E-08	2.47E-07	0.00E+00	3.46E-07	1.61E-08	3.73E-08	0.00E+00	5.34E-08	8.41E-09	1.42E-08	0.00E+00	2.26E-08
2574	600330.1	4176009	9.86E-08	2.46E-07	0.00E+00	3.44E-07	9.86E-08	2.46E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.32E-08	8.37E-09	1.42E-08	0.00E+00	2.25E-08
2575	600333.9	4176018	9.82E-08	2.45E-07	0.00E+00	3.43E-07	9.82E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.30E-08	8.34E-09	1.41E-08	0.00E+00	2.24E-08
2576	600337.6	4176027	9.83E-08	2.45E-07	0.00E+00	3.43E-07	9.83E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.30E-08	8.35E-09	1.41E-08	0.00E+00	2.25E-08
2577	600341.4	4176035	9.86E-08	2.45E-07	0.00E+00	3.44E-07	9.86E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.37E-09	1.41E-08	0.00E+00	2.25E-08
2578	600345.2	4176044	9.91E-08	2.47E-07	0.00E+00	3.46E-07	9.91E-08	2.47E-07	0.00E+00	3.46E-07	1.61E-08	3.73E-08	0.00E+00	5.34E-08	8.41E-09	1.42E-08	0.00E+00	2.26E-08
2579	600348.9	4176052	9.97E-08	2.48E-07	0.00E+00	3.48E-07	9.97E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.76E-08	0.00E+00	5.38E-08	8.47E-09	1.43E-08	0.00E+00	2.28E-08
2580	600352.7	4176061	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.43E-08	8.55E-09	1.44E-08	0.00E+00	2.30E-08
2581	599738.2	4175448	1.46E-07	3.62E-07	0.00E+00	5.08E-07	1.46E-07	3.62E-07	0.00E+00	5.08E-07	2.37E-08	5.48E-08	0.00E+00	7.85E-08	1.24E-08	2.09E-08	0.00E+00	3.32E-08
2582	599728.7	4175447	1.58E-07	3.93E-07	0.00E+00	5.51E-07	1.58E-07	3.93E-07	0.00E+00	5.51E-07	2.57E-08	5.95E-08	0.00E+00	8.52E-08	1.34E-08	2.27E-08	0.00E+00	3.61E-08
2583	599765.2	4175439	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.83E-09	1.66E-08	0.00E+00	2.64E-08
2584	599773.9	4175443	9.89E-08	2.46E-07	0.00E+00	3.45E-07	9.89E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.39E-09	1.42E-08	0.00E+00	2.26E-08
2585	599782.6	4175447	8.6E-08	2.14E-07	0.00E+00	3.00E-07	8.60E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.24E-08	0.00E+00	4.64E-08	7.31E-09	1.23E-08	0.00E+00	1.97E-08
2586	599791.3	4175451	8.41E-08	2.10E-07	0.00E+00	2.94E-07	8.41E-08	2.10E-07	0.00E+00	2.94E-07	1.37E-08	3.17E-08	0.00E+00	4.54E-08	7.14E-09	1.21E-08	0.00E+00	1.92E-08
2587	599800	4175455	8.46E-08	2.11E-07	0.00E+00	2.95E-07	8.46E-08	2.11E-07	0.00E+00	2.95E-07	1.38E-08	3.19E-08	0.00E+00	4.56E-08	7.19E-09	1.21E-08	0.00E+00	1.93E-08
2588	599808.7	4175459	8.64E-08	2.15E-07	0.00E+00	3.01E-07	8.64E-08	2.15E-07	0.00E+00	3.01E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.33E-09	1.24E-08	0.00E+00	1.97E-08
2589	599817.3	4175463	9.3E-08	2.32E-07	0.00E+00	3.25E-07	9.30E-08	2.32E-07	0.00E+00	3.25E-07	1.51E-08	3.50E-08	0.00E+00	5.02E-08	7.90E-09	1.34E-08	0.00E+00	2.13E-08
2590	599826	4175466	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.66E-09	1.46E-08	0.00E+00	2.33E-08
2591	599834.7	4175470	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.22E-08	9.80E-09	1.66E-08	0.00E+00	2.64E-08
2592	599843.4	4175474	1.3E-07	3.23E-07	0.00E+00	4.52E-07	1.30E-07	3.23E-07	0.00E+00	4.52E-07	2.11E-08	4.88E-08	0.00E+00	6.99E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
2593	599852.1	4175478	1.37E-07	3.42E-07	0.00E+00	4.79E-07	1.37E-07	3.42E-07	0.00E+00	4.79E-07	2.23E-08	5.17E-08	0.00E+00	7.40E-08	1.17E-08	1.97E-08	0.00E+00	3.13E-08
2594	599860.8	4175482	1.44E-07	3.60E-07	0.00E+00	5.04E-07	1.44E-07	3.60E-07	0.00E+00	5.04E-07	2.35E-08	5.44E-08	0.00E+00	7.79E-08	1.23E-08	2.07E-08	0.00E+00	3.30E-08
2595	599869.5	4175486	1.51E-07	3.76E-07	0.00E+00	5.26E-07	1.51E-07	3.76E-07	0.00E+00	5.26E-07	2.45E-08	5.68E-08	0.00E+00	8.13E-08	1.28E-08	2.16E-08	0.00E+00	3.45E-08
2596	599878.1	4175490	1.53E-07	3.82E-07	0.00E+00	5.35E-07	1.53E-07	3.82E-07	0.00E+00	5.35E-07	2.49E-08	5.77E-08	0.00E+00	8.27E-08	1.30E-08	2.20E-08	0.00E+00	3.50E-08
2597	599886.8	4175494	1.52E-07	3.78E-07	0.00E+00	5.30E-07	1.52E-07	3.78E-07	0.00E+00	5.30E-07	2.47E-08	5.72E-08	0.00E+00	8.19E-08	1.29E-08	2.18E-08	0.00E+00	3.47E-08
2598	599895.5	4175497	1.49E-07	3.72E-07	0.00E+00	5.21E-07	1.49E-07	3.72E-07	0.00E+00	5.21E-07	2.43E-08	5.62E-08	0.00E+00	8.04E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
2599	599904.2	4175501	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.83E-08	1.23E-08	2.08E-08	0.00E+00	3.32E-08
2600	599912.9	4175505	1.37E-07	3.42E-07	0.00E+00	4.79E-07	1.37E-07	3.42E-07	0.00E+00	4.79E-07	2.23E-08	5.17E-08	0.00E+00	7.40E-08	1.17E-08	1.97E-08	0.00E+00	3.13E-08
2601	599921.6	4175509	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.85E-08	0.00E+00	6.95E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08
2602	599930.3	4175513	1.21E-07	3.01E-07	0.00E+00	4.21E-07	1.21E-07	3.01E-07	0.00E+00	4.21E-07	1.96E-08	4.55E-08	0.00E+00	6.51E-08	1.03E-08	1.73E-08	0.00E+00	2.76E-08
2603	599938.9	4175517	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.31E-08	9.93E-09	1.68E-08	0.00E+00	2.67E-08
2604	599947.6	4175521	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.23E-08	9.81E-09	1.66E-08	0.00E+00	2.64E-08
2605	599956.3	4175524	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.28E-08	0.00E+00	6.13E-08	9.65E-09	1.63E-08	0.00E+00	2.60E-08
2606	599965	4175528	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.81E-08	4.19E-08	0.00E+00	6.00E-08	9.45E-09	1.60E-08	0.00E+00	2.54E-08
2607	599973.7	4175532	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.77E-08	4.10E-08	0.00E+00	5.87E-08	9.24E-09	1.56E-08	0.00E+00	2.49E-08
2608	599982.4	4175536	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.73E-08	4.00E-08	0.00E+00	5.73E-08	9.03E-09	1.53E-08	0.00E+00	2.43E-08
2609	599991.1	4175540	1.06E-07	2.65E-07	0.00E+00	3.72E-07	1.06E-07	2.65E-07	0.00E+00	3.72E-07	1.73E-08	4.01E-08	0.00E+00	5.74E-08	9.04E-09	1.53E-08	0.00E+00	2.43E-08
2610	599999.7	4175544	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.20E-09	1.55E-08	0.00E+00	2.47E-08
2611	600008.4	4175548	1.11E-07	2.76E-07	0.00E+00	3.88E-07	1.11E-07	2.76E-07	0.00E+00	3.88E-07	1.81E-08	4.18E-08	0.00E+00	5.99E-08	9.43E-09	1.59E-08	0.00E+00	2.54E-08
2612	600017.1	4175551	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.85E-08	4.29E-08	0.00E+00	6.15E-08	9.68E-09	1.64E-08	0.00E+00	2.60E-08
2613	600025.8	4175555	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.90E-08	4.41E-08	0.00E+00	6.31E-08	9.94E-09	1.68E-08	0.00E+00	2.67E-08
2614	600034.5	4175559	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.53E-08	0.00E+00	6.49E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
2615	600043.2	4175563	1.24E-07	3.08E-07	0.00E+00	4.31E-07	1.24E-07	3.08E-07	0.00E+00	4.31E-07	2.01E-08	4.65E-08	0.00E+00	6.66E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
2616	600051.9	4175567	1.28E-07	3.19E-07	0.00E+00	4.47E-07	1.28E-07	3.19E-07	0.00E+00	4.47E-07	2.08E-08	4.82E-08	0.00E+00	6.90E-08	1.09E-08	1.84E-08	0.00E+00	2.92E-08
2617	600060.5	4175571	1.33E-07	3.32E-07	0.00E+00	4.66E-07	1.33E-07	3.32E-07	0.00E+00	4.66E-07	2.17E-08	5.02E-08	0.00E+00	7.19E-08	1.13E-08	1.91E-08	0.00E+00	3.05E-08
2618	600069.2	4175575	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.46E-08	1.18E-08	1.99E-08	0.00E+00	3.16E-08
2619	600227.9	4175729	1.57E-07	3.90E-07	0.00E+00	5.46E-07	1.57E-07	3.90E-07	0.00E+00	5.46E-07	2.55E-08	5.89E-08	0.00E+00	8.44E-08	1.33E-08	2.25E-08	0.00E+00	3.57E-08
2620	600231.7	4175738	1.54E-07	3.83E-07	0.00E+00	5.37E-07	1.54E-07	3.83E-07	0.00E+00	5.37E-07	2.50E-08	5.79E-08	0.00E+00	8.30E-08	1.31E-08	2.21E-08	0.00E+00	3.52E-08
2621	600235.5	4175747	1.51E-07	3.77E-07	0.00E+00	5.28E-07	1.51E-07	3.77E-07	0.00E+00	5.28E-07	2.46E-08	5.70E-08	0.00E+00	8.16E-08	1.28E-08	2.17E-08	0.00E+00	3.46E-08
2622	600239.3	4175755	1.47E-07	3.67E-07	0.00E+00	5.14E-07	1.47E-07	3.67E-07	0.00E+00	5.14E-07	2.39E-08	5.54E-08	0.00E+00	7.94E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
2623	600243.1	4175764	1.44E-07	3.57E-07	0.00E+00	5.01E-07	1.44E-07	3.57E-07	0.00E+00	5.01E-07	2.34E-08	5.40E-08	0.00E+00	7.74E-08	1.22E-08	2.06E-08	0.00E+00	3.28E-08
2624	600246.9	4175773	1.41E-07	3.50E-07	0.00E+00	4.91E-07	1.41E-07	3.50E-07	0.00E+00	4.91E-07	2.29E-08	5.29E-08	0.00E+00	7.58E-08	1.19E-08	2.02E-08	0.00E+00	3.21E-08
2625	600250.7	4175781	1.38E-07	3.44E-07	0.00E+00	4.82E-07	1.38E-07	3.44E-07	0.00E+00	4.82E-07	2.25E-08	5.20E-08	0.00E+00	7.45E-08	1.17E-08	1.98E-08	0.00E+00	3.16E-08
2626	600254.5	4175790	1.36E-07	3.40E-07	0.00E+00	4.76E-07	1.36E-07	3.40E-07	0.00E+00	4.76E-07	2.22E-08	5.14E-08	0.00E+00	7.36E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
2627	600258.3	4175799	1.35E-07	3.36E-07	0.00E+00	4.71E-07	1.35E-07	3.36E-07	0.00E+00	4.71E-07	2.20E-08	5.08E-08	0.00E+00	7.28E-08	1.15E-08	1.94E-08	0.00E+00	3.08E-08
2628	600262.2	4175808	1.34E-07	3.33E-07	0.00E+00	4.67E-07	1.34E-07	3.33E-07	0.00E+00	4.67E-07	2.18E-08	5.03E-08	0.00E+00	7.21E-08	1.14E-08	1.92E-08	0.00E+00	3.05E-08
2629	600266	4175816	1.3E-07	3.24E-07	0.00E+00	4.55E-07	1.30E-07	3.24E-07	0.00E+00	4.55E-07	2.12E-08	4.90E-08	0.00E+00	7.02E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
2630	600269.8	4175825	1.27E-07	3.15E-07	0.00E+00	4.42E-07	1.27E-07	3.15E-07	0.00E+00	4.42E-07	2.06E-08	4.77E-08	0.00E+00	6.83E-08	1.08E-08	1.82E-08	0.00E+00	2.89E-08
2631	600273.6	4175834	1.24E-07	3.08E-07	0.00E+00	4.31E-07	1.24E-07	3.08E-07	0.00E+00	4.31E-07	2.01E-08	4.65E-08	0.00E+00	6.66E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
2632	600277.4	4175842	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.97E-08	4.55E-08	0.00E+00	6.52E-08	1.03E-08	1.73E-08	0.00E+00	2.76E-08
2633	600281.2	4175851	1.18E-07	2.95E-07	0.00E+00	4.14E-07	1.18E-07	2.95E-07	0.00E+00	4.14E-07	1.93E-08	4.46E-08	0.00E+00	6.39E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
2634	600285	4175860	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.89E-08	4.38E-08	0.00E+00	6.27E-08	9.88E-09	1.67E-08	0.00E+00	2.66E-08
2635	600288.8	4175868	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
2636	600292.6	4175877	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.81E-08	4.19E-08	0.00E+00	6.01E-08	9.46E-09	1.60E-08	0.00E+00	2.54E-08
2637	600296.5	4175886	1.08E-07	2.69E-07	0.00E+00	3.78E-07	1.08E-07	2.69E-07	0.00E+00	3.78E-07	1.76E-08	4.07E-08	0.00E+00	5.84E-08	9.19E-09	1.55E-08	0.00E+00	2.47E-08

2638	600300.3	4175895	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.67E-08	8.93E-09	1.51E-08	0.00E+00	2.40E-08
2639	600304.1	4175903	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.51E-08	8.68E-09	1.47E-08	0.00E+00	2.34E-08
2640	600307.9	4175912	9.96E-08	2.48E-07	0.00E+00	3.48E-07	9.96E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.37E-08	8.46E-09	1.43E-08	0.00E+00	2.28E-08
2641	600311.7	4175921	9.89E-08	2.46E-07	0.00E+00	3.45E-07	9.89E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.40E-09	1.42E-08	0.00E+00	2.26E-08
2642	600315.5	4175929	9.74E-08	2.43E-07	0.00E+00	3.40E-07	9.74E-08	2.43E-07	0.00E+00	3.40E-07	1.59E-08	3.67E-08	0.00E+00	5.25E-08	8.27E-09	1.40E-08	0.00E+00	2.23E-08
2643	600319.3	4175938	9.7E-08	2.42E-07	0.00E+00	3.39E-07	9.70E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.65E-08	0.00E+00	5.23E-08	8.24E-09	1.39E-08	0.00E+00	2.22E-08
2644	600323.1	4175947	9.54E-08	2.38E-07	0.00E+00	3.33E-07	9.54E-08	2.38E-07	0.00E+00	3.33E-07	1.55E-08	3.59E-08	0.00E+00	5.14E-08	8.10E-09	1.37E-08	0.00E+00	2.18E-08
2645	600326.9	4175956	9.57E-08	2.38E-07	0.00E+00	3.34E-07	9.57E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.16E-08	8.13E-09	1.37E-08	0.00E+00	2.19E-08
2646	600330.7	4175964	9.4E-08	2.34E-07	0.00E+00	3.28E-07	9.40E-08	2.34E-07	0.00E+00	3.28E-07	1.53E-08	3.54E-08	0.00E+00	5.07E-08	7.98E-09	1.35E-08	0.00E+00	2.15E-08
2647	600334.6	4175973	9.36E-08	2.33E-07	0.00E+00	3.27E-07	9.36E-08	2.33E-07	0.00E+00	3.27E-07	1.52E-08	3.53E-08	0.00E+00	5.05E-08	7.95E-09	1.34E-08	0.00E+00	2.14E-08
2648	600338.4	4175982	9.3E-08	2.32E-07	0.00E+00	3.25E-07	9.30E-08	2.32E-07	0.00E+00	3.25E-07	1.51E-08	3.50E-08	0.00E+00	5.02E-08	7.90E-09	1.34E-08	0.00E+00	2.13E-08
2649	600342.2	4175990	9.25E-08	2.30E-07	0.00E+00	3.23E-07	9.25E-08	2.30E-07	0.00E+00	3.23E-07	1.50E-08	3.48E-08	0.00E+00	4.99E-08	7.85E-09	1.33E-08	0.00E+00	2.11E-08
2650	600346	4175999	9.22E-08	2.29E-07	0.00E+00	3.22E-07	9.22E-08	2.29E-07	0.00E+00	3.22E-07	1.50E-08	3.47E-08	0.00E+00	4.97E-08	7.82E-09	1.32E-08	0.00E+00	2.10E-08
2651	600349.8	4176008	9.17E-08	2.28E-07	0.00E+00	3.20E-07	9.17E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.95E-08	7.79E-09	1.32E-08	0.00E+00	2.10E-08
2652	600353.6	4176016	9.14E-08	2.28E-07	0.00E+00	3.19E-07	9.14E-08	2.28E-07	0.00E+00	3.19E-07	1.49E-08	3.44E-08	0.00E+00	4.93E-08	7.76E-09	1.31E-08	0.00E+00	2.09E-08
2653	600357.4	4176025	9.18E-08	2.29E-07	0.00E+00	3.20E-07	9.18E-08	2.29E-07	0.00E+00	3.20E-07	1.49E-08	3.46E-08	0.00E+00	4.95E-08	7.80E-09	1.32E-08	0.00E+00	2.10E-08
2654	600361.2	4176034	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.32E-08	0.00E+00	2.11E-08
2655	600365	4176043	9.27E-08	2.31E-07	0.00E+00	3.24E-07	9.27E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.49E-08	0.00E+00	5.00E-08	7.87E-09	1.33E-08	0.00E+00	2.12E-08
2656	600368.9	4176051	9.3E-08	2.32E-07	0.00E+00	3.24E-07	9.30E-08	2.32E-07	0.00E+00	3.24E-07	1.51E-08	3.50E-08	0.00E+00	5.01E-08	7.89E-09	1.33E-08	0.00E+00	2.12E-08
2657	600372.7	4176060	9.31E-08	2.32E-07	0.00E+00	3.25E-07	9.31E-08	2.32E-07	0.00E+00	3.25E-07	1.51E-08	3.51E-08	0.00E+00	5.02E-08	7.91E-09	1.34E-08	0.00E+00	2.13E-08
2658	599757.3	4175416	1.49E-07	3.71E-07	0.00E+00	5.20E-07	1.49E-07	3.71E-07	0.00E+00	5.20E-07	2.42E-08	5.61E-08	0.00E+00	8.03E-08	1.27E-08	2.14E-08	0.00E+00	3.40E-08
2659	599765.9	4175419	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.46E-08	1.17E-08	1.99E-08	0.00E+00	3.16E-08
2660	599774.6	4175423	1.25E-07	3.11E-07	0.00E+00	4.35E-07	1.25E-07	3.11E-07	0.00E+00	4.35E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
2661	599783.2	4175427	1.09E-07	2.72E-07	0.00E+00	3.82E-07	1.09E-07	2.72E-07	0.00E+00	3.82E-07	1.78E-08	4.12E-08	0.00E+00	5.89E-08	9.28E-09	1.57E-08	0.00E+00	2.50E-08
2662	599791.8	4175431	9.82E-08	2.44E-07	0.00E+00	3.43E-07	9.82E-08	2.44E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.29E-08	8.34E-09	1.41E-08	0.00E+00	2.24E-08
2663	599800.4	4175435	9.28E-08	2.31E-07	0.00E+00	3.24E-07	9.28E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.49E-08	0.00E+00	5.00E-08	7.88E-09	1.33E-08	0.00E+00	2.12E-08
2664	599809	4175439	8.68E-08	2.16E-07	0.00E+00	3.03E-07	8.68E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.68E-08	7.37E-09	1.25E-08	0.00E+00	1.98E-08
2665	599817.6	4175442	8.7E-08	2.17E-07	0.00E+00	3.04E-07	8.70E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.69E-08	7.39E-09	1.25E-08	0.00E+00	1.99E-08
2666	599826.2	4175446	9.47E-08	2.36E-07	0.00E+00	3.30E-07	9.47E-08	2.36E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.10E-08	8.04E-09	1.36E-08	0.00E+00	2.16E-08
2667	599834.8	4175450	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.72E-08	3.99E-08	0.00E+00	5.72E-08	9.00E-09	1.52E-08	0.00E+00	2.42E-08
2668	599843.4	4175454	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.93E-08	4.48E-08	0.00E+00	6.41E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
2669	599852	4175458	1.27E-07	3.15E-07	0.00E+00	4.42E-07	1.27E-07	3.15E-07	0.00E+00	4.42E-07	2.06E-08	4.77E-08	0.00E+00	6.83E-08	1.08E-08	1.82E-08	0.00E+00	2.89E-08
2670	599860.6	4175461	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.05E-08	0.00E+00	7.23E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
2671	599869.2	4175465	1.41E-07	3.52E-07	0.00E+00	4.93E-07	1.41E-07	3.52E-07	0.00E+00	4.93E-07	2.30E-08	5.32E-08	0.00E+00	7.62E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
2672	599877.8	4175469	1.45E-07	3.62E-07	0.00E+00	5.08E-07	1.45E-07	3.62E-07	0.00E+00	5.08E-07	2.37E-08	5.48E-08	0.00E+00	7.84E-08	1.24E-08	2.09E-08	0.00E+00	3.32E-08
2673	599886.5	4175473	1.46E-07	3.65E-07	0.00E+00	5.11E-07	1.46E-07	3.65E-07	0.00E+00	5.11E-07	2.38E-08	5.52E-08	0.00E+00	7.90E-08	1.24E-08	2.10E-08	0.00E+00	3.35E-08
2674	599895.1	4175477	1.47E-07	3.65E-07	0.00E+00	5.12E-07	1.47E-07	3.65E-07	0.00E+00	5.12E-07	2.39E-08	5.53E-08	0.00E+00	7.91E-08	1.25E-08	2.11E-08	0.00E+00	3.35E-08
2675	599903.7	4175481	1.46E-07	3.64E-07	0.00E+00	5.11E-07	1.46E-07	3.64E-07	0.00E+00	5.11E-07	2.38E-08	5.51E-08	0.00E+00	7.89E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
2676	599912.3	4175484	1.43E-07	3.55E-07	0.00E+00	4.98E-07	1.43E-07	3.55E-07	0.00E+00	4.98E-07	2.32E-08	5.37E-08	0.00E+00	7.69E-08	1.21E-08	2.05E-08	0.00E+00	3.26E-08
2677	599920.9	4175488	1.37E-07	3.42E-07	0.00E+00	4.80E-07	1.37E-07	3.42E-07	0.00E+00	4.80E-07	2.24E-08	5.17E-08	0.00E+00	7.41E-08	1.17E-08	1.97E-08	0.00E+00	3.14E-08
2678	599929.5	4175492	1.31E-07	3.26E-07	0.00E+00	4.57E-07	1.31E-07	3.26E-07	0.00E+00	4.57E-07	2.13E-08	4.93E-08	0.00E+00	7.05E-08	1.11E-08	1.88E-08	0.00E+00	2.99E-08
2679	599938.1	4175496	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.05E-08	4.74E-08	0.00E+00	6.79E-08	1.07E-08	1.81E-08	0.00E+00	2.88E-08
2680	599946.7	4175500	1.23E-07	3.07E-07	0.00E+00	4.31E-07	1.23E-07	3.07E-07	0.00E+00	4.31E-07	2.01E-08	4.65E-08	0.00E+00	6.66E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
2681	599955.3	4175504	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.97E-08	4.56E-08	0.00E+00	6.53E-08	1.03E-08	1.74E-08	0.00E+00	2.76E-08
2682	599963.9	4175507	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.48E-08	0.00E+00	6.42E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
2683	599972.5	4175511	1.18E-07	2.93E-07	0.00E+00	4.10E-07	1.18E-07	2.93E-07	0.00E+00	4.10E-07	1.91E-08	4.43E-08	0.00E+00	6.34E-08	9.98E-09	1.69E-08	0.00E+00	2.69E-08
2684	599981.1	4175515	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.82E-09	1.66E-08	0.00E+00	2.64E-08
2685	599989.7	4175519	1.13E-07	2.82E-07	0.00E+00	3.96E-07	1.13E-07	2.82E-07	0.00E+00	3.96E-07	1.84E-08	4.27E-08	0.00E+00	6.11E-08	9.63E-09	1.63E-08	0.00E+00	2.59E-08
2686	599998.3	4175523	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.18E-08	0.00E+00	5.99E-08	9.43E-09	1.59E-08	0.00E+00	2.54E-08
2687	600007	4175526	1.1E-07	2.73E-07	0.00E+00	3.83E-07	1.10E-07	2.73E-07	0.00E+00	3.83E-07	1.78E-08	4.13E-08	0.00E+00	5.91E-08	9.31E-09	1.57E-08	0.00E+00	2.50E-08
2688	600015.6	4175530	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.89E-08	9.27E-09	1.57E-08	0.00E+00	2.49E-08
2689	600024.2	4175534	1.1E-07	2.73E-07	0.00E+00	3.82E-07	1.10E-07	2.73E-07	0.00E+00	3.82E-07	1.78E-08	4.12E-08	0.00E+00	5.90E-08	9.30E-09	1.57E-08	0.00E+00	2.50E-08
2690	600032.8	4175538	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.81E-08	4.20E-08	0.00E+00	6.01E-08	9.46E-09	1.60E-08	0.00E+00	2.55E-08
2691	600041.4	4175542	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.86E-08	4.30E-08	0.00E+00	6.16E-08	9.70E-09	1.64E-08	0.00E+00	2.61E-08
2692	600050	4175546	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.91E-08	4.41E-08	0.00E+00	6.32E-08	9.95E-09	1.68E-08	0.00E+00	2.68E-08
2693	600058.6	4175549	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.91E-08	4.42E-08	0.00E+00	6.33E-08	9.97E-09	1.69E-08	0.00E+00	2.68E-08
2694	600067.2	4175553	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.89E-08	4.38E-08	0.00E+00	6.27E-08	9.88E-09	1.67E-08	0.00E+00	2.66E-08
2695	600237.9	4175705	1.52E-07	3.78E-07	0.00E+00	5.30E-07	1.52E-07	3.78E-07	0.00E+00	5.30E-07	2.47E-08	5.72E-08	0.00E+00	8.19E-08	1.29E-08	2.18E-08	0.00E+00	3.47E-08
2696	600241.6	4175714	1.52E-07	3.78E-07	0.00E+00	5.29E-07	1.52E-07	3.78E-07	0.00E+00	5.29E-07	2.47E-08	5.71E-08	0.00E+00	8.18E-08	1.29E-08	2.18E-08	0.00E+00	3.46E-08
2697	600245.4	4175723	1.49E-07	3.71E-07	0.00E+00	5.21E-07	1.49E-07	3.71E-07	0.00E+00	5.21E-07	2.43E-08	5.62E-08	0.00E+00	8.04E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
2698	600249.2	4175731	1.47E-07	3.66E-07	0.00E+00	5.13E-07	1.47E-07	3.66E-07	0.00E+00	5.13E-07	2.39E-08	5.54E-08	0.00E+00	7.93E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
2699	600253	4175740	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.87E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
2700	600256.7	4175749	1.45E-07	3.60E-07	0.00E+00	5.05E-07	1.45E-07	3.60E-07	0.00E+00	5.05E-07	2.35E-08	5.44E-08	0.00E+00	7.79E-08	1.23E-08	2.07E-08	0.00E+00	3.30E-08
2701	600260.5	4175757	1.42E-07	3.53E-07	0.00E+00	4.94E-07	1.42E-07	3.53E-07	0.00E+00	4.94E-07	2.30E-08	5.33E-08	0.00E+00	7.64E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
2702	600264.3	4175766	1.39E-07	3.45E-07	0.00E+00	4.84E-07	1.39E-07	3.45E-07	0.00E+00	4.84E-07	2.26E-08	5.22E-08	0.00E+00	7.47E-08	1.18E-08	1.99E-08	0.00E+00	3.17E-08
2703	600268.1	4175775	1.35E-07	3.35E-07	0.00E+00	4.70E-07	1.35E-07	3.35E-07	0.00E+00	4.70E-07	2.19E-08	5.07E-08	0.00E+00	7.26E-08	1.14E-08	1.93E-08	0.00E+00	3.08E-08
2704	600271.8	4175783	1.32E-07	3.28E-07	0.00E+00	4.60E-07	1.32E-07	3.28E-07	0.00E+00	4.60E-07	2.14E-08	4.96E-08	0.00E+00	7.10E-08	1.12E-08	1.89E-08	0.00E+00	3.01E-08
2705	600275.6	4175792	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
2706	600279.4	4175800	1.27E-07	3.15E-07	0.00E+00	4.42E-07	1.27E-07	3.15E-07	0.00E+00	4.42E-07	2.06E-08	4.77E-08	0.00E+00	6.82E-08	1.07E-08	1.82E-08	0.00E+00	2.89E-08
2707	600283.2	4175809	1.24E-07	3.09E-07	0.00E+00	4.33E-07	1.24E-07	3.09E-07	0.00E+00	4.33E-07	2.02E-08	4.67E-08	0.00E+00	6.69E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08
2708	600286.9	4175818	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.57E-08	0.00E+00	6.54E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
2709	600290.7	4175826	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.93E-08	4.48E-08	0.00E+00	6.41E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
2710	600294.5	4175835	1.17E-07	2.91E-07	0.00E+00	4.07E-07	1.17E-07	2.91E-07	0.00E+00	4.07E-07	1.90E-08	4.39E-08	0.00E+00	6.29E-08	9.91E-09	1.67E-08	0.00E+00	2.67E-08
2711	600298.3	4175844	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
2712	600302.1	4175852	1.11E-07	2.78E-07	0.00E+00	3.89E-07	1.11E-07	2.78E-07	0.00E+00	3.89E-07	1.81E-08	4.20E-08	0.00E+00	6.01E-08	9.47E-09	1.60E-08	0.00E+00	2.55E-08
2713	600305.8	4175861	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.77E-08	4.10E-08	0.00E+00	5.87E-08	9.24E-09	1.56E-08	0.00E+00	2.48E-08
2714	600309.6	4175869	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.72E-08	3.99E-08	0.00E+00	5.71E-08	9.00E-09	1.52E-08	0.00E+00	2.42E-08
2715	600313.4	4175878	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.89E-08	0.00E+00	5.57E-08	8.77E-09	1.48E-08	0.00E+00	2.36E-08
2716	600317.2	4175887	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.80E-08	0.00E+00	5.44E-08	8.56E-09	1.45E-08	0.00E+00	2.30E-08
2717	600320.9	4175895	9.87E-08	2.46E-07	0.00E+00	3.44E-07	9.87E-08	2.46E-07	0.00E+00	3.44E-07	1.61E-08	3.71E-08	0.00E+00	5.32E-08	8.38E-09	1.42E-08	0.00E+00	2.25E-08
2718	600324.7	4175904	9.72E-08	2.42E-07	0.00E+00	3.39E-07	9.72E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.66E-08	0.00E+00	5.24E-08	8.25E-09	1.39E-08	0.00E+00	2.22E-08
2719	600328.5	4175913	9.6E-08	2.39E-07	0.00E+00	3.35E-07	9.60E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.61E-08	0.00E+00	5.18E-08	8.15E-09	1.38E-08	0.00E+00	2.19E-08
2720	600332.3	4175921	9.48E-08	2.36E-07	0.00E+00	3.31E-07	9.48E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.11E-08	8.05E-09	1.36E-08	0.00E+00	2.16E-08
2721	600336	4175930	9.41E-08	2.34E-07	0.00E+00	3.28E-07	9.41E-08	2.34E-07	0.00E+00	3.28E-07	1.53E-08	3.54E-08	0.00E+00	5.08E-08	7.99E-09	1.35E-08	0.00E+00	2.15E-08
2722	600339.8	4175938	9.33E-08	2.32E-07	0.00E+00	3.26E-07	9.33E-08	2.32E-07	0.00E+00	3.26E-07	1.52E-08	3.51E-08	0.00E+00	5.03E-08	7.92E-09	1.34E-08	0.00E+00	2.13E-08
2723	600343.6	4175947	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.47E-08	0.00E+00	4.97E-08	7.83E-09	1.32E-08	0.00E+00	2.11E-08
2724	600347.4	4175956	9.1E-08	2.27E-07	0.00E+00	3.18E-07	9.10E-08	2.27E-07	0.00E+00	3.18E-07	1.48E-08	3.43E-08	0.00E+00	4.91E-08	7.73E-09	1.31E-08	0.00E+00	2.08E-08
2725	600351.1	4175964	8.89E-08	2.21E-07	0.00E+00	3.10E-07	8.89E-08	2.21E-07	0.00E+00	3.10E-07	1.45E-08	3.35E-08	0.00E+00	4.79E-08	7.55E-09	1.28E-08	0.00E+00	2.03E-08
2726	600354.9	4175973	8.8E-08	2.19E-07	0.00E+00	3.07E-07	8.80E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.31E-08	0.00E+00	4.75E-08	7.48E-09	1.26E-08	0.00E+00	2.01E-08
2727	600358.7	4175982	8.71E-08	2.17E-07	0.00E+00	3.04E-07	8.71E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.69E-08	7.39E-09	1.25E-08	0.00E+00	1.99E-08
2728	600362.5	4175990	8.65E-08	2.15E-07	0.00E+00	3.02E-07	8.65E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.26E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.97E-08
2729	600366.2	4175999	8.64E-08	2.15E-07	0.00E+00	3.01E-07	8.64E-08	2.15E-07	0.00E+00	3.01E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.33E-09	1.24E-08	0.00E+00	1.97E-08
2730	600370	4176007	8.63E-08	2.15E-07	0.00E+00	3.01E-07	8.63E-08	2.15E-07	0.00E+00	3.01E-07	1.40E-08	3.25E-08	0.00E+00	4.65E-08	7.33E-09	1.24E-08	0.00E+00	1.97E-08
2731	600373.8	4176016	8.64E-08	2.15E-07	0.00E+00	3.02E-07	8.64E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.97E-08
2732	600377.6	4176025	8.65E-08	2.15E-07	0.00E+00	3.02E-07	8.65E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.26E-08	0.00E+00	4.67E-08	7.35E-09	1.24E-08	0.00E+00	1.98E-08
2733	600381.3	4176033	8.67E-08	2.16E-07	0.00E+00	3.02E-07	8.67E-08	2.16E-07	0.00E+00	3.02E-07	1.41E-08	3.26E-08	0.00E+00	4.67E-08	7.36E-09	1.24E-08	0.00E+00	1.98E-08
2734	600385.1	4176042	8.68E-08	2.16E-07	0.00E+00	3.03E-07	8.68E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.68E-08	7.37E-09	1.25E-08	0.00E+00	1.98E-08
2735	600388.9	4176051	8.68E-08	2.16E-07	0.00E+00	3.03E-07	8.68E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.68E-08	7.37E-09	1.25E-08	0.00E+00	1.98E-08
2736	600392.7	4176059	8.66E-08	2.16E-07	0.00E+00	3.02E-07	8.66E-08	2.16E-07	0.00E+00	3.02E-07	1.41E-08	3.26E-08	0.00E+00	4.67E-08	7.35E-09	1.24E-08	0.00E+00	1.98E-08
2737	599758.5	4175396	1.31E-07	3.26E-07	0.00E+00	4.57E-07	1.31E-07	3.26E-07	0.00E+00	4.57E-07	2.13E-08	4.93E-08	0.00E+00	7.06E-08	1.11E-08	1.88E-08	0.00E+00	2.99E-08
2738	599767.2	4175400	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
2739	599775.9	4175403	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.04E-08	4.73E-08	0.00E+00	6.78E-08	1.07E-08	1.80E-08	0.00E+00	2.87E-08
2740	599784.5	4175407	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.97E-08	4.55E-08	0.00E+00	6.51E-08	1.03E-08	1.73E-08	0.00E+00	2.76E-08
2741	599793.2	4175411	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.08E-08	9.57E-09	1.62E-08	0.00E+00	2.57E-08
2742	599801.9	4175415	1.03E-07	2.57E-07	0.00E+00	3.61E-07	1.03E-07	2.57E-07	0.00E+00	3.61E-07	1.68E-08	3.89E-08	0.00E+00	5.57E-08	8.77E-09	1.48E-08	0.00E+00	2.36E-08
2743	599810.6	4175419	9.57E-08	2.38E-07	0.00E+00	3.34E-07	9.57E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.16E-08	8.13E-09	1.37E-08	0.00E+00	2.19E-08
2744	599819.3	4175423	9.56E-08	2.38E-07	0.00E+00	3.34E-07	9.56E-08	2.38E-07	0.00E+00	3.34E-07	1.55E-08	3.60E-08	0.00E+00	5.15E-08	8.12E-09	1.37E-08	0.00E+00	2.18E-08
2745	599828	4175427	9.83E-08	2.45E-07	0.00E+00	3.43E-07	9.83E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.30E-08	8.34E-09	1.41E-08	0.00E+00	2.24E-08
2746	599836.7	4175430	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.72E-08	3.99E-08	0.00E+00	5.71E-08	9.00E-09	1.52E-08	0.00E+00	2.42E-08
2747	599845.4	4175434	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.86E-08	4.31E-08	0.00E+00	6.17E-08	9.71E-09	1.64E-08	0.00E+00	2.61E-08

2748	599854.1	4175438	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.56E-08	0.00E+00	6.54E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
2749	599862.8	4175442	1.28E-07	3.19E-07	0.00E+00	4.48E-07	1.28E-07	3.19E-07	0.00E+00	4.48E-07	2.09E-08	4.83E-08	0.00E+00	6.92E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
2750	599871.5	4175446	1.35E-07	3.37E-07	0.00E+00	4.73E-07	1.35E-07	3.37E-07	0.00E+00	4.73E-07	2.20E-08	5.10E-08	0.00E+00	7.30E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
2751	599880.2	4175450	1.4E-07	3.48E-07	0.00E+00	4.87E-07	1.40E-07	3.48E-07	0.00E+00	4.87E-07	2.27E-08	5.26E-08	0.00E+00	7.53E-08	1.19E-08	2.00E-08	0.00E+00	3.19E-08
2752	599888.9	4175454	1.43E-07	3.55E-07	0.00E+00	4.97E-07	1.43E-07	3.55E-07	0.00E+00	4.97E-07	2.32E-08	5.37E-08	0.00E+00	7.68E-08	1.21E-08	2.05E-08	0.00E+00	3.26E-08
2753	599897.6	4175457	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.45E-08	0.00E+00	7.81E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
2754	599906.2	4175461	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.87E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
2755	599914.9	4175465	1.44E-07	3.60E-07	0.00E+00	5.04E-07	1.44E-07	3.60E-07	0.00E+00	5.04E-07	2.35E-08	5.44E-08	0.00E+00	7.79E-08	1.23E-08	2.07E-08	0.00E+00	3.30E-08
2756	599923.6	4175469	1.42E-07	3.55E-07	0.00E+00	4.97E-07	1.42E-07	3.55E-07	0.00E+00	4.97E-07	2.32E-08	5.36E-08	0.00E+00	7.68E-08	1.21E-08	2.04E-08	0.00E+00	3.25E-08
2757	599932.3	4175473	1.4E-07	3.48E-07	0.00E+00	4.88E-07	1.40E-07	3.48E-07	0.00E+00	4.88E-07	2.28E-08	5.27E-08	0.00E+00	7.54E-08	1.19E-08	2.01E-08	0.00E+00	3.19E-08
2758	599941	4175477	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.46E-08	1.18E-08	1.99E-08	0.00E+00	3.16E-08
2759	599949.7	4175481	1.36E-07	3.39E-07	0.00E+00	4.76E-07	1.36E-07	3.39E-07	0.00E+00	4.76E-07	2.22E-08	5.13E-08	0.00E+00	7.35E-08	1.16E-08	1.96E-08	0.00E+00	3.11E-08
2760	599958.4	4175484	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.05E-08	0.00E+00	7.23E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
2761	599967.1	4175488	1.32E-07	3.28E-07	0.00E+00	4.60E-07	1.32E-07	3.28E-07	0.00E+00	4.60E-07	2.14E-08	4.96E-08	0.00E+00	7.10E-08	1.12E-08	1.89E-08	0.00E+00	3.01E-08
2762	599975.8	4175492	1.29E-07	3.22E-07	0.00E+00	4.52E-07	1.29E-07	3.22E-07	0.00E+00	4.52E-07	2.11E-08	4.87E-08	0.00E+00	6.98E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
2763	599984.5	4175496	1.27E-07	3.16E-07	0.00E+00	4.43E-07	1.27E-07	3.16E-07	0.00E+00	4.43E-07	2.07E-08	4.78E-08	0.00E+00	6.85E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
2764	599993.2	4175500	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
2765	600001.9	4175504	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.53E-08	0.00E+00	6.49E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
2766	600010.6	4175508	1.17E-07	2.90E-07	0.00E+00	4.07E-07	1.17E-07	2.90E-07	0.00E+00	4.07E-07	1.90E-08	4.39E-08	0.00E+00	6.28E-08	9.90E-09	1.67E-08	0.00E+00	2.66E-08
2767	600019.3	4175512	1.14E-07	2.84E-07	0.00E+00	3.97E-07	1.14E-07	2.84E-07	0.00E+00	3.97E-07	1.85E-08	4.29E-08	0.00E+00	6.14E-08	9.67E-09	1.63E-08	0.00E+00	2.60E-08
2768	600027.9	4175515	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.84E-08	4.26E-08	0.00E+00	6.09E-08	9.60E-09	1.62E-08	0.00E+00	2.58E-08
2769	600036.6	4175519	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.84E-08	4.27E-08	0.00E+00	6.11E-08	9.62E-09	1.63E-08	0.00E+00	2.59E-08
2770	600045.3	4175523	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.29E-08	0.00E+00	6.14E-08	9.67E-09	1.63E-08	0.00E+00	2.60E-08
2771	600054	4175527	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.86E-08	4.30E-08	0.00E+00	6.16E-08	9.71E-09	1.64E-08	0.00E+00	2.61E-08
2772	600062.7	4175531	1.09E-07	2.73E-07	0.00E+00	3.82E-07	1.09E-07	2.73E-07	0.00E+00	3.82E-07	1.78E-08	4.12E-08	0.00E+00	5.90E-08	9.29E-09	1.57E-08	0.00E+00	2.50E-08
2773	600071.4	4175535	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.72E-08	3.99E-08	0.00E+00	5.71E-08	8.99E-09	1.52E-08	0.00E+00	2.42E-08
2774	600252.4	4175692	1.37E-07	3.41E-07	0.00E+00	4.78E-07	1.37E-07	3.41E-07	0.00E+00	4.78E-07	2.23E-08	5.16E-08	0.00E+00	7.39E-08	1.16E-08	1.97E-08	0.00E+00	3.13E-08
2775	600256.3	4175701	1.37E-07	3.42E-07	0.00E+00	4.79E-07	1.37E-07	3.42E-07	0.00E+00	4.79E-07	2.23E-08	5.16E-08	0.00E+00	7.40E-08	1.16E-08	1.97E-08	0.00E+00	3.13E-08
2776	600260.1	4175710	1.37E-07	3.41E-07	0.00E+00	4.78E-07	1.37E-07	3.41E-07	0.00E+00	4.78E-07	2.23E-08	5.16E-08	0.00E+00	7.39E-08	1.16E-08	1.97E-08	0.00E+00	3.13E-08
2777	600263.9	4175718	1.37E-07	3.40E-07	0.00E+00	4.77E-07	1.37E-07	3.40E-07	0.00E+00	4.77E-07	2.22E-08	5.15E-08	0.00E+00	7.37E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
2778	600267.7	4175727	1.36E-07	3.38E-07	0.00E+00	4.74E-07	1.36E-07	3.38E-07	0.00E+00	4.74E-07	2.21E-08	5.11E-08	0.00E+00	7.32E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
2779	600271.5	4175736	1.35E-07	3.35E-07	0.00E+00	4.70E-07	1.35E-07	3.35E-07	0.00E+00	4.70E-07	2.19E-08	5.07E-08	0.00E+00	7.26E-08	1.14E-08	1.93E-08	0.00E+00	3.07E-08
2780	600275.3	4175745	1.33E-07	3.32E-07	0.00E+00	4.65E-07	1.33E-07	3.32E-07	0.00E+00	4.65E-07	2.17E-08	5.02E-08	0.00E+00	7.18E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
2781	600279.1	4175753	1.3E-07	3.23E-07	0.00E+00	4.53E-07	1.30E-07	3.23E-07	0.00E+00	4.53E-07	2.11E-08	4.89E-08	0.00E+00	7.01E-08	1.10E-08	1.86E-08	0.00E+00	2.97E-08
2782	600283	4175762	1.27E-07	3.16E-07	0.00E+00	4.43E-07	1.27E-07	3.16E-07	0.00E+00	4.43E-07	2.06E-08	4.78E-08	0.00E+00	6.84E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
2783	600286.8	4175771	1.24E-07	3.09E-07	0.00E+00	4.34E-07	1.24E-07	3.09E-07	0.00E+00	4.34E-07	2.02E-08	4.68E-08	0.00E+00	6.70E-08	1.05E-08	1.78E-08	0.00E+00	2.84E-08
2784	600290.6	4175779	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.98E-08	4.59E-08	0.00E+00	6.58E-08	1.04E-08	1.75E-08	0.00E+00	2.79E-08
2785	600294.4	4175788	1.2E-07	2.99E-07	0.00E+00	4.18E-07	1.20E-07	2.99E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.47E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
2786	600298.2	4175797	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.92E-08	4.43E-08	0.00E+00	6.35E-08	1.00E-08	1.69E-08	0.00E+00	2.69E-08
2787	600302	4175806	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.15E-07	2.87E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.22E-08	9.80E-09	1.66E-08	0.00E+00	2.64E-08
2788	600305.8	4175814	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.84E-08	4.26E-08	0.00E+00	6.10E-08	9.60E-09	1.62E-08	0.00E+00	2.58E-08
2789	600309.7	4175823	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.80E-08	4.17E-08	0.00E+00	5.98E-08	9.41E-09	1.59E-08	0.00E+00	2.53E-08
2790	600313.5	4175832	1.09E-07	2.71E-07	0.00E+00	3.79E-07	1.09E-07	2.71E-07	0.00E+00	3.79E-07	1.77E-08	4.09E-08	0.00E+00	5.86E-08	9.23E-09	1.56E-08	0.00E+00	2.48E-08
2791	600317.3	4175840	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.73E-08	4.00E-08	0.00E+00	5.73E-08	9.03E-09	1.53E-08	0.00E+00	2.43E-08
2792	600321.1	4175849	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.69E-08	3.91E-08	0.00E+00	5.60E-08	8.81E-09	1.49E-08	0.00E+00	2.37E-08
2793	600324.9	4175858	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.65E-08	3.82E-08	0.00E+00	5.48E-08	8.63E-09	1.46E-08	0.00E+00	2.32E-08
2794	600328.7	4175867	1E-07	2.49E-07	0.00E+00	3.49E-07	1.00E-07	2.49E-07	0.00E+00	3.49E-07	1.63E-08	3.77E-08	0.00E+00	5.40E-08	8.50E-09	1.44E-08	0.00E+00	2.29E-08
2795	600332.5	4175875	9.88E-08	2.46E-07	0.00E+00	3.45E-07	9.88E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.39E-09	1.42E-08	0.00E+00	2.26E-08
2796	600336.4	4175884	9.77E-08	2.43E-07	0.00E+00	3.41E-07	9.77E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.29E-09	1.40E-08	0.00E+00	2.23E-08
2797	600340.2	4175893	9.66E-08	2.40E-07	0.00E+00	3.37E-07	9.66E-08	2.40E-07	0.00E+00	3.37E-07	1.57E-08	3.64E-08	0.00E+00	5.21E-08	8.20E-09	1.39E-08	0.00E+00	2.21E-08
2798	600344	4175901	9.52E-08	2.37E-07	0.00E+00	3.32E-07	9.52E-08	2.37E-07	0.00E+00	3.32E-07	1.55E-08	3.58E-08	0.00E+00	5.13E-08	8.08E-09	1.37E-08	0.00E+00	2.17E-08
2799	600347.8	4175910	9.35E-08	2.33E-07	0.00E+00	3.26E-07	9.35E-08	2.33E-07	0.00E+00	3.26E-07	1.52E-08	3.52E-08	0.00E+00	5.04E-08	7.94E-09	1.34E-08	0.00E+00	2.13E-08
2800	600351.6	4175919	9.17E-08	2.28E-07	0.00E+00	3.20E-07	9.17E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.79E-09	1.32E-08	0.00E+00	2.09E-08
2801	600355.4	4175928	9.12E-08	2.27E-07	0.00E+00	3.18E-07	9.12E-08	2.27E-07	0.00E+00	3.18E-07	1.48E-08	3.44E-08	0.00E+00	4.92E-08	7.75E-09	1.31E-08	0.00E+00	2.08E-08
2802	600359.2	4175936	8.97E-08	2.23E-07	0.00E+00	3.13E-07	8.97E-08	2.23E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.62E-09	1.29E-08	0.00E+00	2.05E-08
2803	600363	4175945	8.71E-08	2.17E-07	0.00E+00	3.04E-07	8.71E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.70E-08	7.40E-09	1.25E-08	0.00E+00	1.99E-08
2804	600366.9	4175954	8.59E-08	2.14E-07	0.00E+00	3.00E-07	8.59E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.24E-08	0.00E+00	4.63E-08	7.30E-09	1.23E-08	0.00E+00	1.96E-08
2805	600370.7	4175962	8.49E-08	2.11E-07	0.00E+00	2.96E-07	8.49E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.20E-08	0.00E+00	4.58E-08	7.21E-09	1.22E-08	0.00E+00	1.94E-08
2806	600374.5	4175971	8.38E-08	2.09E-07	0.00E+00	2.93E-07	8.38E-08	2.09E-07	0.00E+00	2.93E-07	1.36E-08	3.16E-08	0.00E+00	4.52E-08	7.12E-09	1.20E-08	0.00E+00	1.91E-08
2807	600378.3	4175980	8.37E-08	2.08E-07	0.00E+00	2.92E-07	8.37E-08	2.08E-07	0.00E+00	2.92E-07	1.36E-08	3.15E-08	0.00E+00	4.51E-08	7.11E-09	1.20E-08	0.00E+00	1.91E-08
2808	600382.1	4175989	8.26E-08	2.06E-07	0.00E+00	2.88E-07	8.26E-08	2.06E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.01E-09	1.18E-08	0.00E+00	1.89E-08
2809	600385.9	4175997	8.17E-08	2.03E-07	0.00E+00	2.85E-07	8.17E-08	2.03E-07	0.00E+00	2.85E-07	1.33E-08	3.08E-08	0.00E+00	4.40E-08	6.94E-09	1.17E-08	0.00E+00	1.87E-08
2810	600389.7	4176006	8.18E-08	2.04E-07	0.00E+00	2.86E-07	8.18E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.95E-09	1.17E-08	0.00E+00	1.87E-08
2811	600393.6	4176015	8.17E-08	2.04E-07	0.00E+00	2.85E-07	8.17E-08	2.04E-07	0.00E+00	2.85E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.94E-09	1.17E-08	0.00E+00	1.87E-08
2812	600397.4	4176023	8.18E-08	2.04E-07	0.00E+00	2.85E-07	8.18E-08	2.04E-07	0.00E+00	2.85E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.94E-09	1.17E-08	0.00E+00	1.87E-08
2813	600401.2	4176032	8.17E-08	2.03E-07	0.00E+00	2.85E-07	8.17E-08	2.03E-07	0.00E+00	2.85E-07	1.33E-08	3.07E-08	0.00E+00	4.40E-08	6.93E-09	1.17E-08	0.00E+00	1.87E-08
2814	600405	4176041	8.16E-08	2.03E-07	0.00E+00	2.85E-07	8.16E-08	2.03E-07	0.00E+00	2.85E-07	1.33E-08	3.07E-08	0.00E+00	4.40E-08	6.93E-09	1.17E-08	0.00E+00	1.86E-08
2815	600408.8	4176050	8.12E-08	2.02E-07	0.00E+00	2.84E-07	8.12E-08	2.02E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.38E-08	6.90E-09	1.17E-08	0.00E+00	1.86E-08
2816	600412.6	4176058	8.06E-08	2.01E-07	0.00E+00	2.81E-07	8.06E-08	2.01E-07	0.00E+00	2.81E-07	1.31E-08	3.03E-08	0.00E+00	4.35E-08	6.84E-09	1.16E-08	0.00E+00	1.84E-08
2817	599750.7	4175372	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.33E-08	0.00E+00	6.20E-08	9.77E-09	1.65E-08	0.00E+00	2.63E-08
2818	599759.3	4175376	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.22E-08	0.00E+00	6.04E-08	9.52E-09	1.61E-08	0.00E+00	2.56E-08
2819	599767.9	4175379	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.21E-08	0.00E+00	6.04E-08	9.50E-09	1.61E-08	0.00E+00	2.56E-08
2820	599776.5	4175383	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.07E-08	9.57E-09	1.62E-08	0.00E+00	2.57E-08
2821	599785.1	4175387	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.08E-08	9.57E-09	1.62E-08	0.00E+00	2.57E-08
2822	599793.8	4175391	1.08E-07	2.69E-07	0.00E+00	3.76E-07	1.08E-07	2.69E-07	0.00E+00	3.76E-07	1.75E-08	4.06E-08	0.00E+00	5.82E-08	9.16E-09	1.55E-08	0.00E+00	2.46E-08
2823	599802.4	4175395	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.66E-08	8.91E-09	1.51E-08	0.00E+00	2.40E-08
2824	599811	4175399	9.82E-08	2.45E-07	0.00E+00	3.43E-07	9.82E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.30E-08	8.34E-09	1.41E-08	0.00E+00	2.24E-08
2825	599819.6	4175402	9.99E-08	2.49E-07	0.00E+00	3.49E-07	9.99E-08	2.49E-07	0.00E+00	3.49E-07	1.63E-08	3.76E-08	0.00E+00	5.39E-08	8.49E-09	1.43E-08	0.00E+00	2.28E-08
2826	599828.2	4175406	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.89E-08	0.00E+00	5.57E-08	8.77E-09	1.48E-08	0.00E+00	2.36E-08
2827	599836.8	4175410	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.74E-08	4.03E-08	0.00E+00	5.78E-08	9.10E-09	1.54E-08	0.00E+00	2.45E-08
2828	599845.5	4175414	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.82E-08	4.20E-08	0.00E+00	6.02E-08	9.48E-09	1.60E-08	0.00E+00	2.55E-08
2829	599854.1	4175418	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.30E-08	9.92E-09	1.68E-08	0.00E+00	2.67E-08
2830	599862.7	4175422	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.63E-08	0.00E+00	6.63E-08	1.04E-08	1.76E-08	0.00E+00	2.81E-08
2831	599871.3	4175425	1.29E-07	3.22E-07	0.00E+00	4.51E-07	1.29E-07	3.22E-07	0.00E+00	4.51E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
2832	599879.9	4175429	1.34E-07	3.33E-07	0.00E+00	4.67E-07	1.34E-07	3.33E-07	0.00E+00	4.67E-07	2.18E-08	5.03E-08	0.00E+00	7.21E-08	1.14E-08	1.92E-08	0.00E+00	3.05E-08
2833	599888.6	4175433	1.38E-07	3.42E-07	0.00E+00	4.80E-07	1.38E-07	3.42E-07	0.00E+00	4.80E-07	2.24E-08	5.18E-08	0.00E+00	7.41E-08	1.17E-08	1.97E-08	0.00E+00	3.14E-08
2834	599897.2	4175437	1.41E-07	3.52E-07	0.00E+00	4.93E-07	1.41E-07	3.52E-07	0.00E+00	4.93E-07	2.30E-08	5.32E-08	0.00E+00	7.62E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
2835	599905.8	4175441	1.44E-07	3.60E-07	0.00E+00	5.04E-07	1.44E-07	3.60E-07	0.00E+00	5.04E-07	2.35E-08	5.44E-08	0.00E+00	7.79E-08	1.23E-08	2.07E-08	0.00E+00	3.30E-08
2836	599914.4	4175445	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.82E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
2837	599923	4175448	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.82E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
2838	599931.6	4175452	1.44E-07	3.60E-07	0.00E+00	5.04E-07	1.44E-07	3.60E-07	0.00E+00	5.04E-07	2.35E-08	5.44E-08	0.00E+00	7.79E-08	1.23E-08	2.07E-08	0.00E+00	3.30E-08
2839	599940.3	4175456	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.45E-08	0.00E+00	7.81E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
2840	599948.9	4175460	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.84E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
2841	599957.5	4175464	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.83E-08	1.23E-08	2.08E-08	0.00E+00	3.32E-08
2842	599966.1	4175468	1.44E-07	3.58E-07	0.00E+00	5.02E-07	1.44E-07	3.58E-07	0.00E+00	5.02E-07	2.34E-08	5.41E-08	0.00E+00	7.75E-08	1.22E-08	2.06E-08	0.00E+00	3.28E-08
2843	599974.7	4175471	1.41E-07	3.51E-07	0.00E+00	4.93E-07	1.41E-07	3.51E-07	0.00E+00	4.93E-07	2.30E-08	5.31E-08	0.00E+00	7.61E-08	1.20E-08	2.03E-08	0.00E+00	3.22E-08
2844	599983.4	4175475	1.4E-07	3.49E-07	0.00E+00	4.89E-07	1.40E-07	3.49E-07	0.00E+00	4.89E-07	2.28E-08	5.28E-08	0.00E+00	7.56E-08	1.19E-08	2.01E-08	0.00E+00	3.20E-08
2845	599992	4175479	1.38E-07	3.45E-07	0.00E+00	4.83E-07	1.38E-07	3.45E-07	0.00E+00	4.83E-07	2.25E-08	5.21E-08	0.00E+00	7.47E-08	1.18E-08	1.99E-08	0.00E+00	3.16E-08
2846	600000.6	4175483	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.05E-08	0.00E+00	7.24E-08	1.14E-08	1.93E-08	0.00E+00	3.07E-08
2847	600009.2	4175487	1.29E-07	3.22E-07	0.00E+00	4.52E-07	1.29E-07	3.22E-07	0.00E+00	4.52E-07	2.11E-08	4.87E-08	0.00E+00	6.98E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
2848	600017.8	4175490	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
2849	600026.5	4175494	1.2E-07	2.98E-07	0.00E+00	4.17E-07	1.20E-07	2.98E-07	0.00E+00	4.17E-07	1.95E-08	4.50E-08	0.00E+00	6.45E-08	1.02E-08	1.72E-08	0.00E+00	2.73E-08
2850	600035.1	4175498	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.33E-08	0.00E+00	6.21E-08	9.77E-09	1.65E-08	0.00E+00	2.63E-08
2851	600043.7	4175502	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.86E-08	4.31E-08	0.00E+00	6.17E-08	9.72E-09	1.64E-08	0.00E+00	2.62E-08
2852	600052.3	4175506	1.17E-07	2.93E-07	0.00E+00	4.10E-07	1.17E-07	2.93E-07	0.00E+00	4.10E-07	1.91E-08	4.42E-08	0.00E+00	6.33E-08	9.98E-09	1.69E-08	0.00E+00	2.68E-08
2853	600060.9	4175510	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.18E-08	0.00E+00	5.99E-08	9.43E-09	1.59E-08	0.00E+00	2.54E-08
2854	600069.5	4175513	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.66E-08	8.92E-09	1.51E-08	0.00E+00	2.40E-08
2855	600262.5	4175669	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.54E-08	0.00E+00	6.49E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
2856	600266.3	4175677	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.99E-08	4.61E-08	0.00E+00	6.60E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
2857	600270.1	4175686	1.24E-07	3.09E-07	0.00E+00	4.33E-07	1.24E-07	3.09E-07	0.00E+00	4.33E-07	2.02E-08	4.67E-08	0.00E+00	6.68E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08

2858	600273.8	4175695	1.24E-07	3.08E-07	0.00E+00	4.32E-07	1.24E-07	3.08E-07	0.00E+00	4.32E-07	2.01E-08	4.66E-08	0.00E+00	6.68E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08
2859	600277.6	4175703	1.24E-07	3.08E-07	0.00E+00	4.32E-07	1.24E-07	3.08E-07	0.00E+00	4.32E-07	2.01E-08	4.66E-08	0.00E+00	6.67E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
2860	600281.4	4175712	1.23E-07	3.07E-07	0.00E+00	4.31E-07	1.23E-07	3.07E-07	0.00E+00	4.31E-07	2.01E-08	4.65E-08	0.00E+00	6.66E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
2861	600285.2	4175721	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.63E-08	0.00E+00	6.63E-08	1.04E-08	1.76E-08	0.00E+00	2.81E-08
2862	600289	4175729	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.98E-08	4.59E-08	0.00E+00	6.57E-08	1.03E-08	1.75E-08	0.00E+00	2.78E-08
2863	600292.7	4175738	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
2864	600296.5	4175747	1.19E-07	2.97E-07	0.00E+00	4.17E-07	1.19E-07	2.97E-07	0.00E+00	4.17E-07	1.94E-08	4.50E-08	0.00E+00	6.44E-08	1.01E-08	1.71E-08	0.00E+00	2.73E-08
2865	600300.3	4175755	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.91E-08	4.43E-08	0.00E+00	6.34E-08	9.99E-09	1.69E-08	0.00E+00	2.69E-08
2866	600304.1	4175764	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.89E-08	4.37E-08	0.00E+00	6.26E-08	9.85E-09	1.67E-08	0.00E+00	2.65E-08
2867	600307.9	4175772	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.86E-08	4.31E-08	0.00E+00	6.17E-08	9.72E-09	1.64E-08	0.00E+00	2.61E-08
2868	600311.6	4175781	1.13E-07	2.80E-07	0.00E+00	3.93E-07	1.13E-07	2.80E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.07E-08	9.56E-09	1.62E-08	0.00E+00	2.57E-08
2869	600315.4	4175790	1.1E-07	2.75E-07	0.00E+00	3.85E-07	1.10E-07	2.75E-07	0.00E+00	3.85E-07	1.80E-08	4.16E-08	0.00E+00	5.96E-08	9.38E-09	1.58E-08	0.00E+00	2.52E-08
2870	600319.2	4175798	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.76E-08	4.07E-08	0.00E+00	5.83E-08	9.18E-09	1.55E-08	0.00E+00	2.47E-08
2871	600323	4175807	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.72E-08	3.98E-08	0.00E+00	5.71E-08	8.99E-09	1.52E-08	0.00E+00	2.42E-08
2872	600326.8	4175816	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.70E-08	3.94E-08	0.00E+00	5.64E-08	8.88E-09	1.50E-08	0.00E+00	2.39E-08
2873	600330.5	4175824	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.69E-08	3.90E-08	0.00E+00	5.59E-08	8.80E-09	1.49E-08	0.00E+00	2.37E-08
2874	600334.3	4175833	1.02E-07	2.55E-07	0.00E+00	3.58E-07	1.02E-07	2.55E-07	0.00E+00	3.58E-07	1.67E-08	3.86E-08	0.00E+00	5.52E-08	8.70E-09	1.47E-08	0.00E+00	2.34E-08
2875	600338.1	4175842	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.65E-08	3.81E-08	0.00E+00	5.45E-08	8.59E-09	1.45E-08	0.00E+00	2.31E-08
2876	600341.9	4175850	9.98E-08	2.48E-07	0.00E+00	3.48E-07	9.98E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.76E-08	0.00E+00	5.38E-08	8.47E-09	1.43E-08	0.00E+00	2.28E-08
2877	600345.7	4175859	9.85E-08	2.45E-07	0.00E+00	3.44E-07	9.85E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.37E-09	1.41E-08	0.00E+00	2.25E-08
2878	600349.5	4175867	9.74E-08	2.43E-07	0.00E+00	3.40E-07	9.74E-08	2.43E-07	0.00E+00	3.40E-07	1.58E-08	3.67E-08	0.00E+00	5.25E-08	8.27E-09	1.40E-08	0.00E+00	2.22E-08
2879	600353.2	4175876	9.65E-08	2.40E-07	0.00E+00	3.37E-07	9.65E-08	2.40E-07	0.00E+00	3.37E-07	1.57E-08	3.63E-08	0.00E+00	5.20E-08	8.19E-09	1.38E-08	0.00E+00	2.20E-08
2880	600357	4175885	9.5E-08	2.36E-07	0.00E+00	3.31E-07	9.50E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.58E-08	0.00E+00	5.12E-08	8.06E-09	1.36E-08	0.00E+00	2.17E-08
2881	600360.8	4175893	9.32E-08	2.32E-07	0.00E+00	3.25E-07	9.32E-08	2.32E-07	0.00E+00	3.25E-07	1.52E-08	3.51E-08	0.00E+00	5.03E-08	7.92E-09	1.34E-08	0.00E+00	2.13E-08
2882	600364.6	4175902	9.1E-08	2.27E-07	0.00E+00	3.18E-07	9.10E-08	2.27E-07	0.00E+00	3.18E-07	1.48E-08	3.43E-08	0.00E+00	4.91E-08	7.73E-09	1.31E-08	0.00E+00	2.08E-08
2883	600368.4	4175911	8.89E-08	2.21E-07	0.00E+00	3.10E-07	8.89E-08	2.21E-07	0.00E+00	3.10E-07	1.45E-08	3.35E-08	0.00E+00	4.79E-08	7.55E-09	1.28E-08	0.00E+00	2.03E-08
2884	600372.1	4175919	8.74E-08	2.18E-07	0.00E+00	3.05E-07	8.74E-08	2.18E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.71E-08	7.42E-09	1.25E-08	0.00E+00	2.00E-08
2885	600375.9	4175928	8.64E-08	2.15E-07	0.00E+00	3.02E-07	8.64E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.97E-08
2886	600379.7	4175937	8.5E-08	2.12E-07	0.00E+00	2.97E-07	8.50E-08	2.12E-07	0.00E+00	2.97E-07	1.38E-08	3.20E-08	0.00E+00	4.58E-08	7.21E-09	1.22E-08	0.00E+00	1.94E-08
2887	600383.5	4175945	8.36E-08	2.08E-07	0.00E+00	2.92E-07	8.36E-08	2.08E-07	0.00E+00	2.92E-07	1.36E-08	3.15E-08	0.00E+00	4.51E-08	7.10E-09	1.20E-08	0.00E+00	1.91E-08
2888	600387.3	4175954	8.26E-08	2.06E-07	0.00E+00	2.88E-07	8.26E-08	2.06E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.01E-09	1.18E-08	0.00E+00	1.89E-08
2889	600391	4175963	8.19E-08	2.04E-07	0.00E+00	2.86E-07	8.19E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.42E-08	6.95E-09	1.18E-08	0.00E+00	1.87E-08
2890	600394.8	4175971	8.13E-08	2.03E-07	0.00E+00	2.84E-07	8.13E-08	2.03E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.39E-08	6.91E-09	1.17E-08	0.00E+00	1.86E-08
2891	600398.6	4175980	8.06E-08	2.01E-07	0.00E+00	2.81E-07	8.06E-08	2.01E-07	0.00E+00	2.81E-07	1.31E-08	3.04E-08	0.00E+00	4.35E-08	6.85E-09	1.16E-08	0.00E+00	1.84E-08
2892	600402.4	4175988	8.01E-08	2.00E-07	0.00E+00	2.80E-07	8.01E-08	2.00E-07	0.00E+00	2.80E-07	1.30E-08	3.02E-08	0.00E+00	4.32E-08	6.80E-09	1.15E-08	0.00E+00	1.83E-08
2893	600406.2	4175997	7.87E-08	1.96E-07	0.00E+00	2.75E-07	7.87E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.96E-08	0.00E+00	4.25E-08	6.69E-09	1.13E-08	0.00E+00	1.80E-08
2894	600410	4176006	7.81E-08	1.95E-07	0.00E+00	2.73E-07	7.81E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.63E-09	1.12E-08	0.00E+00	1.78E-08
2895	600413.7	4176014	7.76E-08	1.93E-07	0.00E+00	2.71E-07	7.76E-08	1.93E-07	0.00E+00	2.71E-07	1.26E-08	2.92E-08	0.00E+00	4.18E-08	6.59E-09	1.11E-08	0.00E+00	1.77E-08
2896	600417.5	4176023	7.75E-08	1.93E-07	0.00E+00	2.70E-07	7.75E-08	1.93E-07	0.00E+00	2.70E-07	1.26E-08	2.92E-08	0.00E+00	4.18E-08	6.58E-09	1.11E-08	0.00E+00	1.77E-08
2897	600421.3	4176032	7.72E-08	1.92E-07	0.00E+00	2.69E-07	7.72E-08	1.92E-07	0.00E+00	2.69E-07	1.26E-08	2.91E-08	0.00E+00	4.16E-08	6.56E-09	1.11E-08	0.00E+00	1.76E-08
2898	600425.1	4176040	7.66E-08	1.91E-07	0.00E+00	2.67E-07	7.66E-08	1.91E-07	0.00E+00	2.67E-07	1.25E-08	2.88E-08	0.00E+00	4.13E-08	6.50E-09	1.10E-08	0.00E+00	1.75E-08
2899	600428.9	4176049	7.56E-08	1.88E-07	0.00E+00	2.64E-07	7.56E-08	1.88E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.42E-09	1.08E-08	0.00E+00	1.73E-08
2900	600432.6	4176058	7.45E-08	1.85E-07	0.00E+00	2.60E-07	7.45E-08	1.85E-07	0.00E+00	2.60E-07	1.21E-08	2.80E-08	0.00E+00	4.02E-08	6.32E-09	1.07E-08	0.00E+00	1.70E-08
2901	599751.7	4175352	9.59E-08	2.39E-07	0.00E+00	3.35E-07	9.59E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.61E-08	0.00E+00	5.17E-08	8.14E-09	1.38E-08	0.00E+00	2.19E-08
2902	599760.4	4175356	9.56E-08	2.38E-07	0.00E+00	3.34E-07	9.56E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.16E-08	8.12E-09	1.37E-08	0.00E+00	2.18E-08
2903	599769.1	4175360	9.06E-08	2.26E-07	0.00E+00	3.16E-07	9.06E-08	2.26E-07	0.00E+00	3.16E-07	1.47E-08	3.41E-08	0.00E+00	4.88E-08	7.69E-09	1.30E-08	0.00E+00	2.07E-08
2904	599777.8	4175363	8.89E-08	2.21E-07	0.00E+00	3.10E-07	8.89E-08	2.21E-07	0.00E+00	3.10E-07	1.45E-08	3.35E-08	0.00E+00	4.80E-08	7.55E-09	1.28E-08	0.00E+00	2.03E-08
2905	599786.5	4175367	9E-08	2.24E-07	0.00E+00	3.14E-07	9.00E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.39E-08	0.00E+00	4.85E-08	7.64E-09	1.29E-08	0.00E+00	2.06E-08
2906	599795.2	4175371	9.37E-08	2.33E-07	0.00E+00	3.27E-07	9.37E-08	2.33E-07	0.00E+00	3.27E-07	1.52E-08	3.53E-08	0.00E+00	5.05E-08	7.95E-09	1.34E-08	0.00E+00	2.14E-08
2907	599803.9	4175375	9.51E-08	2.37E-07	0.00E+00	3.32E-07	9.51E-08	2.37E-07	0.00E+00	3.32E-07	1.55E-08	3.58E-08	0.00E+00	5.13E-08	8.08E-09	1.37E-08	0.00E+00	2.17E-08
2908	599812.6	4175379	9.74E-08	2.43E-07	0.00E+00	3.40E-07	9.74E-08	2.43E-07	0.00E+00	3.40E-07	1.58E-08	3.67E-08	0.00E+00	5.25E-08	8.27E-09	1.40E-08	0.00E+00	2.23E-08
2909	599821.3	4175383	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.67E-08	3.86E-08	0.00E+00	5.52E-08	8.70E-09	1.47E-08	0.00E+00	2.34E-08
2910	599830	4175387	1.09E-07	2.71E-07	0.00E+00	3.79E-07	1.09E-07	2.71E-07	0.00E+00	3.79E-07	1.77E-08	4.09E-08	0.00E+00	5.86E-08	9.23E-09	1.56E-08	0.00E+00	2.48E-08
2911	599838.7	4175391	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.28E-08	0.00E+00	6.13E-08	9.65E-09	1.63E-08	0.00E+00	2.60E-08
2912	599847.4	4175394	1.18E-07	2.93E-07	0.00E+00	4.10E-07	1.18E-07	2.93E-07	0.00E+00	4.10E-07	1.91E-08	4.42E-08	0.00E+00	6.34E-08	9.98E-09	1.69E-08	0.00E+00	2.68E-08
2913	599856.1	4175398	1.2E-07	2.99E-07	0.00E+00	4.19E-07	1.20E-07	2.99E-07	0.00E+00	4.19E-07	1.95E-08	4.52E-08	0.00E+00	6.48E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
2914	599864.8	4175402	1.23E-07	3.07E-07	0.00E+00	4.31E-07	1.23E-07	3.07E-07	0.00E+00	4.31E-07	2.01E-08	4.65E-08	0.00E+00	6.65E-08	1.05E-08	1.77E-08	0.00E+00	2.82E-08
2915	599873.5	4175406	1.27E-07	3.17E-07	0.00E+00	4.44E-07	1.27E-07	3.17E-07	0.00E+00	4.44E-07	2.07E-08	4.79E-08	0.00E+00	6.86E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
2916	599882.2	4175410	1.3E-07	3.25E-07	0.00E+00	4.55E-07	1.30E-07	3.25E-07	0.00E+00	4.55E-07	2.12E-08	4.91E-08	0.00E+00	7.03E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
2917	599890.9	4175414	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.04E-08	0.00E+00	7.22E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
2918	599899.6	4175418	1.38E-07	3.43E-07	0.00E+00	4.81E-07	1.38E-07	3.43E-07	0.00E+00	4.81E-07	2.24E-08	5.19E-08	0.00E+00	7.43E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
2919	599908.3	4175421	1.4E-07	3.50E-07	0.00E+00	4.90E-07	1.40E-07	3.50E-07	0.00E+00	4.90E-07	2.28E-08	5.29E-08	0.00E+00	7.57E-08	1.19E-08	2.01E-08	0.00E+00	3.21E-08
2920	599917	4175425	1.42E-07	3.53E-07	0.00E+00	4.94E-07	1.42E-07	3.53E-07	0.00E+00	4.94E-07	2.31E-08	5.33E-08	0.00E+00	7.64E-08	1.20E-08	2.03E-08	0.00E+00	3.24E-08
2921	599925.7	4175429	1.43E-07	3.56E-07	0.00E+00	4.99E-07	1.43E-07	3.56E-07	0.00E+00	4.99E-07	2.33E-08	5.38E-08	0.00E+00	7.71E-08	1.21E-08	2.05E-08	0.00E+00	3.27E-08
2922	599934.4	4175433	1.44E-07	3.59E-07	0.00E+00	5.03E-07	1.44E-07	3.59E-07	0.00E+00	5.03E-07	2.34E-08	5.42E-08	0.00E+00	7.77E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
2923	599943.1	4175437	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.81E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
2924	599951.8	4175441	1.47E-07	3.67E-07	0.00E+00	5.14E-07	1.47E-07	3.67E-07	0.00E+00	5.14E-07	2.40E-08	5.54E-08	0.00E+00	7.94E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
2925	599960.5	4175445	1.51E-07	3.76E-07	0.00E+00	5.28E-07	1.51E-07	3.76E-07	0.00E+00	5.28E-07	2.46E-08	5.69E-08	0.00E+00	8.15E-08	1.28E-08	2.17E-08	0.00E+00	3.45E-08
2926	599969.2	4175448	1.49E-07	3.71E-07	0.00E+00	5.20E-07	1.49E-07	3.71E-07	0.00E+00	5.20E-07	2.43E-08	5.61E-08	0.00E+00	8.04E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
2927	599977.9	4175452	1.44E-07	3.57E-07	0.00E+00	5.01E-07	1.44E-07	3.57E-07	0.00E+00	5.01E-07	2.33E-08	5.40E-08	0.00E+00	7.74E-08	1.22E-08	2.06E-08	0.00E+00	3.28E-08
2928	599986.6	4175456	1.39E-07	3.46E-07	0.00E+00	4.85E-07	1.39E-07	3.46E-07	0.00E+00	4.85E-07	2.26E-08	5.23E-08	0.00E+00	7.49E-08	1.18E-08	1.99E-08	0.00E+00	3.17E-08
2929	599995.3	4175460	1.35E-07	3.36E-07	0.00E+00	4.72E-07	1.35E-07	3.36E-07	0.00E+00	4.72E-07	2.20E-08	5.09E-08	0.00E+00	7.29E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
2930	600004	4175464	1.3E-07	3.24E-07	0.00E+00	4.55E-07	1.30E-07	3.24E-07	0.00E+00	4.55E-07	2.12E-08	4.90E-08	0.00E+00	7.02E-08	1.11E-08	1.87E-08	0.00E+00	2.97E-08
2931	600012.7	4175468	1.28E-07	3.18E-07	0.00E+00	4.45E-07	1.28E-07	3.18E-07	0.00E+00	4.45E-07	2.08E-08	4.81E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.92E-08
2932	600021.4	4175472	1.28E-07	3.18E-07	0.00E+00	4.46E-07	1.28E-07	3.18E-07	0.00E+00	4.46E-07	2.08E-08	4.81E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.92E-08
2933	600030.1	4175476	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.57E-08	0.00E+00	6.54E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
2934	600038.8	4175479	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.89E-08	9.27E-09	1.57E-08	0.00E+00	2.49E-08
2935	600047.5	4175483	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.65E-08	3.81E-08	0.00E+00	5.46E-08	8.60E-09	1.45E-08	0.00E+00	2.31E-08
2936	600056.2	4175487	9.75E-08	2.43E-07	0.00E+00	3.40E-07	9.75E-08	2.43E-07	0.00E+00	3.40E-07	1.59E-08	3.67E-08	0.00E+00	5.26E-08	8.28E-09	1.40E-08	0.00E+00	2.23E-08
2937	600064.9	4175491	9.56E-08	2.38E-07	0.00E+00	3.34E-07	9.56E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.15E-08	8.12E-09	1.37E-08	0.00E+00	2.18E-08
2938	600073.6	4175495	9.37E-08	2.33E-07	0.00E+00	3.27E-07	9.37E-08	2.33E-07	0.00E+00	3.27E-07	1.52E-08	3.53E-08	0.00E+00	5.05E-08	7.96E-09	1.34E-08	0.00E+00	2.14E-08
2939	600082.3	4175499	9.18E-08	2.29E-07	0.00E+00	3.21E-07	9.18E-08	2.29E-07	0.00E+00	3.21E-07	1.49E-08	3.46E-08	0.00E+00	4.95E-08	7.80E-09	1.32E-08	0.00E+00	2.10E-08
2940	600277	4175655	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.07E-09	1.53E-08	0.00E+00	2.44E-08
2941	600280.8	4175664	1.09E-07	2.70E-07	0.00E+00	3.79E-07	1.09E-07	2.70E-07	0.00E+00	3.79E-07	1.77E-08	4.09E-08	0.00E+00	5.85E-08	9.22E-09	1.56E-08	0.00E+00	2.48E-08
2942	600284.7	4175673	1.1E-07	2.74E-07	0.00E+00	3.84E-07	1.10E-07	2.74E-07	0.00E+00	3.84E-07	1.79E-08	4.14E-08	0.00E+00	5.94E-08	9.35E-09	1.58E-08	0.00E+00	2.51E-08
2943	600288.5	4175682	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.81E-08	4.19E-08	0.00E+00	6.01E-08	9.46E-09	1.60E-08	0.00E+00	2.54E-08
2944	600292.3	4175690	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.22E-08	0.00E+00	6.04E-08	9.52E-09	1.61E-08	0.00E+00	2.56E-08
2945	600296.1	4175699	1.12E-07	2.80E-07	0.00E+00	3.92E-07	1.12E-07	2.80E-07	0.00E+00	3.92E-07	1.83E-08	4.23E-08	0.00E+00	6.05E-08	9.53E-09	1.61E-08	0.00E+00	2.56E-08
2946	600299.9	4175708	1.12E-07	2.79E-07	0.00E+00	3.92E-07	1.12E-07	2.79E-07	0.00E+00	3.92E-07	1.83E-08	4.23E-08	0.00E+00	6.05E-08	9.53E-09	1.61E-08	0.00E+00	2.56E-08
2947	600303.7	4175717	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.22E-08	0.00E+00	6.04E-08	9.51E-09	1.61E-08	0.00E+00	2.56E-08
2948	600307.6	4175725	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.81E-08	4.19E-08	0.00E+00	6.00E-08	9.45E-09	1.60E-08	0.00E+00	2.54E-08
2949	600311.4	4175734	1.11E-07	2.76E-07	0.00E+00	3.86E-07	1.11E-07	2.76E-07	0.00E+00	3.86E-07	1.80E-08	4.17E-08	0.00E+00	5.97E-08	9.40E-09	1.59E-08	0.00E+00	2.53E-08
2950	600315.2	4175743	1.1E-07	2.75E-07	0.00E+00	3.85E-07	1.10E-07	2.75E-07	0.00E+00	3.85E-07	1.80E-08	4.16E-08	0.00E+00	5.95E-08	9.37E-09	1.58E-08	0.00E+00	2.52E-08
2951	600319	4175751	1.09E-07	2.73E-07	0.00E+00	3.82E-07	1.09E-07	2.73E-07	0.00E+00	3.82E-07	1.78E-08	4.12E-08	0.00E+00	5.90E-08	9.29E-09	1.57E-08	0.00E+00	2.50E-08
2952	600322.8	4175760	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.19E-09	1.55E-08	0.00E+00	2.47E-08
2953	600326.6	4175769	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.05E-08	0.00E+00	5.80E-08	9.14E-09	1.54E-08	0.00E+00	2.46E-08
2954	600330.5	4175778	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.07E-09	1.53E-08	0.00E+00	2.44E-08
2955	600334.3	4175786	1.05E-07	2.62E-07	0.00E+00	3.68E-07	1.05E-07	2.62E-07	0.00E+00	3.68E-07	1.71E-08	3.97E-08	0.00E+00	5.68E-08	8.95E-09	1.51E-08	0.00E+00	2.41E-08
2956	600338.1	4175795	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.91E-08	0.00E+00	5.60E-08	8.82E-09	1.49E-08	0.00E+00	2.37E-08
2957	600341.9	4175804	1.03E-07	2.55E-07	0.00E+00	3.58E-07	1.03E-07	2.55E-07	0.00E+00	3.58E-07	1.67E-08	3.86E-08	0.00E+00	5.53E-08	8.70E-09	1.47E-08	0.00E+00	2.34E-08
2958	600345.7	4175812	1.01E-07	2.53E-07	0.00E+00	3.54E-07	1.01E-07	2.53E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.47E-08	8.61E-09	1.46E-08	0.00E+00	2.32E-08
2959	600349.5	4175821	1E-07	2.50E-07	0.00E+00	3.50E-07	1.00E-07	2.50E-07	0.00E+00	3.50E-07	1.63E-08	3.78E-08	0.00E+00	5.41E-08	8.52E-09	1.44E-08	0.00E+00	2.29E-08
2960	600353.4	4175830	9.92E-08	2.47E-07	0.00E+00	3.46E-07	9.92E-08	2.47E-07	0.00E+00	3.46E-07	1.61E-08	3.73E-08	0.00E+00	5.35E-08	8.42E-09	1.42E-08	0.00E+00	2.27E-08
2961	600357.2	4175839	9.85E-08	2.45E-07	0.00E+00	3.44E-07	9.85E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.36E-09	1.41E-08	0.00E+00	2.25E-08
2962	600361	4175847	9.74E-08	2.42E-07	0.00E+00	3.40E-07	9.74E-08	2.42E-07	0.00E+00	3.40E-07	1.58E-08	3.67E-08	0.00E+00	5.25E-08	8.27E-09	1.40E-08	0.00E+00	2.22E-08
2963	600364.8	4175856	9.59E-08	2.39E-07	0.00E+00	3.35E-07	9.59E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.61E-08	0.00E+00	5.17E-08	8.14E-09	1.38E-08	0.00E+00	2.19E-08
2964	600368.6	4175865	9.41E-08	2.34E-07	0.00E+00	3.28E-07	9.41E-08	2.34E-07	0.00E+00	3.28E-07	1.53E-08	3.54E-08	0.00E+00	5.07E-08	7.99E-09	1.35E-08	0.00E+00	2.15E-08
2965	600372.4	4175873	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.47E-08	0.00E+00	4.97E-08	7.83E-09	1.32E-08	0.00E+00	2.11E-08
2966	600376.3	4175882	9.03E-08	2.25E-07	0.00E+00	3.15E-07	9.03E-08	2.25E-07	0.00E+00	3.15E-07	1.47E-08	3.40E-08	0.00E+00	4.87E-08	7.67E-09	1.30E-08	0.00E+00	2.06E-08
2967	600380.1	4175891	8.82E-08	2.20E-07	0.00E+00	3.08E-07	8.82E-08	2.20E-07	0.00E+00	3.08E-07	1.43E-08	3.32E-08	0.00E+00	4.76E-08	7.49E-09	1.27E-08	0.00E+00	2.01E-08

2968	600383.9	4175900	8.75E-08	2.18E-07	0.00E+00	3.05E-07	8.75E-08	2.18E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.72E-08	7.43E-09	1.26E-08	0.00E+00	2.00E-08
2969	600387.7	4175908	8.6E-08	2.14E-07	0.00E+00	3.00E-07	8.60E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.24E-08	0.00E+00	4.64E-08	7.30E-09	1.23E-08	0.00E+00	1.96E-08
2970	600391.5	4175917	8.46E-08	2.11E-07	0.00E+00	2.95E-07	8.46E-08	2.11E-07	0.00E+00	2.95E-07	1.38E-08	3.19E-08	0.00E+00	4.56E-08	7.19E-09	1.21E-08	0.00E+00	1.93E-08
2971	600395.3	4175926	8.35E-08	2.08E-07	0.00E+00	2.91E-07	8.35E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.50E-08	7.09E-09	1.20E-08	0.00E+00	1.91E-08
2972	600399.2	4175935	8.25E-08	2.06E-07	0.00E+00	2.88E-07	8.25E-08	2.06E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.01E-09	1.18E-08	0.00E+00	1.89E-08
2973	600403	4175943	8.16E-08	2.03E-07	0.00E+00	2.85E-07	8.16E-08	2.03E-07	0.00E+00	2.85E-07	1.33E-08	3.07E-08	0.00E+00	4.40E-08	6.93E-09	1.17E-08	0.00E+00	1.86E-08
2974	600406.8	4175952	8.06E-08	2.01E-07	0.00E+00	2.81E-07	8.06E-08	2.01E-07	0.00E+00	2.81E-07	1.31E-08	3.04E-08	0.00E+00	4.35E-08	6.85E-09	1.16E-08	0.00E+00	1.84E-08
2975	600410.6	4175961	7.98E-08	1.99E-07	0.00E+00	2.79E-07	7.98E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.30E-08	6.78E-09	1.15E-08	0.00E+00	1.82E-08
2976	600414.4	4175969	7.93E-08	1.97E-07	0.00E+00	2.77E-07	7.93E-08	1.97E-07	0.00E+00	2.77E-07	1.29E-08	2.98E-08	0.00E+00	4.27E-08	6.73E-09	1.14E-08	0.00E+00	1.81E-08
2977	600418.2	4175978	7.87E-08	1.96E-07	0.00E+00	2.75E-07	7.87E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.96E-08	0.00E+00	4.25E-08	6.69E-09	1.13E-08	0.00E+00	1.80E-08
2978	600422.1	4175987	7.77E-08	1.93E-07	0.00E+00	2.71E-07	7.77E-08	1.93E-07	0.00E+00	2.71E-07	1.26E-08	2.92E-08	0.00E+00	4.19E-08	6.59E-09	1.11E-08	0.00E+00	1.77E-08
2979	600425.9	4175996	7.68E-08	1.91E-07	0.00E+00	2.68E-07	7.68E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.14E-08	6.52E-09	1.10E-08	0.00E+00	1.75E-08
2980	600429.7	4176004	7.59E-08	1.89E-07	0.00E+00	2.65E-07	7.59E-08	1.89E-07	0.00E+00	2.65E-07	1.23E-08	2.86E-08	0.00E+00	4.09E-08	6.44E-09	1.09E-08	0.00E+00	1.73E-08
2981	600433.5	4176013	7.51E-08	1.87E-07	0.00E+00	2.62E-07	7.51E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.83E-08	0.00E+00	4.05E-08	6.38E-09	1.08E-08	0.00E+00	1.72E-08
2982	600437.3	4176022	7.43E-08	1.85E-07	0.00E+00	2.59E-07	7.43E-08	1.85E-07	0.00E+00	2.59E-07	1.21E-08	2.80E-08	0.00E+00	4.01E-08	6.31E-09	1.07E-08	0.00E+00	1.70E-08
2983	600441.1	4176030	7.46E-08	1.86E-07	0.00E+00	2.60E-07	7.46E-08	1.86E-07	0.00E+00	2.60E-07	1.21E-08	2.81E-08	0.00E+00	4.02E-08	6.33E-09	1.07E-08	0.00E+00	1.70E-08
2984	600445	4176039	7.35E-08	1.83E-07	0.00E+00	2.56E-07	7.35E-08	1.83E-07	0.00E+00	2.56E-07	1.20E-08	2.77E-08	0.00E+00	3.96E-08	6.24E-09	1.05E-08	0.00E+00	1.68E-08
2985	600448.8	4176048	7.27E-08	1.81E-07	0.00E+00	2.54E-07	7.27E-08	1.81E-07	0.00E+00	2.54E-07	1.18E-08	2.74E-08	0.00E+00	3.92E-08	6.17E-09	1.04E-08	0.00E+00	1.66E-08
2986	600452.6	4176057	7.06E-08	1.76E-07	0.00E+00	2.46E-07	7.06E-08	1.76E-07	0.00E+00	2.46E-07	1.15E-08	2.66E-08	0.00E+00	3.81E-08	6.00E-09	1.01E-08	0.00E+00	1.61E-08
2987	599743	4175348	9.88E-08	2.46E-07	0.00E+00	3.45E-07	9.88E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.39E-09	1.42E-08	0.00E+00	2.26E-08
2988	599752.6	4175332	8.18E-08	2.04E-07	0.00E+00	2.86E-07	8.18E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.95E-09	1.17E-08	0.00E+00	1.87E-08
2989	599761.2	4175336	8.19E-08	2.04E-07	0.00E+00	2.86E-07	8.19E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.95E-09	1.17E-08	0.00E+00	1.87E-08
2990	599769.8	4175340	8.03E-08	2.00E-07	0.00E+00	2.80E-07	8.03E-08	2.00E-07	0.00E+00	2.80E-07	1.31E-08	3.02E-08	0.00E+00	4.33E-08	6.82E-09	1.15E-08	0.00E+00	1.83E-08
2991	599778.5	4175343	7.76E-08	1.93E-07	0.00E+00	2.71E-07	7.76E-08	1.93E-07	0.00E+00	2.71E-07	1.26E-08	2.92E-08	0.00E+00	4.18E-08	6.59E-09	1.11E-08	0.00E+00	1.77E-08
2992	599787.1	4175347	7.77E-08	1.93E-07	0.00E+00	2.71E-07	7.77E-08	1.93E-07	0.00E+00	2.71E-07	1.26E-08	2.92E-08	0.00E+00	4.19E-08	6.59E-09	1.11E-08	0.00E+00	1.77E-08
2993	599795.7	4175351	8.32E-08	2.07E-07	0.00E+00	2.90E-07	8.32E-08	2.07E-07	0.00E+00	2.90E-07	1.35E-08	3.13E-08	0.00E+00	4.49E-08	7.06E-09	1.19E-08	0.00E+00	1.90E-08
2994	599804.4	4175355	8.93E-08	2.22E-07	0.00E+00	3.12E-07	8.93E-08	2.22E-07	0.00E+00	3.12E-07	1.45E-08	3.36E-08	0.00E+00	4.82E-08	7.59E-09	1.28E-08	0.00E+00	2.04E-08
2995	599813	4175359	9.48E-08	2.36E-07	0.00E+00	3.31E-07	9.48E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.11E-08	8.05E-09	1.36E-08	0.00E+00	2.17E-08
2996	599821.6	4175363	9.74E-08	2.42E-07	0.00E+00	3.40E-07	9.74E-08	2.42E-07	0.00E+00	3.40E-07	1.58E-08	3.67E-08	0.00E+00	5.25E-08	8.27E-09	1.40E-08	0.00E+00	2.22E-08
2997	599830.2	4175366	1.03E-07	2.58E-07	0.00E+00	3.61E-07	1.03E-07	2.58E-07	0.00E+00	3.61E-07	1.68E-08	3.89E-08	0.00E+00	5.58E-08	8.78E-09	1.48E-08	0.00E+00	2.36E-08
2998	599838.9	4175370	1.1E-07	2.73E-07	0.00E+00	3.83E-07	1.10E-07	2.73E-07	0.00E+00	3.83E-07	1.79E-08	4.13E-08	0.00E+00	5.92E-08	9.32E-09	1.58E-08	0.00E+00	2.51E-08
2999	599847.5	4175374	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.88E-08	4.34E-08	0.00E+00	6.22E-08	9.79E-09	1.65E-08	0.00E+00	2.63E-08
3000	599856.1	4175378	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.49E-08	0.00E+00	6.43E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
3001	599864.8	4175382	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.62E-08	0.00E+00	6.62E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
3002	599873.4	4175386	1.26E-07	3.14E-07	0.00E+00	4.40E-07	1.26E-07	3.14E-07	0.00E+00	4.40E-07	2.05E-08	4.74E-08	0.00E+00	6.79E-08	1.07E-08	1.81E-08	0.00E+00	2.88E-08
3003	599882	4175389	1.28E-07	3.20E-07	0.00E+00	4.48E-07	1.28E-07	3.20E-07	0.00E+00	4.48E-07	2.09E-08	4.84E-08	0.00E+00	6.93E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
3004	599890.6	4175393	1.31E-07	3.26E-07	0.00E+00	4.58E-07	1.31E-07	3.26E-07	0.00E+00	4.58E-07	2.13E-08	4.94E-08	0.00E+00	7.07E-08	1.11E-08	1.88E-08	0.00E+00	2.99E-08
3005	599899.3	4175397	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.05E-08	0.00E+00	7.23E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
3006	599907.9	4175401	1.36E-07	3.39E-07	0.00E+00	4.75E-07	1.36E-07	3.39E-07	0.00E+00	4.75E-07	2.22E-08	5.13E-08	0.00E+00	7.34E-08	1.16E-08	1.95E-08	0.00E+00	3.11E-08
3007	599916.5	4175405	1.37E-07	3.42E-07	0.00E+00	4.80E-07	1.37E-07	3.42E-07	0.00E+00	4.80E-07	2.24E-08	5.17E-08	0.00E+00	7.41E-08	1.17E-08	1.97E-08	0.00E+00	3.14E-08
3008	599925.2	4175409	1.39E-07	3.46E-07	0.00E+00	4.86E-07	1.39E-07	3.46E-07	0.00E+00	4.86E-07	2.26E-08	5.24E-08	0.00E+00	7.50E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08
3009	599933.8	4175412	1.41E-07	3.51E-07	0.00E+00	4.93E-07	1.41E-07	3.51E-07	0.00E+00	4.93E-07	2.30E-08	5.31E-08	0.00E+00	7.61E-08	1.20E-08	2.03E-08	0.00E+00	3.22E-08
3010	599942.4	4175416	1.39E-07	3.47E-07	0.00E+00	4.87E-07	1.39E-07	3.47E-07	0.00E+00	4.87E-07	2.27E-08	5.25E-08	0.00E+00	7.52E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08
3011	599951	4175420	1.38E-07	3.44E-07	0.00E+00	4.82E-07	1.38E-07	3.44E-07	0.00E+00	4.82E-07	2.25E-08	5.20E-08	0.00E+00	7.45E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
3012	599959.7	4175424	1.38E-07	3.43E-07	0.00E+00	4.81E-07	1.38E-07	3.43E-07	0.00E+00	4.81E-07	2.24E-08	5.19E-08	0.00E+00	7.44E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
3013	599968.3	4175428	1.36E-07	3.38E-07	0.00E+00	4.74E-07	1.36E-07	3.38E-07	0.00E+00	4.74E-07	2.21E-08	5.11E-08	0.00E+00	7.32E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
3014	599976.9	4175432	1.31E-07	3.27E-07	0.00E+00	4.58E-07	1.31E-07	3.27E-07	0.00E+00	4.58E-07	2.14E-08	4.95E-08	0.00E+00	7.08E-08	1.12E-08	1.89E-08	0.00E+00	3.00E-08
3015	599985.6	4175435	1.28E-07	3.18E-07	0.00E+00	4.45E-07	1.28E-07	3.18E-07	0.00E+00	4.45E-07	2.07E-08	4.80E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
3016	599994.2	4175439	1.24E-07	3.09E-07	0.00E+00	4.34E-07	1.24E-07	3.09E-07	0.00E+00	4.34E-07	2.02E-08	4.68E-08	0.00E+00	6.70E-08	1.06E-08	1.78E-08	0.00E+00	2.84E-08
3017	600002.8	4175443	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.93E-08	4.46E-08	0.00E+00	6.39E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
3018	600011.4	4175447	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.19E-08	0.00E+00	6.00E-08	9.45E-09	1.60E-08	0.00E+00	2.54E-08
3019	600020.1	4175451	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.70E-08	3.95E-08	0.00E+00	5.65E-08	8.90E-09	1.50E-08	0.00E+00	2.39E-08
3020	600028.7	4175455	9.99E-08	2.49E-07	0.00E+00	3.49E-07	9.99E-08	2.49E-07	0.00E+00	3.49E-07	1.63E-08	3.76E-08	0.00E+00	5.39E-08	8.49E-09	1.43E-08	0.00E+00	2.28E-08
3021	600037.3	4175458	9.44E-08	2.35E-07	0.00E+00	3.30E-07	9.44E-08	2.35E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.09E-08	8.02E-09	1.36E-08	0.00E+00	2.16E-08
3022	600046	4175462	8.87E-08	2.21E-07	0.00E+00	3.09E-07	8.87E-08	2.21E-07	0.00E+00	3.09E-07	1.44E-08	3.34E-08	0.00E+00	4.78E-08	7.53E-09	1.27E-08	0.00E+00	2.03E-08
3023	600054.6	4175466	8.35E-08	2.08E-07	0.00E+00	2.92E-07	8.35E-08	2.08E-07	0.00E+00	2.92E-07	1.36E-08	3.15E-08	0.00E+00	4.50E-08	7.09E-09	1.20E-08	0.00E+00	1.91E-08
3024	600063.2	4175470	8.27E-08	2.06E-07	0.00E+00	2.88E-07	8.27E-08	2.06E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.46E-08	7.02E-09	1.19E-08	0.00E+00	1.89E-08
3025	600071.8	4175474	8.1E-08	2.02E-07	0.00E+00	2.83E-07	8.10E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.88E-09	1.16E-08	0.00E+00	1.85E-08
3026	600080.5	4175478	7.95E-08	1.98E-07	0.00E+00	2.78E-07	7.95E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	2.99E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
3027	600089.1	4175481	8.03E-08	2.00E-07	0.00E+00	2.80E-07	8.03E-08	2.00E-07	0.00E+00	2.80E-07	1.31E-08	3.02E-08	0.00E+00	4.33E-08	6.81E-09	1.15E-08	0.00E+00	1.83E-08
3028	600097.7	4175485	8.14E-08	2.03E-07	0.00E+00	2.84E-07	8.14E-08	2.03E-07	0.00E+00	2.84E-07	1.32E-08	3.07E-08	0.00E+00	4.39E-08	6.91E-09	1.17E-08	0.00E+00	1.86E-08
3029	600290.9	4175641	1E-07	2.50E-07	0.00E+00	3.50E-07	1.00E-07	2.50E-07	0.00E+00	3.50E-07	1.63E-08	3.78E-08	0.00E+00	5.41E-08	8.51E-09	1.44E-08	0.00E+00	2.29E-08
3030	600294.7	4175649	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.80E-08	0.00E+00	5.45E-08	8.58E-09	1.45E-08	0.00E+00	2.31E-08
3031	600298.5	4175658	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.67E-08	3.86E-08	0.00E+00	5.52E-08	8.69E-09	1.47E-08	0.00E+00	2.34E-08
3032	600302.3	4175667	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.67E-09	1.46E-08	0.00E+00	2.33E-08
3033	600306	4175675	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.68E-08	3.88E-08	0.00E+00	5.55E-08	8.74E-09	1.48E-08	0.00E+00	2.35E-08
3034	600309.8	4175684	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.75E-09	1.48E-08	0.00E+00	2.35E-08
3035	600313.6	4175693	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.68E-08	3.88E-08	0.00E+00	5.55E-08	8.75E-09	1.48E-08	0.00E+00	2.35E-08
3036	600317.4	4175701	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.67E-08	3.87E-08	0.00E+00	5.55E-08	8.74E-09	1.48E-08	0.00E+00	2.35E-08
3037	600321.2	4175710	1.03E-07	2.55E-07	0.00E+00	3.58E-07	1.03E-07	2.55E-07	0.00E+00	3.58E-07	1.67E-08	3.86E-08	0.00E+00	5.53E-08	8.71E-09	1.47E-08	0.00E+00	2.34E-08
3038	600325	4175719	1.02E-07	2.55E-07	0.00E+00	3.58E-07	1.02E-07	2.55E-07	0.00E+00	3.58E-07	1.67E-08	3.86E-08	0.00E+00	5.52E-08	8.70E-09	1.47E-08	0.00E+00	2.34E-08
3039	600328.8	4175727	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.75E-09	1.48E-08	0.00E+00	2.35E-08
3040	600332.5	4175736	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.91E-08	0.00E+00	5.60E-08	8.82E-09	1.49E-08	0.00E+00	2.37E-08
3041	600336.3	4175744	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.66E-08	8.92E-09	1.51E-08	0.00E+00	2.40E-08
3042	600340.1	4175753	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.66E-08	8.91E-09	1.51E-08	0.00E+00	2.40E-08
3043	600343.9	4175762	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.70E-08	3.93E-08	0.00E+00	5.62E-08	8.85E-09	1.50E-08	0.00E+00	2.38E-08
3044	600347.7	4175770	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.68E-08	3.90E-08	0.00E+00	5.58E-08	8.79E-09	1.49E-08	0.00E+00	2.36E-08
3045	600351.5	4175779	1.03E-07	2.55E-07	0.00E+00	3.58E-07	1.03E-07	2.55E-07	0.00E+00	3.58E-07	1.67E-08	3.86E-08	0.00E+00	5.53E-08	8.71E-09	1.47E-08	0.00E+00	2.34E-08
3046	600355.2	4175788	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.65E-08	3.83E-08	0.00E+00	5.48E-08	8.63E-09	1.46E-08	0.00E+00	2.32E-08
3047	600359	4175796	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.65E-08	3.81E-08	0.00E+00	5.46E-08	8.60E-09	1.45E-08	0.00E+00	2.31E-08
3048	600362.8	4175805	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.80E-08	0.00E+00	5.44E-08	8.56E-09	1.45E-08	0.00E+00	2.30E-08
3049	600366.6	4175814	1E-07	2.50E-07	0.00E+00	3.50E-07	1.00E-07	2.50E-07	0.00E+00	3.50E-07	1.63E-08	3.78E-08	0.00E+00	5.41E-08	8.51E-09	1.44E-08	0.00E+00	2.29E-08
3050	600370.4	4175822	9.96E-08	2.48E-07	0.00E+00	3.48E-07	9.96E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.37E-08	8.45E-09	1.43E-08	0.00E+00	2.27E-08
3051	600374.2	4175831	9.86E-08	2.46E-07	0.00E+00	3.44E-07	9.86E-08	2.46E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.32E-08	8.37E-09	1.41E-08	0.00E+00	2.25E-08
3052	600378	4175840	9.72E-08	2.42E-07	0.00E+00	3.39E-07	9.72E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.66E-08	0.00E+00	5.24E-08	8.25E-09	1.39E-08	0.00E+00	2.22E-08
3053	600381.7	4175848	9.5E-08	2.37E-07	0.00E+00	3.32E-07	9.50E-08	2.37E-07	0.00E+00	3.32E-07	1.55E-08	3.58E-08	0.00E+00	5.12E-08	8.07E-09	1.36E-08	0.00E+00	2.17E-08
3054	600385.5	4175857	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.47E-08	0.00E+00	4.97E-08	7.83E-09	1.32E-08	0.00E+00	2.11E-08
3055	600389.3	4175866	8.94E-08	2.23E-07	0.00E+00	3.12E-07	8.94E-08	2.23E-07	0.00E+00	3.12E-07	1.45E-08	3.37E-08	0.00E+00	4.82E-08	7.59E-09	1.28E-08	0.00E+00	2.04E-08
3056	600393.1	4175874	8.73E-08	2.17E-07	0.00E+00	3.05E-07	8.73E-08	2.17E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.71E-08	7.41E-09	1.25E-08	0.00E+00	1.99E-08
3057	600396.9	4175883	8.55E-08	2.13E-07	0.00E+00	2.99E-07	8.55E-08	2.13E-07	0.00E+00	2.99E-07	1.39E-08	3.22E-08	0.00E+00	4.61E-08	7.26E-09	1.23E-08	0.00E+00	1.95E-08
3058	600400.7	4175892	8.5E-08	2.12E-07	0.00E+00	2.97E-07	8.50E-08	2.12E-07	0.00E+00	2.97E-07	1.38E-08	3.20E-08	0.00E+00	4.58E-08	7.22E-09	1.22E-08	0.00E+00	1.94E-08
3059	600404.5	4175900	8.36E-08	2.08E-07	0.00E+00	2.92E-07	8.36E-08	2.08E-07	0.00E+00	2.92E-07	1.36E-08	3.15E-08	0.00E+00	4.51E-08	7.10E-09	1.20E-08	0.00E+00	1.91E-08
3060	600408.2	4175909	8.27E-08	2.06E-07	0.00E+00	2.89E-07	8.27E-08	2.06E-07	0.00E+00	2.89E-07	1.34E-08	3.11E-08	0.00E+00	4.46E-08	7.02E-09	1.19E-08	0.00E+00	1.89E-08
3061	600412	4175917	8.19E-08	2.04E-07	0.00E+00	2.86E-07	8.19E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.42E-08	6.95E-09	1.18E-08	0.00E+00	1.87E-08
3062	600415.8	4175926	8.13E-08	2.02E-07	0.00E+00	2.84E-07	8.13E-08	2.02E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.38E-08	6.90E-09	1.17E-08	0.00E+00	1.86E-08
3063	600419.6	4175935	8.07E-08	2.01E-07	0.00E+00	2.82E-07	8.07E-08	2.01E-07	0.00E+00	2.82E-07	1.31E-08	3.04E-08	0.00E+00	4.35E-08	6.86E-09	1.16E-08	0.00E+00	1.84E-08
3064	600423.4	4175943	7.92E-08	1.97E-07	0.00E+00	2.77E-07	7.92E-08	1.97E-07	0.00E+00	2.77E-07	1.29E-08	2.98E-08	0.00E+00	4.27E-08	6.73E-09	1.14E-08	0.00E+00	1.81E-08
3065	600427.2	4175952	7.82E-08	1.95E-07	0.00E+00	2.73E-07	7.82E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.64E-09	1.12E-08	0.00E+00	1.79E-08
3066	600431	4175961	7.76E-08	1.93E-07	0.00E+00	2.71E-07	7.76E-08	1.93E-07	0.00E+00	2.71E-07	1.26E-08	2.92E-08	0.00E+00	4.18E-08	6.59E-09	1.11E-08	0.00E+00	1.77E-08
3067	600434.7	4175969	7.71E-08	1.92E-07	0.00E+00	2.69E-07	7.71E-08	1.92E-07	0.00E+00	2.69E-07	1.25E-08	2.90E-08	0.00E+00	4.16E-08	6.54E-09	1.11E-08	0.00E+00	1.76E-08
3068	600438.5	4175978	7.65E-08	1.90E-07	0.00E+00	2.67E-07	7.65E-08	1.90E-07	0.00E+00	2.67E-07	1.24E-08	2.88E-08	0.00E+00	4.12E-08	6.49E-09	1.10E-08	0.00E+00	1.75E-08
3069	600442.3	4175987	7.59E-08	1.89E-07	0.00E+00	2.65E-07	7.59E-08	1.89E-07	0.00E+00	2.65E-07	1.23E-08	2.86E-08	0.00E+00	4.09E-08	6.44E-09	1.09E-08	0.00E+00	1.73E-08
3070	600446.1	4175995	7.52E-08	1.87E-07	0.00E+00	2.63E-07	7.52E-08	1.87E-07	0.00E+00	2.63E-07	1.22E-08	2.83E-08	0.00E+00	4.06E-08	6.39E-09	1.08E-08	0.00E+00	1.72E-08
3071	600449.9	4176004	7.46E-08	1.86E-07	0.00E+00	2.60E-07	7.46E-08	1.86E-07	0.00E+00	2.60E-07	1.21E-08	2.81E-08	0.00E+00	4.02E-08	6.33E-09	1.07E-08	0.00E+00	1.70E-08
3072	600453.7	4176013	7.39E-08	1.84E-07	0.00E+00	2.58E-07	7.39E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.78E-08	0.00E+00	3.98E-08	6.27E-09	1.06E-08	0.00E+00	1.69E-08
3073	600457.5	4176021	7.31E-08	1.82E-07	0.00E+00	2.55E-07	7.31E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.94E-08	6.21E-09	1.05E-08	0.00E+00	1.67E-08
3074	600461.2	4176030	7.22E-08	1.80E-07	0.00E+00	2.52E-07	7.22E-08	1.80E-07	0.00E+00	2.52E-07	1.18E-08	2.72E-08	0.00E+00	3.90E-08	6.13E-09	1.04E-08	0.00E+00	1.65E-08
3075	600465	4176039	7.25E-08	1.81E-07	0.00E+00	2.53E-07	7.25E-08	1.81E-07	0.00E+00	2.53E-07	1.18E-08	2.73E-08	0.00E+00	3.91E-08	6.16E-09	1.04E-08	0.00E+00	1.66E-08
3076	600468.8	4176047	7.13E-08	1.78E-07	0.00E+00	2.49E-07	7.13E-08	1.78E-07	0.00E+00	2.49E-07	1.16E-08	2.68E-08	0.00E+00	3.84E-08	6.05E-09	1.02E-08	0.00E+00	1.63E-08
3077	600472.6	4176056	6.89E-08	1.72E-07	0.00E+00	2.41E-07	6.89E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.72E-08	5.85E-09	9.89E-09	0.00E+00	1.57E-08

3078	599744	4175328	8.41E-08	2.09E-07	0.00E+00	2.93E-07	8.41E-08	2.09E-07	0.00E+00	2.93E-07	1.37E-08	3.16E-08	0.00E+00	4.53E-08	7.14E-09	1.21E-08	0.00E+00	1.92E-08
3079	599753.6	4175312	7.37E-08	1.83E-07	0.00E+00	2.57E-07	7.37E-08	1.83E-07	0.00E+00	2.57E-07	1.20E-08	2.77E-08	0.00E+00	3.97E-08	6.26E-09	1.06E-08	0.00E+00	1.68E-08
3080	599762.3	4175316	7.35E-08	1.83E-07	0.00E+00	2.56E-07	7.35E-08	1.83E-07	0.00E+00	2.56E-07	1.20E-08	2.77E-08	0.00E+00	3.96E-08	6.24E-09	1.05E-08	0.00E+00	1.68E-08
3081	599771	4175320	7.26E-08	1.81E-07	0.00E+00	2.53E-07	7.26E-08	1.81E-07	0.00E+00	2.53E-07	1.18E-08	2.73E-08	0.00E+00	3.92E-08	6.17E-09	1.04E-08	0.00E+00	1.66E-08
3082	599779.7	4175324	7.12E-08	1.77E-07	0.00E+00	2.48E-07	7.12E-08	1.77E-07	0.00E+00	2.48E-07	1.16E-08	2.68E-08	0.00E+00	3.84E-08	6.05E-09	1.02E-08	0.00E+00	1.63E-08
3083	599788.4	4175327	7.24E-08	1.80E-07	0.00E+00	2.53E-07	7.24E-08	1.80E-07	0.00E+00	2.53E-07	1.18E-08	2.72E-08	0.00E+00	3.90E-08	6.15E-09	1.04E-08	0.00E+00	1.65E-08
3084	599797.1	4175331	7.66E-08	1.91E-07	0.00E+00	2.67E-07	7.66E-08	1.91E-07	0.00E+00	2.67E-07	1.25E-08	2.88E-08	0.00E+00	4.13E-08	6.50E-09	1.10E-08	0.00E+00	1.75E-08
3085	599805.9	4175335	8.13E-08	2.02E-07	0.00E+00	2.84E-07	8.13E-08	2.02E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.38E-08	6.90E-09	1.17E-08	0.00E+00	1.86E-08
3086	599814.6	4175339	8.67E-08	2.16E-07	0.00E+00	3.03E-07	8.67E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.26E-08	0.00E+00	4.68E-08	7.36E-09	1.24E-08	0.00E+00	1.98E-08
3087	599823.3	4175343	9.19E-08	2.29E-07	0.00E+00	3.21E-07	9.19E-08	2.29E-07	0.00E+00	3.21E-07	1.49E-08	3.46E-08	0.00E+00	4.95E-08	7.80E-09	1.32E-08	0.00E+00	2.10E-08
3088	599832	4175347	9.81E-08	2.44E-07	0.00E+00	3.42E-07	9.81E-08	2.44E-07	0.00E+00	3.42E-07	1.60E-08	3.69E-08	0.00E+00	5.29E-08	8.33E-09	1.41E-08	0.00E+00	2.24E-08
3089	599840.7	4175351	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.70E-08	3.93E-08	0.00E+00	5.62E-08	8.86E-09	1.50E-08	0.00E+00	2.38E-08
3090	599849.4	4175354	1.1E-07	2.73E-07	0.00E+00	3.83E-07	1.10E-07	2.73E-07	0.00E+00	3.83E-07	1.79E-08	4.13E-08	0.00E+00	5.92E-08	9.32E-09	1.58E-08	0.00E+00	2.51E-08
3091	599858.1	4175358	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.15E-07	2.85E-07	0.00E+00	4.00E-07	1.86E-08	4.32E-08	0.00E+00	6.18E-08	9.73E-09	1.65E-08	0.00E+00	2.62E-08
3092	599866.8	4175362	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.93E-08	4.47E-08	0.00E+00	6.41E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
3093	599875.5	4175366	1.22E-07	3.04E-07	0.00E+00	4.27E-07	1.22E-07	3.04E-07	0.00E+00	4.27E-07	1.99E-08	4.60E-08	0.00E+00	6.59E-08	1.04E-08	1.75E-08	0.00E+00	2.79E-08
3094	599884.2	4175370	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
3095	599892.9	4175374	1.28E-07	3.18E-07	0.00E+00	4.45E-07	1.28E-07	3.18E-07	0.00E+00	4.45E-07	2.08E-08	4.80E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
3096	599901.6	4175378	1.31E-07	3.25E-07	0.00E+00	4.56E-07	1.31E-07	3.25E-07	0.00E+00	4.56E-07	2.12E-08	4.91E-08	0.00E+00	7.04E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
3097	599910.3	4175382	1.32E-07	3.29E-07	0.00E+00	4.61E-07	1.32E-07	3.29E-07	0.00E+00	4.61E-07	2.15E-08	4.98E-08	0.00E+00	7.12E-08	1.12E-08	1.90E-08	0.00E+00	3.02E-08
3098	599919	4175385	1.33E-07	3.32E-07	0.00E+00	4.66E-07	1.33E-07	3.32E-07	0.00E+00	4.66E-07	2.17E-08	5.02E-08	0.00E+00	7.20E-08	1.13E-08	1.92E-08	0.00E+00	3.05E-08
3099	599927.7	4175389	1.35E-07	3.36E-07	0.00E+00	4.70E-07	1.35E-07	3.36E-07	0.00E+00	4.70E-07	2.19E-08	5.07E-08	0.00E+00	7.27E-08	1.14E-08	1.93E-08	0.00E+00	3.08E-08
3100	599936.4	4175393	1.35E-07	3.36E-07	0.00E+00	4.71E-07	1.35E-07	3.36E-07	0.00E+00	4.71E-07	2.20E-08	5.08E-08	0.00E+00	7.28E-08	1.15E-08	1.94E-08	0.00E+00	3.08E-08
3101	599945.1	4175397	1.32E-07	3.30E-07	0.00E+00	4.62E-07	1.32E-07	3.30E-07	0.00E+00	4.62E-07	2.15E-08	4.99E-08	0.00E+00	7.14E-08	1.12E-08	1.90E-08	0.00E+00	3.03E-08
3102	599953.8	4175401	1.3E-07	3.24E-07	0.00E+00	4.54E-07	1.30E-07	3.24E-07	0.00E+00	4.54E-07	2.11E-08	4.89E-08	0.00E+00	7.01E-08	1.10E-08	1.87E-08	0.00E+00	2.97E-08
3103	599962.5	4175405	1.28E-07	3.18E-07	0.00E+00	4.45E-07	1.28E-07	3.18E-07	0.00E+00	4.45E-07	2.08E-08	4.81E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.92E-08
3104	599971.2	4175409	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.56E-08	0.00E+00	6.53E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
3105	599980	4175412	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.84E-08	4.27E-08	0.00E+00	6.11E-08	9.62E-09	1.63E-08	0.00E+00	2.59E-08
3106	599988.7	4175416	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.67E-08	8.93E-09	1.51E-08	0.00E+00	2.40E-08
3107	599997.4	4175420	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.79E-08	0.00E+00	5.43E-08	8.56E-09	1.45E-08	0.00E+00	2.30E-08
3108	600006.1	4175424	9.75E-08	2.43E-07	0.00E+00	3.40E-07	9.75E-08	2.43E-07	0.00E+00	3.40E-07	1.59E-08	3.67E-08	0.00E+00	5.26E-08	8.28E-09	1.40E-08	0.00E+00	2.23E-08
3109	600014.8	4175428	9.33E-08	2.32E-07	0.00E+00	3.26E-07	9.33E-08	2.32E-07	0.00E+00	3.26E-07	1.52E-08	3.51E-08	0.00E+00	5.03E-08	7.92E-09	1.34E-08	0.00E+00	2.13E-08
3110	600023.5	4175432	8.83E-08	2.20E-07	0.00E+00	3.08E-07	8.83E-08	2.20E-07	0.00E+00	3.08E-07	1.44E-08	3.32E-08	0.00E+00	4.76E-08	7.50E-09	1.27E-08	0.00E+00	2.02E-08
3111	600032.2	4175436	8.5E-08	2.12E-07	0.00E+00	2.97E-07	8.50E-08	2.12E-07	0.00E+00	2.97E-07	1.38E-08	3.20E-08	0.00E+00	4.59E-08	7.22E-09	1.22E-08	0.00E+00	1.94E-08
3112	600040.9	4175440	8.08E-08	2.01E-07	0.00E+00	2.82E-07	8.08E-08	2.01E-07	0.00E+00	2.82E-07	1.31E-08	3.04E-08	0.00E+00	4.36E-08	6.86E-09	1.16E-08	0.00E+00	1.85E-08
3113	600049.6	4175443	7.59E-08	1.89E-07	0.00E+00	2.65E-07	7.59E-08	1.89E-07	0.00E+00	2.65E-07	1.24E-08	2.86E-08	0.00E+00	4.09E-08	6.45E-09	1.09E-08	0.00E+00	1.73E-08
3114	600058.3	4175447	7.44E-08	1.85E-07	0.00E+00	2.60E-07	7.44E-08	1.85E-07	0.00E+00	2.60E-07	1.21E-08	2.80E-08	0.00E+00	4.01E-08	6.31E-09	1.07E-08	0.00E+00	1.70E-08
3115	600067	4175451	7.58E-08	1.89E-07	0.00E+00	2.64E-07	7.58E-08	1.89E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.43E-09	1.09E-08	0.00E+00	1.73E-08
3116	600075.7	4175455	7.63E-08	1.90E-07	0.00E+00	2.66E-07	7.63E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.12E-08	6.48E-09	1.10E-08	0.00E+00	1.74E-08
3117	600084.4	4175459	7.63E-08	1.90E-07	0.00E+00	2.66E-07	7.63E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.12E-08	6.48E-09	1.10E-08	0.00E+00	1.74E-08
3118	600093.1	4175463	7.79E-08	1.94E-07	0.00E+00	2.72E-07	7.79E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.93E-08	0.00E+00	4.20E-08	6.61E-09	1.12E-08	0.00E+00	1.78E-08
3119	600101.8	4175467	7.87E-08	1.96E-07	0.00E+00	2.75E-07	7.87E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
3120	600110.5	4175470	7.86E-08	1.96E-07	0.00E+00	2.74E-07	7.86E-08	1.96E-07	0.00E+00	2.74E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
3121	600301.6	4175619	9.61E-08	2.39E-07	0.00E+00	3.35E-07	9.61E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.62E-08	0.00E+00	5.18E-08	8.16E-09	1.38E-08	0.00E+00	2.20E-08
3122	600305.4	4175627	9.7E-08	2.41E-07	0.00E+00	3.38E-07	9.70E-08	2.41E-07	0.00E+00	3.38E-07	1.58E-08	3.65E-08	0.00E+00	5.23E-08	8.23E-09	1.39E-08	0.00E+00	2.22E-08
3123	600309.2	4175636	9.82E-08	2.44E-07	0.00E+00	3.43E-07	9.82E-08	2.44E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.29E-08	8.33E-09	1.41E-08	0.00E+00	2.24E-08
3124	600313.1	4175645	9.87E-08	2.46E-07	0.00E+00	3.44E-07	9.87E-08	2.46E-07	0.00E+00	3.44E-07	1.61E-08	3.72E-08	0.00E+00	5.32E-08	8.38E-09	1.42E-08	0.00E+00	2.25E-08
3125	600316.9	4175654	9.88E-08	2.46E-07	0.00E+00	3.45E-07	9.88E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.39E-09	1.42E-08	0.00E+00	2.26E-08
3126	600320.7	4175662	9.88E-08	2.46E-07	0.00E+00	3.45E-07	9.88E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.39E-09	1.42E-08	0.00E+00	2.26E-08
3127	600324.5	4175671	9.82E-08	2.45E-07	0.00E+00	3.43E-07	9.82E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.29E-08	8.34E-09	1.41E-08	0.00E+00	2.24E-08
3128	600328.3	4175680	9.77E-08	2.43E-07	0.00E+00	3.41E-07	9.77E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.30E-09	1.40E-08	0.00E+00	2.23E-08
3129	600332.1	4175688	9.87E-08	2.46E-07	0.00E+00	3.45E-07	9.87E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.32E-08	8.38E-09	1.42E-08	0.00E+00	2.25E-08
3130	600336	4175697	9.89E-08	2.46E-07	0.00E+00	3.45E-07	9.89E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.40E-09	1.42E-08	0.00E+00	2.26E-08
3131	600339.8	4175706	9.77E-08	2.43E-07	0.00E+00	3.41E-07	9.77E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.30E-09	1.40E-08	0.00E+00	2.23E-08
3132	600343.6	4175715	9.78E-08	2.44E-07	0.00E+00	3.41E-07	9.78E-08	2.44E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.30E-09	1.40E-08	0.00E+00	2.23E-08
3133	600347.4	4175723	9.83E-08	2.45E-07	0.00E+00	3.43E-07	9.83E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.30E-08	8.35E-09	1.41E-08	0.00E+00	2.25E-08
3134	600351.2	4175732	9.92E-08	2.47E-07	0.00E+00	3.46E-07	9.92E-08	2.47E-07	0.00E+00	3.46E-07	1.61E-08	3.73E-08	0.00E+00	5.35E-08	8.42E-09	1.42E-08	0.00E+00	2.27E-08
3135	600355.1	4175741	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.47E-08	8.61E-09	1.45E-08	0.00E+00	2.32E-08
3136	600358.9	4175750	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.76E-09	1.48E-08	0.00E+00	2.36E-08
3137	600362.7	4175758	1.03E-07	2.57E-07	0.00E+00	3.61E-07	1.03E-07	2.57E-07	0.00E+00	3.61E-07	1.68E-08	3.89E-08	0.00E+00	5.57E-08	8.77E-09	1.48E-08	0.00E+00	2.36E-08
3138	600366.5	4175767	1.03E-07	2.58E-07	0.00E+00	3.61E-07	1.03E-07	2.58E-07	0.00E+00	3.61E-07	1.68E-08	3.90E-08	0.00E+00	5.58E-08	8.78E-09	1.48E-08	0.00E+00	2.36E-08
3139	600370.3	4175776	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.68E-08	3.90E-08	0.00E+00	5.58E-08	8.79E-09	1.49E-08	0.00E+00	2.36E-08
3140	600374.2	4175784	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.76E-09	1.48E-08	0.00E+00	2.36E-08
3141	600378	4175793	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.72E-09	1.47E-08	0.00E+00	2.35E-08
3142	600381.8	4175802	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.51E-08	8.67E-09	1.47E-08	0.00E+00	2.33E-08
3143	600385.6	4175811	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.01E-07	2.51E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.43E-08	8.55E-09	1.44E-08	0.00E+00	2.30E-08
3144	600389.4	4175819	9.81E-08	2.44E-07	0.00E+00	3.42E-07	9.81E-08	2.44E-07	0.00E+00	3.42E-07	1.60E-08	3.69E-08	0.00E+00	5.29E-08	8.33E-09	1.41E-08	0.00E+00	2.24E-08
3145	600393.3	4175828	9.53E-08	2.37E-07	0.00E+00	3.33E-07	9.53E-08	2.37E-07	0.00E+00	3.33E-07	1.55E-08	3.59E-08	0.00E+00	5.14E-08	8.09E-09	1.37E-08	0.00E+00	2.18E-08
3146	600397.1	4175837	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.33E-08	0.00E+00	2.11E-08
3147	600400.9	4175845	8.95E-08	2.23E-07	0.00E+00	3.12E-07	8.95E-08	2.23E-07	0.00E+00	3.12E-07	1.46E-08	3.37E-08	0.00E+00	4.82E-08	7.60E-09	1.28E-08	0.00E+00	2.04E-08
3148	600404.7	4175854	8.69E-08	2.16E-07	0.00E+00	3.03E-07	8.69E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.69E-08	7.38E-09	1.25E-08	0.00E+00	1.99E-08
3149	600408.5	4175863	8.46E-08	2.11E-07	0.00E+00	2.95E-07	8.46E-08	2.11E-07	0.00E+00	2.95E-07	1.38E-08	3.18E-08	0.00E+00	4.56E-08	7.18E-09	1.21E-08	0.00E+00	1.93E-08
3150	600412.3	4175872	8.41E-08	2.10E-07	0.00E+00	2.94E-07	8.41E-08	2.10E-07	0.00E+00	2.94E-07	1.37E-08	3.17E-08	0.00E+00	4.54E-08	7.14E-09	1.21E-08	0.00E+00	1.92E-08
3151	600416.2	4175880	8.3E-08	2.07E-07	0.00E+00	2.90E-07	8.30E-08	2.07E-07	0.00E+00	2.90E-07	1.35E-08	3.13E-08	0.00E+00	4.48E-08	7.05E-09	1.19E-08	0.00E+00	1.90E-08
3152	600420	4175889	8.16E-08	2.03E-07	0.00E+00	2.85E-07	8.16E-08	2.03E-07	0.00E+00	2.85E-07	1.33E-08	3.07E-08	0.00E+00	4.40E-08	6.93E-09	1.17E-08	0.00E+00	1.86E-08
3153	600423.8	4175898	8.08E-08	2.01E-07	0.00E+00	2.82E-07	8.08E-08	2.01E-07	0.00E+00	2.82E-07	1.32E-08	3.04E-08	0.00E+00	4.36E-08	6.86E-09	1.16E-08	0.00E+00	1.85E-08
3154	600427.6	4175907	8.02E-08	2.00E-07	0.00E+00	2.80E-07	8.02E-08	2.00E-07	0.00E+00	2.80E-07	1.30E-08	3.02E-08	0.00E+00	4.32E-08	6.81E-09	1.15E-08	0.00E+00	1.83E-08
3155	600431.4	4175915	7.97E-08	1.99E-07	0.00E+00	2.78E-07	7.97E-08	1.99E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.30E-08	6.77E-09	1.14E-08	0.00E+00	1.82E-08
3156	600435.3	4175924	7.95E-08	1.98E-07	0.00E+00	2.77E-07	7.95E-08	1.98E-07	0.00E+00	2.77E-07	1.29E-08	2.99E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
3157	600439.1	4175933	7.89E-08	1.97E-07	0.00E+00	2.76E-07	7.89E-08	1.97E-07	0.00E+00	2.76E-07	1.28E-08	2.97E-08	0.00E+00	4.26E-08	6.70E-09	1.13E-08	0.00E+00	1.80E-08
3158	600442.9	4175941	7.83E-08	1.95E-07	0.00E+00	2.73E-07	7.83E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.95E-08	0.00E+00	4.22E-08	6.65E-09	1.12E-08	0.00E+00	1.79E-08
3159	600446.7	4175950	7.78E-08	1.94E-07	0.00E+00	2.72E-07	7.78E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.93E-08	0.00E+00	4.20E-08	6.61E-09	1.12E-08	0.00E+00	1.78E-08
3160	600450.5	4175959	7.74E-08	1.93E-07	0.00E+00	2.70E-07	7.74E-08	1.93E-07	0.00E+00	2.70E-07	1.26E-08	2.92E-08	0.00E+00	4.18E-08	6.58E-09	1.11E-08	0.00E+00	1.77E-08
3161	600454.4	4175968	7.71E-08	1.92E-07	0.00E+00	2.69E-07	7.71E-08	1.92E-07	0.00E+00	2.69E-07	1.25E-08	2.90E-08	0.00E+00	4.16E-08	6.54E-09	1.11E-08	0.00E+00	1.76E-08
3162	600458.2	4175976	7.68E-08	1.91E-07	0.00E+00	2.68E-07	7.68E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.14E-08	6.52E-09	1.10E-08	0.00E+00	1.75E-08
3163	600462	4175985	7.62E-08	1.90E-07	0.00E+00	2.66E-07	7.62E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.11E-08	6.47E-09	1.09E-08	0.00E+00	1.74E-08
3164	600465.8	4175994	7.56E-08	1.88E-07	0.00E+00	2.64E-07	7.56E-08	1.88E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.42E-09	1.08E-08	0.00E+00	1.73E-08
3165	600469.6	4176003	7.49E-08	1.86E-07	0.00E+00	2.61E-07	7.49E-08	1.86E-07	0.00E+00	2.61E-07	1.22E-08	2.82E-08	0.00E+00	4.04E-08	6.36E-09	1.07E-08	0.00E+00	1.71E-08
3166	600473.5	4176011	7.41E-08	1.84E-07	0.00E+00	2.59E-07	7.41E-08	1.84E-07	0.00E+00	2.59E-07	1.21E-08	2.79E-08	0.00E+00	3.99E-08	6.29E-09	1.06E-08	0.00E+00	1.69E-08
3167	600477.3	4176020	7.32E-08	1.82E-07	0.00E+00	2.55E-07	7.32E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.76E-08	0.00E+00	3.95E-08	6.21E-09	1.05E-08	0.00E+00	1.67E-08
3168	600481.1	4176029	7.21E-08	1.80E-07	0.00E+00	2.52E-07	7.21E-08	1.80E-07	0.00E+00	2.52E-07	1.17E-08	2.71E-08	0.00E+00	3.89E-08	6.12E-09	1.03E-08	0.00E+00	1.65E-08
3169	600484.9	4176037	7.09E-08	1.77E-07	0.00E+00	2.48E-07	7.09E-08	1.77E-07	0.00E+00	2.48E-07	1.15E-08	2.67E-08	0.00E+00	3.83E-08	6.02E-09	1.02E-08	0.00E+00	1.62E-08
3170	600488.7	4176046	6.97E-08	1.74E-07	0.00E+00	2.43E-07	6.97E-08	1.74E-07	0.00E+00	2.43E-07	1.13E-08	2.63E-08	0.00E+00	3.76E-08	5.92E-09	1.00E-08	0.00E+00	1.59E-08
3171	600492.5	4176055	6.87E-08	1.71E-07	0.00E+00	2.40E-07	6.87E-08	1.71E-07	0.00E+00	2.40E-07	1.12E-08	2.58E-08	0.00E+00	3.70E-08	5.83E-09	9.85E-09	0.00E+00	1.57E-08
3172	599744.9	4175308	7.57E-08	1.88E-07	0.00E+00	2.64E-07	7.57E-08	1.88E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.42E-09	1.09E-08	0.00E+00	1.73E-08
3173	599735.4	4175308	7.86E-08	1.96E-07	0.00E+00	2.74E-07	7.86E-08	1.96E-07	0.00E+00	2.74E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
3174	599725.9	4175307	8.14E-08	2.03E-07	0.00E+00	2.84E-07	8.14E-08	2.03E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.39E-08	6.91E-09	1.17E-08	0.00E+00	1.86E-08
3175	599754.5	4175292	6.98E-08	1.74E-07	0.00E+00	2.44E-07	6.98E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.76E-08	5.93E-09	1.00E-08	0.00E+00	1.59E-08
3176	599763.1	4175296	6.93E-08	1.73E-07	0.00E+00	2.42E-07	6.93E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.61E-08	0.00E+00	3.74E-08	5.89E-09	9.95E-09	0.00E+00	1.58E-08
3177	599771.8	4175300	6.96E-08	1.73E-07	0.00E+00	2.43E-07	6.96E-08	1.73E-07	0.00E+00	2.43E-07	1.13E-08	2.62E-08	0.00E+00	3.75E-08	5.91E-09	9.99E-09	0.00E+00	1.59E-08
3178	599780.4	4175303	6.94E-08	1.73E-07	0.00E+00	2.42E-07	6.94E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.61E-08	0.00E+00	3.74E-08	5.89E-09	9.96E-09	0.00E+00	1.59E-08
3179	599789.1	4175307	7.04E-08	1.75E-07	0.00E+00	2.46E-07	7.04E-08	1.75E-07	0.00E+00	2.46E-07	1.15E-08	2.65E-08	0.00E+00	3.80E-08	5.98E-09	1.01E-08	0.00E+00	1.61E-08
3180	599797.7	4175311	7.26E-08	1.81E-07	0.00E+00	2.53E-07	7.26E-08	1.81E-07	0.00E+00	2.53E-07	1.18E-08	2.73E-08	0.00E+00	3.92E-08	6.17E-09	1.04E-08	0.00E+00	1.66E-08
3181	599806.3	4175315	7.52E-08	1.87E-07	0.00E+00	2.63E-07	7.52E-08	1.87E-07	0.00E+00	2.63E-07	1.22E-08	2.83E-08	0.00E+00	4.06E-08	6.39E-09	1.08E-08	0.00E+00	1.72E-08
3182	599815	4175319	7.89E-08	1.96E-07	0.00E+00	2.75E-07	7.89E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.97E-08	0.00E+00	4.25E-08	6.70E-09	1.13E-08	0.00E+00	1.80E-08
3183	599823.6	4175323	8.47E-08	2.11E-07	0.00E+00	2.96E-07	8.47E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.19E-08	0.00E+00	4.57E-08	7.19E-09	1.22E-08	0.00E+00	1.94E-08
3184	599832.2	4175326	9.08E-08	2.26E-07	0.00E+00	3.17E-07	9.08E-08	2.26E-07	0.00E+00	3.17E-07	1.48E-08	3.42E-08	0.00E+00	4.90E-08	7.71E-09	1.30E-08	0.00E+00	2.07E-08
3185	599840.9	4175330	9.76E-08	2.43E-07	0.00E+00	3.41E-07	9.76E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.26E-08	8.29E-09	1.40E-08	0.00E+00	2.23E-08
3186	599849.5	4175334	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.89E-08	0.00E+00	5.57E-08	8.77E-09	1.48E-08	0.00E+00	2.36E-08
3187	599858.2	4175338	1.08E-07	2.69E-07	0.00E+00	3.78E-07	1.08E-07	2.69E-07	0.00E+00	3.78E-07	1.76E-08	4.07E-08	0.00E+00	5.83E-08	9.18E-09	1.55E-08	0.00E+00	2.47E-08

3188	599866.8	4175342	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.83E-08	4.25E-08	0.00E+00	6.08E-08	9.57E-09	1.62E-08	0.00E+00	2.58E-08
3189	599875.4	4175346	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.30E-08	9.92E-09	1.68E-08	0.00E+00	2.67E-08
3190	599884.1	4175349	1.2E-07	2.99E-07	0.00E+00	4.18E-07	1.20E-07	2.99E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.46E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
3191	599892.7	4175353	1.23E-07	3.05E-07	0.00E+00	4.28E-07	1.23E-07	3.05E-07	0.00E+00	4.28E-07	1.99E-08	4.62E-08	0.00E+00	6.61E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
3192	599901.3	4175357	1.25E-07	3.12E-07	0.00E+00	4.37E-07	1.25E-07	3.12E-07	0.00E+00	4.37E-07	2.04E-08	4.71E-08	0.00E+00	6.75E-08	1.06E-08	1.80E-08	0.00E+00	2.86E-08
3193	599910	4175361	1.27E-07	3.16E-07	0.00E+00	4.43E-07	1.27E-07	3.16E-07	0.00E+00	4.43E-07	2.06E-08	4.78E-08	0.00E+00	6.84E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
3194	599918.6	4175365	1.28E-07	3.20E-07	0.00E+00	4.48E-07	1.28E-07	3.20E-07	0.00E+00	4.48E-07	2.09E-08	4.83E-08	0.00E+00	6.92E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
3195	599927.3	4175369	1.3E-07	3.23E-07	0.00E+00	4.53E-07	1.30E-07	3.23E-07	0.00E+00	4.53E-07	2.11E-08	4.89E-08	0.00E+00	7.00E-08	1.10E-08	1.86E-08	0.00E+00	2.97E-08
3196	599935.9	4175372	1.3E-07	3.25E-07	0.00E+00	4.55E-07	1.30E-07	3.25E-07	0.00E+00	4.55E-07	2.12E-08	4.91E-08	0.00E+00	7.03E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
3197	599944.5	4175376	1.28E-07	3.17E-07	0.00E+00	4.45E-07	1.28E-07	3.17E-07	0.00E+00	4.45E-07	2.07E-08	4.80E-08	0.00E+00	6.87E-08	1.08E-08	1.83E-08	0.00E+00	2.91E-08
3198	599953.2	4175380	1.24E-07	3.09E-07	0.00E+00	4.34E-07	1.24E-07	3.09E-07	0.00E+00	4.34E-07	2.02E-08	4.68E-08	0.00E+00	6.70E-08	1.05E-08	1.78E-08	0.00E+00	2.84E-08
3199	599961.8	4175384	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
3200	599970.5	4175388	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
3201	599979.1	4175392	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.06E-09	1.53E-08	0.00E+00	2.44E-08
3202	599987.7	4175396	9.89E-08	2.46E-07	0.00E+00	3.45E-07	9.89E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.40E-09	1.42E-08	0.00E+00	2.26E-08
3203	599996.4	4175399	9.27E-08	2.31E-07	0.00E+00	3.24E-07	9.27E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.49E-08	0.00E+00	5.00E-08	7.87E-09	1.33E-08	0.00E+00	2.12E-08
3204	600005	4175403	8.98E-08	2.24E-07	0.00E+00	3.13E-07	8.98E-08	2.24E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.62E-09	1.29E-08	0.00E+00	2.05E-08
3205	600013.6	4175407	8.6E-08	2.14E-07	0.00E+00	3.00E-07	8.60E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.24E-08	0.00E+00	4.64E-08	7.30E-09	1.23E-08	0.00E+00	1.96E-08
3206	600022.3	4175411	8.15E-08	2.03E-07	0.00E+00	2.84E-07	8.15E-08	2.03E-07	0.00E+00	2.84E-07	1.33E-08	3.07E-08	0.00E+00	4.39E-08	6.92E-09	1.17E-08	0.00E+00	1.86E-08
3207	600030.9	4175415	7.91E-08	1.97E-07	0.00E+00	2.76E-07	7.91E-08	1.97E-07	0.00E+00	2.76E-07	1.29E-08	2.98E-08	0.00E+00	4.26E-08	6.72E-09	1.13E-08	0.00E+00	1.81E-08
3208	600039.6	4175419	7.78E-08	1.94E-07	0.00E+00	2.72E-07	7.78E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.93E-08	0.00E+00	4.20E-08	6.61E-09	1.12E-08	0.00E+00	1.78E-08
3209	600048.2	4175422	7.61E-08	1.89E-07	0.00E+00	2.66E-07	7.61E-08	1.89E-07	0.00E+00	2.66E-07	1.24E-08	2.86E-08	0.00E+00	4.10E-08	6.46E-09	1.09E-08	0.00E+00	1.74E-08
3210	600056.8	4175426	7.49E-08	1.86E-07	0.00E+00	2.61E-07	7.49E-08	1.86E-07	0.00E+00	2.61E-07	1.22E-08	2.82E-08	0.00E+00	4.04E-08	6.36E-09	1.07E-08	0.00E+00	1.71E-08
3211	600065.5	4175430	7.56E-08	1.88E-07	0.00E+00	2.64E-07	7.56E-08	1.88E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.42E-09	1.09E-08	0.00E+00	1.73E-08
3212	600074.1	4175434	7.62E-08	1.90E-07	0.00E+00	2.66E-07	7.62E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.11E-08	6.47E-09	1.09E-08	0.00E+00	1.74E-08
3213	600082.7	4175438	7.67E-08	1.91E-07	0.00E+00	2.68E-07	7.67E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.13E-08	6.51E-09	1.10E-08	0.00E+00	1.75E-08
3214	600091.4	4175442	7.97E-08	1.98E-07	0.00E+00	2.78E-07	7.97E-08	1.98E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.30E-08	6.77E-09	1.14E-08	0.00E+00	1.82E-08
3215	600100	4175445	8.25E-08	2.05E-07	0.00E+00	2.88E-07	8.25E-08	2.05E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.01E-09	1.18E-08	0.00E+00	1.88E-08
3216	600108.7	4175449	8.48E-08	2.11E-07	0.00E+00	2.96E-07	8.48E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.19E-08	0.00E+00	4.57E-08	7.20E-09	1.22E-08	0.00E+00	1.94E-08
3217	600117.3	4175453	8.69E-08	2.16E-07	0.00E+00	3.03E-07	8.69E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.69E-08	7.38E-09	1.25E-08	0.00E+00	1.99E-08
3218	600125.9	4175457	8.93E-08	2.22E-07	0.00E+00	3.12E-07	8.93E-08	2.22E-07	0.00E+00	3.12E-07	1.45E-08	3.36E-08	0.00E+00	4.81E-08	7.58E-09	1.28E-08	0.00E+00	2.04E-08
3219	600134.6	4175461	9.1E-08	2.27E-07	0.00E+00	3.18E-07	9.10E-08	2.27E-07	0.00E+00	3.18E-07	1.48E-08	3.43E-08	0.00E+00	4.91E-08	7.73E-09	1.31E-08	0.00E+00	2.08E-08
3220	600143.2	4175465	9.21E-08	2.29E-07	0.00E+00	3.21E-07	9.21E-08	2.29E-07	0.00E+00	3.21E-07	1.50E-08	3.47E-08	0.00E+00	4.96E-08	7.82E-09	1.32E-08	0.00E+00	2.10E-08
3221	600319.3	4175613	9.78E-08	2.43E-07	0.00E+00	3.41E-07	9.78E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.30E-09	1.40E-08	0.00E+00	2.23E-08
3222	600323.1	4175621	9.94E-08	2.48E-07	0.00E+00	3.47E-07	9.94E-08	2.48E-07	0.00E+00	3.47E-07	1.62E-08	3.74E-08	0.00E+00	5.36E-08	8.44E-09	1.43E-08	0.00E+00	2.27E-08
3223	600326.9	4175630	9.98E-08	2.49E-07	0.00E+00	3.48E-07	9.98E-08	2.49E-07	0.00E+00	3.48E-07	1.62E-08	3.76E-08	0.00E+00	5.38E-08	8.48E-09	1.43E-08	0.00E+00	2.28E-08
3224	600330.7	4175639	9.93E-08	2.47E-07	0.00E+00	3.47E-07	9.93E-08	2.47E-07	0.00E+00	3.47E-07	1.62E-08	3.74E-08	0.00E+00	5.35E-08	8.43E-09	1.43E-08	0.00E+00	2.27E-08
3225	600334.5	4175647	9.86E-08	2.46E-07	0.00E+00	3.44E-07	9.86E-08	2.46E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.32E-08	8.37E-09	1.42E-08	0.00E+00	2.25E-08
3226	600338.2	4175656	9.77E-08	2.43E-07	0.00E+00	3.41E-07	9.77E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.29E-09	1.40E-08	0.00E+00	2.23E-08
3227	600342	4175665	9.66E-08	2.41E-07	0.00E+00	3.37E-07	9.66E-08	2.41E-07	0.00E+00	3.37E-07	1.57E-08	3.64E-08	0.00E+00	5.21E-08	8.20E-09	1.39E-08	0.00E+00	2.21E-08
3228	600345.8	4175673	9.53E-08	2.37E-07	0.00E+00	3.33E-07	9.53E-08	2.37E-07	0.00E+00	3.33E-07	1.55E-08	3.59E-08	0.00E+00	5.14E-08	8.09E-09	1.37E-08	0.00E+00	2.18E-08
3229	600349.6	4175682	9.49E-08	2.36E-07	0.00E+00	3.31E-07	9.49E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.12E-08	8.06E-09	1.36E-08	0.00E+00	2.17E-08
3230	600353.4	4175690	9.47E-08	2.36E-07	0.00E+00	3.30E-07	9.47E-08	2.36E-07	0.00E+00	3.30E-07	1.54E-08	3.57E-08	0.00E+00	5.11E-08	8.04E-09	1.36E-08	0.00E+00	2.16E-08
3231	600357.2	4175699	9.49E-08	2.36E-07	0.00E+00	3.31E-07	9.49E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.12E-08	8.06E-09	1.36E-08	0.00E+00	2.17E-08
3232	600361	4175708	9.57E-08	2.38E-07	0.00E+00	3.34E-07	9.57E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.16E-08	8.13E-09	1.37E-08	0.00E+00	2.19E-08
3233	600364.8	4175716	9.73E-08	2.42E-07	0.00E+00	3.40E-07	9.73E-08	2.42E-07	0.00E+00	3.40E-07	1.58E-08	3.67E-08	0.00E+00	5.25E-08	8.27E-09	1.40E-08	0.00E+00	2.22E-08
3234	600368.6	4175725	1E-07	2.49E-07	0.00E+00	3.50E-07	1.00E-07	2.49E-07	0.00E+00	3.50E-07	1.63E-08	3.77E-08	0.00E+00	5.40E-08	8.50E-09	1.44E-08	0.00E+00	2.29E-08
3235	600372.3	4175734	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.72E-09	1.47E-08	0.00E+00	2.35E-08
3236	600376.1	4175742	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.70E-08	3.94E-08	0.00E+00	5.65E-08	8.89E-09	1.50E-08	0.00E+00	2.39E-08
3237	600379.9	4175751	1.05E-07	2.63E-07	0.00E+00	3.68E-07	1.05E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.96E-09	1.51E-08	0.00E+00	2.41E-08
3238	600383.7	4175760	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.72E-08	3.98E-08	0.00E+00	5.70E-08	8.97E-09	1.52E-08	0.00E+00	2.41E-08
3239	600387.5	4175768	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.66E-08	8.91E-09	1.51E-08	0.00E+00	2.40E-08
3240	600391.3	4175777	1.04E-07	2.59E-07	0.00E+00	3.62E-07	1.04E-07	2.59E-07	0.00E+00	3.62E-07	1.69E-08	3.91E-08	0.00E+00	5.60E-08	8.82E-09	1.49E-08	0.00E+00	2.37E-08
3241	600395.1	4175786	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.65E-09	1.46E-08	0.00E+00	2.33E-08
3242	600398.9	4175794	9.97E-08	2.48E-07	0.00E+00	3.48E-07	9.97E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.38E-08	8.47E-09	1.43E-08	0.00E+00	2.28E-08
3243	600402.7	4175803	9.72E-08	2.42E-07	0.00E+00	3.39E-07	9.72E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.66E-08	0.00E+00	5.24E-08	8.26E-09	1.40E-08	0.00E+00	2.22E-08
3244	600406.5	4175812	9.44E-08	2.35E-07	0.00E+00	3.29E-07	9.44E-08	2.35E-07	0.00E+00	3.29E-07	1.54E-08	3.55E-08	0.00E+00	5.09E-08	8.02E-09	1.35E-08	0.00E+00	2.16E-08
3245	600410.2	4175820	9.13E-08	2.27E-07	0.00E+00	3.19E-07	9.13E-08	2.27E-07	0.00E+00	3.19E-07	1.49E-08	3.44E-08	0.00E+00	4.92E-08	7.75E-09	1.31E-08	0.00E+00	2.09E-08
3246	600414	4175829	8.82E-08	2.20E-07	0.00E+00	3.08E-07	8.82E-08	2.20E-07	0.00E+00	3.08E-07	1.43E-08	3.32E-08	0.00E+00	4.75E-08	7.49E-09	1.27E-08	0.00E+00	2.01E-08
3247	600417.8	4175838	8.59E-08	2.14E-07	0.00E+00	3.00E-07	8.59E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.24E-08	0.00E+00	4.63E-08	7.30E-09	1.23E-08	0.00E+00	1.96E-08
3248	600421.6	4175846	8.45E-08	2.10E-07	0.00E+00	2.95E-07	8.45E-08	2.10E-07	0.00E+00	2.95E-07	1.37E-08	3.18E-08	0.00E+00	4.55E-08	7.17E-09	1.21E-08	0.00E+00	1.93E-08
3249	600425.4	4175855	8.31E-08	2.07E-07	0.00E+00	2.90E-07	8.31E-08	2.07E-07	0.00E+00	2.90E-07	1.35E-08	3.13E-08	0.00E+00	4.48E-08	7.06E-09	1.19E-08	0.00E+00	1.90E-08
3250	600429.2	4175864	8.19E-08	2.04E-07	0.00E+00	2.86E-07	8.19E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.95E-09	1.17E-08	0.00E+00	1.87E-08
3251	600433	4175872	8.11E-08	2.02E-07	0.00E+00	2.83E-07	8.11E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.89E-09	1.16E-08	0.00E+00	1.85E-08
3252	600436.8	4175881	8.05E-08	2.00E-07	0.00E+00	2.81E-07	8.05E-08	2.00E-07	0.00E+00	2.81E-07	1.31E-08	3.03E-08	0.00E+00	4.34E-08	6.83E-09	1.15E-08	0.00E+00	1.84E-08
3253	600440.6	4175890	8E-08	1.99E-07	0.00E+00	2.79E-07	8.00E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.31E-08	6.79E-09	1.15E-08	0.00E+00	1.83E-08
3254	600444.3	4175898	7.96E-08	1.98E-07	0.00E+00	2.78E-07	7.96E-08	1.98E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.29E-08	6.76E-09	1.14E-08	0.00E+00	1.82E-08
3255	600448.1	4175907	7.96E-08	1.98E-07	0.00E+00	2.78E-07	7.96E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	3.00E-08	0.00E+00	4.29E-08	6.76E-09	1.14E-08	0.00E+00	1.82E-08
3256	600451.9	4175916	7.97E-08	1.98E-07	0.00E+00	2.78E-07	7.97E-08	1.98E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.30E-08	6.77E-09	1.14E-08	0.00E+00	1.82E-08
3257	600455.7	4175924	7.96E-08	1.98E-07	0.00E+00	2.78E-07	7.96E-08	1.98E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.29E-08	6.76E-09	1.14E-08	0.00E+00	1.82E-08
3258	600459.5	4175933	7.93E-08	1.98E-07	0.00E+00	2.77E-07	7.93E-08	1.98E-07	0.00E+00	2.77E-07	1.29E-08	2.99E-08	0.00E+00	4.28E-08	6.73E-09	1.14E-08	0.00E+00	1.81E-08
3259	600463.3	4175942	7.9E-08	1.97E-07	0.00E+00	2.76E-07	7.90E-08	1.97E-07	0.00E+00	2.76E-07	1.28E-08	2.97E-08	0.00E+00	4.26E-08	6.70E-09	1.13E-08	0.00E+00	1.80E-08
3260	600467.1	4175950	7.86E-08	1.96E-07	0.00E+00	2.74E-07	7.86E-08	1.96E-07	0.00E+00	2.74E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
3261	600470.9	4175959	7.83E-08	1.95E-07	0.00E+00	2.73E-07	7.83E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.95E-08	0.00E+00	4.22E-08	6.65E-09	1.12E-08	0.00E+00	1.79E-08
3262	600474.7	4175968	7.8E-08	1.94E-07	0.00E+00	2.72E-07	7.80E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.94E-08	0.00E+00	4.20E-08	6.62E-09	1.12E-08	0.00E+00	1.78E-08
3263	600478.5	4175976	7.77E-08	1.93E-07	0.00E+00	2.71E-07	7.77E-08	1.93E-07	0.00E+00	2.71E-07	1.26E-08	2.93E-08	0.00E+00	4.19E-08	6.60E-09	1.11E-08	0.00E+00	1.77E-08
3264	600482.2	4175985	7.73E-08	1.92E-07	0.00E+00	2.70E-07	7.73E-08	1.92E-07	0.00E+00	2.70E-07	1.26E-08	2.91E-08	0.00E+00	4.17E-08	6.56E-09	1.11E-08	0.00E+00	1.77E-08
3265	600486	4175994	7.68E-08	1.91E-07	0.00E+00	2.68E-07	7.68E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.14E-08	6.52E-09	1.10E-08	0.00E+00	1.75E-08
3266	600489.8	4176002	7.6E-08	1.89E-07	0.00E+00	2.65E-07	7.60E-08	1.89E-07	0.00E+00	2.65E-07	1.24E-08	2.86E-08	0.00E+00	4.10E-08	6.46E-09	1.09E-08	0.00E+00	1.74E-08
3267	600493.6	4176011	7.51E-08	1.87E-07	0.00E+00	2.62E-07	7.51E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.83E-08	0.00E+00	4.05E-08	6.38E-09	1.08E-08	0.00E+00	1.72E-08
3268	600497.4	4176020	7.41E-08	1.84E-07	0.00E+00	2.58E-07	7.41E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.79E-08	0.00E+00	3.99E-08	6.29E-09	1.06E-08	0.00E+00	1.69E-08
3269	600501.2	4176028	7.28E-08	1.81E-07	0.00E+00	2.54E-07	7.28E-08	1.81E-07	0.00E+00	2.54E-07	1.19E-08	2.74E-08	0.00E+00	3.93E-08	6.19E-09	1.05E-08	0.00E+00	1.66E-08
3270	600505	4176037	7.16E-08	1.78E-07	0.00E+00	2.50E-07	7.16E-08	1.78E-07	0.00E+00	2.50E-07	1.16E-08	2.70E-08	0.00E+00	3.86E-08	6.08E-09	1.03E-08	0.00E+00	1.64E-08
3271	600508.8	4176045	7.04E-08	1.75E-07	0.00E+00	2.46E-07	7.04E-08	1.75E-07	0.00E+00	2.46E-07	1.14E-08	2.65E-08	0.00E+00	3.79E-08	5.98E-09	1.01E-08	0.00E+00	1.61E-08
3272	600512.6	4176054	6.93E-08	1.73E-07	0.00E+00	2.42E-07	6.93E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.61E-08	0.00E+00	3.74E-08	5.88E-09	9.94E-09	0.00E+00	1.58E-08
3273	599745.9	4175288	7.07E-08	1.76E-07	0.00E+00	2.47E-07	7.07E-08	1.76E-07	0.00E+00	2.47E-07	1.15E-08	2.66E-08	0.00E+00	3.81E-08	6.00E-09	1.01E-08	0.00E+00	1.61E-08
3274	599736.3	4175288	7.12E-08	1.77E-07	0.00E+00	2.49E-07	7.12E-08	1.77E-07	0.00E+00	2.49E-07	1.16E-08	2.68E-08	0.00E+00	3.84E-08	6.05E-09	1.02E-08	0.00E+00	1.63E-08
3275	599726.8	4175287	7.15E-08	1.78E-07	0.00E+00	2.50E-07	7.15E-08	1.78E-07	0.00E+00	2.50E-07	1.16E-08	2.69E-08	0.00E+00	3.86E-08	6.07E-09	1.03E-08	0.00E+00	1.63E-08
3276	599717.3	4175287	7.56E-08	1.88E-07	0.00E+00	2.64E-07	7.56E-08	1.88E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.42E-09	1.09E-08	0.00E+00	1.73E-08
3277	599707.8	4175286	7.91E-08	1.97E-07	0.00E+00	2.76E-07	7.91E-08	1.97E-07	0.00E+00	2.76E-07	1.29E-08	2.98E-08	0.00E+00	4.26E-08	6.72E-09	1.13E-08	0.00E+00	1.81E-08
3278	599755.5	4175272	7.21E-08	1.79E-07	0.00E+00	2.51E-07	7.21E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.71E-08	0.00E+00	3.89E-08	6.12E-09	1.03E-08	0.00E+00	1.65E-08
3279	599764.3	4175276	7.28E-08	1.81E-07	0.00E+00	2.54E-07	7.28E-08	1.81E-07	0.00E+00	2.54E-07	1.18E-08	2.74E-08	0.00E+00	3.92E-08	6.18E-09	1.04E-08	0.00E+00	1.66E-08
3280	599773	4175280	7.28E-08	1.81E-07	0.00E+00	2.54E-07	7.28E-08	1.81E-07	0.00E+00	2.54E-07	1.19E-08	2.74E-08	0.00E+00	3.93E-08	6.19E-09	1.05E-08	0.00E+00	1.66E-08
3281	599781.7	4175284	7.23E-08	1.80E-07	0.00E+00	2.52E-07	7.23E-08	1.80E-07	0.00E+00	2.52E-07	1.18E-08	2.72E-08	0.00E+00	3.90E-08	6.14E-09	1.04E-08	0.00E+00	1.65E-08
3282	599790.4	4175287	7.21E-08	1.80E-07	0.00E+00	2.52E-07	7.21E-08	1.80E-07	0.00E+00	2.52E-07	1.17E-08	2.72E-08	0.00E+00	3.89E-08	6.12E-09	1.03E-08	0.00E+00	1.65E-08
3283	599799.1	4175291	7.2E-08	1.79E-07	0.00E+00	2.51E-07	7.20E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.71E-08	0.00E+00	3.88E-08	6.11E-09	1.03E-08	0.00E+00	1.64E-08
3284	599807.8	4175295	7.17E-08	1.79E-07	0.00E+00	2.50E-07	7.17E-08	1.79E-07	0.00E+00	2.50E-07	1.17E-08	2.70E-08	0.00E+00	3.87E-08	6.09E-09	1.03E-08	0.00E+00	1.64E-08
3285	599816.5	4175299	7.43E-08	1.85E-07	0.00E+00	2.59E-07	7.43E-08	1.85E-07	0.00E+00	2.59E-07	1.21E-08	2.80E-08	0.00E+00	4.01E-08	6.31E-09	1.07E-08	0.00E+00	1.70E-08
3286	599825.2	4175303	7.99E-08	1.99E-07	0.00E+00	2.79E-07	7.99E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.31E-08	6.79E-09	1.15E-08	0.00E+00	1.83E-08
3287	599833.9	4175307	8.59E-08	2.14E-07	0.00E+00	3.00E-07	8.59E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.23E-08	0.00E+00	4.63E-08	7.29E-09	1.23E-08	0.00E+00	1.96E-08
3288	599842.6	4175311	9.29E-08	2.31E-07	0.00E+00	3.24E-07	9.29E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.50E-08	0.00E+00	5.01E-08	7.88E-09	1.33E-08	0.00E+00	2.12E-08
3289	599851.4	4175315	9.81E-08	2.44E-07	0.00E+00	3.42E-07	9.81E-08	2.44E-07	0.00E+00	3.42E-07	1.60E-08	3.69E-08	0.00E+00	5.29E-08	8.33E-09	1.41E-08	0.00E+00	2.24E-08
3290	599860.1	4175318	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.67E-08	3.87E-08	0.00E+00	5.55E-08	8.74E-09	1.48E-08	0.00E+00	2.35E-08
3291	599868.8	4175322	1.07E-07	2.67E-07	0.00E+00	3.75E-07	1.07E-07	2.67E-07	0.00E+00	3.75E-07	1.75E-08	4.04E-08	0.00E+00	5.79E-08	9.12E-09	1.54E-08	0.00E+00	2.45E-08
3292	599877.5	4175326	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.81E-08	4.20E-08	0.00E+00	6.01E-08	9.47E-09	1.60E-08	0.00E+00	2.55E-08
3293	599886.2	4175330	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.34E-08	0.00E+00	6.21E-08	9.78E-09	1.65E-08	0.00E+00	2.63E-08
3294	599894.9	4175334	1.18E-07	2.94E-07	0.00E+00	4.13E-07	1.18E-07	2.94E-07	0.00E+00	4.13E-07	1.92E-08	4.45E-08	0.00E+00	6.38E-08	1.00E-08	1.70E-08	0.00E+00	2.70E-08
3295	599903.6	4175338	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.97E-08	4.56E-08	0.00E+00	6.53E-08	1.03E-08	1.74E-08	0.00E+00	2.76E-08
3296	599912.3	4175342	1.23E-07	3.07E-07	0.00E+00	4.30E-07	1.23E-07	3.07E-07	0.00E+00	4.30E-07	2.00E-08	4.64E-08	0.00E+00	6.64E-08	1.05E-08	1.77E-08	0.00E+00	2.81E-08
3297	599921	4175345	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.71E-08	0.00E+00	6.74E-08	1.06E-08	1.79E-08	0.00E+00	2.86E-08

3298	599929.7	4175349	1.27E-07	3.16E-07	0.00E+00	4.42E-07	1.27E-07	3.16E-07	0.00E+00	4.42E-07	2.06E-08	4.77E-08	0.00E+00	6.83E-08	1.08E-08	1.82E-08	0.00E+00	2.89E-08
3299	599938.5	4175353	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.05E-08	4.73E-08	0.00E+00	6.78E-08	1.07E-08	1.80E-08	0.00E+00	2.87E-08
3300	599947.2	4175357	1.23E-07	3.05E-07	0.00E+00	4.28E-07	1.23E-07	3.05E-07	0.00E+00	4.28E-07	1.99E-08	4.61E-08	0.00E+00	6.61E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
3301	599955.9	4175361	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.49E-08	0.00E+00	6.43E-08	1.01E-08	1.71E-08	0.00E+00	2.73E-08
3302	599964.6	4175365	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.23E-08	9.81E-09	1.66E-08	0.00E+00	2.64E-08
3303	599973.3	4175369	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.89E-08	9.28E-09	1.57E-08	0.00E+00	2.50E-08
3304	599982	4175373	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.65E-09	1.46E-08	0.00E+00	2.33E-08
3305	599990.7	4175376	9.37E-08	2.33E-07	0.00E+00	3.27E-07	9.37E-08	2.33E-07	0.00E+00	3.27E-07	1.52E-08	3.53E-08	0.00E+00	5.05E-08	7.96E-09	1.34E-08	0.00E+00	2.14E-08
3306	599999.4	4175380	8.93E-08	2.22E-07	0.00E+00	3.12E-07	8.93E-08	2.22E-07	0.00E+00	3.12E-07	1.45E-08	3.36E-08	0.00E+00	4.81E-08	7.58E-09	1.28E-08	0.00E+00	2.04E-08
3307	600008.1	4175384	8.7E-08	2.17E-07	0.00E+00	3.04E-07	8.70E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.69E-08	7.39E-09	1.25E-08	0.00E+00	1.99E-08
3308	600016.9	4175388	8.5E-08	2.12E-07	0.00E+00	2.97E-07	8.50E-08	2.12E-07	0.00E+00	2.97E-07	1.38E-08	3.20E-08	0.00E+00	4.58E-08	7.22E-09	1.22E-08	0.00E+00	1.94E-08
3309	600025.6	4175392	8.29E-08	2.07E-07	0.00E+00	2.89E-07	8.29E-08	2.07E-07	0.00E+00	2.89E-07	1.35E-08	3.12E-08	0.00E+00	4.47E-08	7.04E-09	1.19E-08	0.00E+00	1.89E-08
3310	600034.3	4175396	8.19E-08	2.04E-07	0.00E+00	2.86E-07	8.19E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.42E-08	6.96E-09	1.18E-08	0.00E+00	1.87E-08
3311	600043	4175400	8.04E-08	2.00E-07	0.00E+00	2.81E-07	8.04E-08	2.00E-07	0.00E+00	2.81E-07	1.31E-08	3.03E-08	0.00E+00	4.34E-08	6.83E-09	1.15E-08	0.00E+00	1.84E-08
3312	600051.7	4175404	7.87E-08	1.96E-07	0.00E+00	2.75E-07	7.87E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
3313	600060.4	4175407	7.94E-08	1.98E-07	0.00E+00	2.77E-07	7.94E-08	1.98E-07	0.00E+00	2.77E-07	1.29E-08	2.99E-08	0.00E+00	4.28E-08	6.74E-09	1.14E-08	0.00E+00	1.81E-08
3314	600069.1	4175411	8.02E-08	2.00E-07	0.00E+00	2.80E-07	8.02E-08	2.00E-07	0.00E+00	2.80E-07	1.31E-08	3.02E-08	0.00E+00	4.33E-08	6.81E-09	1.15E-08	0.00E+00	1.83E-08
3315	600077.8	4175415	8.04E-08	2.00E-07	0.00E+00	2.81E-07	8.04E-08	2.00E-07	0.00E+00	2.81E-07	1.31E-08	3.03E-08	0.00E+00	4.33E-08	6.83E-09	1.15E-08	0.00E+00	1.84E-08
3316	600086.5	4175419	8.26E-08	2.06E-07	0.00E+00	2.88E-07	8.26E-08	2.06E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.01E-09	1.18E-08	0.00E+00	1.89E-08
3317	600095.2	4175423	8.77E-08	2.18E-07	0.00E+00	3.06E-07	8.77E-08	2.18E-07	0.00E+00	3.06E-07	1.43E-08	3.30E-08	0.00E+00	4.73E-08	7.45E-09	1.26E-08	0.00E+00	2.00E-08
3318	600104	4175427	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.32E-08	0.00E+00	2.11E-08
3319	600112.7	4175431	9.63E-08	2.40E-07	0.00E+00	3.36E-07	9.63E-08	2.40E-07	0.00E+00	3.36E-07	1.57E-08	3.62E-08	0.00E+00	5.19E-08	8.17E-09	1.38E-08	0.00E+00	2.20E-08
3320	600121.4	4175434	9.98E-08	2.49E-07	0.00E+00	3.48E-07	9.98E-08	2.49E-07	0.00E+00	3.48E-07	1.62E-08	3.76E-08	0.00E+00	5.38E-08	8.47E-09	1.43E-08	0.00E+00	2.28E-08
3321	600130.1	4175438	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.68E-08	3.90E-08	0.00E+00	5.58E-08	8.79E-09	1.49E-08	0.00E+00	2.37E-08
3322	600138.8	4175442	1.07E-07	2.67E-07	0.00E+00	3.75E-07	1.07E-07	2.67E-07	0.00E+00	3.75E-07	1.75E-08	4.04E-08	0.00E+00	5.79E-08	9.12E-09	1.54E-08	0.00E+00	2.45E-08
3323	600147.5	4175446	1.1E-07	2.73E-07	0.00E+00	3.82E-07	1.10E-07	2.73E-07	0.00E+00	3.82E-07	1.78E-08	4.12E-08	0.00E+00	5.90E-08	9.30E-09	1.57E-08	0.00E+00	2.50E-08
3324	600156.2	4175450	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.20E-09	1.55E-08	0.00E+00	2.47E-08
3325	600164.9	4175454	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.06E-08	0.00E+00	5.81E-08	9.15E-09	1.55E-08	0.00E+00	2.46E-08
3326	600349.1	4175634	9.97E-08	2.48E-07	0.00E+00	3.48E-07	9.97E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.38E-08	8.47E-09	1.43E-08	0.00E+00	2.28E-08
3327	600352.9	4175643	9.85E-08	2.45E-07	0.00E+00	3.44E-07	9.85E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.37E-09	1.41E-08	0.00E+00	2.25E-08
3328	600356.7	4175652	9.78E-08	2.43E-07	0.00E+00	3.41E-07	9.78E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.30E-09	1.40E-08	0.00E+00	2.23E-08
3329	600360.5	4175660	9.7E-08	2.42E-07	0.00E+00	3.38E-07	9.70E-08	2.42E-07	0.00E+00	3.38E-07	1.58E-08	3.65E-08	0.00E+00	5.23E-08	8.24E-09	1.39E-08	0.00E+00	2.22E-08
3330	600364.4	4175669	9.67E-08	2.41E-07	0.00E+00	3.38E-07	9.67E-08	2.41E-07	0.00E+00	3.38E-07	1.57E-08	3.64E-08	0.00E+00	5.22E-08	8.21E-09	1.39E-08	0.00E+00	2.21E-08
3331	600368.2	4175678	9.69E-08	2.41E-07	0.00E+00	3.38E-07	9.69E-08	2.41E-07	0.00E+00	3.38E-07	1.58E-08	3.65E-08	0.00E+00	5.23E-08	8.23E-09	1.39E-08	0.00E+00	2.21E-08
3332	600372	4175686	9.76E-08	2.43E-07	0.00E+00	3.41E-07	9.76E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.67E-08	0.00E+00	5.26E-08	8.29E-09	1.40E-08	0.00E+00	2.23E-08
3333	600375.8	4175695	9.96E-08	2.48E-07	0.00E+00	3.48E-07	9.96E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.37E-08	8.46E-09	1.43E-08	0.00E+00	2.28E-08
3334	600379.7	4175704	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.65E-08	3.83E-08	0.00E+00	5.48E-08	8.63E-09	1.46E-08	0.00E+00	2.32E-08
3335	600383.5	4175713	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.91E-08	0.00E+00	5.60E-08	8.82E-09	1.49E-08	0.00E+00	2.37E-08
3336	600387.3	4175721	1.05E-07	2.63E-07	0.00E+00	3.68E-07	1.05E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.95E-09	1.51E-08	0.00E+00	2.41E-08
3337	600391.1	4175730	1.07E-07	2.65E-07	0.00E+00	3.72E-07	1.07E-07	2.65E-07	0.00E+00	3.72E-07	1.73E-08	4.01E-08	0.00E+00	5.74E-08	9.04E-09	1.53E-08	0.00E+00	2.43E-08
3338	600394.9	4175739	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.03E-08	0.00E+00	5.77E-08	9.09E-09	1.54E-08	0.00E+00	2.44E-08
3339	600398.8	4175748	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.08E-09	1.53E-08	0.00E+00	2.44E-08
3340	600402.6	4175756	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.72E-08	3.98E-08	0.00E+00	5.70E-08	8.98E-09	1.52E-08	0.00E+00	2.41E-08
3341	600406.4	4175765	1.04E-07	2.59E-07	0.00E+00	3.64E-07	1.04E-07	2.59E-07	0.00E+00	3.64E-07	1.69E-08	3.92E-08	0.00E+00	5.62E-08	8.85E-09	1.50E-08	0.00E+00	2.38E-08
3342	600410.2	4175774	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.52E-08	8.69E-09	1.47E-08	0.00E+00	2.34E-08
3343	600414	4175783	9.95E-08	2.48E-07	0.00E+00	3.47E-07	9.95E-08	2.48E-07	0.00E+00	3.47E-07	1.62E-08	3.75E-08	0.00E+00	5.37E-08	8.45E-09	1.43E-08	0.00E+00	2.27E-08
3344	600417.9	4175791	9.59E-08	2.39E-07	0.00E+00	3.35E-07	9.59E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.61E-08	0.00E+00	5.17E-08	8.14E-09	1.38E-08	0.00E+00	2.19E-08
3345	600421.7	4175800	9.26E-08	2.31E-07	0.00E+00	3.23E-07	9.26E-08	2.31E-07	0.00E+00	3.23E-07	1.51E-08	3.49E-08	0.00E+00	4.99E-08	7.86E-09	1.33E-08	0.00E+00	2.12E-08
3346	600425.5	4175809	8.97E-08	2.23E-07	0.00E+00	3.13E-07	8.97E-08	2.23E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.62E-09	1.29E-08	0.00E+00	2.05E-08
3347	600429.3	4175817	8.72E-08	2.17E-07	0.00E+00	3.04E-07	8.72E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.70E-08	7.40E-09	1.25E-08	0.00E+00	1.99E-08
3348	600433.2	4175826	8.52E-08	2.12E-07	0.00E+00	2.97E-07	8.52E-08	2.12E-07	0.00E+00	2.97E-07	1.39E-08	3.21E-08	0.00E+00	4.60E-08	7.24E-09	1.22E-08	0.00E+00	1.95E-08
3349	600437	4175835	8.36E-08	2.08E-07	0.00E+00	2.92E-07	8.36E-08	2.08E-07	0.00E+00	2.92E-07	1.36E-08	3.15E-08	0.00E+00	4.51E-08	7.10E-09	1.20E-08	0.00E+00	1.91E-08
3350	600440.8	4175844	8.24E-08	2.05E-07	0.00E+00	2.88E-07	8.24E-08	2.05E-07	0.00E+00	2.88E-07	1.34E-08	3.10E-08	0.00E+00	4.44E-08	7.00E-09	1.18E-08	0.00E+00	1.88E-08
3351	600444.6	4175852	8.16E-08	2.03E-07	0.00E+00	2.85E-07	8.16E-08	2.03E-07	0.00E+00	2.85E-07	1.33E-08	3.07E-08	0.00E+00	4.40E-08	6.92E-09	1.17E-08	0.00E+00	1.86E-08
3352	600448.4	4175861	8.11E-08	2.02E-07	0.00E+00	2.83E-07	8.11E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.89E-09	1.16E-08	0.00E+00	1.85E-08
3353	600452.3	4175870	8.08E-08	2.01E-07	0.00E+00	2.82E-07	8.08E-08	2.01E-07	0.00E+00	2.82E-07	1.32E-08	3.04E-08	0.00E+00	4.36E-08	6.86E-09	1.16E-08	0.00E+00	1.85E-08
3354	600456.1	4175879	8.08E-08	2.01E-07	0.00E+00	2.82E-07	8.08E-08	2.01E-07	0.00E+00	2.82E-07	1.31E-08	3.04E-08	0.00E+00	4.36E-08	6.86E-09	1.16E-08	0.00E+00	1.85E-08
3355	600459.9	4175887	8.07E-08	2.01E-07	0.00E+00	2.82E-07	8.07E-08	2.01E-07	0.00E+00	2.82E-07	1.31E-08	3.04E-08	0.00E+00	4.35E-08	6.86E-09	1.16E-08	0.00E+00	1.84E-08
3356	600463.7	4175896	8.07E-08	2.01E-07	0.00E+00	2.81E-07	8.07E-08	2.01E-07	0.00E+00	2.81E-07	1.31E-08	3.04E-08	0.00E+00	4.35E-08	6.85E-09	1.16E-08	0.00E+00	1.84E-08
3357	600467.5	4175905	8.08E-08	2.01E-07	0.00E+00	2.82E-07	8.08E-08	2.01E-07	0.00E+00	2.82E-07	1.31E-08	3.04E-08	0.00E+00	4.35E-08	6.86E-09	1.16E-08	0.00E+00	1.84E-08
3358	600471.4	4175914	8.07E-08	2.01E-07	0.00E+00	2.82E-07	8.07E-08	2.01E-07	0.00E+00	2.82E-07	1.31E-08	3.04E-08	0.00E+00	4.35E-08	6.85E-09	1.16E-08	0.00E+00	1.84E-08
3359	600475.2	4175922	8.08E-08	2.01E-07	0.00E+00	2.82E-07	8.08E-08	2.01E-07	0.00E+00	2.82E-07	1.32E-08	3.04E-08	0.00E+00	4.36E-08	6.86E-09	1.16E-08	0.00E+00	1.85E-08
3360	600479	4175931	8.09E-08	2.01E-07	0.00E+00	2.82E-07	8.09E-08	2.01E-07	0.00E+00	2.82E-07	1.32E-08	3.04E-08	0.00E+00	4.36E-08	6.87E-09	1.16E-08	0.00E+00	1.85E-08
3361	600482.8	4175940	8.09E-08	2.02E-07	0.00E+00	2.83E-07	8.09E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.36E-08	6.87E-09	1.16E-08	0.00E+00	1.85E-08
3362	600486.7	4175948	8.11E-08	2.02E-07	0.00E+00	2.83E-07	8.11E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.89E-09	1.16E-08	0.00E+00	1.85E-08
3363	600490.5	4175957	8.13E-08	2.02E-07	0.00E+00	2.84E-07	8.13E-08	2.02E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.38E-08	6.90E-09	1.17E-08	0.00E+00	1.86E-08
3364	600494.3	4175966	8.1E-08	2.02E-07	0.00E+00	2.83E-07	8.10E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.88E-09	1.16E-08	0.00E+00	1.85E-08
3365	600498.1	4175975	8.06E-08	2.01E-07	0.00E+00	2.81E-07	8.06E-08	2.01E-07	0.00E+00	2.81E-07	1.31E-08	3.03E-08	0.00E+00	4.34E-08	6.84E-09	1.16E-08	0.00E+00	1.84E-08
3366	600501.9	4175983	7.99E-08	1.99E-07	0.00E+00	2.79E-07	7.99E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.31E-08	6.79E-09	1.15E-08	0.00E+00	1.83E-08
3367	600505.8	4175992	7.89E-08	1.97E-07	0.00E+00	2.76E-07	7.89E-08	1.97E-07	0.00E+00	2.76E-07	1.28E-08	2.97E-08	0.00E+00	4.26E-08	6.70E-09	1.13E-08	0.00E+00	1.80E-08
3368	600509.6	4176001	7.77E-08	1.93E-07	0.00E+00	2.71E-07	7.77E-08	1.93E-07	0.00E+00	2.71E-07	1.26E-08	2.93E-08	0.00E+00	4.19E-08	6.60E-09	1.12E-08	0.00E+00	1.77E-08
3369	600513.4	4176010	7.64E-08	1.90E-07	0.00E+00	2.67E-07	7.64E-08	1.90E-07	0.00E+00	2.67E-07	1.24E-08	2.88E-08	0.00E+00	4.12E-08	6.49E-09	1.10E-08	0.00E+00	1.75E-08
3370	600517.2	4176018	7.52E-08	1.87E-07	0.00E+00	2.62E-07	7.52E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.83E-08	0.00E+00	4.05E-08	6.38E-09	1.08E-08	0.00E+00	1.72E-08
3371	600521	4176027	7.4E-08	1.84E-07	0.00E+00	2.58E-07	7.40E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.79E-08	0.00E+00	3.99E-08	6.28E-09	1.06E-08	0.00E+00	1.69E-08
3372	600524.9	4176036	7.29E-08	1.82E-07	0.00E+00	2.54E-07	7.29E-08	1.82E-07	0.00E+00	2.54E-07	1.19E-08	2.75E-08	0.00E+00	3.93E-08	6.19E-09	1.05E-08	0.00E+00	1.67E-08
3373	600528.7	4176044	7.19E-08	1.79E-07	0.00E+00	2.51E-07	7.19E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.71E-08	0.00E+00	3.88E-08	6.10E-09	1.03E-08	0.00E+00	1.64E-08
3374	600532.5	4176053	7.11E-08	1.77E-07	0.00E+00	2.48E-07	7.11E-08	1.77E-07	0.00E+00	2.48E-07	1.16E-08	2.68E-08	0.00E+00	3.83E-08	6.04E-09	1.02E-08	0.00E+00	1.62E-08
3375	599746.8	4175268	7.09E-08	1.76E-07	0.00E+00	2.47E-07	7.09E-08	1.76E-07	0.00E+00	2.47E-07	1.15E-08	2.67E-08	0.00E+00	3.82E-08	6.02E-09	1.02E-08	0.00E+00	1.62E-08
3376	599737.3	4175268	6.9E-08	1.72E-07	0.00E+00	2.41E-07	6.90E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.72E-08	5.86E-09	9.91E-09	0.00E+00	1.58E-08
3377	599727.8	4175267	6.7E-08	1.67E-07	0.00E+00	2.34E-07	6.70E-08	1.67E-07	0.00E+00	2.34E-07	1.09E-08	2.52E-08	0.00E+00	3.61E-08	5.69E-09	9.62E-09	0.00E+00	1.53E-08
3378	599718.3	4175267	6.68E-08	1.66E-07	0.00E+00	2.33E-07	6.68E-08	1.66E-07	0.00E+00	2.33E-07	1.09E-08	2.52E-08	0.00E+00	3.60E-08	5.67E-09	9.59E-09	0.00E+00	1.53E-08
3379	599708.7	4175266	6.78E-08	1.69E-07	0.00E+00	2.37E-07	6.78E-08	1.69E-07	0.00E+00	2.37E-07	1.10E-08	2.55E-08	0.00E+00	3.66E-08	5.76E-09	9.73E-09	0.00E+00	1.55E-08
3380	599699.2	4175266	6.87E-08	1.71E-07	0.00E+00	2.40E-07	6.87E-08	1.71E-07	0.00E+00	2.40E-07	1.12E-08	2.59E-08	0.00E+00	3.71E-08	5.84E-09	9.86E-09	0.00E+00	1.57E-08
3381	599689.7	4175265	7.2E-08	1.79E-07	0.00E+00	2.51E-07	7.20E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.71E-08	0.00E+00	3.88E-08	6.11E-09	1.03E-08	0.00E+00	1.64E-08
3382	599756.4	4175252	7.41E-08	1.84E-07	0.00E+00	2.59E-07	7.41E-08	1.84E-07	0.00E+00	2.59E-07	1.21E-08	2.79E-08	0.00E+00	4.00E-08	6.29E-09	1.06E-08	0.00E+00	1.69E-08
3383	599765.1	4175256	7.54E-08	1.88E-07	0.00E+00	2.63E-07	7.54E-08	1.88E-07	0.00E+00	2.63E-07	1.23E-08	2.84E-08	0.00E+00	4.07E-08	6.41E-09	1.08E-08	0.00E+00	1.72E-08
3384	599773.7	4175260	7.66E-08	1.91E-07	0.00E+00	2.67E-07	7.66E-08	1.91E-07	0.00E+00	2.67E-07	1.25E-08	2.88E-08	0.00E+00	4.13E-08	6.51E-09	1.10E-08	0.00E+00	1.75E-08
3385	599782.4	4175263	7.76E-08	1.93E-07	0.00E+00	2.71E-07	7.76E-08	1.93E-07	0.00E+00	2.71E-07	1.26E-08	2.92E-08	0.00E+00	4.19E-08	6.59E-09	1.11E-08	0.00E+00	1.77E-08
3386	599791	4175267	7.82E-08	1.95E-07	0.00E+00	2.73E-07	7.82E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.94E-08	0.00E+00	4.22E-08	6.64E-09	1.12E-08	0.00E+00	1.79E-08
3387	599799.7	4175271	7.81E-08	1.95E-07	0.00E+00	2.73E-07	7.81E-08	1.95E-07	0.00E+00	2.73E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.63E-09	1.12E-08	0.00E+00	1.78E-08
3388	599808.3	4175275	7.8E-08	1.94E-07	0.00E+00	2.72E-07	7.80E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.62E-09	1.12E-08	0.00E+00	1.78E-08
3389	599817	4175279	7.85E-08	1.95E-07	0.00E+00	2.74E-07	7.85E-08	1.95E-07	0.00E+00	2.74E-07	1.28E-08	2.95E-08	0.00E+00	4.23E-08	6.66E-09	1.13E-08	0.00E+00	1.79E-08
3390	599825.6	4175283	7.94E-08	1.98E-07	0.00E+00	2.77E-07	7.94E-08	1.98E-07	0.00E+00	2.77E-07	1.29E-08	2.99E-08	0.00E+00	4.28E-08	6.74E-09	1.14E-08	0.00E+00	1.81E-08
3391	599834.2	4175287	8.26E-08	2.06E-07	0.00E+00	2.88E-07	8.26E-08	2.06E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.01E-09	1.19E-08	0.00E+00	1.89E-08
3392	599842.9	4175290	8.74E-08	2.18E-07	0.00E+00	3.05E-07	8.74E-08	2.18E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.71E-08	7.42E-09	1.25E-08	0.00E+00	2.00E-08
3393	599851.5	4175294	9.24E-08	2.30E-07	0.00E+00	3.22E-07	9.24E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.33E-08	0.00E+00	2.11E-08
3394	599860.2	4175298	9.7E-08	2.42E-07	0.00E+00	3.39E-07	9.70E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.65E-08	0.00E+00	5.23E-08	8.24E-09	1.39E-08	0.00E+00	2.22E-08
3395	599868.8	4175302	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.47E-08	8.61E-09	1.46E-08	0.00E+00	2.32E-08
3396	599877.5	4175306	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.96E-09	1.51E-08	0.00E+00	2.41E-08
3397	599886.1	4175310	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.89E-08	9.28E-09	1.57E-08	0.00E+00	2.50E-08
3398	599894.8	4175313	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.08E-08	9.57E-09	1.62E-08	0.00E+00	2.57E-08
3399	599903.4	4175317	1.16E-07	2.89E-07	0.00E+00	4.04E-07	1.16E-07	2.89E-07	0.00E+00	4.04E-07	1.89E-08	4.36E-08	0.00E+00	6.25E-08	9.84E-09	1.66E-08	0.00E+00	2.65E-08
3400	599912.1	4175321	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.48E-08	0.00E+00	6.42E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
3401	599920.7	4175325	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.98E-08	4.59E-08	0.00E+00	6.58E-08	1.04E-08	1.75E-08	0.00E+00	2.79E-08
3402	599929.4	4175329	1.24E-07	3.09E-07	0.00E+00	4.34E-07	1.24E-07	3.09E-07	0.00E+00	4.34E-07	2.02E-08	4.68E-08	0.00E+00	6.70E-08	1.06E-08	1.78E-08	0.00E+00	2.84E-08
3403	599938	4175333	1.24E-07	3.09E-07	0.00E+00	4.33E-07	1.24E-07	3.09E-07	0.00E+00	4.33E-07	2.02E-08	4.67E-08	0.00E+00	6.69E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08
3404	599946.6	4175336	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.56E-08	0.00E+00	6.53E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
3405	599955.3	4175340	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.92E-08	4.44E-08	0.00E+00	6.36E-08	1.00E-08	1.69E-08	0.00E+00	2.70E-08
3406	599963.9	4175344	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.14E-07	2.85E-07	0.00E+00	3.99E-07	1.86E-08	4.31E-08	0.00E+00	6.17E-08	9.71E-09	1.64E-08	0.00E+00	2.61E-08
3407	599972.6	4175348	1.09E-07	2.72E-07	0.00E+00	3.82E-07	1.09E-07	2.72E-07	0.00E+00	3.82E-07	1.78E-08	4.12E-08	0.00E+00	5.90E-08	9.28E-09	1.57E-08	0.00E+00	2.50E-08

3408	599981.2	4175352	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.76E-09	1.48E-08	0.00E+00	2.36E-08
3409	599989.9	4175356	9.61E-08	2.39E-07	0.00E+00	3.35E-07	9.61E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.62E-08	0.00E+00	5.18E-08	8.16E-09	1.38E-08	0.00E+00	2.19E-08
3410	599998.5	4175359	9.18E-08	2.29E-07	0.00E+00	3.20E-07	9.18E-08	2.29E-07	0.00E+00	3.20E-07	1.49E-08	3.46E-08	0.00E+00	4.95E-08	7.80E-09	1.32E-08	0.00E+00	2.10E-08
3411	600007.2	4175363	8.97E-08	2.23E-07	0.00E+00	3.13E-07	8.97E-08	2.23E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.83E-08	7.61E-09	1.29E-08	0.00E+00	2.05E-08
3412	600015.8	4175367	8.75E-08	2.18E-07	0.00E+00	3.05E-07	8.75E-08	2.18E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.72E-08	7.43E-09	1.26E-08	0.00E+00	2.00E-08
3413	600024.5	4175371	8.57E-08	2.13E-07	0.00E+00	2.99E-07	8.57E-08	2.13E-07	0.00E+00	2.99E-07	1.39E-08	3.23E-08	0.00E+00	4.62E-08	7.27E-09	1.23E-08	0.00E+00	1.96E-08
3414	600033.1	4175375	8.64E-08	2.15E-07	0.00E+00	3.02E-07	8.64E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.97E-08
3415	600041.7	4175379	8.62E-08	2.15E-07	0.00E+00	3.01E-07	8.62E-08	2.15E-07	0.00E+00	3.01E-07	1.40E-08	3.25E-08	0.00E+00	4.65E-08	7.32E-09	1.24E-08	0.00E+00	1.97E-08
3416	600050.4	4175383	8.53E-08	2.12E-07	0.00E+00	2.98E-07	8.53E-08	2.12E-07	0.00E+00	2.98E-07	1.39E-08	3.21E-08	0.00E+00	4.60E-08	7.24E-09	1.22E-08	0.00E+00	1.95E-08
3417	600059	4175386	8.67E-08	2.16E-07	0.00E+00	3.03E-07	8.67E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.26E-08	0.00E+00	4.67E-08	7.36E-09	1.24E-08	0.00E+00	1.98E-08
3418	600067.7	4175390	8.99E-08	2.24E-07	0.00E+00	3.14E-07	8.99E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.63E-09	1.29E-08	0.00E+00	2.05E-08
3419	600076.3	4175394	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.47E-08	0.00E+00	4.97E-08	7.83E-09	1.32E-08	0.00E+00	2.11E-08
3420	600085	4175398	9.41E-08	2.34E-07	0.00E+00	3.29E-07	9.41E-08	2.34E-07	0.00E+00	3.29E-07	1.53E-08	3.54E-08	0.00E+00	5.08E-08	7.99E-09	1.35E-08	0.00E+00	2.15E-08
3421	600093.6	4175402	9.79E-08	2.44E-07	0.00E+00	3.42E-07	9.79E-08	2.44E-07	0.00E+00	3.42E-07	1.59E-08	3.69E-08	0.00E+00	5.28E-08	8.31E-09	1.40E-08	0.00E+00	2.24E-08
3422	600102.3	4175406	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.67E-08	3.85E-08	0.00E+00	5.52E-08	8.69E-09	1.47E-08	0.00E+00	2.34E-08
3423	600110.9	4175409	1.08E-07	2.68E-07	0.00E+00	3.75E-07	1.08E-07	2.68E-07	0.00E+00	3.75E-07	1.75E-08	4.05E-08	0.00E+00	5.80E-08	9.13E-09	1.54E-08	0.00E+00	2.46E-08
3424	600119.6	4175413	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.22E-08	0.00E+00	6.04E-08	9.52E-09	1.61E-08	0.00E+00	2.56E-08
3425	600128.2	4175417	1.17E-07	2.90E-07	0.00E+00	4.07E-07	1.17E-07	2.90E-07	0.00E+00	4.07E-07	1.90E-08	4.39E-08	0.00E+00	6.29E-08	9.90E-09	1.67E-08	0.00E+00	2.66E-08
3426	600136.9	4175421	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.53E-08	0.00E+00	6.49E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
3427	600145.5	4175425	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.99E-08	4.61E-08	0.00E+00	6.59E-08	1.04E-08	1.76E-08	0.00E+00	2.79E-08
3428	600154.1	4175429	1.19E-07	2.96E-07	0.00E+00	4.14E-07	1.19E-07	2.96E-07	0.00E+00	4.14E-07	1.93E-08	4.47E-08	0.00E+00	6.40E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
3429	600162.8	4175432	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.30E-08	9.91E-09	1.68E-08	0.00E+00	2.67E-08
3430	600171.4	4175436	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.89E-08	4.38E-08	0.00E+00	6.28E-08	9.88E-09	1.67E-08	0.00E+00	2.66E-08
3431	600180.1	4175440	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.84E-08	4.26E-08	0.00E+00	6.11E-08	9.61E-09	1.62E-08	0.00E+00	2.59E-08
3432	600381.8	4175662	1.01E-07	2.50E-07	0.00E+00	3.51E-07	1.01E-07	2.50E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.42E-08	8.54E-09	1.44E-08	0.00E+00	2.30E-08
3433	600385.6	4175671	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.66E-09	1.46E-08	0.00E+00	2.33E-08
3434	600389.4	4175680	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.69E-08	3.90E-08	0.00E+00	5.59E-08	8.80E-09	1.49E-08	0.00E+00	2.37E-08
3435	600393.2	4175688	1.05E-07	2.62E-07	0.00E+00	3.68E-07	1.05E-07	2.62E-07	0.00E+00	3.68E-07	1.71E-08	3.97E-08	0.00E+00	5.68E-08	8.95E-09	1.51E-08	0.00E+00	2.41E-08
3436	600397	4175697	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.75E-08	4.04E-08	0.00E+00	5.79E-08	9.11E-09	1.54E-08	0.00E+00	2.45E-08
3437	600400.8	4175706	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.88E-08	9.27E-09	1.57E-08	0.00E+00	2.49E-08
3438	600404.6	4175714	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.80E-08	4.17E-08	0.00E+00	5.98E-08	9.41E-09	1.59E-08	0.00E+00	2.53E-08
3439	600408.4	4175723	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.19E-08	0.00E+00	6.00E-08	9.44E-09	1.60E-08	0.00E+00	2.54E-08
3440	600412.2	4175732	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.80E-08	4.17E-08	0.00E+00	5.97E-08	9.41E-09	1.59E-08	0.00E+00	2.53E-08
3441	600416	4175740	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.20E-09	1.55E-08	0.00E+00	2.47E-08
3442	600419.8	4175749	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.65E-08	8.90E-09	1.50E-08	0.00E+00	2.39E-08
3443	600423.6	4175758	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.65E-08	3.81E-08	0.00E+00	5.46E-08	8.60E-09	1.45E-08	0.00E+00	2.31E-08
3444	600469.1	4175862	8.25E-08	2.05E-07	0.00E+00	2.88E-07	8.25E-08	2.05E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.01E-09	1.18E-08	0.00E+00	1.88E-08
3445	600472.9	4175870	8.24E-08	2.05E-07	0.00E+00	2.88E-07	8.24E-08	2.05E-07	0.00E+00	2.88E-07	1.34E-08	3.10E-08	0.00E+00	4.44E-08	7.00E-09	1.18E-08	0.00E+00	1.88E-08
3446	600476.7	4175879	8.28E-08	2.06E-07	0.00E+00	2.89E-07	8.28E-08	2.06E-07	0.00E+00	2.89E-07	1.35E-08	3.12E-08	0.00E+00	4.46E-08	7.03E-09	1.19E-08	0.00E+00	1.89E-08
3447	600480.5	4175888	8.33E-08	2.07E-07	0.00E+00	2.91E-07	8.33E-08	2.07E-07	0.00E+00	2.91E-07	1.35E-08	3.14E-08	0.00E+00	4.49E-08	7.07E-09	1.20E-08	0.00E+00	1.90E-08
3448	600484.2	4175896	8.39E-08	2.09E-07	0.00E+00	2.93E-07	8.39E-08	2.09E-07	0.00E+00	2.93E-07	1.36E-08	3.16E-08	0.00E+00	4.52E-08	7.12E-09	1.20E-08	0.00E+00	1.92E-08
3449	600488	4175905	8.41E-08	2.09E-07	0.00E+00	2.93E-07	8.41E-08	2.09E-07	0.00E+00	2.93E-07	1.37E-08	3.17E-08	0.00E+00	4.53E-08	7.14E-09	1.21E-08	0.00E+00	1.92E-08
3450	600491.8	4175914	8.41E-08	2.09E-07	0.00E+00	2.94E-07	8.41E-08	2.09E-07	0.00E+00	2.94E-07	1.37E-08	3.17E-08	0.00E+00	4.54E-08	7.14E-09	1.21E-08	0.00E+00	1.92E-08
3451	600495.6	4175922	8.4E-08	2.09E-07	0.00E+00	2.93E-07	8.40E-08	2.09E-07	0.00E+00	2.93E-07	1.37E-08	3.16E-08	0.00E+00	4.53E-08	7.14E-09	1.21E-08	0.00E+00	1.92E-08
3452	600499.4	4175931	8.42E-08	2.10E-07	0.00E+00	2.94E-07	8.42E-08	2.10E-07	0.00E+00	2.94E-07	1.37E-08	3.17E-08	0.00E+00	4.54E-08	7.15E-09	1.21E-08	0.00E+00	1.92E-08
3453	600503.2	4175940	8.48E-08	2.11E-07	0.00E+00	2.96E-07	8.48E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.19E-08	0.00E+00	4.57E-08	7.20E-09	1.22E-08	0.00E+00	1.94E-08
3454	600507	4175948	8.55E-08	2.13E-07	0.00E+00	2.98E-07	8.55E-08	2.13E-07	0.00E+00	2.98E-07	1.39E-08	3.22E-08	0.00E+00	4.61E-08	7.26E-09	1.23E-08	0.00E+00	1.95E-08
3455	600510.8	4175957	8.57E-08	2.13E-07	0.00E+00	2.99E-07	8.57E-08	2.13E-07	0.00E+00	2.99E-07	1.39E-08	3.23E-08	0.00E+00	4.62E-08	7.28E-09	1.23E-08	0.00E+00	1.96E-08
3456	600514.6	4175966	8.47E-08	2.11E-07	0.00E+00	2.96E-07	8.47E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.19E-08	0.00E+00	4.57E-08	7.19E-09	1.22E-08	0.00E+00	1.93E-08
3457	600518.4	4175974	8.34E-08	2.08E-07	0.00E+00	2.91E-07	8.34E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.50E-08	7.08E-09	1.20E-08	0.00E+00	1.90E-08
3458	600522.2	4175983	8.18E-08	2.04E-07	0.00E+00	2.85E-07	8.18E-08	2.04E-07	0.00E+00	2.85E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.94E-09	1.17E-08	0.00E+00	1.87E-08
3459	599747.8	4175248	7.2E-08	1.79E-07	0.00E+00	2.51E-07	7.20E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.71E-08	0.00E+00	3.88E-08	6.11E-09	1.03E-08	0.00E+00	1.64E-08
3460	599738.3	4175248	6.9E-08	1.72E-07	0.00E+00	2.41E-07	6.90E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.72E-08	5.86E-09	9.90E-09	0.00E+00	1.58E-08
3461	599728.7	4175247	6.59E-08	1.64E-07	0.00E+00	2.30E-07	6.59E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.48E-08	0.00E+00	3.55E-08	5.59E-09	9.45E-09	0.00E+00	1.50E-08
3462	599719.2	4175247	6.47E-08	1.61E-07	0.00E+00	2.26E-07	6.47E-08	1.61E-07	0.00E+00	2.26E-07	1.05E-08	2.43E-08	0.00E+00	3.49E-08	5.49E-09	9.28E-09	0.00E+00	1.48E-08
3463	599709.7	4175246	6.57E-08	1.64E-07	0.00E+00	2.29E-07	6.57E-08	1.64E-07	0.00E+00	2.29E-07	1.07E-08	2.47E-08	0.00E+00	3.54E-08	5.58E-09	9.42E-09	0.00E+00	1.50E-08
3464	599700.2	4175246	6.68E-08	1.66E-07	0.00E+00	2.33E-07	6.68E-08	1.66E-07	0.00E+00	2.33E-07	1.09E-08	2.51E-08	0.00E+00	3.60E-08	5.67E-09	9.58E-09	0.00E+00	1.52E-08
3465	599690.6	4175245	6.95E-08	1.73E-07	0.00E+00	2.42E-07	6.95E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.62E-08	0.00E+00	3.75E-08	5.90E-09	9.97E-09	0.00E+00	1.59E-08
3466	599757.3	4175232	7.52E-08	1.87E-07	0.00E+00	2.62E-07	7.52E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.83E-08	0.00E+00	4.05E-08	6.38E-09	1.08E-08	0.00E+00	1.72E-08
3467	599765.9	4175236	7.72E-08	1.92E-07	0.00E+00	2.69E-07	7.72E-08	1.92E-07	0.00E+00	2.69E-07	1.26E-08	2.91E-08	0.00E+00	4.16E-08	6.55E-09	1.11E-08	0.00E+00	1.76E-08
3468	599774.5	4175240	7.84E-08	1.95E-07	0.00E+00	2.74E-07	7.84E-08	1.95E-07	0.00E+00	2.74E-07	1.28E-08	2.95E-08	0.00E+00	4.23E-08	6.66E-09	1.13E-08	0.00E+00	1.79E-08
3469	599783.1	4175243	7.95E-08	1.98E-07	0.00E+00	2.78E-07	7.95E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	2.99E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
3470	599791.7	4175247	8.13E-08	2.03E-07	0.00E+00	2.84E-07	8.13E-08	2.03E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.39E-08	6.91E-09	1.17E-08	0.00E+00	1.86E-08
3471	599800.3	4175251	8.27E-08	2.06E-07	0.00E+00	2.88E-07	8.27E-08	2.06E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.46E-08	7.02E-09	1.19E-08	0.00E+00	1.89E-08
3472	599808.8	4175255	8.34E-08	2.08E-07	0.00E+00	2.91E-07	8.34E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.50E-08	7.08E-09	1.20E-08	0.00E+00	1.90E-08
3473	599817.4	4175259	8.33E-08	2.07E-07	0.00E+00	2.91E-07	8.33E-08	2.07E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.49E-08	7.08E-09	1.20E-08	0.00E+00	1.90E-08
3474	599826	4175262	8.3E-08	2.07E-07	0.00E+00	2.90E-07	8.30E-08	2.07E-07	0.00E+00	2.90E-07	1.35E-08	3.12E-08	0.00E+00	4.47E-08	7.04E-09	1.19E-08	0.00E+00	1.89E-08
3475	599834.6	4175266	8.29E-08	2.07E-07	0.00E+00	2.89E-07	8.29E-08	2.07E-07	0.00E+00	2.89E-07	1.35E-08	3.12E-08	0.00E+00	4.47E-08	7.04E-09	1.19E-08	0.00E+00	1.89E-08
3476	599843.2	4175270	8.45E-08	2.11E-07	0.00E+00	2.95E-07	8.45E-08	2.11E-07	0.00E+00	2.95E-07	1.38E-08	3.18E-08	0.00E+00	4.56E-08	7.18E-09	1.21E-08	0.00E+00	1.93E-08
3477	599851.8	4175274	8.89E-08	2.21E-07	0.00E+00	3.10E-07	8.89E-08	2.21E-07	0.00E+00	3.10E-07	1.45E-08	3.35E-08	0.00E+00	4.79E-08	7.54E-09	1.28E-08	0.00E+00	2.03E-08
3478	599860.4	4175278	9.15E-08	2.28E-07	0.00E+00	3.19E-07	9.15E-08	2.28E-07	0.00E+00	3.19E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.77E-09	1.31E-08	0.00E+00	2.09E-08
3479	599868.9	4175282	9.59E-08	2.39E-07	0.00E+00	3.35E-07	9.59E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.61E-08	0.00E+00	5.17E-08	8.14E-09	1.38E-08	0.00E+00	2.19E-08
3480	599877.5	4175285	9.98E-08	2.49E-07	0.00E+00	3.48E-07	9.98E-08	2.49E-07	0.00E+00	3.48E-07	1.62E-08	3.76E-08	0.00E+00	5.38E-08	8.48E-09	1.43E-08	0.00E+00	2.28E-08
3481	599886.1	4175289	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.04E-07	2.58E-07	0.00E+00	3.61E-07	1.68E-08	3.90E-08	0.00E+00	5.58E-08	8.79E-09	1.49E-08	0.00E+00	2.37E-08
3482	599894.7	4175293	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.03E-08	0.00E+00	5.77E-08	9.08E-09	1.53E-08	0.00E+00	2.44E-08
3483	599903.3	4175297	1.1E-07	2.74E-07	0.00E+00	3.84E-07	1.10E-07	2.74E-07	0.00E+00	3.84E-07	1.79E-08	4.14E-08	0.00E+00	5.93E-08	9.34E-09	1.58E-08	0.00E+00	2.51E-08
3484	599911.9	4175301	1.14E-07	2.83E-07	0.00E+00	3.96E-07	1.14E-07	2.83E-07	0.00E+00	3.96E-07	1.85E-08	4.28E-08	0.00E+00	6.13E-08	9.65E-09	1.63E-08	0.00E+00	2.59E-08
3485	599920.4	4175304	1.17E-07	2.91E-07	0.00E+00	4.07E-07	1.17E-07	2.91E-07	0.00E+00	4.07E-07	1.90E-08	4.39E-08	0.00E+00	6.29E-08	9.91E-09	1.67E-08	0.00E+00	2.67E-08
3486	599929	4175308	1.19E-07	2.97E-07	0.00E+00	4.17E-07	1.19E-07	2.97E-07	0.00E+00	4.17E-07	1.94E-08	4.50E-08	0.00E+00	6.44E-08	1.01E-08	1.71E-08	0.00E+00	2.73E-08
3487	599937.6	4175312	1.2E-07	2.99E-07	0.00E+00	4.20E-07	1.20E-07	2.99E-07	0.00E+00	4.20E-07	1.96E-08	4.53E-08	0.00E+00	6.48E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
3488	599946.2	4175316	1.19E-07	2.95E-07	0.00E+00	4.14E-07	1.19E-07	2.95E-07	0.00E+00	4.14E-07	1.93E-08	4.47E-08	0.00E+00	6.40E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
3489	599954.8	4175320	1.17E-07	2.90E-07	0.00E+00	4.07E-07	1.17E-07	2.90E-07	0.00E+00	4.07E-07	1.90E-08	4.39E-08	0.00E+00	6.29E-08	9.90E-09	1.67E-08	0.00E+00	2.66E-08
3490	599963.4	4175323	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.85E-08	4.29E-08	0.00E+00	6.14E-08	9.67E-09	1.63E-08	0.00E+00	2.60E-08
3491	599972	4175327	1.1E-07	2.75E-07	0.00E+00	3.86E-07	1.10E-07	2.75E-07	0.00E+00	3.86E-07	1.80E-08	4.16E-08	0.00E+00	5.96E-08	9.38E-09	1.59E-08	0.00E+00	2.52E-08
3492	599980.5	4175331	1.06E-07	2.64E-07	0.00E+00	3.71E-07	1.06E-07	2.64E-07	0.00E+00	3.71E-07	1.73E-08	4.00E-08	0.00E+00	5.73E-08	9.02E-09	1.52E-08	0.00E+00	2.43E-08
3493	599989.1	4175335	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.65E-08	3.81E-08	0.00E+00	5.45E-08	8.59E-09	1.45E-08	0.00E+00	2.31E-08
3494	599997.7	4175339	9.73E-08	2.42E-07	0.00E+00	3.40E-07	9.73E-08	2.42E-07	0.00E+00	3.40E-07	1.58E-08	3.66E-08	0.00E+00	5.25E-08	8.26E-09	1.40E-08	0.00E+00	2.22E-08
3495	600006.3	4175343	9.53E-08	2.37E-07	0.00E+00	3.33E-07	9.53E-08	2.37E-07	0.00E+00	3.33E-07	1.55E-08	3.59E-08	0.00E+00	5.14E-08	8.09E-09	1.37E-08	0.00E+00	2.18E-08
3496	600014.9	4175346	9.28E-08	2.31E-07	0.00E+00	3.24E-07	9.28E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.50E-08	0.00E+00	5.01E-08	7.88E-09	1.33E-08	0.00E+00	2.12E-08
3497	600023.5	4175350	9E-08	2.24E-07	0.00E+00	3.14E-07	9.00E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.39E-08	0.00E+00	4.85E-08	7.64E-09	1.29E-08	0.00E+00	2.05E-08
3498	600032.1	4175354	9.14E-08	2.27E-07	0.00E+00	3.19E-07	9.14E-08	2.27E-07	0.00E+00	3.19E-07	1.49E-08	3.44E-08	0.00E+00	4.93E-08	7.76E-09	1.31E-08	0.00E+00	2.09E-08
3499	600040.6	4175358	9.3E-08	2.32E-07	0.00E+00	3.25E-07	9.30E-08	2.32E-07	0.00E+00	3.25E-07	1.51E-08	3.50E-08	0.00E+00	5.02E-08	7.90E-09	1.34E-08	0.00E+00	2.13E-08
3500	600049.2	4175362	9.45E-08	2.35E-07	0.00E+00	3.30E-07	9.45E-08	2.35E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.10E-08	8.03E-09	1.36E-08	0.00E+00	2.16E-08
3501	600057.8	4175365	9.65E-08	2.40E-07	0.00E+00	3.37E-07	9.65E-08	2.40E-07	0.00E+00	3.37E-07	1.57E-08	3.63E-08	0.00E+00	5.20E-08	8.19E-09	1.38E-08	0.00E+00	2.20E-08
3502	600066.4	4175369	9.97E-08	2.48E-07	0.00E+00	3.48E-07	9.97E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.38E-08	8.47E-09	1.43E-08	0.00E+00	2.28E-08
3503	600075	4175373	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.75E-09	1.48E-08	0.00E+00	2.35E-08
3504	600083.6	4175377	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.73E-08	4.01E-08	0.00E+00	5.74E-08	9.04E-09	1.53E-08	0.00E+00	2.43E-08
3505	600092.1	4175381	1.1E-07	2.74E-07	0.00E+00	3.84E-07	1.10E-07	2.74E-07	0.00E+00	3.84E-07	1.79E-08	4.14E-08	0.00E+00	5.93E-08	9.33E-09	1.58E-08	0.00E+00	2.51E-08
3506	600100.7	4175385	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.28E-08	0.00E+00	6.13E-08	9.65E-09	1.63E-08	0.00E+00	2.60E-08
3507	600109.3	4175388	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.91E-08	4.42E-08	0.00E+00	6.33E-08	9.97E-09	1.68E-08	0.00E+00	2.68E-08
3508	600117.9	4175392	1.2E-07	2.99E-07	0.00E+00	4.19E-07	1.20E-07	2.99E-07	0.00E+00	4.19E-07	1.95E-08	4.52E-08	0.00E+00	6.47E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
3509	600126.5	4175396	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.98E-08	4.59E-08	0.00E+00	6.57E-08	1.03E-08	1.75E-08	0.00E+00	2.78E-08
3510	600135.1	4175400	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
3511	600143.7	4175404	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.85E-08	0.00E+00	6.95E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08
3512	600152.2	4175407	1.25E-07	3.10E-07	0.00E+00	4.35E-07	1.25E-07	3.10E-07	0.00E+00	4.35E-07	2.03E-08	4.69E-08	0.00E+00	6.72E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
3513	600160.8	4175411	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.21E-07	3.01E-07	0.00E+00	4.22E-07	1.97E-08	4.55E-08	0.00E+00	6.52E-08	1.03E-08	1.73E-08	0.00E+00	2.76E-08
3514	600169.4	4175415	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.91E-08	4.43E-08	0.00E+00	6.34E-08	9.99E-09	1.69E-08	0.00E+00	2.69E-08
3515	600178	4175419	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.82E-08	4.21E-08	0.00E+00	6.03E-08	9.49E-09	1.60E-08	0.00E+00	2.55E-08
3516	600186.6	4175423	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.66E-08	8.91E-09	1.51E-08	0.00E+00	2.40E-08
3517	600195.2	4175426	9.99E-08	2.49E-07	0.00E+00	3.49E-07	9.99E-08	2.49E-07	0.00E+00	3.49E-07	1.63E-08	3.76E-08	0.00E+00	5.39E-08	8.49E-09	1.43E-08	0.00E+00	2.28E-08

3518	600414.3	4175690	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.32E-08	0.00E+00	6.19E-08	9.75E-09	1.65E-08	0.00E+00	2.62E-08
3519	600418.1	4175699	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.28E-08	0.00E+00	6.13E-08	9.65E-09	1.63E-08	0.00E+00	2.60E-08
3520	600421.9	4175707	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.21E-08	0.00E+00	6.03E-08	9.50E-09	1.61E-08	0.00E+00	2.56E-08
3521	600425.6	4175716	1.09E-07	2.73E-07	0.00E+00	3.82E-07	1.09E-07	2.73E-07	0.00E+00	3.82E-07	1.78E-08	4.12E-08	0.00E+00	5.90E-08	9.30E-09	1.57E-08	0.00E+00	2.50E-08
3522	600429.4	4175725	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.72E-08	3.99E-08	0.00E+00	5.72E-08	9.00E-09	1.52E-08	0.00E+00	2.42E-08
3523	600433.2	4175733	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.72E-09	1.47E-08	0.00E+00	2.35E-08
3524	599748.7	4175228	7.23E-08	1.80E-07	0.00E+00	2.52E-07	7.23E-08	1.80E-07	0.00E+00	2.52E-07	1.18E-08	2.72E-08	0.00E+00	3.90E-08	6.14E-09	1.04E-08	0.00E+00	1.65E-08
3525	599739.2	4175228	6.91E-08	1.72E-07	0.00E+00	2.41E-07	6.91E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.72E-08	5.87E-09	9.91E-09	0.00E+00	1.58E-08
3526	599729.7	4175227	6.59E-08	1.64E-07	0.00E+00	2.30E-07	6.59E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.48E-08	0.00E+00	3.55E-08	5.60E-09	9.46E-09	0.00E+00	1.51E-08
3527	599720.2	4175227	6.4E-08	1.59E-07	0.00E+00	2.23E-07	6.40E-08	1.59E-07	0.00E+00	2.23E-07	1.04E-08	2.41E-08	0.00E+00	3.45E-08	5.43E-09	9.18E-09	0.00E+00	1.46E-08
3528	599710.7	4175226	6.41E-08	1.60E-07	0.00E+00	2.24E-07	6.41E-08	1.60E-07	0.00E+00	2.24E-07	1.04E-08	2.41E-08	0.00E+00	3.45E-08	5.44E-09	9.19E-09	0.00E+00	1.46E-08
3529	599701.1	4175226	6.41E-08	1.60E-07	0.00E+00	2.24E-07	6.41E-08	1.60E-07	0.00E+00	2.24E-07	1.04E-08	2.41E-08	0.00E+00	3.45E-08	5.44E-09	9.19E-09	0.00E+00	1.46E-08
3530	599691.6	4175225	6.49E-08	1.62E-07	0.00E+00	2.26E-07	6.49E-08	1.62E-07	0.00E+00	2.26E-07	1.06E-08	2.44E-08	0.00E+00	3.50E-08	5.51E-09	9.31E-09	0.00E+00	1.48E-08
3531	599758.4	4175212	7.39E-08	1.84E-07	0.00E+00	2.58E-07	7.39E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.78E-08	0.00E+00	3.98E-08	6.28E-09	1.06E-08	0.00E+00	1.69E-08
3532	599767	4175216	7.69E-08	1.91E-07	0.00E+00	2.68E-07	7.69E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.15E-08	6.53E-09	1.10E-08	0.00E+00	1.76E-08
3533	599775.7	4175220	7.93E-08	1.97E-07	0.00E+00	2.77E-07	7.93E-08	1.97E-07	0.00E+00	2.77E-07	1.29E-08	2.99E-08	0.00E+00	4.28E-08	6.73E-09	1.14E-08	0.00E+00	1.81E-08
3534	599784.3	4175224	8.14E-08	2.03E-07	0.00E+00	2.84E-07	8.14E-08	2.03E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.39E-08	6.91E-09	1.17E-08	0.00E+00	1.86E-08
3535	599793	4175227	8.42E-08	2.10E-07	0.00E+00	2.94E-07	8.42E-08	2.10E-07	0.00E+00	2.94E-07	1.37E-08	3.17E-08	0.00E+00	4.54E-08	7.15E-09	1.21E-08	0.00E+00	1.92E-08
3536	599801.6	4175231	8.64E-08	2.15E-07	0.00E+00	3.02E-07	8.64E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.97E-08
3537	599810.3	4175235	8.81E-08	2.19E-07	0.00E+00	3.08E-07	8.81E-08	2.19E-07	0.00E+00	3.08E-07	1.43E-08	3.32E-08	0.00E+00	4.75E-08	7.48E-09	1.26E-08	0.00E+00	2.01E-08
3538	599818.9	4175239	8.78E-08	2.19E-07	0.00E+00	3.06E-07	8.78E-08	2.19E-07	0.00E+00	3.06E-07	1.43E-08	3.30E-08	0.00E+00	4.73E-08	7.45E-09	1.26E-08	0.00E+00	2.00E-08
3539	599827.6	4175243	8.65E-08	2.15E-07	0.00E+00	3.02E-07	8.65E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.26E-08	0.00E+00	4.66E-08	7.35E-09	1.24E-08	0.00E+00	1.98E-08
3540	599836.2	4175247	8.56E-08	2.13E-07	0.00E+00	2.99E-07	8.56E-08	2.13E-07	0.00E+00	2.99E-07	1.39E-08	3.22E-08	0.00E+00	4.61E-08	7.26E-09	1.23E-08	0.00E+00	1.95E-08
3541	599844.9	4175250	8.52E-08	2.12E-07	0.00E+00	2.97E-07	8.52E-08	2.12E-07	0.00E+00	2.97E-07	1.39E-08	3.21E-08	0.00E+00	4.59E-08	7.23E-09	1.22E-08	0.00E+00	1.95E-08
3542	599853.5	4175254	8.72E-08	2.17E-07	0.00E+00	3.04E-07	8.72E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.70E-08	7.40E-09	1.25E-08	0.00E+00	1.99E-08
3543	599862.2	4175258	8.97E-08	2.23E-07	0.00E+00	3.13E-07	8.97E-08	2.23E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.62E-09	1.29E-08	0.00E+00	2.05E-08
3544	599870.8	4175262	9.29E-08	2.31E-07	0.00E+00	3.24E-07	9.29E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.50E-08	0.00E+00	5.01E-08	7.89E-09	1.33E-08	0.00E+00	2.12E-08
3545	599879.5	4175266	9.65E-08	2.40E-07	0.00E+00	3.37E-07	9.65E-08	2.40E-07	0.00E+00	3.37E-07	1.57E-08	3.63E-08	0.00E+00	5.20E-08	8.19E-09	1.38E-08	0.00E+00	2.20E-08
3546	599888.2	4175270	9.9E-08	2.47E-07	0.00E+00	3.46E-07	9.90E-08	2.47E-07	0.00E+00	3.46E-07	1.61E-08	3.73E-08	0.00E+00	5.34E-08	8.41E-09	1.42E-08	0.00E+00	2.26E-08
3547	599896.8	4175274	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.52E-08	8.69E-09	1.47E-08	0.00E+00	2.34E-08
3548	599905.5	4175277	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.06E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.96E-09	1.52E-08	0.00E+00	2.41E-08
3549	599914.1	4175281	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.88E-08	9.27E-09	1.57E-08	0.00E+00	2.49E-08
3550	599922.8	4175285	1.12E-07	2.80E-07	0.00E+00	3.92E-07	1.12E-07	2.80E-07	0.00E+00	3.92E-07	1.83E-08	4.23E-08	0.00E+00	6.06E-08	9.54E-09	1.61E-08	0.00E+00	2.57E-08
3551	599931.4	4175289	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.34E-08	0.00E+00	6.21E-08	9.78E-09	1.65E-08	0.00E+00	2.63E-08
3552	599940.1	4175293	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.23E-08	9.81E-09	1.66E-08	0.00E+00	2.64E-08
3553	599948.7	4175297	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.32E-08	0.00E+00	6.19E-08	9.75E-09	1.65E-08	0.00E+00	2.62E-08
3554	599957.4	4175300	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.28E-08	0.00E+00	6.13E-08	9.65E-09	1.63E-08	0.00E+00	2.60E-08
3555	599966	4175304	1.12E-07	2.79E-07	0.00E+00	3.92E-07	1.12E-07	2.79E-07	0.00E+00	3.92E-07	1.82E-08	4.22E-08	0.00E+00	6.05E-08	9.53E-09	1.61E-08	0.00E+00	2.56E-08
3556	599974.7	4175308	1.1E-07	2.75E-07	0.00E+00	3.85E-07	1.10E-07	2.75E-07	0.00E+00	3.85E-07	1.79E-08	4.15E-08	0.00E+00	5.94E-08	9.36E-09	1.58E-08	0.00E+00	2.52E-08
3557	599983.3	4175312	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.05E-08	0.00E+00	5.80E-08	9.14E-09	1.54E-08	0.00E+00	2.46E-08
3558	599992	4175316	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.92E-08	0.00E+00	5.62E-08	8.84E-09	1.49E-08	0.00E+00	2.38E-08
3559	600000.6	4175320	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.72E-09	1.47E-08	0.00E+00	2.35E-08
3560	600009.3	4175323	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.65E-08	3.81E-08	0.00E+00	5.46E-08	8.60E-09	1.45E-08	0.00E+00	2.31E-08
3561	600018	4175327	9.96E-08	2.48E-07	0.00E+00	3.47E-07	9.96E-08	2.48E-07	0.00E+00	3.47E-07	1.62E-08	3.75E-08	0.00E+00	5.37E-08	8.45E-09	1.43E-08	0.00E+00	2.27E-08
3562	600026.6	4175331	9.95E-08	2.48E-07	0.00E+00	3.47E-07	9.95E-08	2.48E-07	0.00E+00	3.47E-07	1.62E-08	3.75E-08	0.00E+00	5.36E-08	8.45E-09	1.43E-08	0.00E+00	2.27E-08
3563	600035.3	4175335	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.66E-09	1.46E-08	0.00E+00	2.33E-08
3564	600043.9	4175339	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.92E-08	0.00E+00	5.62E-08	8.84E-09	1.49E-08	0.00E+00	2.38E-08
3565	600052.6	4175343	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.73E-08	3.99E-08	0.00E+00	5.72E-08	9.00E-09	1.52E-08	0.00E+00	2.42E-08
3566	600061.2	4175347	1.09E-07	2.70E-07	0.00E+00	3.79E-07	1.09E-07	2.70E-07	0.00E+00	3.79E-07	1.77E-08	4.09E-08	0.00E+00	5.85E-08	9.22E-09	1.56E-08	0.00E+00	2.48E-08
3567	600069.9	4175350	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.18E-08	0.00E+00	5.99E-08	9.44E-09	1.59E-08	0.00E+00	2.54E-08
3568	600078.5	4175354	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.28E-08	0.00E+00	6.14E-08	9.66E-09	1.63E-08	0.00E+00	2.60E-08
3569	600087.2	4175358	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.30E-08	9.93E-09	1.68E-08	0.00E+00	2.67E-08
3570	600095.8	4175362	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.53E-08	0.00E+00	6.49E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
3571	600104.5	4175366	1.24E-07	3.09E-07	0.00E+00	4.33E-07	1.24E-07	3.09E-07	0.00E+00	4.33E-07	2.02E-08	4.67E-08	0.00E+00	6.69E-08	1.05E-08	1.78E-08	0.00E+00	2.84E-08
3572	600113.1	4175370	1.28E-07	3.18E-07	0.00E+00	4.46E-07	1.28E-07	3.18E-07	0.00E+00	4.46E-07	2.08E-08	4.82E-08	0.00E+00	6.90E-08	1.09E-08	1.84E-08	0.00E+00	2.92E-08
3573	600121.8	4175373	1.29E-07	3.20E-07	0.00E+00	4.49E-07	1.29E-07	3.20E-07	0.00E+00	4.49E-07	2.09E-08	4.84E-08	0.00E+00	6.93E-08	1.09E-08	1.84E-08	0.00E+00	2.94E-08
3574	600130.4	4175377	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
3575	600139.1	4175381	1.29E-07	3.22E-07	0.00E+00	4.52E-07	1.29E-07	3.22E-07	0.00E+00	4.52E-07	2.11E-08	4.87E-08	0.00E+00	6.98E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
3576	600147.8	4175385	1.26E-07	3.15E-07	0.00E+00	4.41E-07	1.26E-07	3.15E-07	0.00E+00	4.41E-07	2.06E-08	4.76E-08	0.00E+00	6.81E-08	1.07E-08	1.81E-08	0.00E+00	2.89E-08
3577	600156.4	4175389	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
3578	600165.1	4175393	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.83E-09	1.66E-08	0.00E+00	2.65E-08
3579	600173.7	4175397	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.82E-08	4.20E-08	0.00E+00	6.02E-08	9.48E-09	1.60E-08	0.00E+00	2.55E-08
3580	600182.4	4175400	1.05E-07	2.63E-07	0.00E+00	3.68E-07	1.05E-07	2.63E-07	0.00E+00	3.68E-07	1.72E-08	3.97E-08	0.00E+00	5.69E-08	8.96E-09	1.51E-08	0.00E+00	2.41E-08
3581	600191	4175404	9.9E-08	2.46E-07	0.00E+00	3.45E-07	9.90E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.73E-08	0.00E+00	5.34E-08	8.40E-09	1.42E-08	0.00E+00	2.26E-08
3582	600199.7	4175408	9.24E-08	2.30E-07	0.00E+00	3.22E-07	9.24E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.85E-09	1.33E-08	0.00E+00	2.11E-08
3583	600208.3	4175412	8.76E-08	2.18E-07	0.00E+00	3.06E-07	8.76E-08	2.18E-07	0.00E+00	3.06E-07	1.43E-08	3.30E-08	0.00E+00	4.72E-08	7.44E-09	1.26E-08	0.00E+00	2.00E-08
3584	599749.7	4175208	7.11E-08	1.77E-07	0.00E+00	2.48E-07	7.11E-08	1.77E-07	0.00E+00	2.48E-07	1.16E-08	2.68E-08	0.00E+00	3.83E-08	6.04E-09	1.02E-08	0.00E+00	1.62E-08
3585	599740.2	4175208	6.9E-08	1.72E-07	0.00E+00	2.41E-07	6.90E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.72E-08	5.86E-09	9.90E-09	0.00E+00	1.58E-08
3586	599730.7	4175207	6.69E-08	1.66E-07	0.00E+00	2.33E-07	6.69E-08	1.66E-07	0.00E+00	2.33E-07	1.09E-08	2.52E-08	0.00E+00	3.60E-08	5.68E-09	9.59E-09	0.00E+00	1.53E-08
3587	599721.1	4175207	6.48E-08	1.61E-07	0.00E+00	2.26E-07	6.48E-08	1.61E-07	0.00E+00	2.26E-07	1.05E-08	2.44E-08	0.00E+00	3.50E-08	5.51E-09	9.30E-09	0.00E+00	1.48E-08
3588	599711.6	4175206	6.3E-08	1.57E-07	0.00E+00	2.20E-07	6.30E-08	1.57E-07	0.00E+00	2.20E-07	1.02E-08	2.37E-08	0.00E+00	3.40E-08	5.35E-09	9.04E-09	0.00E+00	1.44E-08
3589	599702.1	4175206	6.11E-08	1.52E-07	0.00E+00	2.13E-07	6.11E-08	1.52E-07	0.00E+00	2.13E-07	9.93E-09	2.30E-08	0.00E+00	3.29E-08	5.19E-09	8.76E-09	0.00E+00	1.39E-08
3590	599692.6	4175205	5.97E-08	1.49E-07	0.00E+00	2.08E-07	5.97E-08	1.49E-07	0.00E+00	2.08E-07	9.72E-09	2.25E-08	0.00E+00	3.22E-08	5.07E-09	8.57E-09	0.00E+00	1.36E-08
3591	599759.3	4175192	7.46E-08	1.86E-07	0.00E+00	2.60E-07	7.46E-08	1.86E-07	0.00E+00	2.60E-07	1.21E-08	2.81E-08	0.00E+00	4.02E-08	6.33E-09	1.07E-08	0.00E+00	1.70E-08
3592	599767.9	4175196	7.74E-08	1.93E-07	0.00E+00	2.70E-07	7.74E-08	1.93E-07	0.00E+00	2.70E-07	1.26E-08	2.91E-08	0.00E+00	4.17E-08	6.57E-09	1.11E-08	0.00E+00	1.77E-08
3593	599776.4	4175200	8.01E-08	1.99E-07	0.00E+00	2.79E-07	8.01E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.32E-08	6.80E-09	1.15E-08	0.00E+00	1.83E-08
3594	599785	4175203	8.29E-08	2.06E-07	0.00E+00	2.89E-07	8.29E-08	2.06E-07	0.00E+00	2.89E-07	1.35E-08	3.12E-08	0.00E+00	4.47E-08	7.04E-09	1.19E-08	0.00E+00	1.89E-08
3595	599793.6	4175207	8.65E-08	2.15E-07	0.00E+00	3.02E-07	8.65E-08	2.15E-07	0.00E+00	3.02E-07	1.41E-08	3.26E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.98E-08
3596	599802.2	4175211	8.95E-08	2.23E-07	0.00E+00	3.12E-07	8.95E-08	2.23E-07	0.00E+00	3.12E-07	1.46E-08	3.37E-08	0.00E+00	4.83E-08	7.60E-09	1.28E-08	0.00E+00	2.04E-08
3597	599810.8	4175215	9.2E-08	2.29E-07	0.00E+00	3.21E-07	9.20E-08	2.29E-07	0.00E+00	3.21E-07	1.50E-08	3.46E-08	0.00E+00	4.96E-08	7.81E-09	1.32E-08	0.00E+00	2.10E-08
3598	599819.4	4175219	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.32E-08	0.00E+00	2.11E-08
3599	599828	4175223	9.13E-08	2.27E-07	0.00E+00	3.19E-07	9.13E-08	2.27E-07	0.00E+00	3.19E-07	1.49E-08	3.44E-08	0.00E+00	4.92E-08	7.75E-09	1.31E-08	0.00E+00	2.09E-08
3600	599836.6	4175226	8.99E-08	2.24E-07	0.00E+00	3.14E-07	8.99E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.38E-08	0.00E+00	4.85E-08	7.63E-09	1.29E-08	0.00E+00	2.05E-08
3601	599845.2	4175230	8.78E-08	2.19E-07	0.00E+00	3.06E-07	8.78E-08	2.19E-07	0.00E+00	3.06E-07	1.43E-08	3.31E-08	0.00E+00	4.73E-08	7.46E-09	1.26E-08	0.00E+00	2.01E-08
3602	599853.8	4175234	8.71E-08	2.17E-07	0.00E+00	3.04E-07	8.71E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.69E-08	7.39E-09	1.25E-08	0.00E+00	1.99E-08
3603	599862.4	4175238	8.71E-08	2.17E-07	0.00E+00	3.04E-07	8.71E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.70E-08	7.40E-09	1.25E-08	0.00E+00	1.99E-08
3604	599871	4175242	8.85E-08	2.20E-07	0.00E+00	3.09E-07	8.85E-08	2.20E-07	0.00E+00	3.09E-07	1.44E-08	3.33E-08	0.00E+00	4.77E-08	7.51E-09	1.27E-08	0.00E+00	2.02E-08
3605	599879.6	4175245	9.15E-08	2.28E-07	0.00E+00	3.19E-07	9.15E-08	2.28E-07	0.00E+00	3.19E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.77E-09	1.31E-08	0.00E+00	2.09E-08
3606	599888.2	4175249	9.49E-08	2.36E-07	0.00E+00	3.31E-07	9.49E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.12E-08	8.06E-09	1.36E-08	0.00E+00	2.17E-08
3607	599896.8	4175253	9.73E-08	2.42E-07	0.00E+00	3.40E-07	9.73E-08	2.42E-07	0.00E+00	3.40E-07	1.58E-08	3.66E-08	0.00E+00	5.25E-08	8.26E-09	1.40E-08	0.00E+00	2.22E-08
3608	599905.4	4175257	1.01E-07	2.50E-07	0.00E+00	3.51E-07	1.01E-07	2.50E-07	0.00E+00	3.51E-07	1.64E-08	3.79E-08	0.00E+00	5.42E-08	8.54E-09	1.44E-08	0.00E+00	2.30E-08
3609	599914	4175261	1.04E-07	2.59E-07	0.00E+00	3.64E-07	1.04E-07	2.59E-07	0.00E+00	3.64E-07	1.69E-08	3.92E-08	0.00E+00	5.62E-08	8.85E-09	1.50E-08	0.00E+00	2.38E-08
3610	599922.6	4175265	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.74E-08	4.04E-08	0.00E+00	5.78E-08	9.10E-09	1.54E-08	0.00E+00	2.45E-08
3611	599931.2	4175268	1.1E-07	2.74E-07	0.00E+00	3.83E-07	1.10E-07	2.74E-07	0.00E+00	3.83E-07	1.79E-08	4.14E-08	0.00E+00	5.92E-08	9.33E-09	1.58E-08	0.00E+00	2.51E-08
3612	599939.8	4175272	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.81E-08	4.18E-08	0.00E+00	5.98E-08	9.42E-09	1.59E-08	0.00E+00	2.53E-08
3613	599948.3	4175276	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.19E-08	0.00E+00	6.00E-08	9.45E-09	1.60E-08	0.00E+00	2.54E-08
3614	599956.9	4175280	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.11E-07	2.77E-07	0.00E+00	3.89E-07	1.81E-08	4.19E-08	0.00E+00	6.00E-08	9.45E-09	1.60E-08	0.00E+00	2.54E-08
3615	599965.5	4175284	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.81E-08	4.18E-08	0.00E+00	5.98E-08	9.43E-09	1.59E-08	0.00E+00	2.54E-08
3616	599974.1	4175287	1.1E-07	2.74E-07	0.00E+00	3.84E-07	1.10E-07	2.74E-07	0.00E+00	3.84E-07	1.79E-08	4.15E-08	0.00E+00	5.94E-08	9.35E-09	1.58E-08	0.00E+00	2.52E-08
3617	599982.7	4175291	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.89E-08	9.27E-09	1.57E-08	0.00E+00	2.49E-08
3618	599991.3	4175295	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.76E-08	4.07E-08	0.00E+00	5.82E-08	9.17E-09	1.55E-08	0.00E+00	2.47E-08
3619	599999.9	4175299	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.19E-09	1.55E-08	0.00E+00	2.47E-08
3620	600008.5	4175303	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.77E-08	4.10E-08	0.00E+00	5.87E-08	9.24E-09	1.56E-08	0.00E+00	2.49E-08
3621	600017.1	4175307	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.88E-08	9.27E-09	1.57E-08	0.00E+00	2.49E-08
3622	600025.7	4175310	1.09E-07	2.72E-07	0.00E+00	3.82E-07	1.09E-07	2.72E-07	0.00E+00	3.82E-07	1.78E-08	4.12E-08	0.00E+00	5.90E-08	9.29E-09	1.57E-08	0.00E+00	2.50E-08
3623	600034.3	4175314	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.19E-08	0.00E+00	5.99E-08	9.44E-09	1.60E-08	0.00E+00	2.54E-08
3624	600042.9	4175318	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.84E-08	4.26E-08	0.00E+00	6.10E-08	9.60E-09	1.62E-08	0.00E+00	2.58E-08
3625	600051.5	4175322	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.33E-08	0.00E+00	6.21E-08	9.77E-09	1.65E-08	0.00E+00	2.63E-08
3626	600060.1	4175326	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.91E-08	4.41E-08	0.00E+00	6.32E-08	9.95E-09	1.68E-08	0.00E+00	2.68E-08
3627	600068.7	4175329	1.2E-07	2.98E-07	0.00E+00	4.18E-07	1.20E-07	2.98E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.46E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08

3628	600077.3	4175333	1.23E-07	3.05E-07	0.00E+00	4.28E-07	1.23E-07	3.05E-07	0.00E+00	4.28E-07	2.00E-08	4.62E-08	0.00E+00	6.61E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
3629	600085.9	4175337	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.71E-08	0.00E+00	6.74E-08	1.06E-08	1.79E-08	0.00E+00	2.86E-08
3630	600094.5	4175341	1.27E-07	3.15E-07	0.00E+00	4.42E-07	1.27E-07	3.15E-07	0.00E+00	4.42E-07	2.06E-08	4.77E-08	0.00E+00	6.83E-08	1.08E-08	1.82E-08	0.00E+00	2.89E-08
3631	600103.1	4175345	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
3632	600111.7	4175349	1.32E-07	3.29E-07	0.00E+00	4.61E-07	1.32E-07	3.29E-07	0.00E+00	4.61E-07	2.15E-08	4.97E-08	0.00E+00	7.12E-08	1.12E-08	1.90E-08	0.00E+00	3.02E-08
3633	600120.2	4175352	1.34E-07	3.33E-07	0.00E+00	4.67E-07	1.34E-07	3.33E-07	0.00E+00	4.67E-07	2.18E-08	5.04E-08	0.00E+00	7.22E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
3634	600128.8	4175356	1.35E-07	3.37E-07	0.00E+00	4.73E-07	1.35E-07	3.37E-07	0.00E+00	4.73E-07	2.20E-08	5.10E-08	0.00E+00	7.30E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
3635	600137.4	4175360	1.36E-07	3.39E-07	0.00E+00	4.76E-07	1.36E-07	3.39E-07	0.00E+00	4.76E-07	2.22E-08	5.13E-08	0.00E+00	7.35E-08	1.16E-08	1.96E-08	0.00E+00	3.11E-08
3636	600146	4175364	1.35E-07	3.37E-07	0.00E+00	4.72E-07	1.35E-07	3.37E-07	0.00E+00	4.72E-07	2.20E-08	5.09E-08	0.00E+00	7.29E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
3637	600154.6	4175368	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
3638	600163.2	4175371	1.22E-07	3.04E-07	0.00E+00	4.27E-07	1.22E-07	3.04E-07	0.00E+00	4.27E-07	1.99E-08	4.60E-08	0.00E+00	6.59E-08	1.04E-08	1.75E-08	0.00E+00	2.79E-08
3639	600171.8	4175375	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.34E-08	0.00E+00	6.21E-08	9.78E-09	1.65E-08	0.00E+00	2.63E-08
3640	600180.4	4175379	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.89E-08	9.27E-09	1.57E-08	0.00E+00	2.49E-08
3641	600189	4175383	1.03E-07	2.55E-07	0.00E+00	3.58E-07	1.03E-07	2.55E-07	0.00E+00	3.58E-07	1.67E-08	3.86E-08	0.00E+00	5.53E-08	8.71E-09	1.47E-08	0.00E+00	2.34E-08
3642	600197.6	4175387	9.58E-08	2.39E-07	0.00E+00	3.34E-07	9.58E-08	2.39E-07	0.00E+00	3.34E-07	1.56E-08	3.61E-08	0.00E+00	5.16E-08	8.13E-09	1.37E-08	0.00E+00	2.19E-08
3643	600206.2	4175391	9.2E-08	2.29E-07	0.00E+00	3.21E-07	9.20E-08	2.29E-07	0.00E+00	3.21E-07	1.50E-08	3.47E-08	0.00E+00	4.96E-08	7.81E-09	1.32E-08	0.00E+00	2.10E-08
3644	600214.8	4175394	9.05E-08	2.25E-07	0.00E+00	3.16E-07	9.05E-08	2.25E-07	0.00E+00	3.16E-07	1.47E-08	3.41E-08	0.00E+00	4.88E-08	7.68E-09	1.30E-08	0.00E+00	2.07E-08
3645	600223.4	4175398	8.81E-08	2.19E-07	0.00E+00	3.07E-07	8.81E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.32E-08	0.00E+00	4.75E-08	7.48E-09	1.26E-08	0.00E+00	2.01E-08
3646	599750.7	4175188	7.18E-08	1.79E-07	0.00E+00	2.51E-07	7.18E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.70E-08	0.00E+00	3.87E-08	6.10E-09	1.03E-08	0.00E+00	1.64E-08
3647	599741.1	4175188	6.9E-08	1.72E-07	0.00E+00	2.41E-07	6.90E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.72E-08	5.86E-09	9.91E-09	0.00E+00	1.58E-08
3648	599731.6	4175187	6.61E-08	1.65E-07	0.00E+00	2.31E-07	6.61E-08	1.65E-07	0.00E+00	2.31E-07	1.08E-08	2.49E-08	0.00E+00	3.57E-08	5.62E-09	9.49E-09	0.00E+00	1.51E-08
3649	599722.1	4175187	6.37E-08	1.59E-07	0.00E+00	2.22E-07	6.37E-08	1.59E-07	0.00E+00	2.22E-07	1.04E-08	2.40E-08	0.00E+00	3.43E-08	5.41E-09	9.14E-09	0.00E+00	1.45E-08
3650	599712.6	4175186	6.37E-08	1.59E-07	0.00E+00	2.22E-07	6.37E-08	1.59E-07	0.00E+00	2.22E-07	1.04E-08	2.40E-08	0.00E+00	3.43E-08	5.40E-09	9.13E-09	0.00E+00	1.45E-08
3651	599703	4175186	6.37E-08	1.59E-07	0.00E+00	2.22E-07	6.37E-08	1.59E-07	0.00E+00	2.22E-07	1.04E-08	2.40E-08	0.00E+00	3.44E-08	5.41E-09	9.15E-09	0.00E+00	1.46E-08
3652	599693.5	4175185	6.39E-08	1.59E-07	0.00E+00	2.23E-07	6.39E-08	1.59E-07	0.00E+00	2.23E-07	1.04E-08	2.41E-08	0.00E+00	3.45E-08	5.43E-09	9.17E-09	0.00E+00	1.46E-08
3653	599760.3	4175172	7.58E-08	1.89E-07	0.00E+00	2.64E-07	7.58E-08	1.89E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.43E-09	1.09E-08	0.00E+00	1.73E-08
3654	599768.9	4175176	7.85E-08	1.96E-07	0.00E+00	2.74E-07	7.85E-08	1.96E-07	0.00E+00	2.74E-07	1.28E-08	2.96E-08	0.00E+00	4.23E-08	6.67E-09	1.13E-08	0.00E+00	1.79E-08
3655	599777.6	4175180	8.12E-08	2.02E-07	0.00E+00	2.83E-07	8.12E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.06E-08	0.00E+00	4.38E-08	6.90E-09	1.17E-08	0.00E+00	1.85E-08
3656	599786.3	4175184	8.41E-08	2.09E-07	0.00E+00	2.94E-07	8.41E-08	2.09E-07	0.00E+00	2.94E-07	1.37E-08	3.17E-08	0.00E+00	4.54E-08	7.14E-09	1.21E-08	0.00E+00	1.92E-08
3657	599794.9	4175187	8.77E-08	2.18E-07	0.00E+00	3.06E-07	8.77E-08	2.18E-07	0.00E+00	3.06E-07	1.43E-08	3.30E-08	0.00E+00	4.73E-08	7.45E-09	1.26E-08	0.00E+00	2.00E-08
3658	599803.6	4175191	8.99E-08	2.24E-07	0.00E+00	3.14E-07	8.99E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.39E-08	0.00E+00	4.85E-08	7.64E-09	1.29E-08	0.00E+00	2.05E-08
3659	599812.2	4175195	9.28E-08	2.31E-07	0.00E+00	3.24E-07	9.28E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.50E-08	0.00E+00	5.01E-08	7.88E-09	1.33E-08	0.00E+00	2.12E-08
3660	599820.9	4175199	9.49E-08	2.36E-07	0.00E+00	3.31E-07	9.49E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.11E-08	8.05E-09	1.36E-08	0.00E+00	2.17E-08
3661	599829.6	4175203	9.52E-08	2.37E-07	0.00E+00	3.32E-07	9.52E-08	2.37E-07	0.00E+00	3.32E-07	1.55E-08	3.59E-08	0.00E+00	5.14E-08	8.09E-09	1.37E-08	0.00E+00	2.18E-08
3662	599838.2	4175207	9.54E-08	2.37E-07	0.00E+00	3.33E-07	9.54E-08	2.37E-07	0.00E+00	3.33E-07	1.55E-08	3.59E-08	0.00E+00	5.14E-08	8.10E-09	1.37E-08	0.00E+00	2.18E-08
3663	599846.9	4175211	9.38E-08	2.34E-07	0.00E+00	3.27E-07	9.38E-08	2.34E-07	0.00E+00	3.27E-07	1.53E-08	3.53E-08	0.00E+00	5.06E-08	7.97E-09	1.35E-08	0.00E+00	2.14E-08
3664	599855.5	4175214	9.14E-08	2.28E-07	0.00E+00	3.19E-07	9.14E-08	2.28E-07	0.00E+00	3.19E-07	1.49E-08	3.44E-08	0.00E+00	4.93E-08	7.76E-09	1.31E-08	0.00E+00	2.09E-08
3665	599864.2	4175218	8.95E-08	2.23E-07	0.00E+00	3.12E-07	8.95E-08	2.23E-07	0.00E+00	3.12E-07	1.46E-08	3.37E-08	0.00E+00	4.82E-08	7.60E-09	1.28E-08	0.00E+00	2.04E-08
3666	599872.9	4175222	8.81E-08	2.19E-07	0.00E+00	3.08E-07	8.81E-08	2.19E-07	0.00E+00	3.08E-07	1.43E-08	3.32E-08	0.00E+00	4.75E-08	7.48E-09	1.26E-08	0.00E+00	2.01E-08
3667	599881.5	4175226	8.92E-08	2.22E-07	0.00E+00	3.11E-07	8.92E-08	2.22E-07	0.00E+00	3.11E-07	1.45E-08	3.36E-08	0.00E+00	4.81E-08	7.57E-09	1.28E-08	0.00E+00	2.04E-08
3668	599890.2	4175230	9.12E-08	2.27E-07	0.00E+00	3.18E-07	9.12E-08	2.27E-07	0.00E+00	3.18E-07	1.48E-08	3.43E-08	0.00E+00	4.92E-08	7.74E-09	1.31E-08	0.00E+00	2.08E-08
3669	599898.8	4175234	9.39E-08	2.34E-07	0.00E+00	3.28E-07	9.39E-08	2.34E-07	0.00E+00	3.28E-07	1.53E-08	3.53E-08	0.00E+00	5.06E-08	7.97E-09	1.35E-08	0.00E+00	2.14E-08
3670	599907.5	4175237	9.7E-08	2.42E-07	0.00E+00	3.39E-07	9.70E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.65E-08	0.00E+00	5.23E-08	8.24E-09	1.39E-08	0.00E+00	2.22E-08
3671	599916.2	4175241	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.64E-08	3.80E-08	0.00E+00	5.45E-08	8.58E-09	1.45E-08	0.00E+00	2.31E-08
3672	599924.8	4175245	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.70E-08	3.93E-08	0.00E+00	5.62E-08	8.85E-09	1.50E-08	0.00E+00	2.38E-08
3673	599933.5	4175249	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.07E-09	1.53E-08	0.00E+00	2.44E-08
3674	599942.1	4175253	1.08E-07	2.68E-07	0.00E+00	3.75E-07	1.08E-07	2.68E-07	0.00E+00	3.75E-07	1.75E-08	4.05E-08	0.00E+00	5.80E-08	9.13E-09	1.54E-08	0.00E+00	2.46E-08
3675	599950.8	4175257	1.08E-07	2.69E-07	0.00E+00	3.78E-07	1.08E-07	2.69E-07	0.00E+00	3.78E-07	1.76E-08	4.07E-08	0.00E+00	5.83E-08	9.19E-09	1.55E-08	0.00E+00	2.47E-08
3676	599959.5	4175261	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.77E-08	4.10E-08	0.00E+00	5.87E-08	9.25E-09	1.56E-08	0.00E+00	2.49E-08
3677	599968.1	4175264	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.89E-08	9.27E-09	1.57E-08	0.00E+00	2.49E-08
3678	599976.8	4175268	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.09E-07	2.71E-07	0.00E+00	3.80E-07	1.77E-08	4.10E-08	0.00E+00	5.87E-08	9.24E-09	1.56E-08	0.00E+00	2.49E-08
3679	599985.4	4175272	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.20E-09	1.56E-08	0.00E+00	2.48E-08
3680	599994.1	4175276	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.76E-08	4.06E-08	0.00E+00	5.82E-08	9.17E-09	1.55E-08	0.00E+00	2.47E-08
3681	600002.8	4175280	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.88E-08	9.26E-09	1.57E-08	0.00E+00	2.49E-08
3682	600011.4	4175284	1.1E-07	2.75E-07	0.00E+00	3.86E-07	1.10E-07	2.75E-07	0.00E+00	3.86E-07	1.80E-08	4.16E-08	0.00E+00	5.96E-08	9.38E-09	1.59E-08	0.00E+00	2.52E-08
3683	600020.1	4175287	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.22E-08	0.00E+00	6.05E-08	9.52E-09	1.61E-08	0.00E+00	2.56E-08
3684	600028.7	4175291	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.86E-08	4.30E-08	0.00E+00	6.15E-08	9.69E-09	1.64E-08	0.00E+00	2.61E-08
3685	600037.4	4175295	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.31E-08	9.93E-09	1.68E-08	0.00E+00	2.67E-08
3686	600046.1	4175299	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.49E-08	0.00E+00	6.43E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
3687	600054.7	4175303	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.21E-07	3.02E-07	0.00E+00	4.23E-07	1.97E-08	4.57E-08	0.00E+00	6.54E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
3688	600063.4	4175307	1.23E-07	3.05E-07	0.00E+00	4.28E-07	1.23E-07	3.05E-07	0.00E+00	4.28E-07	2.00E-08	4.62E-08	0.00E+00	6.62E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
3689	600072	4175311	1.25E-07	3.10E-07	0.00E+00	4.34E-07	1.25E-07	3.10E-07	0.00E+00	4.34E-07	2.03E-08	4.69E-08	0.00E+00	6.71E-08	1.06E-08	1.79E-08	0.00E+00	2.84E-08
3690	600080.7	4175314	1.27E-07	3.16E-07	0.00E+00	4.42E-07	1.27E-07	3.16E-07	0.00E+00	4.42E-07	2.06E-08	4.77E-08	0.00E+00	6.83E-08	1.08E-08	1.82E-08	0.00E+00	2.89E-08
3691	600089.4	4175318	1.28E-07	3.18E-07	0.00E+00	4.46E-07	1.28E-07	3.18E-07	0.00E+00	4.46E-07	2.08E-08	4.81E-08	0.00E+00	6.89E-08	1.09E-08	1.83E-08	0.00E+00	2.92E-08
3692	600098	4175322	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.86E-08	0.00E+00	6.96E-08	1.10E-08	1.85E-08	0.00E+00	2.95E-08
3693	600106.7	4175326	1.31E-07	3.27E-07	0.00E+00	4.59E-07	1.31E-07	3.27E-07	0.00E+00	4.59E-07	2.14E-08	4.95E-08	0.00E+00	7.09E-08	1.12E-08	1.89E-08	0.00E+00	3.00E-08
3694	600115.3	4175330	1.33E-07	3.31E-07	0.00E+00	4.64E-07	1.33E-07	3.31E-07	0.00E+00	4.64E-07	2.16E-08	5.01E-08	0.00E+00	7.17E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
3695	600124	4175334	1.34E-07	3.34E-07	0.00E+00	4.67E-07	1.34E-07	3.34E-07	0.00E+00	4.67E-07	2.18E-08	5.04E-08	0.00E+00	7.22E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
3696	600132.7	4175337	1.35E-07	3.36E-07	0.00E+00	4.71E-07	1.35E-07	3.36E-07	0.00E+00	4.71E-07	2.20E-08	5.08E-08	0.00E+00	7.28E-08	1.15E-08	1.94E-08	0.00E+00	3.08E-08
3697	600141.3	4175341	1.36E-07	3.40E-07	0.00E+00	4.76E-07	1.36E-07	3.40E-07	0.00E+00	4.76E-07	2.22E-08	5.14E-08	0.00E+00	7.36E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
3698	600150	4175345	1.35E-07	3.37E-07	0.00E+00	4.73E-07	1.35E-07	3.37E-07	0.00E+00	4.73E-07	2.20E-08	5.10E-08	0.00E+00	7.30E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
3699	600158.6	4175349	1.32E-07	3.29E-07	0.00E+00	4.61E-07	1.32E-07	3.29E-07	0.00E+00	4.61E-07	2.15E-08	4.98E-08	0.00E+00	7.13E-08	1.12E-08	1.90E-08	0.00E+00	3.02E-08
3700	600167.3	4175353	1.27E-07	3.17E-07	0.00E+00	4.44E-07	1.27E-07	3.17E-07	0.00E+00	4.44E-07	2.07E-08	4.79E-08	0.00E+00	6.86E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
3701	600176	4175357	1.22E-07	3.04E-07	0.00E+00	4.25E-07	1.22E-07	3.04E-07	0.00E+00	4.25E-07	1.98E-08	4.59E-08	0.00E+00	6.57E-08	1.04E-08	1.75E-08	0.00E+00	2.78E-08
3702	600184.6	4175361	1.2E-07	2.98E-07	0.00E+00	4.17E-07	1.20E-07	2.98E-07	0.00E+00	4.17E-07	1.94E-08	4.50E-08	0.00E+00	6.45E-08	1.01E-08	1.72E-08	0.00E+00	2.73E-08
3703	600193.3	4175364	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.82E-09	1.66E-08	0.00E+00	2.64E-08
3704	600201.9	4175368	1.1E-07	2.75E-07	0.00E+00	3.86E-07	1.10E-07	2.75E-07	0.00E+00	3.86E-07	1.80E-08	4.16E-08	0.00E+00	5.96E-08	9.38E-09	1.59E-08	0.00E+00	2.52E-08
3705	600210.6	4175372	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.03E-08	0.00E+00	5.77E-08	9.08E-09	1.54E-08	0.00E+00	2.44E-08
3706	600219.3	4175376	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.69E-08	3.91E-08	0.00E+00	5.60E-08	8.81E-09	1.49E-08	0.00E+00	2.37E-08
3707	600227.9	4175380	1E-07	2.50E-07	0.00E+00	3.50E-07	1.00E-07	2.50E-07	0.00E+00	3.50E-07	1.63E-08	3.78E-08	0.00E+00	5.41E-08	8.52E-09	1.44E-08	0.00E+00	2.29E-08
3708	600236.6	4175384	9.7E-08	2.42E-07	0.00E+00	3.39E-07	9.70E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.65E-08	0.00E+00	5.23E-08	8.24E-09	1.39E-08	0.00E+00	2.22E-08
3709	600245.2	4175387	9.55E-08	2.38E-07	0.00E+00	3.33E-07	9.55E-08	2.38E-07	0.00E+00	3.33E-07	1.55E-08	3.60E-08	0.00E+00	5.15E-08	8.11E-09	1.37E-08	0.00E+00	2.18E-08
3710	600253.9	4175391	9.47E-08	2.36E-07	0.00E+00	3.31E-07	9.47E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.11E-08	8.04E-09	1.36E-08	0.00E+00	2.16E-08
3711	600340.5	4175430	7.8E-08	1.94E-07	0.00E+00	2.72E-07	7.80E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.94E-08	0.00E+00	4.20E-08	6.62E-09	1.12E-08	0.00E+00	1.78E-08
3712	600349.2	4175434	7.77E-08	1.94E-07	0.00E+00	2.71E-07	7.77E-08	1.94E-07	0.00E+00	2.71E-07	1.26E-08	2.93E-08	0.00E+00	4.19E-08	6.60E-09	1.12E-08	0.00E+00	1.78E-08
3713	600357.8	4175438	7.79E-08	1.94E-07	0.00E+00	2.72E-07	7.79E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.93E-08	0.00E+00	4.20E-08	6.61E-09	1.12E-08	0.00E+00	1.78E-08
3714	600370.3	4175450	7.76E-08	1.93E-07	0.00E+00	2.71E-07	7.76E-08	1.93E-07	0.00E+00	2.71E-07	1.26E-08	2.92E-08	0.00E+00	4.18E-08	6.59E-09	1.11E-08	0.00E+00	1.77E-08
3715	599751.6	4175168	7.31E-08	1.82E-07	0.00E+00	2.55E-07	7.31E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.94E-08	6.21E-09	1.05E-08	0.00E+00	1.67E-08
3716	599742.1	4175168	7.06E-08	1.76E-07	0.00E+00	2.46E-07	7.06E-08	1.76E-07	0.00E+00	2.46E-07	1.15E-08	2.66E-08	0.00E+00	3.80E-08	5.99E-09	1.01E-08	0.00E+00	1.61E-08
3717	599732.6	4175167	6.73E-08	1.68E-07	0.00E+00	2.35E-07	6.73E-08	1.68E-07	0.00E+00	2.35E-07	1.09E-08	2.53E-08	0.00E+00	3.63E-08	5.71E-09	9.66E-09	0.00E+00	1.54E-08
3718	599723	4175167	6.54E-08	1.63E-07	0.00E+00	2.28E-07	6.54E-08	1.63E-07	0.00E+00	2.28E-07	1.06E-08	2.46E-08	0.00E+00	3.52E-08	5.55E-09	9.38E-09	0.00E+00	1.49E-08
3719	599713.5	4175166	6.66E-08	1.66E-07	0.00E+00	2.33E-07	6.66E-08	1.66E-07	0.00E+00	2.33E-07	1.08E-08	2.51E-08	0.00E+00	3.59E-08	5.66E-09	9.56E-09	0.00E+00	1.52E-08
3720	599704	4175166	6.72E-08	1.67E-07	0.00E+00	2.35E-07	6.72E-08	1.67E-07	0.00E+00	2.35E-07	1.09E-08	2.53E-08	0.00E+00	3.63E-08	5.71E-09	9.65E-09	0.00E+00	1.54E-08
3721	599694.5	4175165	6.79E-08	1.69E-07	0.00E+00	2.37E-07	6.79E-08	1.69E-07	0.00E+00	2.37E-07	1.10E-08	2.56E-08	0.00E+00	3.66E-08	5.76E-09	9.74E-09	0.00E+00	1.55E-08
3722	599666.2	4175225	7.37E-08	1.84E-07	0.00E+00	2.57E-07	7.37E-08	1.84E-07	0.00E+00	2.57E-07	1.20E-08	2.78E-08	0.00E+00	3.98E-08	6.26E-09	1.06E-08	0.00E+00	1.68E-08
3723	599666.6	4175205	6.27E-08	1.56E-07	0.00E+00	2.19E-07	6.27E-08	1.56E-07	0.00E+00	2.19E-07	1.02E-08	2.36E-08	0.00E+00	3.38E-08	5.33E-09	9.00E-09	0.00E+00	1.43E-08
3724	599666.9	4175185	6.43E-08	1.60E-07	0.00E+00	2.24E-07	6.43E-08	1.60E-07	0.00E+00	2.24E-07	1.05E-08	2.42E-08	0.00E+00	3.47E-08	5.46E-09	9.22E-09	0.00E+00	1.47E-08
3725	599649.1	4175184	7.38E-08	1.84E-07	0.00E+00	2.57E-07	7.38E-08	1.84E-07	0.00E+00	2.57E-07	1.20E-08	2.78E-08	0.00E+00	3.98E-08	6.26E-09	1.06E-08	0.00E+00	1.68E-08
3726	599665.5	4175165	6.85E-08	1.71E-07	0.00E+00	2.39E-07	6.85E-08	1.71E-07	0.00E+00	2.39E-07	1.11E-08	2.58E-08	0.00E+00	3.70E-08	5.82E-09	9.84E-09	0.00E+00	1.57E-08
3727	599680	4175165	6.82E-08	1.70E-07	0.00E+00	2.38E-07	6.82E-08	1.70E-07	0.00E+00	2.38E-07	1.11E-08	2.57E-08	0.00E+00	3.68E-08	5.79E-09	9.79E-09	0.00E+00	1.56E-08
3728	599649.3	4175164	7.42E-08	1.85E-07	0.00E+00	2.59E-07	7.42E-08	1.85E-07	0.00E+00	2.59E-07	1.21E-08	2.79E-08	0.00E+00	4.00E-08	6.30E-09	1.06E-08	0.00E+00	1.69E-08
3729	599561.8	4175935	2.34E-06	5.82E-06	0.00E+00	8.15E-06	2.34E-06	5.82E-06	0.00E+00	8.15E-06	3.80E-07	8.79E-07	0.00E+00	1.26E-06	1.98E-07	3.35E-07	0.00E+00	5.33E-07
3730	599561.3	4175925	2.08E-06	5.17E-06	0.00E+00	7.25E-06	2.08E-06	5.17E-06	0.00E+00	7.25E-06	3.38E-07	7.82E-07	0.00E+00	1.12E-06	1.76E-07	2.98E-07	0.00E+00	4.74E-07
3731	599560.9	4175915	1.87E-06	4.66E-06	0.00E+00	6.53E-06	1.87E-06	4.66E-06	0.00E+00	6.53E-06	3.05E-07	7.05E-07	0.00E+00	1.01E-06	1.59E-07	2.69E-07	0.00E+00	4.28E-07
3732	599560.4	4175905	1.7E-06	4.24E-06	0.00E+00	5.94E-06	1.70E-06	4.24E-06	0.00E+00	5.94E-06	2.77E-07	6.41E-07	0.00E+00	9.18E-07	1.45E-07	2.44E-07	0.00E+00	3.89E-07
3733	599560	4175895	1.56E-06	3.88E-06	0.00E+00	5.44E-06	1.56E-06	3.88E-06	0.00E+00	5.44E-06	2.53E-07	5.86E-07	0.00E+00	8.40E-07	1.32E-07	2.24E-07	0.00E+00	3.56E-07
3734	599559.6	4175885	1.42E-06	3.53E-06	0.00E+00	4.95E-06	1.42E-06	3.53E-06	0.00E+00	4.95E-06	2.31E-07	5.34E-07	0.00E+00	7.65E-07	1.21E-07	2.04E-07	0.00E+00	3.24E-07
3735	599559.1	4175875	1.3E-06	3.24E-06	0.00E+00	4.54E-06	1.30E-06	3.24E-06	0.00E+00	4.54E-06	2.12E-07	4.90E-07	0.00E+00	7.01E-07	1.10E-07	1.87E-07	0.00E+00	2.97E-07
3736	599558.7	4175865	1.2E-06	2.98E-06	0.00E+00	4.18E-06	1.20E-06	2.98E-06	0.00E+00	4.18E-06	1.95E-07	4.51E-07	0.00E+00	6.46E-07	1.02E-07	1.72E-07	0.00E+00	2.74E-07
3737	599558.2	4175855	1.11E-06	2.77E-06	0.00E+00	3.89E-06	1.11E-06	2.77E-06	0.00E+00	3.89E-06	1.81E-07	4.19E-07	0.00E+00	6.00E-07	9.45E-08	1.60E-07	0.00E+00	2.54E-07

3738	599557.8	4175845	1.04E-06	2.58E-06	0.00E+00	3.62E-06	1.04E-06	2.58E-06	0.00E+00	3.62E-06	1.69E-07	3.91E-07	0.00E+00	5.60E-07	8.81E-08	1.49E-07	0.00E+00	2.37E-07
3739	599557.4	4175835	9.7E-07	2.42E-06	0.00E+00	3.39E-06	9.70E-07	2.42E-06	0.00E+00	3.39E-06	1.58E-07	3.65E-07	0.00E+00	5.23E-07	8.24E-08	1.39E-07	0.00E+00	2.22E-07
3740	599556.9	4175825	9.11E-07	2.27E-06	0.00E+00	3.18E-06	9.11E-07	2.27E-06	0.00E+00	3.18E-06	1.48E-07	3.43E-07	0.00E+00	4.91E-07	7.73E-08	1.31E-07	0.00E+00	2.08E-07
3741	599556.5	4175815	8.56E-07	2.13E-06	0.00E+00	2.99E-06	8.56E-07	2.13E-06	0.00E+00	2.99E-06	1.39E-07	3.22E-07	0.00E+00	4.62E-07	7.27E-08	1.23E-07	0.00E+00	1.96E-07
3742	599556	4175805	8.06E-07	2.01E-06	0.00E+00	2.81E-06	8.06E-07	2.01E-06	0.00E+00	2.81E-06	1.31E-07	3.03E-07	0.00E+00	4.35E-07	6.84E-08	1.16E-07	0.00E+00	1.84E-07
3743	599555.6	4175795	7.56E-07	1.88E-06	0.00E+00	2.64E-06	7.56E-07	1.88E-06	0.00E+00	2.64E-06	1.23E-07	2.85E-07	0.00E+00	4.07E-07	6.42E-08	1.08E-07	0.00E+00	1.73E-07
3744	599555.2	4175785	7.1E-07	1.77E-06	0.00E+00	2.48E-06	7.10E-07	1.77E-06	0.00E+00	2.48E-06	1.15E-07	2.67E-07	0.00E+00	3.83E-07	6.03E-08	1.02E-07	0.00E+00	1.62E-07
3745	599552.2	4175505	2.29E-07	5.71E-07	0.00E+00	8.00E-07	2.29E-07	5.71E-07	0.00E+00	8.00E-07	3.73E-08	8.63E-08	0.00E+00	1.24E-07	1.95E-08	3.29E-08	0.00E+00	5.24E-08
3746	599542.8	4175505	2.3E-07	5.73E-07	0.00E+00	8.03E-07	2.30E-07	5.73E-07	0.00E+00	8.03E-07	3.74E-08	8.66E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.25E-08
3747	599560.7	4175484	2.16E-07	5.38E-07	0.00E+00	7.53E-07	2.16E-07	5.38E-07	0.00E+00	7.53E-07	3.51E-08	8.13E-08	0.00E+00	1.16E-07	1.83E-08	3.10E-08	0.00E+00	4.93E-08
3748	599551.3	4175485	2.17E-07	5.39E-07	0.00E+00	7.56E-07	2.17E-07	5.39E-07	0.00E+00	7.56E-07	3.52E-08	8.16E-08	0.00E+00	1.17E-07	1.84E-08	3.11E-08	0.00E+00	4.95E-08
3749	599541.9	4175485	2.17E-07	5.41E-07	0.00E+00	7.58E-07	2.17E-07	5.41E-07	0.00E+00	7.58E-07	3.53E-08	8.17E-08	0.00E+00	1.17E-07	1.84E-08	3.12E-08	0.00E+00	4.96E-08
3750	599559.8	4175464	2.05E-07	5.11E-07	0.00E+00	7.16E-07	2.05E-07	5.11E-07	0.00E+00	7.16E-07	3.34E-08	7.72E-08	0.00E+00	1.11E-07	1.74E-08	2.94E-08	0.00E+00	4.68E-08
3751	599550.4	4175465	2.06E-07	5.12E-07	0.00E+00	7.17E-07	2.06E-07	5.12E-07	0.00E+00	7.17E-07	3.34E-08	7.74E-08	0.00E+00	1.11E-07	1.75E-08	2.95E-08	0.00E+00	4.69E-08
3752	599541.1	4175465	2.06E-07	5.12E-07	0.00E+00	7.18E-07	2.06E-07	5.12E-07	0.00E+00	7.18E-07	3.35E-08	7.74E-08	0.00E+00	1.11E-07	1.75E-08	2.95E-08	0.00E+00	4.70E-08
3753	599558.9	4175444	1.95E-07	4.86E-07	0.00E+00	6.81E-07	1.95E-07	4.86E-07	0.00E+00	6.81E-07	3.17E-08	7.35E-08	0.00E+00	1.05E-07	1.66E-08	2.80E-08	0.00E+00	4.46E-08
3754	599549.6	4175445	1.95E-07	4.86E-07	0.00E+00	6.82E-07	1.95E-07	4.86E-07	0.00E+00	6.82E-07	3.18E-08	7.35E-08	0.00E+00	1.05E-07	1.66E-08	2.80E-08	0.00E+00	4.46E-08
3755	599540.2	4175445	1.95E-07	4.85E-07	0.00E+00	6.80E-07	1.95E-07	4.85E-07	0.00E+00	6.80E-07	3.17E-08	7.34E-08	0.00E+00	1.05E-07	1.66E-08	2.80E-08	0.00E+00	4.45E-08
3756	599567.4	4175424	1.86E-07	4.62E-07	0.00E+00	6.48E-07	1.86E-07	4.62E-07	0.00E+00	6.48E-07	3.02E-08	6.99E-08	0.00E+00	1.00E-07	1.58E-08	2.66E-08	0.00E+00	4.24E-08
3757	599558	4175424	1.86E-07	4.62E-07	0.00E+00	6.48E-07	1.86E-07	4.62E-07	0.00E+00	6.48E-07	3.02E-08	6.99E-08	0.00E+00	1.00E-07	1.58E-08	2.67E-08	0.00E+00	4.24E-08
3758	599548.7	4175425	1.85E-07	4.61E-07	0.00E+00	6.46E-07	1.85E-07	4.61E-07	0.00E+00	6.46E-07	3.01E-08	6.97E-08	0.00E+00	9.98E-08	1.57E-08	2.66E-08	0.00E+00	4.23E-08
3759	599539.3	4175425	1.83E-07	4.57E-07	0.00E+00	6.40E-07	1.83E-07	4.57E-07	0.00E+00	6.40E-07	2.98E-08	6.91E-08	0.00E+00	9.89E-08	1.56E-08	2.63E-08	0.00E+00	4.19E-08
3760	599557.2	4175404	1.76E-07	4.38E-07	0.00E+00	6.14E-07	1.76E-07	4.38E-07	0.00E+00	6.14E-07	2.86E-08	6.62E-08	0.00E+00	9.48E-08	1.49E-08	2.52E-08	0.00E+00	4.02E-08
3761	599547.8	4175405	1.74E-07	4.33E-07	0.00E+00	6.07E-07	1.74E-07	4.33E-07	0.00E+00	6.07E-07	2.83E-08	6.55E-08	0.00E+00	9.38E-08	1.48E-08	2.50E-08	0.00E+00	3.97E-08
3762	599538.4	4175405	1.72E-07	4.28E-07	0.00E+00	6.00E-07	1.72E-07	4.28E-07	0.00E+00	6.00E-07	2.80E-08	6.47E-08	0.00E+00	9.27E-08	1.46E-08	2.47E-08	0.00E+00	3.93E-08
3763	599556.3	4175384	1.65E-07	4.11E-07	0.00E+00	5.77E-07	1.65E-07	4.11E-07	0.00E+00	5.77E-07	2.69E-08	6.22E-08	0.00E+00	8.91E-08	1.40E-08	2.37E-08	0.00E+00	3.77E-08
3764	599546.9	4175385	1.62E-07	4.04E-07	0.00E+00	5.67E-07	1.62E-07	4.04E-07	0.00E+00	5.67E-07	2.64E-08	6.11E-08	0.00E+00	8.75E-08	1.38E-08	2.33E-08	0.00E+00	3.71E-08
3765	599537.5	4175385	1.61E-07	4.00E-07	0.00E+00	5.60E-07	1.61E-07	4.00E-07	0.00E+00	5.60E-07	2.61E-08	6.04E-08	0.00E+00	8.65E-08	1.36E-08	2.30E-08	0.00E+00	3.67E-08
3766	599555.4	4175364	1.56E-07	3.88E-07	0.00E+00	5.43E-07	1.56E-07	3.88E-07	0.00E+00	5.43E-07	2.53E-08	5.86E-08	0.00E+00	8.39E-08	1.32E-08	2.23E-08	0.00E+00	3.56E-08
3767	599546	4175365	1.54E-07	3.84E-07	0.00E+00	5.38E-07	1.54E-07	3.84E-07	0.00E+00	5.38E-07	2.51E-08	5.81E-08	0.00E+00	8.32E-08	1.31E-08	2.21E-08	0.00E+00	3.52E-08
3768	599536.7	4175365	1.53E-07	3.81E-07	0.00E+00	5.34E-07	1.53E-07	3.81E-07	0.00E+00	5.34E-07	2.49E-08	5.76E-08	0.00E+00	8.26E-08	1.30E-08	2.20E-08	0.00E+00	3.50E-08
3769	599541.6	4175265	1.27E-07	3.16E-07	0.00E+00	4.43E-07	1.27E-07	3.16E-07	0.00E+00	4.43E-07	2.06E-08	4.78E-08	0.00E+00	6.84E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
3770	599532.3	4175265	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.05E-08	4.73E-08	0.00E+00	6.78E-08	1.07E-08	1.80E-08	0.00E+00	2.87E-08
3771	599540.7	4175245	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.98E-08	4.58E-08	0.00E+00	6.56E-08	1.03E-08	1.75E-08	0.00E+00	2.78E-08
3772	599531.4	4175245	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.51E-08	1.02E-08	1.73E-08	0.00E+00	2.76E-08
3773	599539.9	4175225	1.17E-07	2.90E-07	0.00E+00	4.07E-07	1.17E-07	2.90E-07	0.00E+00	4.07E-07	1.90E-08	4.39E-08	0.00E+00	6.29E-08	9.90E-09	1.67E-08	0.00E+00	2.66E-08
3774	599530.5	4175225	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.23E-08	9.81E-09	1.66E-08	0.00E+00	2.64E-08
3775	599539	4175205	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.12E-07	2.78E-07	0.00E+00	3.89E-07	1.82E-08	4.20E-08	0.00E+00	6.02E-08	9.47E-09	1.60E-08	0.00E+00	2.55E-08
3776	599529.6	4175205	1.1E-07	2.75E-07	0.00E+00	3.86E-07	1.10E-07	2.75E-07	0.00E+00	3.86E-07	1.80E-08	4.16E-08	0.00E+00	5.96E-08	9.38E-09	1.59E-08	0.00E+00	2.52E-08
3777	599538.1	4175185	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.03E-08	0.00E+00	5.76E-08	9.08E-09	1.53E-08	0.00E+00	2.44E-08
3778	599528.7	4175185	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.72E-08	3.99E-08	0.00E+00	5.72E-08	9.00E-09	1.52E-08	0.00E+00	2.42E-08
3779	599537.2	4175165	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.75E-09	1.48E-08	0.00E+00	2.35E-08
3780	599527.8	4175165	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.51E-08	8.67E-09	1.47E-08	0.00E+00	2.33E-08
3781	599771	4175269	7.5E-08	1.87E-07	0.00E+00	2.62E-07	7.50E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.82E-08	0.00E+00	4.04E-08	6.37E-09	1.08E-08	0.00E+00	1.71E-08
3782	599775.7	4175249	7.79E-08	1.94E-07	0.00E+00	2.72E-07	7.79E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.93E-08	0.00E+00	4.20E-08	6.61E-09	1.12E-08	0.00E+00	1.78E-08
3783	599802.8	4175446	8.34E-08	2.08E-07	0.00E+00	2.91E-07	8.34E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.50E-08	7.08E-09	1.20E-08	0.00E+00	1.90E-08
3784	599713	4175777	1.33E-07	3.30E-07	0.00E+00	4.63E-07	1.33E-07	3.30E-07	0.00E+00	4.63E-07	2.16E-08	4.99E-08	0.00E+00	7.15E-08	1.13E-08	1.90E-08	0.00E+00	3.03E-08
3785	599716.8	4175757	1.27E-07	3.17E-07	0.00E+00	4.44E-07	1.27E-07	3.17E-07	0.00E+00	4.44E-07	2.07E-08	4.79E-08	0.00E+00	6.85E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
3786	599730.7	4175741	1.26E-07	3.14E-07	0.00E+00	4.40E-07	1.26E-07	3.14E-07	0.00E+00	4.40E-07	2.05E-08	4.74E-08	0.00E+00	6.79E-08	1.07E-08	1.81E-08	0.00E+00	2.88E-08
3787	599734.6	4175721	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.73E-08	3.99E-08	0.00E+00	5.72E-08	9.01E-09	1.52E-08	0.00E+00	2.42E-08
3788	599849.7	4175488	1.44E-07	3.58E-07	0.00E+00	5.02E-07	1.44E-07	3.58E-07	0.00E+00	5.02E-07	2.34E-08	5.41E-08	0.00E+00	7.75E-08	1.22E-08	2.06E-08	0.00E+00	3.28E-08
3789	599863.6	4175472	1.41E-07	3.51E-07	0.00E+00	4.92E-07	1.41E-07	3.51E-07	0.00E+00	4.92E-07	2.29E-08	5.30E-08	0.00E+00	7.60E-08	1.20E-08	2.02E-08	0.00E+00	3.22E-08
3790	600122.4	4175405	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.91E-08	4.41E-08	0.00E+00	6.32E-08	9.94E-09	1.68E-08	0.00E+00	2.68E-08
3791	599858.3	4175654	2.01E-07	5.01E-07	0.00E+00	7.02E-07	2.01E-07	5.01E-07	0.00E+00	7.02E-07	3.27E-08	7.57E-08	0.00E+00	1.08E-07	1.71E-08	2.89E-08	0.00E+00	4.59E-08
3792	599876.3	4175643	2.16E-07	5.37E-07	0.00E+00	7.53E-07	2.16E-07	5.37E-07	0.00E+00	7.53E-07	3.51E-08	8.12E-08	0.00E+00	1.16E-07	1.83E-08	3.10E-08	0.00E+00	4.93E-08
3793	599888.5	4175627	2.33E-07	5.79E-07	0.00E+00	8.12E-07	2.33E-07	5.79E-07	0.00E+00	8.12E-07	3.78E-08	8.76E-08	0.00E+00	1.25E-07	1.98E-08	3.34E-08	0.00E+00	5.31E-08
3794	599906.5	4175616	2.39E-07	5.95E-07	0.00E+00	8.34E-07	2.39E-07	5.95E-07	0.00E+00	8.34E-07	3.89E-08	9.00E-08	0.00E+00	1.29E-07	2.03E-08	3.43E-08	0.00E+00	5.46E-08
3795	599918.7	4175600	2.21E-07	5.51E-07	0.00E+00	7.73E-07	2.21E-07	5.51E-07	0.00E+00	7.73E-07	3.60E-08	8.33E-08	0.00E+00	1.19E-07	1.88E-08	3.18E-08	0.00E+00	5.06E-08
3796	599947.9	4175572	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.82E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
3797	599960.3	4175556	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.98E-08	4.58E-08	0.00E+00	6.57E-08	1.03E-08	1.75E-08	0.00E+00	2.78E-08
3798	599977.7	4175545	1.11E-07	2.75E-07	0.00E+00	3.86E-07	1.11E-07	2.75E-07	0.00E+00	3.86E-07	1.80E-08	4.16E-08	0.00E+00	5.96E-08	9.39E-09	1.59E-08	0.00E+00	2.53E-08
3799	599990.2	4175529	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.19E-09	1.55E-08	0.00E+00	2.47E-08
3800	600002.8	4175514	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.33E-08	0.00E+00	6.21E-08	9.77E-09	1.65E-08	0.00E+00	2.63E-08
3801	600020.7	4175502	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.17E-07	2.92E-07	0.00E+00	4.09E-07	1.91E-08	4.41E-08	0.00E+00	6.32E-08	9.95E-09	1.68E-08	0.00E+00	2.68E-08
3802	600033.4	4175487	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.89E-08	4.36E-08	0.00E+00	6.25E-08	9.84E-09	1.66E-08	0.00E+00	2.65E-08
3803	600048	4175473	9.4E-08	2.34E-07	0.00E+00	3.28E-07	9.40E-08	2.34E-07	0.00E+00	3.28E-07	1.53E-08	3.54E-08	0.00E+00	5.07E-08	7.98E-09	1.35E-08	0.00E+00	2.15E-08
3804	600060.7	4175458	7.84E-08	1.95E-07	0.00E+00	2.74E-07	7.84E-08	1.95E-07	0.00E+00	2.74E-07	1.27E-08	2.95E-08	0.00E+00	4.23E-08	6.65E-09	1.12E-08	0.00E+00	1.79E-08
3805	600078.5	4175446	7.52E-08	1.87E-07	0.00E+00	2.62E-07	7.52E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.83E-08	0.00E+00	4.05E-08	6.39E-09	1.08E-08	0.00E+00	1.72E-08
3806	600104.1	4175416	9.84E-08	2.45E-07	0.00E+00	3.43E-07	9.84E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.30E-08	8.35E-09	1.41E-08	0.00E+00	2.25E-08
3807	599790.3	4175806	2.88E-07	7.18E-07	0.00E+00	1.01E-06	2.88E-07	7.18E-07	0.00E+00	1.01E-06	4.69E-08	1.09E-07	0.00E+00	1.55E-07	2.45E-08	4.14E-08	0.00E+00	6.58E-08
3808	599818.4	4175778	2.63E-07	6.55E-07	0.00E+00	9.18E-07	2.63E-07	6.55E-07	0.00E+00	9.18E-07	4.28E-08	9.91E-08	0.00E+00	1.42E-07	2.23E-08	3.78E-08	0.00E+00	6.01E-08
3809	599846.5	4175750	2.6E-07	6.47E-07	0.00E+00	9.07E-07	2.60E-07	6.47E-07	0.00E+00	9.07E-07	4.23E-08	9.78E-08	0.00E+00	1.40E-07	2.21E-08	3.73E-08	0.00E+00	5.94E-08
3810	599864.4	4175739	2.74E-07	6.82E-07	0.00E+00	9.56E-07	2.74E-07	6.82E-07	0.00E+00	9.56E-07	4.46E-08	1.03E-07	0.00E+00	1.48E-07	2.33E-08	3.93E-08	0.00E+00	6.26E-08
3811	599878.4	4175725	2.78E-07	6.92E-07	0.00E+00	9.69E-07	2.78E-07	6.92E-07	0.00E+00	9.69E-07	4.52E-08	1.05E-07	0.00E+00	1.50E-07	2.36E-08	3.99E-08	0.00E+00	6.34E-08
3812	599892.5	4175711	2.59E-07	6.45E-07	0.00E+00	9.05E-07	2.59E-07	6.45E-07	0.00E+00	9.05E-07	4.22E-08	9.76E-08	0.00E+00	1.40E-07	2.20E-08	3.72E-08	0.00E+00	5.92E-08
3813	599906.5	4175696	2.45E-07	6.10E-07	0.00E+00	8.54E-07	2.45E-07	6.10E-07	0.00E+00	8.54E-07	3.98E-08	9.22E-08	0.00E+00	1.32E-07	2.08E-08	3.51E-08	0.00E+00	5.59E-08
3814	599920.6	4175682	2.49E-07	6.21E-07	0.00E+00	8.70E-07	2.49E-07	6.21E-07	0.00E+00	8.70E-07	4.06E-08	9.39E-08	0.00E+00	1.34E-07	2.12E-08	3.58E-08	0.00E+00	5.69E-08
3815	599934.6	4175668	2.56E-07	6.37E-07	0.00E+00	8.93E-07	2.56E-07	6.37E-07	0.00E+00	8.93E-07	4.16E-08	9.63E-08	0.00E+00	1.38E-07	2.17E-08	3.67E-08	0.00E+00	5.84E-08
3816	599948.6	4175654	2.68E-07	6.67E-07	0.00E+00	9.35E-07	2.68E-07	6.67E-07	0.00E+00	9.35E-07	4.36E-08	1.01E-07	0.00E+00	1.44E-07	2.28E-08	3.85E-08	0.00E+00	6.12E-08
3817	599962.7	4175639	2.64E-07	6.57E-07	0.00E+00	9.21E-07	2.64E-07	6.57E-07	0.00E+00	9.21E-07	4.29E-08	9.94E-08	0.00E+00	1.42E-07	2.24E-08	3.79E-08	0.00E+00	6.03E-08
3818	599976.7	4175625	2.53E-07	6.29E-07	0.00E+00	8.82E-07	2.53E-07	6.29E-07	0.00E+00	8.82E-07	4.11E-08	9.52E-08	0.00E+00	1.36E-07	2.15E-08	3.63E-08	0.00E+00	5.77E-08
3819	599990.8	4175611	2.3E-07	5.72E-07	0.00E+00	8.02E-07	2.30E-07	5.72E-07	0.00E+00	8.02E-07	3.74E-08	8.65E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.25E-08
3820	600004.8	4175597	2.03E-07	5.06E-07	0.00E+00	7.10E-07	2.03E-07	5.06E-07	0.00E+00	7.10E-07	3.31E-08	7.66E-08	0.00E+00	1.10E-07	1.73E-08	2.92E-08	0.00E+00	4.65E-08
3821	600032.9	4175568	1.28E-07	3.18E-07	0.00E+00	4.46E-07	1.28E-07	3.18E-07	0.00E+00	4.46E-07	2.08E-08	4.82E-08	0.00E+00	6.90E-08	1.09E-08	1.84E-08	0.00E+00	2.92E-08
3822	600047	4175554	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.53E-08	0.00E+00	6.49E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
3823	600061	4175540	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.12E-07	2.79E-07	0.00E+00	3.91E-07	1.82E-08	4.22E-08	0.00E+00	6.04E-08	9.52E-09	1.61E-08	0.00E+00	2.56E-08
3824	600064.3	4175602	2.02E-07	5.04E-07	0.00E+00	7.07E-07	2.02E-07	5.04E-07	0.00E+00	7.07E-07	3.29E-08	7.62E-08	0.00E+00	1.09E-07	1.72E-08	2.91E-08	0.00E+00	4.62E-08
3825	600335.3	4175905	9.56E-08	2.38E-07	0.00E+00	3.34E-07	9.56E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.16E-08	8.12E-09	1.37E-08	0.00E+00	2.18E-08
3826	600355	4175901	9.4E-08	2.34E-07	0.00E+00	3.28E-07	9.40E-08	2.34E-07	0.00E+00	3.28E-07	1.53E-08	3.54E-08	0.00E+00	5.07E-08	7.98E-09	1.35E-08	0.00E+00	2.15E-08
3827	600375.9	4175904	8.77E-08	2.18E-07	0.00E+00	3.06E-07	8.77E-08	2.18E-07	0.00E+00	3.06E-07	1.43E-08	3.30E-08	0.00E+00	4.73E-08	7.45E-09	1.26E-08	0.00E+00	2.00E-08
3828	599820.4	4175983	7.64E-07	1.90E-06	0.00E+00	2.67E-06	7.64E-07	1.90E-06	0.00E+00	2.67E-06	1.24E-07	2.88E-07	0.00E+00	4.12E-07	6.48E-08	1.10E-07	0.00E+00	1.74E-07
3829	600127.8	4175892	1.82E-07	4.53E-07	0.00E+00	6.36E-07	1.82E-07	4.53E-07	0.00E+00	6.36E-07	2.96E-08	6.86E-08	0.00E+00	9.82E-08	1.55E-08	2.61E-08	0.00E+00	4.16E-08
3830	600131	4175907	1.74E-07	4.33E-07	0.00E+00	6.07E-07	1.74E-07	4.33E-07	0.00E+00	6.07E-07	2.83E-08	6.55E-08	0.00E+00	9.37E-08	1.48E-08	2.50E-08	0.00E+00	3.97E-08
3831	600148.7	4175894	1.7E-07	4.22E-07	0.00E+00	5.92E-07	1.70E-07	4.22E-07	0.00E+00	5.92E-07	2.76E-08	6.39E-08	0.00E+00	9.15E-08	1.44E-08	2.43E-08	0.00E+00	3.88E-08
3832	600150.9	4175904	1.65E-07	4.11E-07	0.00E+00	5.76E-07	1.65E-07	4.11E-07	0.00E+00	5.76E-07	2.68E-08	6.21E-08	0.00E+00	8.89E-08	1.40E-08	2.37E-08	0.00E+00	3.77E-08
3833	600169.9	4175897	1.58E-07	3.94E-07	0.00E+00	5.52E-07	1.58E-07	3.94E-07	0.00E+00	5.52E-07	2.57E-08	5.96E-08	0.00E+00	8.53E-08	1.34E-08	2.27E-08	0.00E+00	3.61E-08
3834	600190.8	4175899	1.43E-07	3.55E-07	0.00E+00	4.98E-07	1.43E-07	3.55E-07	0.00E+00	4.98E-07	2.32E-08	5.37E-08	0.00E+00	7.69E-08	1.21E-08	2.05E-08	0.00E+00	3.26E-08
3835	600210.8	4175897	1.3E-07	3.25E-07	0.00E+00	4.55E-07	1.30E-07	3.25E-07	0.00E+00	4.55E-07	2.12E-08	4.91E-08	0.00E+00	7.03E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
3836	600231.4	4175898	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
3837	600233.7	4175908	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.94E-08	4.48E-08	0.00E+00	6.42E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
3838	600252.7	4175901	1.14E-07	2.84E-07	0.00E+00	3.99E-07	1.14E-07	2.84E-07	0.00E+00	3.99E-07	1.86E-08	4.30E-08	0.00E+00	6.16E-08	9.70E-09	1.64E-08	0.00E+00	2.61E-08
3839	600272.1	4175896	1.11E-07	2.76E-07	0.00E+00	3.86E-07	1.11E-07	2.76E-07	0.00E+00	3.86E-07	1.80E-08	4.17E-08	0.00E+00	5.97E-08	9.40E-09	1.59E-08	0.00E+00	2.53E-08
3840	600274.3	4175906	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.20E-09	1.56E-08	0.00E+00	2.48E-08
3841	600293.7	4175902	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.72E-08	3.98E-08	0.00E+00	5.70E-08	8.97E-09	1.52E-08	0.00E+00	2.41E-08
3842	600314.3	4175902	9.96E-08	2.48E-07	0.00E+00	3.48E-07	9.96E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.37E-08	8.46E-09	1.43E-08	0.00E+00	2.28E-08
3843	600398.4	4175820	9.5E-08	2.37E-07	0.00E+00	3.32E-07	9.50E-08	2.37E-07	0.00E+00	3.32E-07	1.55E-08	3.58E-08	0.00E+00	5.12E-08	8.07E-09	1.36E-08	0.00E+00	2.17E-08
3844	600417.4	4175814	9.09E-08	2.26E-07	0.00E+00	3.17E-07	9.09E-08	2.26E-07	0.00E+00	3.17E-07	1.48E-08	3.42E-08	0.00E+00	4.90E-08	7.72E-09	1.30E-08	0.00E+00	2.08E-08
3845	599552.3	4175960	3.44E-06	8.57E-06	0.00E+00	1.20E-05	3.44E-06	8.57E-06	0.00E+00	1.20E-05	5.60E-07	1.30E-06	0.00E+00	1.86E-06	2.92E-07	4.94E-07	0.00E+00	7.86E-07
3846	599749.6	4175912	5.65E-07	1.41E-06	0.00E+00	1.97E-06	5.65E-07	1.41E-06	0.00E+00	1.97E-06	9.19E-08	2.13E-07	0.00E+00	3.05E-07	4.80E-08	8.11E-08	0.00E+00	1.29E-07
3847	599689.7	4175778	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.85E-08	4.29E-08	0.00E+00	6.14E-08	9.67E-09	1.64E-08	0.00E+00	2.60E-08

3848	599864.4	4175940	4.85E-07	1.21E-06	0.00E+00	1.69E-06	4.85E-07	1.21E-06	0.00E+00	1.69E-06	7.90E-08	1.83E-07	0.00E+00	2.62E-07	4.12E-08	6.97E-08	0.00E+00	1.11E-07
3849	599710	4175715	8.56E-08	2.13E-07	0.00E+00	2.99E-07	8.56E-08	2.13E-07	0.00E+00	2.99E-07	1.39E-08	3.22E-08	0.00E+00	4.61E-08	7.27E-09	1.23E-08	0.00E+00	1.95E-08
3850	599754.3	4175772	1.93E-07	4.80E-07	0.00E+00	6.73E-07	1.93E-07	4.80E-07	0.00E+00	6.73E-07	3.14E-08	7.27E-08	0.00E+00	1.04E-07	1.64E-08	2.77E-08	0.00E+00	4.41E-08
3851	599780.2	4175804	2.73E-07	6.80E-07	0.00E+00	9.53E-07	2.73E-07	6.80E-07	0.00E+00	9.53E-07	4.44E-08	1.03E-07	0.00E+00	1.47E-07	2.32E-08	3.92E-08	0.00E+00	6.24E-08
3852	599719.1	4175697	7.71E-08	1.92E-07	0.00E+00	2.69E-07	7.71E-08	1.92E-07	0.00E+00	2.69E-07	1.25E-08	2.90E-08	0.00E+00	4.16E-08	6.55E-09	1.11E-08	0.00E+00	1.76E-08
3853	599814.9	4175819	3.31E-07	8.24E-07	0.00E+00	1.15E-06	3.31E-07	8.24E-07	0.00E+00	1.15E-06	5.38E-08	1.25E-07	0.00E+00	1.78E-07	2.81E-08	4.75E-08	0.00E+00	7.55E-08
3854	599775.9	4175740	1.85E-07	4.62E-07	0.00E+00	6.47E-07	1.85E-07	4.62E-07	0.00E+00	6.47E-07	3.02E-08	6.98E-08	0.00E+00	1.00E-07	1.57E-08	2.66E-08	0.00E+00	4.24E-08
3855	599801.6	4175773	2.43E-07	6.04E-07	0.00E+00	8.46E-07	2.43E-07	6.04E-07	0.00E+00	8.46E-07	3.95E-08	9.13E-08	0.00E+00	1.31E-07	2.06E-08	3.48E-08	0.00E+00	5.54E-08
3856	599849.3	4175833	3.62E-07	9.02E-07	0.00E+00	1.26E-06	3.62E-07	9.02E-07	0.00E+00	1.26E-06	5.90E-08	1.36E-07	0.00E+00	1.95E-07	3.08E-08	5.20E-08	0.00E+00	8.28E-08
3857	599836.1	4175787	2.87E-07	7.14E-07	0.00E+00	1.00E-06	2.87E-07	7.14E-07	0.00E+00	1.00E-06	4.67E-08	1.08E-07	0.00E+00	1.55E-07	2.44E-08	4.12E-08	0.00E+00	6.55E-08
3858	599861.7	4175819	3.38E-07	8.43E-07	0.00E+00	1.18E-06	3.38E-07	8.43E-07	0.00E+00	1.18E-06	5.51E-08	1.27E-07	0.00E+00	1.82E-07	2.87E-08	4.86E-08	0.00E+00	7.73E-08
3859	599820.7	4175738	2.37E-07	5.90E-07	0.00E+00	8.27E-07	2.37E-07	5.90E-07	0.00E+00	8.27E-07	3.85E-08	8.92E-08	0.00E+00	1.28E-07	2.01E-08	3.40E-08	0.00E+00	5.41E-08
3860	599846.7	4175771	2.76E-07	6.88E-07	0.00E+00	9.64E-07	2.76E-07	6.88E-07	0.00E+00	9.64E-07	4.50E-08	1.04E-07	0.00E+00	1.49E-07	2.35E-08	3.97E-08	0.00E+00	6.31E-08
3861	599872.6	4175804	3.2E-07	7.97E-07	0.00E+00	1.12E-06	3.20E-07	7.97E-07	0.00E+00	1.12E-06	5.20E-08	1.20E-07	0.00E+00	1.72E-07	2.72E-08	4.59E-08	0.00E+00	7.31E-08
3862	599898.5	4175837	3.52E-07	8.78E-07	0.00E+00	1.23E-06	3.52E-07	8.78E-07	0.00E+00	1.23E-06	5.73E-08	1.33E-07	0.00E+00	1.90E-07	2.99E-08	5.06E-08	0.00E+00	8.05E-08
3863	599928.1	4175874	3.56E-07	8.86E-07	0.00E+00	1.24E-06	3.56E-07	8.86E-07	0.00E+00	1.24E-06	5.79E-08	1.34E-07	0.00E+00	1.92E-07	3.02E-08	5.11E-08	0.00E+00	8.13E-08
3864	599833.3	4175725	2.42E-07	6.03E-07	0.00E+00	8.46E-07	2.42E-07	6.03E-07	0.00E+00	8.46E-07	3.94E-08	9.12E-08	0.00E+00	1.31E-07	2.06E-08	3.48E-08	0.00E+00	5.53E-08
3865	599881.3	4175785	3.15E-07	7.85E-07	0.00E+00	1.10E-06	3.15E-07	7.85E-07	0.00E+00	1.10E-06	5.13E-08	1.19E-07	0.00E+00	1.70E-07	2.68E-08	4.53E-08	0.00E+00	7.21E-08
3866	599932.9	4175851	3.51E-07	8.73E-07	0.00E+00	1.22E-06	3.51E-07	8.73E-07	0.00E+00	1.22E-06	5.70E-08	1.32E-07	0.00E+00	1.89E-07	2.98E-08	5.03E-08	0.00E+00	8.01E-08
3867	599820.1	4175678	1.75E-07	4.37E-07	0.00E+00	6.12E-07	1.75E-07	4.37E-07	0.00E+00	6.12E-07	2.85E-08	6.61E-08	0.00E+00	9.46E-08	1.49E-08	2.52E-08	0.00E+00	4.01E-08
3868	599893.7	4175772	3.21E-07	8.00E-07	0.00E+00	1.12E-06	3.21E-07	8.00E-07	0.00E+00	1.12E-06	5.23E-08	1.21E-07	0.00E+00	1.73E-07	2.73E-08	4.61E-08	0.00E+00	7.34E-08
3869	599919.4	4175804	3.24E-07	8.07E-07	0.00E+00	1.13E-06	3.24E-07	8.07E-07	0.00E+00	1.13E-06	5.27E-08	1.22E-07	0.00E+00	1.75E-07	2.75E-08	4.65E-08	0.00E+00	7.40E-08
3870	599945.2	4175837	3.26E-07	8.13E-07	0.00E+00	1.14E-06	3.26E-07	8.13E-07	0.00E+00	1.14E-06	5.31E-08	1.23E-07	0.00E+00	1.76E-07	2.77E-08	4.68E-08	0.00E+00	7.46E-08
3871	599781.4	4175600	7.95E-08	1.98E-07	0.00E+00	2.78E-07	7.95E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	2.99E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
3872	599807	4175633	1.29E-07	3.22E-07	0.00E+00	4.52E-07	1.29E-07	3.22E-07	0.00E+00	4.52E-07	2.10E-08	4.87E-08	0.00E+00	6.98E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
3873	599816.7	4175615	1.59E-07	3.97E-07	0.00E+00	5.56E-07	1.59E-07	3.97E-07	0.00E+00	5.56E-07	2.59E-08	6.00E-08	0.00E+00	8.59E-08	1.35E-08	2.29E-08	0.00E+00	3.64E-08
3874	599916.8	4175742	2.8E-07	6.97E-07	0.00E+00	9.77E-07	2.80E-07	6.97E-07	0.00E+00	9.77E-07	4.55E-08	1.05E-07	0.00E+00	1.51E-07	2.38E-08	4.02E-08	0.00E+00	6.39E-08
3875	599965	4175803	2.97E-07	7.40E-07	0.00E+00	1.04E-06	2.97E-07	7.40E-07	0.00E+00	1.04E-06	4.84E-08	1.12E-07	0.00E+00	1.60E-07	2.53E-08	4.27E-08	0.00E+00	6.79E-08
3876	599803.6	4175569	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.04E-08	0.00E+00	7.22E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
3877	599851.6	4175630	2.33E-07	5.81E-07	0.00E+00	8.14E-07	2.33E-07	5.81E-07	0.00E+00	8.14E-07	3.79E-08	8.78E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.33E-08
3878	599877.5	4175663	2.13E-07	5.30E-07	0.00E+00	7.42E-07	2.13E-07	5.30E-07	0.00E+00	7.42E-07	3.46E-08	8.01E-08	0.00E+00	1.15E-07	1.81E-08	3.05E-08	0.00E+00	4.86E-08
3879	599951.4	4175757	2.9E-07	7.23E-07	0.00E+00	1.01E-06	2.90E-07	7.23E-07	0.00E+00	1.01E-06	4.73E-08	1.09E-07	0.00E+00	1.57E-07	2.47E-08	4.17E-08	0.00E+00	6.63E-08
3880	599777.7	4175537	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.72E-08	3.98E-08	0.00E+00	5.69E-08	8.97E-09	1.52E-08	0.00E+00	2.41E-08
3881	599812.7	4175552	1.49E-07	3.72E-07	0.00E+00	5.21E-07	1.49E-07	3.72E-07	0.00E+00	5.21E-07	2.43E-08	5.63E-08	0.00E+00	8.06E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
3882	599838.5	4175584	2E-07	4.99E-07	0.00E+00	7.00E-07	2.00E-07	4.99E-07	0.00E+00	7.00E-07	3.26E-08	7.55E-08	0.00E+00	1.08E-07	1.70E-08	2.88E-08	0.00E+00	4.58E-08
3883	599912.2	4175678	2.38E-07	5.93E-07	0.00E+00	8.32E-07	2.38E-07	5.93E-07	0.00E+00	8.32E-07	3.88E-08	8.97E-08	0.00E+00	1.29E-07	2.02E-08	3.42E-08	0.00E+00	5.44E-08
3884	599938	4175710	2.55E-07	6.36E-07	0.00E+00	8.91E-07	2.55E-07	6.36E-07	0.00E+00	8.91E-07	4.16E-08	9.62E-08	0.00E+00	1.38E-07	2.17E-08	3.67E-08	0.00E+00	5.83E-08
3885	599799.7	4175506	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.06E-08	0.00E+00	5.81E-08	9.15E-09	1.55E-08	0.00E+00	2.46E-08
3886	599873.2	4175599	2.38E-07	5.92E-07	0.00E+00	8.29E-07	2.38E-07	5.92E-07	0.00E+00	8.29E-07	3.87E-08	8.95E-08	0.00E+00	1.28E-07	2.02E-08	3.41E-08	0.00E+00	5.43E-08
3887	599899	4175631	2.31E-07	5.75E-07	0.00E+00	8.06E-07	2.31E-07	5.75E-07	0.00E+00	8.06E-07	3.76E-08	8.69E-08	0.00E+00	1.24E-07	1.96E-08	3.31E-08	0.00E+00	5.27E-08
3888	599950.4	4175697	2.8E-07	6.97E-07	0.00E+00	9.77E-07	2.80E-07	6.97E-07	0.00E+00	9.77E-07	4.55E-08	1.05E-07	0.00E+00	1.51E-07	2.38E-08	4.02E-08	0.00E+00	6.39E-08
3889	599998.2	4175757	2.88E-07	7.17E-07	0.00E+00	1.00E-06	2.88E-07	7.17E-07	0.00E+00	1.00E-06	4.68E-08	1.08E-07	0.00E+00	1.55E-07	2.45E-08	4.13E-08	0.00E+00	6.58E-08
3890	599834.9	4175521	1.57E-07	3.90E-07	0.00E+00	5.47E-07	1.57E-07	3.90E-07	0.00E+00	5.47E-07	2.55E-08	5.90E-08	0.00E+00	8.45E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
3891	599860.8	4175554	1.86E-07	4.62E-07	0.00E+00	6.47E-07	1.86E-07	4.62E-07	0.00E+00	6.47E-07	3.02E-08	6.98E-08	0.00E+00	1.00E-07	1.58E-08	2.66E-08	0.00E+00	4.24E-08
3892	599935	4175648	2.54E-07	6.31E-07	0.00E+00	8.85E-07	2.54E-07	6.31E-07	0.00E+00	8.85E-07	4.13E-08	9.55E-08	0.00E+00	1.37E-07	2.15E-08	3.64E-08	0.00E+00	5.79E-08
3893	599983.2	4175709	2.77E-07	6.90E-07	0.00E+00	9.67E-07	2.77E-07	6.90E-07	0.00E+00	9.67E-07	4.51E-08	1.04E-07	0.00E+00	1.49E-07	2.35E-08	3.98E-08	0.00E+00	6.33E-08
3894	599821.8	4175475	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.65E-09	1.46E-08	0.00E+00	2.33E-08
3895	599969.8	4175662	2.86E-07	7.12E-07	0.00E+00	9.97E-07	2.86E-07	7.12E-07	0.00E+00	9.97E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.43E-08	4.10E-08	0.00E+00	6.53E-08
3896	599995.6	4175695	2.72E-07	6.76E-07	0.00E+00	9.48E-07	2.72E-07	6.76E-07	0.00E+00	9.48E-07	4.42E-08	1.02E-07	0.00E+00	1.46E-07	2.31E-08	3.90E-08	0.00E+00	6.20E-08
3897	600139.9	4175878	1.79E-07	4.45E-07	0.00E+00	6.24E-07	1.79E-07	4.45E-07	0.00E+00	6.24E-07	2.91E-08	6.74E-08	0.00E+00	9.65E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
3898	599882.6	4175523	1.61E-07	4.02E-07	0.00E+00	5.63E-07	1.61E-07	4.02E-07	0.00E+00	5.63E-07	2.62E-08	6.07E-08	0.00E+00	8.70E-08	1.37E-08	2.31E-08	0.00E+00	3.68E-08
3899	599956.4	4175616	2.3E-07	5.73E-07	0.00E+00	8.03E-07	2.30E-07	5.73E-07	0.00E+00	8.03E-07	3.74E-08	8.66E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.25E-08
3900	599982.2	4175649	2.64E-07	6.58E-07	0.00E+00	9.22E-07	2.64E-07	6.58E-07	0.00E+00	9.22E-07	4.30E-08	9.95E-08	0.00E+00	1.42E-07	2.24E-08	3.79E-08	0.00E+00	6.04E-08
3901	600155.7	4175868	1.68E-07	4.17E-07	0.00E+00	5.85E-07	1.68E-07	4.17E-07	0.00E+00	5.85E-07	2.73E-08	6.31E-08	0.00E+00	9.04E-08	1.42E-08	2.41E-08	0.00E+00	3.83E-08
3902	599843.8	4175444	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.34E-08	0.00E+00	6.21E-08	9.78E-09	1.65E-08	0.00E+00	2.63E-08
3903	599917.4	4175537	1.31E-07	3.25E-07	0.00E+00	4.56E-07	1.31E-07	3.25E-07	0.00E+00	4.56E-07	2.13E-08	4.92E-08	0.00E+00	7.04E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
3904	599968.9	4175602	2.08E-07	5.18E-07	0.00E+00	7.26E-07	2.08E-07	5.18E-07	0.00E+00	7.26E-07	3.38E-08	7.83E-08	0.00E+00	1.12E-07	1.77E-08	2.98E-08	0.00E+00	4.75E-08
3905	600016.8	4175663	2.26E-07	5.63E-07	0.00E+00	7.90E-07	2.26E-07	5.63E-07	0.00E+00	7.90E-07	3.68E-08	8.52E-08	0.00E+00	1.22E-07	1.92E-08	3.25E-08	0.00E+00	5.17E-08
3906	600175.1	4175864	1.52E-07	3.77E-07	0.00E+00	5.29E-07	1.52E-07	3.77E-07	0.00E+00	5.29E-07	2.46E-08	5.70E-08	0.00E+00	8.17E-08	1.29E-08	2.17E-08	0.00E+00	3.46E-08
3907	599879	4175459	1.42E-07	3.54E-07	0.00E+00	4.96E-07	1.42E-07	3.54E-07	0.00E+00	4.96E-07	2.31E-08	5.36E-08	0.00E+00	7.67E-08	1.21E-08	2.04E-08	0.00E+00	3.25E-08
3908	599905	4175492	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.83E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
3909	600190.7	4175854	1.41E-07	3.50E-07	0.00E+00	4.91E-07	1.41E-07	3.50E-07	0.00E+00	4.91E-07	2.29E-08	5.30E-08	0.00E+00	7.59E-08	1.19E-08	2.02E-08	0.00E+00	3.21E-08
3910	599914	4175474	1.44E-07	3.58E-07	0.00E+00	5.02E-07	1.44E-07	3.58E-07	0.00E+00	5.02E-07	2.34E-08	5.41E-08	0.00E+00	7.75E-08	1.22E-08	2.06E-08	0.00E+00	3.29E-08
3911	599939.9	4175507	1.19E-07	2.95E-07	0.00E+00	4.14E-07	1.19E-07	2.95E-07	0.00E+00	4.14E-07	1.93E-08	4.47E-08	0.00E+00	6.40E-08	1.01E-08	1.70E-08	0.00E+00	2.71E-08
3912	599988	4175568	1.22E-07	3.03E-07	0.00E+00	4.24E-07	1.22E-07	3.03E-07	0.00E+00	4.24E-07	1.98E-08	4.58E-08	0.00E+00	6.56E-08	1.03E-08	1.75E-08	0.00E+00	2.78E-08
3913	600014	4175601	2.13E-07	5.30E-07	0.00E+00	7.43E-07	2.13E-07	5.30E-07	0.00E+00	7.43E-07	3.46E-08	8.01E-08	0.00E+00	1.15E-07	1.81E-08	3.05E-08	0.00E+00	4.86E-08
3914	600039.9	4175634	2.54E-07	6.33E-07	0.00E+00	8.87E-07	2.54E-07	6.33E-07	0.00E+00	8.87E-07	4.14E-08	9.57E-08	0.00E+00	1.37E-07	2.16E-08	3.65E-08	0.00E+00	5.81E-08
3915	599875	4175395	1.27E-07	3.16E-07	0.00E+00	4.43E-07	1.27E-07	3.16E-07	0.00E+00	4.43E-07	2.07E-08	4.78E-08	0.00E+00	6.85E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
3916	599900.9	4175428	1.41E-07	3.50E-07	0.00E+00	4.91E-07	1.41E-07	3.50E-07	0.00E+00	4.91E-07	2.29E-08	5.29E-08	0.00E+00	7.58E-08	1.19E-08	2.02E-08	0.00E+00	3.21E-08
3917	599974.7	4175522	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.84E-08	4.25E-08	0.00E+00	6.08E-08	9.58E-09	1.62E-08	0.00E+00	2.58E-08
3918	600000.6	4175554	1.12E-07	2.80E-07	0.00E+00	3.92E-07	1.12E-07	2.80E-07	0.00E+00	3.92E-07	1.83E-08	4.23E-08	0.00E+00	6.06E-08	9.54E-09	1.61E-08	0.00E+00	2.57E-08
3919	599887.8	4175382	1.29E-07	3.20E-07	0.00E+00	4.49E-07	1.29E-07	3.20E-07	0.00E+00	4.49E-07	2.09E-08	4.84E-08	0.00E+00	6.93E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08
3920	599935.7	4175443	1.45E-07	3.62E-07	0.00E+00	5.08E-07	1.45E-07	3.62E-07	0.00E+00	5.08E-07	2.37E-08	5.48E-08	0.00E+00	7.84E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
3921	599961.5	4175476	1.4E-07	3.48E-07	0.00E+00	4.87E-07	1.40E-07	3.48E-07	0.00E+00	4.87E-07	2.27E-08	5.26E-08	0.00E+00	7.53E-08	1.19E-08	2.00E-08	0.00E+00	3.19E-08
3922	599987.4	4175508	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.49E-08	0.00E+00	6.43E-08	1.01E-08	1.71E-08	0.00E+00	2.73E-08
3923	600193.8	4175770	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
3924	600241.7	4175830	1.3E-07	3.23E-07	0.00E+00	4.53E-07	1.30E-07	3.23E-07	0.00E+00	4.53E-07	2.11E-08	4.89E-08	0.00E+00	7.00E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
3925	599923.1	4175398	1.36E-07	3.39E-07	0.00E+00	4.76E-07	1.36E-07	3.39E-07	0.00E+00	4.76E-07	2.22E-08	5.13E-08	0.00E+00	7.35E-08	1.16E-08	1.96E-08	0.00E+00	3.11E-08
3926	599971.4	4175459	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.37E-08	5.47E-08	0.00E+00	7.84E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
3927	599997.4	4175492	1.29E-07	3.22E-07	0.00E+00	4.52E-07	1.29E-07	3.22E-07	0.00E+00	4.52E-07	2.10E-08	4.87E-08	0.00E+00	6.98E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
3928	600023.4	4175524	1.11E-07	2.76E-07	0.00E+00	3.86E-07	1.11E-07	2.76E-07	0.00E+00	3.86E-07	1.80E-08	4.17E-08	0.00E+00	5.97E-08	9.40E-09	1.59E-08	0.00E+00	2.53E-08
3929	600212.7	4175764	1.45E-07	3.62E-07	0.00E+00	5.08E-07	1.45E-07	3.62E-07	0.00E+00	5.08E-07	2.37E-08	5.48E-08	0.00E+00	7.84E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
3930	600257.2	4175821	1.31E-07	3.25E-07	0.00E+00	4.56E-07	1.31E-07	3.25E-07	0.00E+00	4.56E-07	2.12E-08	4.91E-08	0.00E+00	7.04E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
3931	599910	4175352	1.25E-07	3.11E-07	0.00E+00	4.35E-07	1.25E-07	3.11E-07	0.00E+00	4.35E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
3932	599984.1	4175445	1.39E-07	3.47E-07	0.00E+00	4.86E-07	1.39E-07	3.47E-07	0.00E+00	4.86E-07	2.27E-08	5.25E-08	0.00E+00	7.51E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08
3933	600228.6	4175755	1.49E-07	3.70E-07	0.00E+00	5.18E-07	1.49E-07	3.70E-07	0.00E+00	5.18E-07	2.42E-08	5.59E-08	0.00E+00	8.01E-08	1.26E-08	2.13E-08	0.00E+00	3.39E-08
3934	600276.7	4175816	1.26E-07	3.13E-07	0.00E+00	4.39E-07	1.26E-07	3.13E-07	0.00E+00	4.39E-07	2.04E-08	4.73E-08	0.00E+00	6.78E-08	1.07E-08	1.80E-08	0.00E+00	2.87E-08
3935	599945	4175366	1.25E-07	3.12E-07	0.00E+00	4.37E-07	1.25E-07	3.12E-07	0.00E+00	4.37E-07	2.04E-08	4.72E-08	0.00E+00	6.76E-08	1.06E-08	1.80E-08	0.00E+00	2.86E-08
3936	599970.8	4175399	1.18E-07	2.94E-07	0.00E+00	4.11E-07	1.18E-07	2.94E-07	0.00E+00	4.11E-07	1.92E-08	4.44E-08	0.00E+00	6.36E-08	1.00E-08	1.69E-08	0.00E+00	2.69E-08
3937	600018.9	4175460	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.35E-08	0.00E+00	6.24E-08	9.82E-09	1.66E-08	0.00E+00	2.64E-08
3938	600044.8	4175493	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.77E-08	4.11E-08	0.00E+00	5.88E-08	9.26E-09	1.56E-08	0.00E+00	2.49E-08
3939	600070.7	4175526	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.67E-08	8.93E-09	1.51E-08	0.00E+00	2.40E-08
3940	600288.8	4175802	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.22E-07	3.04E-07	0.00E+00	4.26E-07	1.99E-08	4.60E-08	0.00E+00	6.58E-08	1.04E-08	1.75E-08	0.00E+00	2.79E-08
3941	599979.9	4175381	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.91E-08	0.00E+00	5.61E-08	8.83E-09	1.49E-08	0.00E+00	2.37E-08
3942	600005.7	4175414	9.09E-08	2.26E-07	0.00E+00	3.17E-07	9.09E-08	2.26E-07	0.00E+00	3.17E-07	1.48E-08	3.42E-08	0.00E+00	4.90E-08	7.72E-09	1.30E-08	0.00E+00	2.08E-08
3943	600079.5	4175507	9.85E-08	2.45E-07	0.00E+00	3.44E-07	9.85E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.36E-09	1.41E-08	0.00E+00	2.25E-08
3944	600264	4175741	1.42E-07	3.53E-07	0.00E+00	4.95E-07	1.42E-07	3.53E-07	0.00E+00	4.95E-07	2.31E-08	5.34E-08	0.00E+00	7.65E-08	1.20E-08	2.04E-08	0.00E+00	3.24E-08
3945	600308.3	4175797	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.13E-07	2.81E-07	0.00E+00	3.94E-07	1.84E-08	4.26E-08	0.00E+00	6.09E-08	9.60E-09	1.62E-08	0.00E+00	2.58E-08
3946	599906.1	4175288	1.08E-07	2.70E-07	0.00E+00	3.79E-07	1.08E-07	2.70E-07	0.00E+00	3.79E-07	1.76E-08	4.08E-08	0.00E+00	5.85E-08	9.21E-09	1.56E-08	0.00E+00	2.48E-08
3947	599941.2	4175303	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.91E-08	4.42E-08	0.00E+00	6.33E-08	9.97E-09	1.69E-08	0.00E+00	2.68E-08
3948	599967.2	4175336	1.13E-07	2.80E-07	0.00E+00	3.93E-07	1.13E-07	2.80E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.07E-08	9.56E-09	1.62E-08	0.00E+00	2.57E-08
3949	600015.5	4175397	8.52E-08	2.12E-07	0.00E+00	2.97E-07	8.52E-08	2.12E-07	0.00E+00	2.97E-07	1.39E-08	3.21E-08	0.00E+00	4.59E-08	7.23E-09	1.22E-08	0.00E+00	1.95E-08
3950	600041.5	4175430	7.9E-08	1.97E-07	0.00E+00	2.76E-07	7.90E-08	1.97E-07	0.00E+00	2.76E-07	1.29E-08	2.97E-08	0.00E+00	4.26E-08	6.71E-09	1.13E-08	0.00E+00	1.80E-08
3951	600089.8	4175491	8.53E-08	2.12E-07	0.00E+00	2.98E-07	8.53E-08	2.12E-07	0.00E+00	2.98E-07	1.39E-08	3.21E-08	0.00E+00	4.60E-08	7.24E-09	1.22E-08	0.00E+00	1.95E-08
3952	600279.2	4175731	1.28E-07	3.19E-07	0.00E+00	4.47E-07	1.28E-07	3.19E-07	0.00E+00	4.47E-07	2.09E-08	4.83E-08	0.00E+00	6.91E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
3953	599915.2	4175270	1.07E-07	2.66E-07	0.00E+00	3.72E-07	1.07E-07	2.66E-07	0.00E+00	3.72E-07	1.73E-08	4.01E-08	0.00E+00	5.75E-08	9.05E-09	1.53E-08	0.00E+00	2.44E-08
3954	599928.1	4175257	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.74E-08	4.03E-08	0.00E+00	5.77E-08	9.09E-09	1.54E-08	0.00E+00	2.45E-08
3955	599976.3	4175318	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.09E-07	2.72E-07	0.00E+00	3.81E-07	1.78E-08	4.11E-08	0.00E+00	5.89E-08	9.28E-09	1.57E-08	0.00E+00	2.50E-08
3956	600002.2	4175351	9.31E-08	2.32E-07	0.00E+00	3.25E-07	9.31E-08	2.32E-07	0.00E+00	3.25E-07	1.52E-08	3.51E-08	0.00E+00	5.02E-08	7.91E-09	1.34E-08	0.00E+00	2.13E-08
3957	600295.1	4175722	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.17E-07	2.92E-07	0.00E+00	4.10E-07	1.91E-08	4.42E-08	0.00E+00	6.33E-08	9.97E-09	1.68E-08	0.00E+00	2.68E-08

3958	600339.5	4175778	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.66E-08	8.91E-09	1.51E-08	0.00E+00	2.40E-08
3959	599937.3	4175239	1.05E-07	2.62E-07	0.00E+00	3.68E-07	1.05E-07	2.62E-07	0.00E+00	3.68E-07	1.71E-08	3.97E-08	0.00E+00	5.68E-08	8.95E-09	1.51E-08	0.00E+00	2.41E-08
3960	599989.1	4175305	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.74E-08	4.04E-08	0.00E+00	5.78E-08	9.10E-09	1.54E-08	0.00E+00	2.45E-08
3961	600063.1	4175398	8.38E-08	2.09E-07	0.00E+00	2.93E-07	8.38E-08	2.09E-07	0.00E+00	2.93E-07	1.36E-08	3.16E-08	0.00E+00	4.52E-08	7.12E-09	1.20E-08	0.00E+00	1.92E-08
3962	600314.6	4175717	1.07E-07	2.65E-07	0.00E+00	3.72E-07	1.07E-07	2.65E-07	0.00E+00	3.72E-07	1.73E-08	4.01E-08	0.00E+00	5.75E-08	9.05E-09	1.53E-08	0.00E+00	2.43E-08
3963	600359	4175773	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.72E-09	1.47E-08	0.00E+00	2.35E-08
3964	599928.3	4175232	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.67E-08	3.86E-08	0.00E+00	5.52E-08	8.69E-09	1.47E-08	0.00E+00	2.34E-08
3965	599946.4	4175221	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.65E-09	1.46E-08	0.00E+00	2.33E-08
3966	599953.8	4175231	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.70E-08	3.93E-08	0.00E+00	5.62E-08	8.85E-09	1.50E-08	0.00E+00	2.38E-08
3967	599961.2	4175240	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.73E-08	3.99E-08	0.00E+00	5.72E-08	9.01E-09	1.52E-08	0.00E+00	2.42E-08
3968	599968.6	4175249	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.74E-08	4.03E-08	0.00E+00	5.77E-08	9.09E-09	1.54E-08	0.00E+00	2.45E-08
3969	599976	4175259	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.06E-08	0.00E+00	5.81E-08	9.15E-09	1.55E-08	0.00E+00	2.46E-08
3970	600024	4175320	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.92E-08	0.00E+00	5.61E-08	8.84E-09	1.49E-08	0.00E+00	2.38E-08
3971	600049.8	4175352	9.93E-08	2.47E-07	0.00E+00	3.47E-07	9.93E-08	2.47E-07	0.00E+00	3.47E-07	1.62E-08	3.74E-08	0.00E+00	5.35E-08	8.43E-09	1.43E-08	0.00E+00	2.27E-08
3972	600075.7	4175385	9.73E-08	2.42E-07	0.00E+00	3.40E-07	9.73E-08	2.42E-07	0.00E+00	3.40E-07	1.58E-08	3.66E-08	0.00E+00	5.25E-08	8.26E-09	1.40E-08	0.00E+00	2.22E-08
3973	600123.7	4175446	9.48E-08	2.36E-07	0.00E+00	3.31E-07	9.48E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.11E-08	8.05E-09	1.36E-08	0.00E+00	2.17E-08
3974	600282.5	4175647	1.02E-07	2.55E-07	0.00E+00	3.58E-07	1.02E-07	2.55E-07	0.00E+00	3.58E-07	1.67E-08	3.86E-08	0.00E+00	5.52E-08	8.70E-09	1.47E-08	0.00E+00	2.34E-08
3975	600330.5	4175708	9.96E-08	2.48E-07	0.00E+00	3.48E-07	9.96E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.37E-08	8.46E-09	1.43E-08	0.00E+00	2.27E-08
3976	600378.5	4175768	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.70E-08	3.94E-08	0.00E+00	5.64E-08	8.88E-09	1.50E-08	0.00E+00	2.39E-08
3977	599937.4	4175214	9.93E-08	2.47E-07	0.00E+00	3.47E-07	9.93E-08	2.47E-07	0.00E+00	3.47E-07	1.62E-08	3.74E-08	0.00E+00	5.35E-08	8.43E-09	1.43E-08	0.00E+00	2.27E-08
3978	599496.5	4175970	3.84E-06	9.56E-06	0.00E+00	1.34E-05	3.84E-06	9.56E-06	0.00E+00	1.34E-05	6.24E-07	1.45E-06	0.00E+00	2.07E-06	3.26E-07	5.51E-07	0.00E+00	8.77E-07
3979	599516.2	4175972	4.08E-06	1.02E-05	0.00E+00	1.43E-05	4.08E-06	1.02E-05	0.00E+00	1.43E-05	6.64E-07	1.54E-06	0.00E+00	2.20E-06	3.47E-07	5.86E-07	0.00E+00	9.33E-07
3980	599502.1	4175962	3.44E-06	8.57E-06	0.00E+00	1.20E-05	3.44E-06	8.57E-06	0.00E+00	1.20E-05	5.60E-07	1.30E-06	0.00E+00	1.86E-06	2.92E-07	4.94E-07	0.00E+00	7.86E-07
3981	599535.9	4175973	4.17E-06	1.04E-05	0.00E+00	1.46E-05	4.17E-06	1.04E-05	0.00E+00	1.46E-05	6.78E-07	1.57E-06	0.00E+00	2.25E-06	3.54E-07	5.98E-07	0.00E+00	9.52E-07
3982	599521.8	4175963	3.57E-06	8.90E-06	0.00E+00	1.25E-05	3.57E-06	8.90E-06	0.00E+00	1.25E-05	5.81E-07	1.35E-06	0.00E+00	1.93E-06	3.03E-07	5.13E-07	0.00E+00	8.16E-07
3983	599507.7	4175954	3.1E-06	7.72E-06	0.00E+00	1.08E-05	3.10E-06	7.72E-06	0.00E+00	1.08E-05	5.04E-07	1.17E-06	0.00E+00	1.67E-06	2.63E-07	4.45E-07	0.00E+00	7.08E-07
3984	599541.5	4175965	3.69E-06	9.18E-06	0.00E+00	1.29E-05	3.69E-06	9.18E-06	0.00E+00	1.29E-05	6.00E-07	1.39E-06	0.00E+00	1.99E-06	3.13E-07	5.29E-07	0.00E+00	8.42E-07
3985	599527.4	4175955	3.17E-06	7.90E-06	0.00E+00	1.11E-05	3.17E-06	7.90E-06	0.00E+00	1.11E-05	5.16E-07	1.19E-06	0.00E+00	1.71E-06	2.69E-07	4.55E-07	0.00E+00	7.25E-07
3986	599513.3	4175946	2.78E-06	6.92E-06	0.00E+00	9.69E-06	2.78E-06	6.92E-06	0.00E+00	9.69E-06	4.52E-07	1.05E-06	0.00E+00	1.50E-06	2.36E-07	3.99E-07	0.00E+00	6.34E-07
3987	599540	4175952	3.04E-06	7.57E-06	0.00E+00	1.06E-05	3.04E-06	7.57E-06	0.00E+00	1.06E-05	4.95E-07	1.15E-06	0.00E+00	1.64E-06	2.58E-07	4.36E-07	0.00E+00	6.95E-07
3988	599525.9	4175942	2.66E-06	6.62E-06	0.00E+00	9.28E-06	2.66E-06	6.62E-06	0.00E+00	9.28E-06	4.33E-07	1.00E-06	0.00E+00	1.43E-06	2.26E-07	3.82E-07	0.00E+00	6.08E-07
3989	599552.7	4175948	2.86E-06	7.13E-06	0.00E+00	9.99E-06	2.86E-06	7.13E-06	0.00E+00	9.99E-06	4.66E-07	1.08E-06	0.00E+00	1.54E-06	2.43E-07	4.11E-07	0.00E+00	6.54E-07
3990	599538.5	4175938	2.54E-06	6.33E-06	0.00E+00	8.88E-06	2.54E-06	6.33E-06	0.00E+00	8.88E-06	4.14E-07	9.58E-07	0.00E+00	1.37E-06	2.16E-07	3.65E-07	0.00E+00	5.81E-07
3991	599524.4	4175929	2.27E-06	5.66E-06	0.00E+00	7.93E-06	2.27E-06	5.66E-06	0.00E+00	7.93E-06	3.70E-07	8.56E-07	0.00E+00	1.23E-06	1.93E-07	3.26E-07	0.00E+00	5.19E-07
3992	599551.2	4175935	2.4E-06	5.98E-06	0.00E+00	8.38E-06	2.40E-06	5.98E-06	0.00E+00	8.38E-06	3.91E-07	9.04E-07	0.00E+00	1.30E-06	2.04E-07	3.45E-07	0.00E+00	5.49E-07
3993	599537.1	4175925	2.18E-06	5.43E-06	0.00E+00	7.61E-06	2.18E-06	5.43E-06	0.00E+00	7.61E-06	3.55E-07	8.21E-07	0.00E+00	1.18E-06	1.85E-07	3.13E-07	0.00E+00	4.98E-07
3994	599549.7	4175922	2.07E-06	5.15E-06	0.00E+00	7.22E-06	2.07E-06	5.15E-06	0.00E+00	7.22E-06	3.37E-07	7.79E-07	0.00E+00	1.12E-06	1.76E-07	2.97E-07	0.00E+00	4.73E-07
3995	599535.6	4175912	1.9E-06	4.73E-06	0.00E+00	6.63E-06	1.90E-06	4.73E-06	0.00E+00	6.63E-06	3.09E-07	7.15E-07	0.00E+00	1.02E-06	1.61E-07	2.73E-07	0.00E+00	4.34E-07
3996	599548.2	4175909	1.82E-06	4.53E-06	0.00E+00	6.35E-06	1.82E-06	4.53E-06	0.00E+00	6.35E-06	2.96E-07	6.85E-07	0.00E+00	9.80E-07	1.54E-07	2.61E-07	0.00E+00	4.15E-07
3997	599546.7	4175896	1.61E-06	4.01E-06	0.00E+00	5.63E-06	1.61E-06	4.01E-06	0.00E+00	5.63E-06	2.62E-07	6.07E-07	0.00E+00	8.69E-07	1.37E-07	2.31E-07	0.00E+00	3.68E-07
3998	599793.5	4175544	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
3999	599811.8	4175532	1.43E-07	3.56E-07	0.00E+00	4.99E-07	1.43E-07	3.56E-07	0.00E+00	4.99E-07	2.33E-08	5.39E-08	0.00E+00	7.71E-08	1.21E-08	2.05E-08	0.00E+00	3.27E-08
4000	599848.2	4175508	1.6E-07	3.98E-07	0.00E+00	5.58E-07	1.60E-07	3.98E-07	0.00E+00	5.58E-07	2.60E-08	6.02E-08	0.00E+00	8.62E-08	1.36E-08	2.29E-08	0.00E+00	3.65E-08
4001	599866.4	4175496	1.56E-07	3.87E-07	0.00E+00	5.43E-07	1.56E-07	3.87E-07	0.00E+00	5.43E-07	2.53E-08	5.85E-08	0.00E+00	8.38E-08	1.32E-08	2.23E-08	0.00E+00	3.55E-08
4002	599877.5	4175480	1.49E-07	3.72E-07	0.00E+00	5.21E-07	1.49E-07	3.72E-07	0.00E+00	5.21E-07	2.43E-08	5.62E-08	0.00E+00	8.06E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
4003	599895.7	4175468	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
4004	599906.9	4175451	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
4005	599918	4175434	1.43E-07	3.57E-07	0.00E+00	5.00E-07	1.43E-07	3.57E-07	0.00E+00	5.00E-07	2.33E-08	5.39E-08	0.00E+00	7.73E-08	1.22E-08	2.06E-08	0.00E+00	3.27E-08
4006	599964.9	4175273	1.1E-07	2.75E-07	0.00E+00	3.85E-07	1.10E-07	2.75E-07	0.00E+00	3.85E-07	1.79E-08	4.15E-08	0.00E+00	5.95E-08	9.36E-09	1.58E-08	0.00E+00	2.52E-08
4007	600029.6	4175268	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.81E-08	4.18E-08	0.00E+00	5.98E-08	9.42E-09	1.59E-08	0.00E+00	2.54E-08
4008	600015.5	4175259	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.08E-07	2.69E-07	0.00E+00	3.77E-07	1.76E-08	4.07E-08	0.00E+00	5.82E-08	9.17E-09	1.55E-08	0.00E+00	2.47E-08
4009	600001.3	4175249	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.06E-07	2.63E-07	0.00E+00	3.69E-07	1.72E-08	3.98E-08	0.00E+00	5.70E-08	8.98E-09	1.52E-08	0.00E+00	2.42E-08
4010	599987.2	4175240	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.66E-08	8.92E-09	1.51E-08	0.00E+00	2.40E-08
4011	599477.5	4175964	3.35E-06	8.34E-06	0.00E+00	1.17E-05	3.35E-06	8.34E-06	0.00E+00	1.17E-05	5.45E-07	1.26E-06	0.00E+00	1.81E-06	2.85E-07	4.81E-07	0.00E+00	7.66E-07
4012	599477.7	4175954	2.9E-06	7.21E-06	0.00E+00	1.01E-05	2.90E-06	7.21E-06	0.00E+00	1.01E-05	4.71E-07	1.09E-06	0.00E+00	1.56E-06	2.46E-07	4.15E-07	0.00E+00	6.61E-07
4013	599489.9	4175958	3.13E-06	7.78E-06	0.00E+00	1.09E-05	3.13E-06	7.78E-06	0.00E+00	1.09E-05	5.09E-07	1.18E-06	0.00E+00	1.69E-06	2.65E-07	4.49E-07	0.00E+00	7.14E-07
4014	599479.2	4175944	2.55E-06	6.36E-06	0.00E+00	8.91E-06	2.55E-06	6.36E-06	0.00E+00	8.91E-06	4.16E-07	9.62E-07	0.00E+00	1.38E-06	2.17E-07	3.67E-07	0.00E+00	5.83E-07
4015	599493.5	4175949	2.78E-06	6.93E-06	0.00E+00	9.71E-06	2.78E-06	6.93E-06	0.00E+00	9.71E-06	4.53E-07	1.05E-06	0.00E+00	1.50E-06	2.36E-07	3.99E-07	0.00E+00	6.35E-07
4016	599479.4	4175934	2.26E-06	5.63E-06	0.00E+00	7.89E-06	2.26E-06	5.63E-06	0.00E+00	7.89E-06	3.68E-07	8.51E-07	0.00E+00	1.22E-06	1.92E-07	3.25E-07	0.00E+00	5.17E-07
4017	599492.9	4175939	2.43E-06	6.04E-06	0.00E+00	8.47E-06	2.43E-06	6.04E-06	0.00E+00	8.47E-06	3.95E-07	9.14E-07	0.00E+00	1.31E-06	2.06E-07	3.48E-07	0.00E+00	5.54E-07
4018	599479.6	4175924	2.02E-06	5.03E-06	0.00E+00	7.05E-06	2.02E-06	5.03E-06	0.00E+00	7.05E-06	3.28E-07	7.60E-07	0.00E+00	1.09E-06	1.71E-07	2.90E-07	0.00E+00	4.61E-07
4019	599492.7	4175929	2.14E-06	5.33E-06	0.00E+00	7.47E-06	2.14E-06	5.33E-06	0.00E+00	7.47E-06	3.48E-07	8.06E-07	0.00E+00	1.15E-06	1.82E-07	3.07E-07	0.00E+00	4.89E-07
4020	599505.8	4175933	2.31E-06	5.75E-06	0.00E+00	8.06E-06	2.31E-06	5.75E-06	0.00E+00	8.06E-06	3.76E-07	8.70E-07	0.00E+00	1.25E-06	1.96E-07	3.32E-07	0.00E+00	5.28E-07
4021	599480.8	4175915	1.82E-06	4.53E-06	0.00E+00	6.35E-06	1.82E-06	4.53E-06	0.00E+00	6.35E-06	2.96E-07	6.85E-07	0.00E+00	9.81E-07	1.54E-07	2.61E-07	0.00E+00	4.16E-07
4022	599495.4	4175919	1.94E-06	4.83E-06	0.00E+00	6.77E-06	1.94E-06	4.83E-06	0.00E+00	6.77E-06	3.16E-07	7.30E-07	0.00E+00	1.05E-06	1.65E-07	2.78E-07	0.00E+00	4.43E-07
4023	599509.9	4175924	2.09E-06	5.21E-06	0.00E+00	7.30E-06	2.09E-06	5.21E-06	0.00E+00	7.30E-06	3.40E-07	7.88E-07	0.00E+00	1.13E-06	1.78E-07	3.00E-07	0.00E+00	4.78E-07
4024	599495	4175909	1.74E-06	4.34E-06	0.00E+00	6.09E-06	1.74E-06	4.34E-06	0.00E+00	6.09E-06	2.84E-07	6.57E-07	0.00E+00	9.41E-07	1.48E-07	2.50E-07	0.00E+00	3.98E-07
4025	599509	4175914	1.87E-06	4.66E-06	0.00E+00	6.53E-06	1.87E-06	4.66E-06	0.00E+00	6.53E-06	3.04E-07	7.04E-07	0.00E+00	1.01E-06	1.59E-07	2.68E-07	0.00E+00	4.27E-07
4026	599523	4175918	2.02E-06	5.03E-06	0.00E+00	7.05E-06	2.02E-06	5.03E-06	0.00E+00	7.05E-06	3.29E-07	7.60E-07	0.00E+00	1.09E-06	1.71E-07	2.90E-07	0.00E+00	4.61E-07
4027	599494.9	4175899	1.58E-06	3.94E-06	0.00E+00	5.52E-06	1.58E-06	3.94E-06	0.00E+00	5.52E-06	2.57E-07	5.95E-07	0.00E+00	8.52E-07	1.34E-07	2.27E-07	0.00E+00	3.61E-07
4028	599508.5	4175903	1.69E-06	4.20E-06	0.00E+00	5.88E-06	1.69E-06	4.20E-06	0.00E+00	5.88E-06	2.74E-07	6.34E-07	0.00E+00	9.09E-07	1.43E-07	2.42E-07	0.00E+00	3.85E-07
4029	599522	4175908	1.8E-06	4.49E-06	0.00E+00	6.29E-06	1.80E-06	4.49E-06	0.00E+00	6.29E-06	2.93E-07	6.79E-07	0.00E+00	9.72E-07	1.53E-07	2.59E-07	0.00E+00	4.12E-07
4030	599497.1	4175889	1.45E-06	3.62E-06	0.00E+00	5.07E-06	1.45E-06	3.62E-06	0.00E+00	5.07E-06	2.37E-07	5.47E-07	0.00E+00	7.84E-07	1.23E-07	2.09E-07	0.00E+00	3.32E-07
4031	599511.8	4175894	1.56E-06	3.87E-06	0.00E+00	5.43E-06	1.56E-06	3.87E-06	0.00E+00	5.43E-06	2.53E-07	5.86E-07	0.00E+00	8.39E-07	1.32E-07	2.23E-07	0.00E+00	3.55E-07
4032	599526.5	4175899	1.66E-06	4.14E-06	0.00E+00	5.81E-06	1.66E-06	4.14E-06	0.00E+00	5.81E-06	2.71E-07	6.26E-07	0.00E+00	8.97E-07	1.41E-07	2.39E-07	0.00E+00	3.80E-07
4033	599496.9	4175879	1.33E-06	3.31E-06	0.00E+00	4.64E-06	1.33E-06	3.31E-06	0.00E+00	4.64E-06	2.16E-07	5.01E-07	0.00E+00	7.17E-07	1.13E-07	1.91E-07	0.00E+00	3.04E-07
4034	599511.1	4175884	1.42E-06	3.53E-06	0.00E+00	4.94E-06	1.42E-06	3.53E-06	0.00E+00	4.94E-06	2.30E-07	5.33E-07	0.00E+00	7.63E-07	1.20E-07	2.03E-07	0.00E+00	3.23E-07
4035	599525.4	4175889	1.51E-06	3.76E-06	0.00E+00	5.27E-06	1.51E-06	3.76E-06	0.00E+00	5.27E-06	2.46E-07	5.68E-07	0.00E+00	8.14E-07	1.28E-07	2.17E-07	0.00E+00	3.45E-07
4036	599496.8	4175869	1.22E-06	3.04E-06	0.00E+00	4.27E-06	1.22E-06	3.04E-06	0.00E+00	4.27E-06	1.99E-07	4.60E-07	0.00E+00	6.59E-07	1.04E-07	1.75E-07	0.00E+00	2.79E-07
4037	599510.7	4175874	1.3E-06	3.23E-06	0.00E+00	4.52E-06	1.30E-06	3.23E-06	0.00E+00	4.52E-06	2.11E-07	4.88E-07	0.00E+00	6.99E-07	1.10E-07	1.86E-07	0.00E+00	2.96E-07
4038	599524.6	4175878	1.38E-06	3.43E-06	0.00E+00	4.81E-06	1.38E-06	3.43E-06	0.00E+00	4.81E-06	2.24E-07	5.19E-07	0.00E+00	7.44E-07	1.17E-07	1.98E-07	0.00E+00	3.15E-07
4039	599538.4	4175883	1.44E-06	3.58E-06	0.00E+00	5.02E-06	1.44E-06	3.58E-06	0.00E+00	5.02E-06	2.34E-07	5.42E-07	0.00E+00	7.76E-07	1.22E-07	2.07E-07	0.00E+00	3.29E-07
4040	599496.9	4175859	1.12E-06	2.80E-06	0.00E+00	3.92E-06	1.12E-06	2.80E-06	0.00E+00	3.92E-06	1.83E-07	4.23E-07	0.00E+00	6.06E-07	9.55E-08	1.61E-07	0.00E+00	2.57E-07
4041	599510.4	4175863	1.19E-06	2.97E-06	0.00E+00	4.16E-06	1.19E-06	2.97E-06	0.00E+00	4.16E-06	1.94E-07	4.49E-07	0.00E+00	6.43E-07	1.01E-07	1.71E-07	0.00E+00	2.72E-07
4042	599524	4175868	1.27E-06	3.15E-06	0.00E+00	4.42E-06	1.27E-06	3.15E-06	0.00E+00	4.42E-06	2.06E-07	4.76E-07	0.00E+00	6.82E-07	1.07E-07	1.82E-07	0.00E+00	2.89E-07
4043	599537.5	4175872	1.32E-06	3.28E-06	0.00E+00	4.59E-06	1.32E-06	3.28E-06	0.00E+00	4.59E-06	2.14E-07	4.96E-07	0.00E+00	7.10E-07	1.12E-07	1.89E-07	0.00E+00	3.01E-07
4044	599498.6	4175849	1.05E-06	2.60E-06	0.00E+00	3.65E-06	1.05E-06	2.60E-06	0.00E+00	3.65E-06	1.70E-07	3.93E-07	0.00E+00	5.63E-07	8.87E-08	1.50E-07	0.00E+00	2.39E-07
4045	599513	4175854	1.11E-06	2.77E-06	0.00E+00	3.89E-06	1.11E-06	2.77E-06	0.00E+00	3.89E-06	1.81E-07	4.19E-07	0.00E+00	6.01E-07	9.46E-08	1.60E-07	0.00E+00	2.54E-07
4046	599527.4	4175859	1.18E-06	2.94E-06	0.00E+00	4.12E-06	1.18E-06	2.94E-06	0.00E+00	4.12E-06	1.92E-07	4.44E-07	0.00E+00	6.36E-07	1.00E-07	1.69E-07	0.00E+00	2.69E-07
4047	599541.8	4175864	1.22E-06	3.05E-06	0.00E+00	4.27E-06	1.22E-06	3.05E-06	0.00E+00	4.27E-06	1.99E-07	4.61E-07	0.00E+00	6.60E-07	1.04E-07	1.76E-07	0.00E+00	2.80E-07
4048	599498.6	4175839	9.67E-07	2.41E-06	0.00E+00	3.38E-06	9.67E-07	2.41E-06	0.00E+00	3.38E-06	1.57E-07	3.64E-07	0.00E+00	5.22E-07	8.21E-08	1.39E-07	0.00E+00	2.21E-07
4049	599512.7	4175844	1.03E-06	2.57E-06	0.00E+00	3.60E-06	1.03E-06	2.57E-06	0.00E+00	3.60E-06	1.68E-07	3.88E-07	0.00E+00	5.56E-07	8.76E-08	1.48E-07	0.00E+00	2.36E-07
4050	599526.8	4175849	1.09E-06	2.71E-06	0.00E+00	3.80E-06	1.09E-06	2.71E-06	0.00E+00	3.80E-06	1.77E-07	4.10E-07	0.00E+00	5.88E-07	9.25E-08	1.56E-07	0.00E+00	2.49E-07
4051	599540.9	4175853	1.13E-06	2.81E-06	0.00E+00	3.95E-06	1.13E-06	2.81E-06	0.00E+00	3.95E-06	1.84E-07	4.26E-07	0.00E+00	6.10E-07	9.60E-08	1.62E-07	0.00E+00	2.58E-07
4052	599484.9	4175825	8.48E-07	2.11E-06	0.00E+00	2.96E-06	8.48E-07	2.11E-06	0.00E+00	2.96E-06	1.38E-07	3.19E-07	0.00E+00	4.57E-07	7.20E-08	1.22E-07	0.00E+00	1.94E-07
4053	599498.7	4175829	9.01E-07	2.24E-06	0.00E+00	3.15E-06	9.01E-07	2.24E-06	0.00E+00	3.15E-06	1.47E-07	3.39E-07	0.00E+00	4.86E-07	7.65E-08	1.29E-07	0.00E+00	2.06E-07
4054	599512.5	4175834	9.59E-07	2.39E-06	0.00E+00	3.35E-06	9.59E-07	2.39E-06	0.00E+00	3.35E-06	1.56E-07	3.61E-07	0.00E+00	5.17E-07	8.14E-08	1.38E-07	0.00E+00	2.19E-07
4055	599526.3	4175838	1.01E-06	2.52E-06	0.00E+00	3.53E-06	1.01E-06	2.52E-06	0.00E+00	3.53E-06	1.64E-07	3.81E-07	0.00E+00	5.45E-07	8.58E-08	1.45E-07	0.00E+00	2.31E-07
4056	599540.1	4175843	1.05E-06	2.61E-06	0.00E+00	3.66E-06	1.05E-06	2.61E-06	0.00E+00	3.66E-06	1.70E-07	3.94E-07	0.00E+00	5.65E-07	8.89E-08	1.50E-07	0.00E+00	2.39E-07
4057	599485.7	4175815	7.97E-07	1.98E-06	0.00E+00	2.78E-06	7.97E-07	1.98E-06	0.00E+00	2.78E-06	1.30E-07	3.00E-07	0.00E+00	4.30E-07	6.77E-08	1.14E-07	0.00E+00	1.82E-07
4058	599500.3	4175819	8.49E-07	2.11E-06	0.00E+00	2.96E-06	8.49E-07	2.11E-06	0.00E+00	2.96E-06	1.38E-07	3.20E-07	0.00E+00	4.58E-07	7.21E-08	1.22E-07	0.00E+00	1.94E-07
4059	599514.8	4175824	9.04E-07	2.25E-06	0.00E+00	3.15E-06	9.04E-07	2.25E-06	0.00E+00	3.15E-06	1.47E-07	3.40E-07	0.00E+00	4.87E-07	7.67E-08	1.30E-07	0.00E+00	2.06E-07
4060	599529.3	4175829	9.5E-07	2.36E-06	0.00E+00	3.31E-06	9.50E-07	2.36E-06	0.00E+00	3.31E-06	1.55E-07	3.58E-07	0.00E+00	5.12E-07	8.06E-08	1.36E-07	0.00E+00	2.17E-07
4061	599543.9	4175834	9.83E-07	2.45E-06	0.00E+00	3.43E-06	9.83E-07	2.45E-06	0.00E+00	3.43E-06	1.60E-07	3.70E-07	0.00E+00	5.30E-07	8.35E-08	1.41E-07	0.00E+00	2.25E-07
4062	599486.1	4175805	7.49E-07	1.87E-06	0.00E+00	2.61E-06	7.49E-07	1.87E-06	0.00E+00	2.61E-06	1.22E-07	2.82E-07	0.00E+00	4.04E-07	6.36E-08	1.07E-07	0.00E+00	1.71E-07
4063	599500.3	4175809	7.96E-07	1.98E-06	0.00E+00	2.78E-06	7.96E-07	1.98E-06	0.00E+00	2.78E-06	1.29E-07	3.00E-07	0.00E+00	4.29E-07	6.76E-08	1.14E-07	0.00E+00	1.82E-07
4064	599514.6	4175814	8.44E-07	2.10E-06	0.00E+00	2.95E-06	8.44E-07	2.10E-06	0.00E+00	2.95E-06	1.37E-07	3.18E-07	0.00E+00	4.55E-07	7.17E-08	1.21E-07	0.00E+00	1.93E-07
4065	599528.8	4175819	8.86E-07	2.21E-06	0.00E+00	3.09E-06	8.86E-07	2.21E-06	0.00E+00	3.09E-06	1.44E-07	3.34E-07	0.00E+00	4.78E-07	7.52E-08	1.27E-07	0.00E+00	2.02E-07
4066	599543	4175824	9.16E-07	2.28E-06	0.00E+00	3.20E-06	9.16E-07	2.28E-06	0.00E+00	3.20E-06	1.49E-07	3.45E-07	0.00E+00	4.94E-07	7.78E-08	1.32E-07	0.00E+00	2.09E-07
4067	599486.4	4175795	7.01E-07	1.75E-06	0.00E+00	2.45E-06	7.01E-07	1.75E-06	0.00E+00	2.45E-06	1.14E-07	2.64E-07	0.00E+00	3.78E-07	5.95E-08	1.01E-07	0.00E+00	1.60E-07

4068	599500.4	4175799	7.49E-07	1.86E-06	0.00E+00	2.61E-06	7.49E-07	1.86E-06	0.00E+00	2.61E-06	1.22E-07	2.82E-07	0.00E+00	4.04E-07	6.36E-08	1.07E-07	0.00E+00	1.71E-07
4069	599514.4	4175804	7.92E-07	1.97E-06	0.00E+00	2.77E-06	7.92E-07	1.97E-06	0.00E+00	2.77E-06	1.29E-07	2.98E-07	0.00E+00	4.27E-07	6.73E-08	1.14E-07	0.00E+00	1.81E-07
4070	599528.4	4175809	8.29E-07	2.06E-06	0.00E+00	2.89E-06	8.29E-07	2.06E-06	0.00E+00	2.89E-06	1.35E-07	3.12E-07	0.00E+00	4.47E-07	7.04E-08	1.19E-07	0.00E+00	1.89E-07
4071	599542.4	4175813	8.57E-07	2.13E-06	0.00E+00	2.99E-06	8.57E-07	2.13E-06	0.00E+00	2.99E-06	1.39E-07	3.23E-07	0.00E+00	4.62E-07	7.27E-08	1.23E-07	0.00E+00	1.96E-07
4072	599487.3	4175785	6.6E-07	1.64E-06	0.00E+00	2.30E-06	6.60E-07	1.64E-06	0.00E+00	2.30E-06	1.07E-07	2.49E-07	0.00E+00	3.56E-07	5.60E-08	9.47E-08	0.00E+00	1.51E-07
4073	599501.9	4175790	7.1E-07	1.77E-06	0.00E+00	2.48E-06	7.10E-07	1.77E-06	0.00E+00	2.48E-06	1.16E-07	2.67E-07	0.00E+00	3.83E-07	6.03E-08	1.02E-07	0.00E+00	1.62E-07
4074	599516.5	4175794	7.54E-07	1.88E-06	0.00E+00	2.63E-06	7.54E-07	1.88E-06	0.00E+00	2.63E-06	1.23E-07	2.84E-07	0.00E+00	4.06E-07	6.40E-08	1.08E-07	0.00E+00	1.72E-07
4075	599531.1	4175799	7.83E-07	1.95E-06	0.00E+00	2.73E-06	7.83E-07	1.95E-06	0.00E+00	2.73E-06	1.27E-07	2.95E-07	0.00E+00	4.22E-07	6.65E-08	1.12E-07	0.00E+00	1.79E-07
4076	599545.7	4175804	8.08E-07	2.01E-06	0.00E+00	2.82E-06	8.08E-07	2.01E-06	0.00E+00	2.82E-06	1.32E-07	3.04E-07	0.00E+00	4.36E-07	6.86E-08	1.16E-07	0.00E+00	1.85E-07
4077	599487.6	4175775	6.22E-07	1.55E-06	0.00E+00	2.17E-06	6.22E-07	1.55E-06	0.00E+00	2.17E-06	1.01E-07	2.34E-07	0.00E+00	3.35E-07	5.28E-08	8.92E-08	0.00E+00	1.42E-07
4078	599502	4175779	6.71E-07	1.67E-06	0.00E+00	2.34E-06	6.71E-07	1.67E-06	0.00E+00	2.34E-06	1.09E-07	2.53E-07	0.00E+00	3.62E-07	5.70E-08	9.64E-08	0.00E+00	1.53E-07
4079	599516.3	4175784	7.09E-07	1.77E-06	0.00E+00	2.48E-06	7.09E-07	1.77E-06	0.00E+00	2.48E-06	1.15E-07	2.67E-07	0.00E+00	3.83E-07	6.02E-08	1.02E-07	0.00E+00	1.62E-07
4080	599530.7	4175789	7.35E-07	1.83E-06	0.00E+00	2.56E-06	7.35E-07	1.83E-06	0.00E+00	2.56E-06	1.20E-07	2.77E-07	0.00E+00	3.96E-07	6.24E-08	1.05E-07	0.00E+00	1.68E-07
4081	599545.1	4175794	7.57E-07	1.89E-06	0.00E+00	2.64E-06	7.57E-07	1.89E-06	0.00E+00	2.64E-06	1.23E-07	2.85E-07	0.00E+00	4.08E-07	6.43E-08	1.09E-07	0.00E+00	1.73E-07
4082	599488	4175765	5.91E-07	1.47E-06	0.00E+00	2.06E-06	5.91E-07	1.47E-06	0.00E+00	2.06E-06	9.62E-08	2.23E-07	0.00E+00	3.19E-07	5.02E-08	8.48E-08	0.00E+00	1.35E-07
4083	599502.1	4175769	6.37E-07	1.59E-06	0.00E+00	2.22E-06	6.37E-07	1.59E-06	0.00E+00	2.22E-06	1.04E-07	2.40E-07	0.00E+00	3.43E-07	5.41E-08	9.14E-08	0.00E+00	1.45E-07
4084	599516.2	4175774	6.69E-07	1.67E-06	0.00E+00	2.33E-06	6.69E-07	1.67E-06	0.00E+00	2.33E-06	1.09E-07	2.52E-07	0.00E+00	3.61E-07	5.68E-08	9.60E-08	0.00E+00	1.53E-07
4085	599530.4	4175779	6.91E-07	1.72E-06	0.00E+00	2.41E-06	6.91E-07	1.72E-06	0.00E+00	2.41E-06	1.12E-07	2.60E-07	0.00E+00	3.73E-07	5.87E-08	9.92E-08	0.00E+00	1.58E-07
4086	599544.5	4175783	7.11E-07	1.77E-06	0.00E+00	2.48E-06	7.11E-07	1.77E-06	0.00E+00	2.48E-06	1.16E-07	2.68E-07	0.00E+00	3.84E-07	6.04E-08	1.02E-07	0.00E+00	1.62E-07
4087	599488.8	4175755	5.64E-07	1.40E-06	0.00E+00	1.97E-06	5.64E-07	1.40E-06	0.00E+00	1.97E-06	9.18E-08	2.12E-07	0.00E+00	3.04E-07	4.79E-08	8.10E-08	0.00E+00	1.29E-07
4088	599503.5	4175760	6.09E-07	1.52E-06	0.00E+00	2.12E-06	6.09E-07	1.52E-06	0.00E+00	2.12E-06	9.90E-08	2.29E-07	0.00E+00	3.28E-07	5.17E-08	8.74E-08	0.00E+00	1.39E-07
4089	599518.1	4175765	6.34E-07	1.58E-06	0.00E+00	2.21E-06	6.34E-07	1.58E-06	0.00E+00	2.21E-06	1.03E-07	2.39E-07	0.00E+00	3.42E-07	5.39E-08	9.10E-08	0.00E+00	1.45E-07
4090	599532.8	4175769	6.54E-07	1.63E-06	0.00E+00	2.28E-06	6.54E-07	1.63E-06	0.00E+00	2.28E-06	1.06E-07	2.46E-07	0.00E+00	3.53E-07	5.55E-08	9.38E-08	0.00E+00	1.49E-07
4091	599547.5	4175774	6.71E-07	1.67E-06	0.00E+00	2.34E-06	6.71E-07	1.67E-06	0.00E+00	2.34E-06	1.09E-07	2.53E-07	0.00E+00	3.62E-07	5.70E-08	9.63E-08	0.00E+00	1.53E-07
4092	599489.1	4175745	5.37E-07	1.34E-06	0.00E+00	1.88E-06	5.37E-07	1.34E-06	0.00E+00	1.88E-06	8.74E-08	2.02E-07	0.00E+00	2.90E-07	4.56E-08	7.71E-08	0.00E+00	1.23E-07
4093	599503.6	4175750	5.79E-07	1.44E-06	0.00E+00	2.02E-06	5.79E-07	1.44E-06	0.00E+00	2.02E-06	9.42E-08	2.18E-07	0.00E+00	3.12E-07	4.92E-08	8.31E-08	0.00E+00	1.32E-07
4094	599518	4175754	5.99E-07	1.49E-06	0.00E+00	2.09E-06	5.99E-07	1.49E-06	0.00E+00	2.09E-06	9.75E-08	2.26E-07	0.00E+00	3.23E-07	5.09E-08	8.60E-08	0.00E+00	1.37E-07
4095	599489.5	4175735	5.09E-07	1.27E-06	0.00E+00	1.78E-06	5.09E-07	1.27E-06	0.00E+00	1.78E-06	8.28E-08	1.92E-07	0.00E+00	2.74E-07	4.32E-08	7.30E-08	0.00E+00	1.16E-07
4096	599503.8	4175739	5.5E-07	1.37E-06	0.00E+00	1.92E-06	5.50E-07	1.37E-06	0.00E+00	1.92E-06	8.94E-08	2.07E-07	0.00E+00	2.96E-07	4.67E-08	7.89E-08	0.00E+00	1.26E-07
4097	599518	4175744	5.68E-07	1.41E-06	0.00E+00	1.98E-06	5.68E-07	1.41E-06	0.00E+00	1.98E-06	9.23E-08	2.14E-07	0.00E+00	3.06E-07	4.82E-08	8.14E-08	0.00E+00	1.30E-07
4098	599489.9	4175725	4.83E-07	1.20E-06	0.00E+00	1.68E-06	4.83E-07	1.20E-06	0.00E+00	1.68E-06	7.85E-08	1.82E-07	0.00E+00	2.60E-07	4.10E-08	6.93E-08	0.00E+00	1.10E-07
4099	599504	4175729	5.21E-07	1.30E-06	0.00E+00	1.82E-06	5.21E-07	1.30E-06	0.00E+00	1.82E-06	8.48E-08	1.96E-07	0.00E+00	2.81E-07	4.42E-08	7.48E-08	0.00E+00	1.19E-07
4100	599490.6	4175715	4.6E-07	1.14E-06	0.00E+00	1.60E-06	4.60E-07	1.14E-06	0.00E+00	1.60E-06	7.48E-08	1.73E-07	0.00E+00	2.48E-07	3.90E-08	6.60E-08	0.00E+00	1.05E-07
4101	599505.2	4175720	4.97E-07	1.24E-06	0.00E+00	1.73E-06	4.97E-07	1.24E-06	0.00E+00	1.73E-06	8.08E-08	1.87E-07	0.00E+00	2.68E-07	4.22E-08	7.13E-08	0.00E+00	1.14E-07
4102	599475.6	4175712	4.34E-07	1.08E-06	0.00E+00	1.51E-06	4.34E-07	1.08E-06	0.00E+00	1.51E-06	7.06E-08	1.63E-07	0.00E+00	2.34E-07	3.68E-08	6.22E-08	0.00E+00	9.91E-08
4103	599491	4175705	4.4E-07	1.10E-06	0.00E+00	1.54E-06	4.40E-07	1.10E-06	0.00E+00	1.54E-06	7.17E-08	1.66E-07	0.00E+00	2.37E-07	3.74E-08	6.32E-08	0.00E+00	1.01E-07
4104	599505.4	4175710	4.74E-07	1.18E-06	0.00E+00	1.65E-06	4.74E-07	1.18E-06	0.00E+00	1.65E-06	7.71E-08	1.78E-07	0.00E+00	2.55E-07	4.02E-08	6.80E-08	0.00E+00	1.08E-07
4105	599476.1	4175702	4.17E-07	1.04E-06	0.00E+00	1.45E-06	4.17E-07	1.04E-06	0.00E+00	1.45E-06	6.78E-08	1.57E-07	0.00E+00	2.25E-07	3.54E-08	5.98E-08	0.00E+00	9.51E-08
4106	599492.1	4175685	4.06E-07	1.01E-06	0.00E+00	1.42E-06	4.06E-07	1.01E-06	0.00E+00	1.42E-06	6.61E-08	1.53E-07	0.00E+00	2.19E-07	3.45E-08	5.83E-08	0.00E+00	9.28E-08
4107	599506.7	4175690	4.35E-07	1.08E-06	0.00E+00	1.52E-06	4.35E-07	1.08E-06	0.00E+00	1.52E-06	7.08E-08	1.64E-07	0.00E+00	2.35E-07	3.70E-08	6.25E-08	0.00E+00	9.94E-08
4108	599477.1	4175682	3.85E-07	9.58E-07	0.00E+00	1.34E-06	3.85E-07	9.58E-07	0.00E+00	1.34E-06	6.26E-08	1.45E-07	0.00E+00	2.07E-07	3.27E-08	5.52E-08	0.00E+00	8.79E-08
4109	599492.9	4175665	3.72E-07	9.27E-07	0.00E+00	1.30E-06	3.72E-07	9.27E-07	0.00E+00	1.30E-06	6.06E-08	1.40E-07	0.00E+00	2.01E-07	3.16E-08	5.35E-08	0.00E+00	8.51E-08
4110	599507.2	4175670	3.96E-07	9.86E-07	0.00E+00	1.38E-06	3.96E-07	9.86E-07	0.00E+00	1.38E-06	6.44E-08	1.49E-07	0.00E+00	2.13E-07	3.36E-08	5.68E-08	0.00E+00	9.04E-08
4111	599478.1	4175662	3.56E-07	8.86E-07	0.00E+00	1.24E-06	3.56E-07	8.86E-07	0.00E+00	1.24E-06	5.79E-08	1.34E-07	0.00E+00	1.92E-07	3.02E-08	5.11E-08	0.00E+00	8.13E-08
4112	599494	4175645	3.41E-07	8.48E-07	0.00E+00	1.19E-06	3.41E-07	8.48E-07	0.00E+00	1.19E-06	5.54E-08	1.28E-07	0.00E+00	1.84E-07	2.89E-08	4.89E-08	0.00E+00	7.78E-08
4113	599508.5	4175650	3.6E-07	8.96E-07	0.00E+00	1.26E-06	3.60E-07	8.96E-07	0.00E+00	1.26E-06	5.86E-08	1.36E-07	0.00E+00	1.94E-07	3.06E-08	5.17E-08	0.00E+00	8.22E-08
4114	599479.1	4175642	3.27E-07	8.15E-07	0.00E+00	1.14E-06	3.27E-07	8.15E-07	0.00E+00	1.14E-06	5.32E-08	1.23E-07	0.00E+00	1.76E-07	2.78E-08	4.69E-08	0.00E+00	7.47E-08
4115	599495.1	4175625	3.1E-07	7.73E-07	0.00E+00	1.08E-06	3.10E-07	7.73E-07	0.00E+00	1.08E-06	5.05E-08	1.17E-07	0.00E+00	1.67E-07	2.64E-08	4.45E-08	0.00E+00	7.09E-08
4116	599509.8	4175630	3.24E-07	8.07E-07	0.00E+00	1.13E-06	3.24E-07	8.07E-07	0.00E+00	1.13E-06	5.27E-08	1.22E-07	0.00E+00	1.75E-07	2.75E-08	4.65E-08	0.00E+00	7.41E-08
4117	599480	4175622	3.01E-07	7.51E-07	0.00E+00	1.05E-06	3.01E-07	7.51E-07	0.00E+00	1.05E-06	4.90E-08	1.14E-07	0.00E+00	1.63E-07	2.56E-08	4.33E-08	0.00E+00	6.89E-08
4118	599496	4175605	2.9E-07	7.22E-07	0.00E+00	1.01E-06	2.90E-07	7.22E-07	0.00E+00	1.01E-06	4.72E-08	1.09E-07	0.00E+00	1.56E-07	2.46E-08	4.16E-08	0.00E+00	6.62E-08
4119	599510.3	4175610	3E-07	7.47E-07	0.00E+00	1.05E-06	3.00E-07	7.47E-07	0.00E+00	1.05E-06	4.88E-08	1.13E-07	0.00E+00	1.62E-07	2.55E-08	4.31E-08	0.00E+00	6.85E-08
4120	599481	4175602	2.82E-07	7.02E-07	0.00E+00	9.83E-07	2.82E-07	7.02E-07	0.00E+00	9.83E-07	4.58E-08	1.06E-07	0.00E+00	1.52E-07	2.39E-08	4.04E-08	0.00E+00	6.44E-08
4121	599497	4175585	2.72E-07	6.78E-07	0.00E+00	9.51E-07	2.72E-07	6.78E-07	0.00E+00	9.51E-07	4.43E-08	1.03E-07	0.00E+00	1.47E-07	2.31E-08	3.91E-08	0.00E+00	6.22E-08
4122	599511.6	4175590	2.82E-07	7.02E-07	0.00E+00	9.84E-07	2.82E-07	7.02E-07	0.00E+00	9.84E-07	4.59E-08	1.06E-07	0.00E+00	1.52E-07	2.39E-08	4.05E-08	0.00E+00	6.44E-08
4123	599526.2	4175595	3E-07	7.47E-07	0.00E+00	1.05E-06	3.00E-07	7.47E-07	0.00E+00	1.05E-06	4.88E-08	1.13E-07	0.00E+00	1.62E-07	2.55E-08	4.31E-08	0.00E+00	6.86E-08
4124	599482	4175582	2.64E-07	6.58E-07	0.00E+00	9.22E-07	2.64E-07	6.58E-07	0.00E+00	9.22E-07	4.30E-08	9.95E-08	0.00E+00	1.42E-07	2.24E-08	3.79E-08	0.00E+00	6.04E-08
4125	599497.9	4175565	2.57E-07	6.41E-07	0.00E+00	8.98E-07	2.57E-07	6.41E-07	0.00E+00	8.98E-07	4.19E-08	9.69E-08	0.00E+00	1.39E-07	2.18E-08	3.69E-08	0.00E+00	5.88E-08
4126	599512.2	4175570	2.67E-07	6.65E-07	0.00E+00	9.32E-07	2.67E-07	6.65E-07	0.00E+00	9.32E-07	4.35E-08	1.01E-07	0.00E+00	1.44E-07	2.27E-08	3.83E-08	0.00E+00	6.10E-08
4127	599526.5	4175574	2.82E-07	7.02E-07	0.00E+00	9.83E-07	2.82E-07	7.02E-07	0.00E+00	9.83E-07	4.58E-08	1.06E-07	0.00E+00	1.52E-07	2.39E-08	4.04E-08	0.00E+00	6.44E-08
4128	599483	4175562	2.49E-07	6.20E-07	0.00E+00	8.69E-07	2.49E-07	6.20E-07	0.00E+00	8.69E-07	4.05E-08	9.37E-08	0.00E+00	1.34E-07	2.11E-08	3.57E-08	0.00E+00	5.68E-08
4129	599499	4175545	2.45E-07	6.10E-07	0.00E+00	8.55E-07	2.45E-07	6.10E-07	0.00E+00	8.55E-07	3.98E-08	9.22E-08	0.00E+00	1.32E-07	2.08E-08	3.52E-08	0.00E+00	5.59E-08
4130	599513.4	4175550	2.54E-07	6.32E-07	0.00E+00	8.86E-07	2.54E-07	6.32E-07	0.00E+00	8.86E-07	4.13E-08	9.55E-08	0.00E+00	1.37E-07	2.15E-08	3.64E-08	0.00E+00	5.80E-08
4131	599527.9	4175555	2.66E-07	6.62E-07	0.00E+00	9.27E-07	2.66E-07	6.62E-07	0.00E+00	9.27E-07	4.32E-08	1.00E-07	0.00E+00	1.43E-07	2.26E-08	3.81E-08	0.00E+00	6.07E-08
4132	599484	4175542	2.37E-07	5.91E-07	0.00E+00	8.28E-07	2.37E-07	5.91E-07	0.00E+00	8.28E-07	3.86E-08	8.93E-08	0.00E+00	1.28E-07	2.01E-08	3.40E-08	0.00E+00	5.42E-08
4133	599500	4175525	2.33E-07	5.79E-07	0.00E+00	8.12E-07	2.33E-07	5.79E-07	0.00E+00	8.12E-07	3.79E-08	8.76E-08	0.00E+00	1.25E-07	1.98E-08	3.34E-08	0.00E+00	5.32E-08
4134	599514.7	4175530	2.41E-07	6.01E-07	0.00E+00	8.42E-07	2.41E-07	6.01E-07	0.00E+00	8.42E-07	3.93E-08	9.08E-08	0.00E+00	1.30E-07	2.05E-08	3.46E-08	0.00E+00	5.51E-08
4135	599529.3	4175535	2.51E-07	6.24E-07	0.00E+00	8.75E-07	2.51E-07	6.24E-07	0.00E+00	8.75E-07	4.08E-08	9.44E-08	0.00E+00	1.35E-07	2.13E-08	3.60E-08	0.00E+00	5.73E-08
4136	599485	4175522	2.25E-07	5.60E-07	0.00E+00	7.84E-07	2.25E-07	5.60E-07	0.00E+00	7.84E-07	3.66E-08	8.46E-08	0.00E+00	1.21E-07	1.91E-08	3.23E-08	0.00E+00	5.13E-08
4137	599500.9	4175505	2.21E-07	5.50E-07	0.00E+00	7.71E-07	2.21E-07	5.50E-07	0.00E+00	7.71E-07	3.59E-08	8.31E-08	0.00E+00	1.19E-07	1.88E-08	3.17E-08	0.00E+00	5.04E-08
4138	599515.3	4175510	2.29E-07	5.70E-07	0.00E+00	7.99E-07	2.29E-07	5.70E-07	0.00E+00	7.99E-07	3.73E-08	8.62E-08	0.00E+00	1.23E-07	1.94E-08	3.29E-08	0.00E+00	5.23E-08
4139	599529.7	4175515	2.36E-07	5.89E-07	0.00E+00	8.25E-07	2.36E-07	5.89E-07	0.00E+00	8.25E-07	3.85E-08	8.90E-08	0.00E+00	1.27E-07	2.01E-08	3.39E-08	0.00E+00	5.40E-08
4140	599485.9	4175502	2.13E-07	5.30E-07	0.00E+00	7.42E-07	2.13E-07	5.30E-07	0.00E+00	7.42E-07	3.46E-08	8.01E-08	0.00E+00	1.15E-07	1.81E-08	3.05E-08	0.00E+00	4.86E-08
4141	599501.9	4175485	2.09E-07	5.21E-07	0.00E+00	7.30E-07	2.09E-07	5.21E-07	0.00E+00	7.30E-07	3.40E-08	7.87E-08	0.00E+00	1.13E-07	1.78E-08	3.00E-08	0.00E+00	4.78E-08
4142	599516.5	4175490	2.17E-07	5.40E-07	0.00E+00	7.57E-07	2.17E-07	5.40E-07	0.00E+00	7.57E-07	3.53E-08	8.17E-08	0.00E+00	1.17E-07	1.84E-08	3.11E-08	0.00E+00	4.95E-08
4143	599531.1	4175495	2.23E-07	5.55E-07	0.00E+00	7.78E-07	2.23E-07	5.55E-07	0.00E+00	7.78E-07	3.63E-08	8.40E-08	0.00E+00	1.20E-07	1.89E-08	3.20E-08	0.00E+00	5.09E-08
4144	599486.9	4175482	2.02E-07	5.02E-07	0.00E+00	7.04E-07	2.02E-07	5.02E-07	0.00E+00	7.04E-07	3.28E-08	7.59E-08	0.00E+00	1.09E-07	1.71E-08	2.89E-08	0.00E+00	4.61E-08
4145	599502.8	4175465	1.97E-07	4.90E-07	0.00E+00	6.87E-07	1.97E-07	4.90E-07	0.00E+00	6.87E-07	3.20E-08	7.41E-08	0.00E+00	1.06E-07	1.67E-08	2.83E-08	0.00E+00	4.50E-08
4146	599517.2	4175470	2.05E-07	5.09E-07	0.00E+00	7.14E-07	2.05E-07	5.09E-07	0.00E+00	7.14E-07	3.33E-08	7.70E-08	0.00E+00	1.10E-07	1.74E-08	2.94E-08	0.00E+00	4.67E-08
4147	599531.5	4175475	2.11E-07	5.24E-07	0.00E+00	7.35E-07	2.11E-07	5.24E-07	0.00E+00	7.35E-07	3.43E-08	7.93E-08	0.00E+00	1.14E-07	1.79E-08	3.02E-08	0.00E+00	4.81E-08
4148	599768.2	4175553	9.16E-08	2.28E-07	0.00E+00	3.20E-07	9.16E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.78E-09	1.32E-08	0.00E+00	2.09E-08
4149	599487.9	4175462	1.9E-07	4.73E-07	0.00E+00	6.64E-07	1.90E-07	4.73E-07	0.00E+00	6.64E-07	3.09E-08	7.16E-08	0.00E+00	1.03E-07	1.61E-08	2.73E-08	0.00E+00	4.34E-08
4150	599503.9	4175445	1.85E-07	4.60E-07	0.00E+00	6.44E-07	1.85E-07	4.60E-07	0.00E+00	6.44E-07	3.00E-08	6.95E-08	0.00E+00	9.95E-08	1.57E-08	2.65E-08	0.00E+00	4.22E-08
4151	599518.4	4175450	1.92E-07	4.78E-07	0.00E+00	6.70E-07	1.92E-07	4.78E-07	0.00E+00	6.70E-07	3.12E-08	7.22E-08	0.00E+00	1.03E-07	1.63E-08	2.75E-08	0.00E+00	4.38E-08
4152	599532.9	4175455	1.99E-07	4.96E-07	0.00E+00	6.95E-07	1.99E-07	4.96E-07	0.00E+00	6.95E-07	3.24E-08	7.50E-08	0.00E+00	1.07E-07	1.69E-08	2.86E-08	0.00E+00	4.55E-08
4153	599569.1	4175467	2.06E-07	5.12E-07	0.00E+00	7.18E-07	2.06E-07	5.12E-07	0.00E+00	7.18E-07	3.35E-08	7.75E-08	0.00E+00	1.11E-07	1.75E-08	2.95E-08	0.00E+00	4.70E-08
4154	599764.8	4175532	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.65E-08	3.81E-08	0.00E+00	5.45E-08	8.59E-09	1.45E-08	0.00E+00	2.31E-08
4155	599488.9	4175442	1.79E-07	4.46E-07	0.00E+00	6.25E-07	1.79E-07	4.46E-07	0.00E+00	6.25E-07	2.91E-08	6.75E-08	0.00E+00	9.66E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
4156	599504.9	4175425	1.75E-07	4.35E-07	0.00E+00	6.09E-07	1.75E-07	4.35E-07	0.00E+00	6.09E-07	2.84E-08	6.57E-08	0.00E+00	9.41E-08	1.48E-08	2.51E-08	0.00E+00	3.99E-08
4157	599519.6	4175430	1.81E-07	4.50E-07	0.00E+00	6.31E-07	1.81E-07	4.50E-07	0.00E+00	6.31E-07	2.94E-08	6.81E-08	0.00E+00	9.75E-08	1.54E-08	2.59E-08	0.00E+00	4.13E-08
4158	599534.2	4175435	1.88E-07	4.68E-07	0.00E+00	6.55E-07	1.88E-07	4.68E-07	0.00E+00	6.55E-07	3.06E-08	7.07E-08	0.00E+00	1.01E-07	1.59E-08	2.69E-08	0.00E+00	4.29E-08
4159	599761.1	4175510	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.51E-08	8.68E-09	1.47E-08	0.00E+00	2.33E-08
4160	599489.9	4175422	1.7E-07	4.24E-07	0.00E+00	5.94E-07	1.70E-07	4.24E-07	0.00E+00	5.94E-07	2.77E-08	6.41E-08	0.00E+00	9.18E-08	1.45E-08	2.44E-08	0.00E+00	3.89E-08
4161	599505.8	4175405	1.65E-07	4.12E-07	0.00E+00	5.77E-07	1.65E-07	4.12E-07	0.00E+00	5.77E-07	2.69E-08	6.22E-08	0.00E+00	8.91E-08	1.40E-08	2.37E-08	0.00E+00	3.78E-08
4162	599520.2	4175410	1.7E-07	4.24E-07	0.00E+00	5.95E-07	1.70E-07	4.24E-07	0.00E+00	5.95E-07	2.77E-08	6.42E-08	0.00E+00	9.19E-08	1.45E-08	2.45E-08	0.00E+00	3.89E-08
4163	599534.6	4175415	1.77E-07	4.40E-07	0.00E+00	6.17E-07	1.77E-07	4.40E-07	0.00E+00	6.17E-07	2.87E-08	6.65E-08	0.00E+00	9.53E-08	1.50E-08	2.54E-08	0.00E+00	4.04E-08
4164	599490.8	4175402	1.62E-07	4.04E-07	0.00E+00	5.66E-07	1.62E-07	4.04E-07	0.00E+00	5.66E-07	2.64E-08	6.10E-08	0.00E+00	8.74E-08	1.38E-08	2.33E-08	0.00E+00	3.70E-08
4165	599506.8	4175385	1.57E-07	3.90E-07	0.00E+00	5.47E-07	1.57E-07	3.90E-07	0.00E+00	5.47E-07	2.55E-08	5.90E-08	0.00E+00	8.45E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
4166	599521.4	4175390	1.61E-07	4.00E-07	0.00E+00	5.61E-07	1.61E-07	4.00E-07	0.00E+00	5.61E-07	2.61E-08	6.05E-08	0.00E+00	8.66E-08	1.36E-08	2.31E-08	0.00E+00	3.67E-08
4167	599536	4175395	1.66E-07	4.12E-07	0.00E+00	5.78E-07	1.66E-07	4.12E-07	0.00E+00	5.78E-07	2.69E-08	6.23E-08	0.00E+00	8.93E-08	1.41E-08	2.38E-08	0.00E+00	3.78E-08
4168	599491.8	4175382	1.54E-07	3.84E-07	0.00E+00	5.39E-07	1.54E-07	3.84E-07	0.00E+00	5.39E-07	2.51E-08	5.81E-08	0.00E+00	8.32E-08	1.31E-08	2.21E-08	0.00E+00	3.52E-08
4169	599507.9	4175365	1.5E-07	3.72E-07	0.00E+00	5.22E-07	1.50E-07	3.72E-07	0.00E+00	5.22E-07	2.43E-08	5.63E-08	0.00E+00	8.06E-08	1.27E-08	2.15E-08	0.00E+00	3.42E-08
4170	599522.6	4175370	1.53E-07	3.81E-07	0.00E+00	5.34E-07	1.53E-07	3.81E-07	0.00E+00	5.34E-07	2.49E-08	5.76E-08	0.00E+00	8.25E-08	1.30E-08	2.20E-08	0.00E+00	3.50E-08
4171	599537.3	4175375	1.57E-07	3.90E-07	0.00E+00	5.47E-07	1.57E-07	3.90E-07	0.00E+00	5.47E-07	2.55E-08	5.90E-08	0.00E+00	8.45E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
4172	599772.3	4175453	9.53E-08	2.37E-07	0.00E+00	3.33E-07	9.53E-08	2.37E-07	0.00E+00	3.33E-07	1.55E-08	3.59E-08	0.00E+00	5.14E-08	8.09E-09	1.37E-08	0.00E+00	2.18E-08
4173	599492.8	4175362	1.47E-07	3.65E-07	0.00E+00	5.12E-07	1.47E-07	3.65E-07	0.00E+00	5.12E-07	2.38E-08	5.52E-08	0.00E+00	7.90E-08	1.24E-08	2.10E-08	0.00E+00	3.35E-08
4174	599508.8	4175345	1.43E-07	3.56E-07	0.00E+00	4.99E-07	1.43E-07	3.56E-07	0.00E+00	4.99E-07	2.33E-08	5.39E-08	0.00E+00	7.72E-08	1.21E-08	2.05E-08	0.00E+00	3.27E-08
4175	599523.3	4175350	1.46E-07	3.64E-07	0.00E+00	5.11E-07	1.46E-07	3.64E-07	0.00E+00	5.11E-07	2.38E-08	5.51E-08	0.00E+00	7.89E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
4176	599777	4175434	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.73E-08	4.00E-08	0.00E+00	5.73E-08	9.03E-09	1.53E-08	0.00E+00	2.43E-08
4177	599493.8	4175342	1.41E-07	3.50E-07	0.00E+00	4.91E-07	1.41E-07	3.50E-07	0.00E+00	4.91E-07	2.29E-08	5.30E-08	0.00E+00	7.58E-08	1.19E-08	2.02E-08	0.00E+00	3.21E-08

4178	599765.7	4175410	1.38E-07	3.43E-07	0.00E+00	4.81E-07	1.38E-07	3.43E-07	0.00E+00	4.81E-07	2.24E-08	5.19E-08	0.00E+00	7.43E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
4179	599777.9	4175394	1.19E-07	2.97E-07	0.00E+00	4.17E-07	1.19E-07	2.97E-07	0.00E+00	4.17E-07	1.94E-08	4.50E-08	0.00E+00	6.44E-08	1.01E-08	1.71E-08	0.00E+00	2.73E-08
4180	599495.7	4175302	1.3E-07	3.25E-07	0.00E+00	4.55E-07	1.30E-07	3.25E-07	0.00E+00	4.55E-07	2.12E-08	4.91E-08	0.00E+00	7.03E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
4181	599511.7	4175285	1.28E-07	3.18E-07	0.00E+00	4.46E-07	1.28E-07	3.18E-07	0.00E+00	4.46E-07	2.08E-08	4.81E-08	0.00E+00	6.88E-08	1.08E-08	1.83E-08	0.00E+00	2.92E-08
4182	599766.5	4175370	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.50E-08	8.66E-09	1.46E-08	0.00E+00	2.33E-08
4183	599781.1	4175375	9.93E-08	2.47E-07	0.00E+00	3.46E-07	9.93E-08	2.47E-07	0.00E+00	3.46E-07	1.62E-08	3.74E-08	0.00E+00	5.35E-08	8.43E-09	1.42E-08	0.00E+00	2.27E-08
4184	599496.7	4175283	1.25E-07	3.12E-07	0.00E+00	4.37E-07	1.25E-07	3.12E-07	0.00E+00	4.37E-07	2.04E-08	4.72E-08	0.00E+00	6.76E-08	1.06E-08	1.80E-08	0.00E+00	2.86E-08
4185	599512.8	4175265	1.23E-07	3.05E-07	0.00E+00	4.28E-07	1.23E-07	3.05E-07	0.00E+00	4.28E-07	2.00E-08	4.62E-08	0.00E+00	6.62E-08	1.04E-08	1.76E-08	0.00E+00	2.80E-08
4186	599769.5	4175350	8.6E-08	2.14E-07	0.00E+00	3.00E-07	8.60E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.24E-08	0.00E+00	4.64E-08	7.30E-09	1.23E-08	0.00E+00	1.96E-08
4187	599497.7	4175263	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
4188	599513.7	4175245	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.18E-07	2.94E-07	0.00E+00	4.12E-07	1.92E-08	4.44E-08	0.00E+00	6.36E-08	1.00E-08	1.69E-08	0.00E+00	2.70E-08
4189	599542.7	4175255	1.24E-07	3.10E-07	0.00E+00	4.34E-07	1.24E-07	3.10E-07	0.00E+00	4.34E-07	2.02E-08	4.68E-08	0.00E+00	6.71E-08	1.06E-08	1.79E-08	0.00E+00	2.84E-08
4190	599782	4175334	7.32E-08	1.82E-07	0.00E+00	2.55E-07	7.32E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.76E-08	0.00E+00	3.95E-08	6.22E-09	1.05E-08	0.00E+00	1.67E-08
4191	599498.7	4175243	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.16E-07	2.89E-07	0.00E+00	4.05E-07	1.89E-08	4.37E-08	0.00E+00	6.25E-08	9.85E-09	1.66E-08	0.00E+00	2.65E-08
4192	599514.7	4175225	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.84E-08	4.26E-08	0.00E+00	6.11E-08	9.62E-09	1.63E-08	0.00E+00	2.59E-08
4193	599543.9	4175235	1.2E-07	2.98E-07	0.00E+00	4.18E-07	1.20E-07	2.98E-07	0.00E+00	4.18E-07	1.95E-08	4.51E-08	0.00E+00	6.45E-08	1.02E-08	1.72E-08	0.00E+00	2.73E-08
4194	599733.8	4175298	7.38E-08	1.84E-07	0.00E+00	2.58E-07	7.38E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.78E-08	0.00E+00	3.98E-08	6.27E-09	1.06E-08	0.00E+00	1.69E-08
4195	599770.4	4175310	7.13E-08	1.78E-07	0.00E+00	2.49E-07	7.13E-08	1.78E-07	0.00E+00	2.49E-07	1.16E-08	2.68E-08	0.00E+00	3.84E-08	6.05E-09	1.02E-08	0.00E+00	1.63E-08
4196	599499.7	4175223	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.19E-08	0.00E+00	5.99E-08	9.44E-09	1.60E-08	0.00E+00	2.54E-08
4197	599515.6	4175205	1.08E-07	2.70E-07	0.00E+00	3.79E-07	1.08E-07	2.70E-07	0.00E+00	3.79E-07	1.76E-08	4.08E-08	0.00E+00	5.85E-08	9.21E-09	1.56E-08	0.00E+00	2.48E-08
4198	599544.5	4175215	1.15E-07	2.86E-07	0.00E+00	4.00E-07	1.15E-07	2.86E-07	0.00E+00	4.00E-07	1.87E-08	4.32E-08	0.00E+00	6.18E-08	9.74E-09	1.65E-08	0.00E+00	2.62E-08
4199	599732.4	4175277	6.97E-08	1.73E-07	0.00E+00	2.43E-07	6.97E-08	1.73E-07	0.00E+00	2.43E-07	1.13E-08	2.62E-08	0.00E+00	3.76E-08	5.91E-09	1.00E-08	0.00E+00	1.59E-08
4200	599783	4175294	6.92E-08	1.72E-07	0.00E+00	2.42E-07	6.92E-08	1.72E-07	0.00E+00	2.42E-07	1.13E-08	2.61E-08	0.00E+00	3.73E-08	5.88E-09	9.93E-09	0.00E+00	1.58E-08
4201	599500.6	4175203	1.07E-07	2.65E-07	0.00E+00	3.72E-07	1.07E-07	2.65E-07	0.00E+00	3.72E-07	1.73E-08	4.01E-08	0.00E+00	5.74E-08	9.04E-09	1.53E-08	0.00E+00	2.43E-08
4202	599516.6	4175185	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.05E-07	2.61E-07	0.00E+00	3.65E-07	1.70E-08	3.94E-08	0.00E+00	5.64E-08	8.89E-09	1.50E-08	0.00E+00	2.39E-08
4203	599669.5	4175236	7.95E-08	1.98E-07	0.00E+00	2.77E-07	7.95E-08	1.98E-07	0.00E+00	2.77E-07	1.29E-08	2.99E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
4204	599735	4175258	6.81E-08	1.70E-07	0.00E+00	2.38E-07	6.81E-08	1.70E-07	0.00E+00	2.38E-07	1.11E-08	2.57E-08	0.00E+00	3.67E-08	5.79E-09	9.78E-09	0.00E+00	1.56E-08
4205	599785.9	4175275	7.54E-08	1.88E-07	0.00E+00	2.63E-07	7.54E-08	1.88E-07	0.00E+00	2.63E-07	1.23E-08	2.84E-08	0.00E+00	4.06E-08	6.40E-09	1.08E-08	0.00E+00	1.72E-08
4206	599501.6	4175183	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.73E-09	1.47E-08	0.00E+00	2.35E-08
4207	599517.7	4175165	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.64E-08	3.80E-08	0.00E+00	5.45E-08	8.58E-09	1.45E-08	0.00E+00	2.31E-08
4208	599656.9	4175212	7.2E-08	1.79E-07	0.00E+00	2.51E-07	7.20E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.71E-08	0.00E+00	3.88E-08	6.11E-09	1.03E-08	0.00E+00	1.64E-08
4209	599671.5	4175216	6.81E-08	1.70E-07	0.00E+00	2.38E-07	6.81E-08	1.70E-07	0.00E+00	2.38E-07	1.11E-08	2.57E-08	0.00E+00	3.67E-08	5.78E-09	9.78E-09	0.00E+00	1.56E-08
4210	599737.5	4175238	6.86E-08	1.71E-07	0.00E+00	2.39E-07	6.86E-08	1.71E-07	0.00E+00	2.39E-07	1.12E-08	2.58E-08	0.00E+00	3.70E-08	5.82E-09	9.84E-09	0.00E+00	1.57E-08
4211	599502.6	4175163	9.92E-08	2.47E-07	0.00E+00	3.46E-07	9.92E-08	2.47E-07	0.00E+00	3.46E-07	1.61E-08	3.74E-08	0.00E+00	5.35E-08	8.43E-09	1.42E-08	0.00E+00	2.27E-08
4212	599518.6	4175145	9.77E-08	2.43E-07	0.00E+00	3.41E-07	9.77E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.68E-08	0.00E+00	5.27E-08	8.30E-09	1.40E-08	0.00E+00	2.23E-08
4213	599533.1	4175150	1E-07	2.50E-07	0.00E+00	3.50E-07	1.00E-07	2.50E-07	0.00E+00	3.50E-07	1.63E-08	3.77E-08	0.00E+00	5.40E-08	8.51E-09	1.44E-08	0.00E+00	2.29E-08
4214	599656.4	4175191	6.88E-08	1.71E-07	0.00E+00	2.40E-07	6.88E-08	1.71E-07	0.00E+00	2.40E-07	1.12E-08	2.59E-08	0.00E+00	3.71E-08	5.84E-09	9.87E-09	0.00E+00	1.57E-08
4215	599670.9	4175196	6.31E-08	1.57E-07	0.00E+00	2.20E-07	6.31E-08	1.57E-07	0.00E+00	2.20E-07	1.03E-08	2.38E-08	0.00E+00	3.40E-08	5.36E-09	9.06E-09	0.00E+00	1.44E-08
4216	599736.2	4175218	6.81E-08	1.69E-07	0.00E+00	2.38E-07	6.81E-08	1.69E-07	0.00E+00	2.38E-07	1.11E-08	2.56E-08	0.00E+00	3.67E-08	5.78E-09	9.77E-09	0.00E+00	1.55E-08
4217	599779.7	4175232	7.98E-08	1.99E-07	0.00E+00	2.78E-07	7.98E-08	1.99E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.30E-08	6.77E-09	1.14E-08	0.00E+00	1.82E-08
4218	599794.2	4175237	8.34E-08	2.08E-07	0.00E+00	2.91E-07	8.34E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.50E-08	7.08E-09	1.20E-08	0.00E+00	1.90E-08
4219	599503.6	4175143	9.59E-08	2.39E-07	0.00E+00	3.35E-07	9.59E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.61E-08	0.00E+00	5.17E-08	8.14E-09	1.38E-08	0.00E+00	2.19E-08
4220	599519.6	4175125	9.48E-08	2.36E-07	0.00E+00	3.31E-07	9.48E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.11E-08	8.05E-09	1.36E-08	0.00E+00	2.16E-08
4221	599658.3	4175172	6.88E-08	1.71E-07	0.00E+00	2.40E-07	6.88E-08	1.71E-07	0.00E+00	2.40E-07	1.12E-08	2.59E-08	0.00E+00	3.71E-08	5.84E-09	9.87E-09	0.00E+00	1.57E-08
4222	599672.9	4175176	6.51E-08	1.62E-07	0.00E+00	2.27E-07	6.51E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.45E-08	0.00E+00	3.51E-08	5.53E-09	9.34E-09	0.00E+00	1.49E-08
4223	599738.6	4175198	6.85E-08	1.70E-07	0.00E+00	2.39E-07	6.85E-08	1.70E-07	0.00E+00	2.39E-07	1.11E-08	2.58E-08	0.00E+00	3.69E-08	5.81E-09	9.82E-09	0.00E+00	1.56E-08
4224	599775.1	4175210	7.93E-08	1.97E-07	0.00E+00	2.77E-07	7.93E-08	1.97E-07	0.00E+00	2.77E-07	1.29E-08	2.99E-08	0.00E+00	4.27E-08	6.73E-09	1.14E-08	0.00E+00	1.81E-08
4225	599504.6	4175123	9.25E-08	2.30E-07	0.00E+00	3.23E-07	9.25E-08	2.30E-07	0.00E+00	3.23E-07	1.51E-08	3.48E-08	0.00E+00	4.99E-08	7.86E-09	1.33E-08	0.00E+00	2.11E-08
4226	599520.6	4175106	9.19E-08	2.29E-07	0.00E+00	3.21E-07	9.19E-08	2.29E-07	0.00E+00	3.21E-07	1.49E-08	3.46E-08	0.00E+00	4.95E-08	7.80E-09	1.32E-08	0.00E+00	2.10E-08
4227	599623.5	4175140	8.33E-08	2.08E-07	0.00E+00	2.91E-07	8.33E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.49E-08	7.08E-09	1.20E-08	0.00E+00	1.90E-08
4228	599638.2	4175145	7.85E-08	1.95E-07	0.00E+00	2.74E-07	7.85E-08	1.95E-07	0.00E+00	2.74E-07	1.28E-08	2.95E-08	0.00E+00	4.23E-08	6.66E-09	1.13E-08	0.00E+00	1.79E-08
4229	599652.9	4175149	7.47E-08	1.86E-07	0.00E+00	2.61E-07	7.47E-08	1.86E-07	0.00E+00	2.61E-07	1.22E-08	2.81E-08	0.00E+00	4.03E-08	6.34E-09	1.07E-08	0.00E+00	1.71E-08
4230	599667.6	4175154	7.15E-08	1.78E-07	0.00E+00	2.50E-07	7.15E-08	1.78E-07	0.00E+00	2.50E-07	1.16E-08	2.69E-08	0.00E+00	3.86E-08	6.08E-09	1.03E-08	0.00E+00	1.63E-08
4231	599733.7	4175176	6.63E-08	1.65E-07	0.00E+00	2.31E-07	6.63E-08	1.65E-07	0.00E+00	2.31E-07	1.08E-08	2.50E-08	0.00E+00	3.58E-08	5.63E-09	9.52E-09	0.00E+00	1.51E-08
4232	599777.7	4175191	8.09E-08	2.01E-07	0.00E+00	2.82E-07	8.09E-08	2.01E-07	0.00E+00	2.82E-07	1.32E-08	3.04E-08	0.00E+00	4.36E-08	6.87E-09	1.16E-08	0.00E+00	1.85E-08
4233	599505.5	4175103	8.93E-08	2.22E-07	0.00E+00	3.12E-07	8.93E-08	2.22E-07	0.00E+00	3.12E-07	1.45E-08	3.36E-08	0.00E+00	4.82E-08	7.58E-09	1.28E-08	0.00E+00	2.04E-08
4234	599623.4	4175119	8.21E-08	2.04E-07	0.00E+00	2.86E-07	8.21E-08	2.04E-07	0.00E+00	2.86E-07	1.34E-08	3.09E-08	0.00E+00	4.43E-08	6.97E-09	1.18E-08	0.00E+00	1.87E-08
4235	599638	4175124	7.99E-08	1.99E-07	0.00E+00	2.79E-07	7.99E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.31E-08	6.79E-09	1.15E-08	0.00E+00	1.83E-08
4236	599652.5	4175129	7.81E-08	1.94E-07	0.00E+00	2.72E-07	7.81E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.63E-09	1.12E-08	0.00E+00	1.78E-08
4237	599667.1	4175134	7.68E-08	1.91E-07	0.00E+00	2.68E-07	7.68E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.14E-08	6.52E-09	1.10E-08	0.00E+00	1.75E-08
4238	599681.6	4175139	7.39E-08	1.84E-07	0.00E+00	2.58E-07	7.39E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.78E-08	0.00E+00	3.99E-08	6.28E-09	1.06E-08	0.00E+00	1.69E-08
4239	599696.2	4175143	7.18E-08	1.79E-07	0.00E+00	2.51E-07	7.18E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.70E-08	0.00E+00	3.87E-08	6.10E-09	1.03E-08	0.00E+00	1.64E-08
4240	599710.7	4175148	7.15E-08	1.78E-07	0.00E+00	2.50E-07	7.15E-08	1.78E-07	0.00E+00	2.50E-07	1.16E-08	2.69E-08	0.00E+00	3.86E-08	6.07E-09	1.03E-08	0.00E+00	1.63E-08
4241	599725.3	4175153	6.94E-08	1.73E-07	0.00E+00	2.42E-07	6.94E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.61E-08	0.00E+00	3.74E-08	5.89E-09	9.96E-09	0.00E+00	1.58E-08
4242	599739.8	4175158	7.17E-08	1.78E-07	0.00E+00	2.50E-07	7.17E-08	1.78E-07	0.00E+00	2.50E-07	1.17E-08	2.70E-08	0.00E+00	3.86E-08	6.09E-09	1.03E-08	0.00E+00	1.64E-08
4243	599776.2	4175170	8.1E-08	2.02E-07	0.00E+00	2.83E-07	8.10E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.88E-09	1.16E-08	0.00E+00	1.85E-08
4244	599790.8	4175175	8.58E-08	2.14E-07	0.00E+00	2.99E-07	8.58E-08	2.14E-07	0.00E+00	2.99E-07	1.40E-08	3.23E-08	0.00E+00	4.63E-08	7.29E-09	1.23E-08	0.00E+00	1.96E-08
4245	599805.3	4175180	9.17E-08	2.28E-07	0.00E+00	3.20E-07	9.17E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.78E-09	1.32E-08	0.00E+00	2.09E-08
4246	599819.9	4175184	9.48E-08	2.36E-07	0.00E+00	3.31E-07	9.48E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.11E-08	8.05E-09	1.36E-08	0.00E+00	2.16E-08
4247	599834.4	4175189	9.55E-08	2.38E-07	0.00E+00	3.33E-07	9.55E-08	2.38E-07	0.00E+00	3.33E-07	1.55E-08	3.59E-08	0.00E+00	5.15E-08	8.11E-09	1.37E-08	0.00E+00	2.18E-08
4248	599849	4175194	9.45E-08	2.35E-07	0.00E+00	3.30E-07	9.45E-08	2.35E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.10E-08	8.03E-09	1.36E-08	0.00E+00	2.16E-08
4249	599863.5	4175199	9.13E-08	2.27E-07	0.00E+00	3.18E-07	9.13E-08	2.27E-07	0.00E+00	3.18E-07	1.48E-08	3.44E-08	0.00E+00	4.92E-08	7.75E-09	1.31E-08	0.00E+00	2.08E-08
4250	599878.1	4175204	8.82E-08	2.20E-07	0.00E+00	3.08E-07	8.82E-08	2.20E-07	0.00E+00	3.08E-07	1.44E-08	3.32E-08	0.00E+00	4.76E-08	7.49E-09	1.27E-08	0.00E+00	2.02E-08
4251	599892.6	4175209	8.72E-08	2.17E-07	0.00E+00	3.04E-07	8.72E-08	2.17E-07	0.00E+00	3.04E-07	1.42E-08	3.28E-08	0.00E+00	4.70E-08	7.40E-09	1.25E-08	0.00E+00	1.99E-08
4252	599907.2	4175213	8.95E-08	2.23E-07	0.00E+00	3.12E-07	8.95E-08	2.23E-07	0.00E+00	3.12E-07	1.46E-08	3.37E-08	0.00E+00	4.83E-08	7.60E-09	1.28E-08	0.00E+00	2.04E-08
4253	599921.7	4175218	9.66E-08	2.40E-07	0.00E+00	3.37E-07	9.66E-08	2.40E-07	0.00E+00	3.37E-07	1.57E-08	3.64E-08	0.00E+00	5.21E-08	8.20E-09	1.39E-08	0.00E+00	2.21E-08
4254	599936.3	4175223	1.02E-07	2.53E-07	0.00E+00	3.54E-07	1.02E-07	2.53E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.47E-08	8.62E-09	1.46E-08	0.00E+00	2.32E-08
4255	599972.7	4175235	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.66E-08	8.91E-09	1.51E-08	0.00E+00	2.40E-08
4256	599506.5	4175083	8.62E-08	2.15E-07	0.00E+00	3.01E-07	8.62E-08	2.15E-07	0.00E+00	3.01E-07	1.40E-08	3.25E-08	0.00E+00	4.65E-08	7.32E-09	1.24E-08	0.00E+00	1.97E-08
4257	599421.3	4175664	3.44E-07	8.56E-07	0.00E+00	1.20E-06	3.44E-07	8.56E-07	0.00E+00	1.20E-06	5.59E-08	1.29E-07	0.00E+00	1.85E-07	2.92E-08	4.93E-08	0.00E+00	7.85E-08
4258	599370.1	4175665	3.61E-07	8.98E-07	0.00E+00	1.26E-06	3.61E-07	8.98E-07	0.00E+00	1.26E-06	5.87E-08	1.36E-07	0.00E+00	1.94E-07	3.06E-08	5.18E-08	0.00E+00	8.24E-08
4259	599378.6	4175661	3.52E-07	8.77E-07	0.00E+00	1.23E-06	3.52E-07	8.77E-07	0.00E+00	1.23E-06	5.73E-08	1.33E-07	0.00E+00	1.90E-07	2.99E-08	5.05E-08	0.00E+00	8.04E-08
4260	599387	4175658	3.44E-07	8.57E-07	0.00E+00	1.20E-06	3.44E-07	8.57E-07	0.00E+00	1.20E-06	5.60E-08	1.30E-07	0.00E+00	1.86E-07	2.92E-08	4.94E-08	0.00E+00	7.87E-08
4261	599395.5	4175655	3.37E-07	8.40E-07	0.00E+00	1.18E-06	3.37E-07	8.40E-07	0.00E+00	1.18E-06	5.49E-08	1.27E-07	0.00E+00	1.82E-07	2.86E-08	4.84E-08	0.00E+00	7.70E-08
4262	599403.9	4175652	3.3E-07	8.22E-07	0.00E+00	1.15E-06	3.30E-07	8.22E-07	0.00E+00	1.15E-06	5.37E-08	1.24E-07	0.00E+00	1.78E-07	2.80E-08	4.74E-08	0.00E+00	7.54E-08
4263	599412.4	4175648	3.24E-07	8.07E-07	0.00E+00	1.13E-06	3.24E-07	8.07E-07	0.00E+00	1.13E-06	5.27E-08	1.22E-07	0.00E+00	1.75E-07	2.75E-08	4.65E-08	0.00E+00	7.40E-08
4264	599420.9	4175645	3.18E-07	7.93E-07	0.00E+00	1.11E-06	3.18E-07	7.93E-07	0.00E+00	1.11E-06	5.18E-08	1.20E-07	0.00E+00	1.72E-07	2.70E-08	4.57E-08	0.00E+00	7.27E-08
4265	599471.6	4175625	3.02E-07	7.52E-07	0.00E+00	1.05E-06	3.02E-07	7.52E-07	0.00E+00	1.05E-06	4.91E-08	1.14E-07	0.00E+00	1.63E-07	2.56E-08	4.33E-08	0.00E+00	6.90E-08
4266	599329.7	4175661	3.77E-07	9.39E-07	0.00E+00	1.32E-06	3.77E-07	9.39E-07	0.00E+00	1.32E-06	6.14E-08	1.42E-07	0.00E+00	2.03E-07	3.20E-08	5.41E-08	0.00E+00	8.62E-08
4267	599346.5	4175654	3.58E-07	8.92E-07	0.00E+00	1.25E-06	3.58E-07	8.92E-07	0.00E+00	1.25E-06	5.83E-08	1.35E-07	0.00E+00	1.93E-07	3.04E-08	5.14E-08	0.00E+00	8.18E-08
4268	599363.3	4175648	3.4E-07	8.47E-07	0.00E+00	1.19E-06	3.40E-07	8.47E-07	0.00E+00	1.19E-06	5.54E-08	1.28E-07	0.00E+00	1.84E-07	2.89E-08	4.88E-08	0.00E+00	7.77E-08
4269	599380.1	4175641	3.25E-07	8.10E-07	0.00E+00	1.14E-06	3.25E-07	8.10E-07	0.00E+00	1.14E-06	5.29E-08	1.22E-07	0.00E+00	1.75E-07	2.76E-08	4.67E-08	0.00E+00	7.43E-08
4270	599396.9	4175635	3.11E-07	7.74E-07	0.00E+00	1.08E-06	3.11E-07	7.74E-07	0.00E+00	1.08E-06	5.05E-08	1.17E-07	0.00E+00	1.68E-07	2.64E-08	4.46E-08	0.00E+00	7.10E-08
4271	599405.4	4175631	3.05E-07	7.59E-07	0.00E+00	1.06E-06	3.05E-07	7.59E-07	0.00E+00	1.06E-06	4.96E-08	1.15E-07	0.00E+00	1.64E-07	2.59E-08	4.37E-08	0.00E+00	6.96E-08
4272	599422.2	4175625	2.95E-07	7.34E-07	0.00E+00	1.03E-06	2.95E-07	7.34E-07	0.00E+00	1.03E-06	4.80E-08	1.11E-07	0.00E+00	1.59E-07	2.50E-08	4.23E-08	0.00E+00	6.74E-08
4273	599281.2	4175660	4.05E-07	1.01E-06	0.00E+00	1.41E-06	4.05E-07	1.01E-06	0.00E+00	1.41E-06	6.59E-08	1.52E-07	0.00E+00	2.18E-07	3.44E-08	5.81E-08	0.00E+00	9.25E-08
4274	599297.9	4175654	3.82E-07	9.50E-07	0.00E+00	1.33E-06	3.82E-07	9.50E-07	0.00E+00	1.33E-06	6.21E-08	1.44E-07	0.00E+00	2.06E-07	3.24E-08	5.48E-08	0.00E+00	8.71E-08
4275	599314.7	4175647	3.63E-07	9.04E-07	0.00E+00	1.27E-06	3.63E-07	9.04E-07	0.00E+00	1.27E-06	5.91E-08	1.37E-07	0.00E+00	1.96E-07	3.08E-08	5.21E-08	0.00E+00	8.30E-08
4276	599331.4	4175641	3.46E-07	8.62E-07	0.00E+00	1.21E-06	3.46E-07	8.62E-07	0.00E+00	1.21E-06	5.63E-08	1.30E-07	0.00E+00	1.87E-07	2.94E-08	4.97E-08	0.00E+00	7.91E-08
4277	599348.1	4175634	3.3E-07	8.23E-07	0.00E+00	1.15E-06	3.30E-07	8.23E-07	0.00E+00	1.15E-06	5.37E-08	1.24E-07	0.00E+00	1.78E-07	2.80E-08	4.74E-08	0.00E+00	7.55E-08
4278	599364.9	4175628	3.17E-07	7.89E-07	0.00E+00	1.11E-06	3.17E-07	7.89E-07	0.00E+00	1.11E-06	5.15E-08	1.19E-07	0.00E+00	1.71E-07	2.69E-08	4.55E-08	0.00E+00	7.24E-08
4279	599381.6	4175621	3.02E-07	7.51E-07	0.00E+00	1.05E-06	3.02E-07	7.51E-07	0.00E+00	1.05E-06	4.91E-08	1.14E-07	0.00E+00	1.63E-07	2.56E-08	4.33E-08	0.00E+00	6.89E-08
4280	599398.3	4175615	2.89E-07	7.20E-07	0.00E+00	1.01E-06	2.89E-07	7.20E-07	0.00E+00	1.01E-06	4.70E-08	1.09E-07	0.00E+00	1.56E-07	2.46E-08	4.15E-08	0.00E+00	6.61E-08
4281	599415.1	4175608	2.79E-07	6.94E-07	0.00E+00	9.73E-07	2.79E-07	6.94E-07	0.00E+00	9.73E-07	4.54E-08	1.05E-07	0.00E+00	1.50E-07	2.37E-08	4.00E-08	0.00E+00	6.37E-08
4282	599431.8	4175602	2.71E-07	6.75E-07	0.00E+00	9.46E-07	2.71E-07	6.75E-07	0.00E+00	9.46E-07	4.41E-08	1.02E-07	0.00E+00	1.46E-07	2.30E-08	3.89E-08	0.00E+00	6.19E-08
4283	599266.4	4175646	3.92E-07	9.75E-07	0.00E+00	1.37E-06	3.92E-07	9.75E-07	0.00E+00	1.37E-06	6.37E-08	1.47E-07	0.00E+00	2.11E-07	3.32E-08	5.62E-08	0.00E+00	8.94E-08
4284	599283.1	4175640	3.71E-07	9.23E-07	0.00E+00	1.29E-06	3.71E-07	9.23E-07	0.00E+00	1.29E-06	6.03E-08	1.40E-07	0.00E+00	2.00E-07	3.15E-08	5.32E-08	0.00E+00	8.47E-08
4285	599299.8	4175633	3.52E-07	8.77E-07	0.00E+00	1.23E-06	3.52E-07	8.77E-07	0.00E+00	1.23E-06	5.73E-08	1.33E-07	0.00E+00	1.90E-07	2.99E-08	5.05E-08	0.00E+00	8.04E-08
4286	599316.4	4175627	3.35E-07	8.34E-07	0.00E+00	1.17E-06	3.35E-07	8.34E-07	0.00E+00	1.17E-06	5.45E-08	1.26E-07	0.00E+00	1.81E-07	2.84E-08	4.81E-08	0.00E+00	7.65E-08
4287	599333.1	4175620	3.19E-07	7.95E-07	0.00E+00	1.11E-06	3.19E-07	7.95E-07	0.00E+00	1.11E-06	5.19E-08	1.20E-07	0.00E+00	1.72E-07	2.71E-08	4.58E-08	0.00E+00	7.29E-08

4288	599349.7	4175614	3.06E-07	7.63E-07	0.00E+00	1.07E-06	3.06E-07	7.63E-07	0.00E+00	1.07E-06	4.98E-08	1.15E-07	0.00E+00	1.65E-07	2.60E-08	4.40E-08	0.00E+00	7.00E-08
4289	599366.4	4175607	2.93E-07	7.30E-07	0.00E+00	1.02E-06	2.93E-07	7.30E-07	0.00E+00	1.02E-06	4.77E-08	1.10E-07	0.00E+00	1.58E-07	2.49E-08	4.21E-08	0.00E+00	6.69E-08
4290	599383	4175601	2.81E-07	7.01E-07	0.00E+00	9.82E-07	2.81E-07	7.01E-07	0.00E+00	9.82E-07	4.58E-08	1.06E-07	0.00E+00	1.52E-07	2.39E-08	4.04E-08	0.00E+00	6.43E-08
4291	599399.7	4175594	2.71E-07	6.75E-07	0.00E+00	9.46E-07	2.71E-07	6.75E-07	0.00E+00	9.46E-07	4.41E-08	1.02E-07	0.00E+00	1.46E-07	2.30E-08	3.89E-08	0.00E+00	6.19E-08
4292	599416.4	4175588	2.61E-07	6.50E-07	0.00E+00	9.12E-07	2.61E-07	6.50E-07	0.00E+00	9.12E-07	4.25E-08	9.84E-08	0.00E+00	1.41E-07	2.22E-08	3.75E-08	0.00E+00	5.97E-08
4293	599433	4175582	2.55E-07	6.35E-07	0.00E+00	8.90E-07	2.55E-07	6.35E-07	0.00E+00	8.90E-07	4.15E-08	9.60E-08	0.00E+00	1.37E-07	2.16E-08	3.66E-08	0.00E+00	5.82E-08
4294	599152.2	4175671	6.1E-07	1.52E-06	0.00E+00	2.13E-06	6.10E-07	1.52E-06	0.00E+00	2.13E-06	9.93E-08	2.30E-07	0.00E+00	3.29E-07	5.18E-08	8.76E-08	0.00E+00	1.39E-07
4295	599168.8	4175664	5.52E-07	1.37E-06	0.00E+00	1.93E-06	5.52E-07	1.37E-06	0.00E+00	1.93E-06	8.98E-08	2.08E-07	0.00E+00	2.98E-07	4.69E-08	7.92E-08	0.00E+00	1.26E-07
4296	599251.7	4175632	3.77E-07	9.39E-07	0.00E+00	1.32E-06	3.77E-07	9.39E-07	0.00E+00	1.32E-06	6.14E-08	1.42E-07	0.00E+00	2.03E-07	3.20E-08	5.41E-08	0.00E+00	8.61E-08
4297	599268.3	4175626	3.6E-07	8.95E-07	0.00E+00	1.26E-06	3.60E-07	8.95E-07	0.00E+00	1.26E-06	5.85E-08	1.35E-07	0.00E+00	1.94E-07	3.05E-08	5.16E-08	0.00E+00	8.21E-08
4298	599284.9	4175619	3.42E-07	8.51E-07	0.00E+00	1.19E-06	3.42E-07	8.51E-07	0.00E+00	1.19E-06	5.56E-08	1.29E-07	0.00E+00	1.84E-07	2.90E-08	4.90E-08	0.00E+00	7.80E-08
4299	599301.5	4175613	3.24E-07	8.08E-07	0.00E+00	1.13E-06	3.24E-07	8.08E-07	0.00E+00	1.13E-06	5.28E-08	1.22E-07	0.00E+00	1.75E-07	2.75E-08	4.65E-08	0.00E+00	7.41E-08
4300	599318.1	4175607	3.1E-07	7.72E-07	0.00E+00	1.08E-06	3.10E-07	7.72E-07	0.00E+00	1.08E-06	5.05E-08	1.17E-07	0.00E+00	1.67E-07	2.63E-08	4.45E-08	0.00E+00	7.08E-08
4301	599334.7	4175600	2.98E-07	7.42E-07	0.00E+00	1.04E-06	2.98E-07	7.42E-07	0.00E+00	1.04E-06	4.85E-08	1.12E-07	0.00E+00	1.61E-07	2.53E-08	4.28E-08	0.00E+00	6.81E-08
4302	599351.3	4175594	2.85E-07	7.09E-07	0.00E+00	9.93E-07	2.85E-07	7.09E-07	0.00E+00	9.93E-07	4.63E-08	1.07E-07	0.00E+00	1.53E-07	2.42E-08	4.08E-08	0.00E+00	6.50E-08
4303	599367.9	4175587	2.72E-07	6.77E-07	0.00E+00	9.49E-07	2.72E-07	6.77E-07	0.00E+00	9.49E-07	4.42E-08	1.02E-07	0.00E+00	1.47E-07	2.31E-08	3.90E-08	0.00E+00	6.21E-08
4304	599384.4	4175581	2.62E-07	6.53E-07	0.00E+00	9.15E-07	2.62E-07	6.53E-07	0.00E+00	9.15E-07	4.26E-08	9.87E-08	0.00E+00	1.41E-07	2.23E-08	3.76E-08	0.00E+00	5.99E-08
4305	599401	4175574	2.53E-07	6.31E-07	0.00E+00	8.84E-07	2.53E-07	6.31E-07	0.00E+00	8.84E-07	4.12E-08	9.53E-08	0.00E+00	1.37E-07	2.15E-08	3.63E-08	0.00E+00	5.78E-08
4306	599417.6	4175568	2.47E-07	6.14E-07	0.00E+00	8.60E-07	2.47E-07	6.14E-07	0.00E+00	8.60E-07	4.01E-08	9.28E-08	0.00E+00	1.33E-07	2.09E-08	3.54E-08	0.00E+00	5.63E-08
4307	599434.2	4175561	2.41E-07	5.99E-07	0.00E+00	8.40E-07	2.41E-07	5.99E-07	0.00E+00	8.40E-07	3.92E-08	9.06E-08	0.00E+00	1.30E-07	2.04E-08	3.45E-08	0.00E+00	5.50E-08
4308	599109.9	4175675	7.26E-07	1.81E-06	0.00E+00	2.53E-06	7.26E-07	1.81E-06	0.00E+00	2.53E-06	1.18E-07	2.73E-07	0.00E+00	3.91E-07	6.16E-08	1.04E-07	0.00E+00	1.66E-07
4309	599121.6	4175663	6.52E-07	1.62E-06	0.00E+00	2.27E-06	6.52E-07	1.62E-06	0.00E+00	2.27E-06	1.06E-07	2.45E-07	0.00E+00	3.51E-07	5.53E-08	9.35E-08	0.00E+00	1.49E-07
4310	599130	4175660	6.2E-07	1.54E-06	0.00E+00	2.16E-06	6.20E-07	1.54E-06	0.00E+00	2.16E-06	1.01E-07	2.33E-07	0.00E+00	3.34E-07	5.27E-08	8.90E-08	0.00E+00	1.42E-07
4311	599138.5	4175657	5.89E-07	1.47E-06	0.00E+00	2.06E-06	5.89E-07	1.47E-06	0.00E+00	2.06E-06	9.59E-08	2.22E-07	0.00E+00	3.18E-07	5.00E-08	8.46E-08	0.00E+00	1.35E-07
4312	599146.9	4175653	5.6E-07	1.39E-06	0.00E+00	1.95E-06	5.60E-07	1.39E-06	0.00E+00	1.95E-06	9.11E-08	2.11E-07	0.00E+00	3.02E-07	4.75E-08	8.03E-08	0.00E+00	1.28E-07
4313	599155.4	4175650	5.32E-07	1.32E-06	0.00E+00	1.86E-06	5.32E-07	1.32E-06	0.00E+00	1.86E-06	8.66E-08	2.00E-07	0.00E+00	2.87E-07	4.52E-08	7.64E-08	0.00E+00	1.22E-07
4314	599163.8	4175647	5.06E-07	1.26E-06	0.00E+00	1.77E-06	5.06E-07	1.26E-06	0.00E+00	1.77E-06	8.23E-08	1.90E-07	0.00E+00	2.73E-07	4.30E-08	7.26E-08	0.00E+00	1.16E-07
4315	599172.3	4175644	4.81E-07	1.20E-06	0.00E+00	1.68E-06	4.81E-07	1.20E-06	0.00E+00	1.68E-06	7.83E-08	1.81E-07	0.00E+00	2.60E-07	4.09E-08	6.91E-08	0.00E+00	1.10E-07
4316	599239.9	4175617	3.59E-07	8.93E-07	0.00E+00	1.25E-06	3.59E-07	8.93E-07	0.00E+00	1.25E-06	5.84E-08	1.35E-07	0.00E+00	1.93E-07	3.05E-08	5.15E-08	0.00E+00	8.20E-08
4317	599248.3	4175614	3.49E-07	8.70E-07	0.00E+00	1.22E-06	3.49E-07	8.70E-07	0.00E+00	1.22E-06	5.68E-08	1.32E-07	0.00E+00	1.88E-07	2.97E-08	5.01E-08	0.00E+00	7.98E-08
4318	599256.8	4175611	3.41E-07	8.50E-07	0.00E+00	1.19E-06	3.41E-07	8.50E-07	0.00E+00	1.19E-06	5.55E-08	1.28E-07	0.00E+00	1.84E-07	2.90E-08	4.90E-08	0.00E+00	7.80E-08
4319	599265.2	4175607	3.34E-07	8.31E-07	0.00E+00	1.16E-06	3.34E-07	8.31E-07	0.00E+00	1.16E-06	5.43E-08	1.26E-07	0.00E+00	1.80E-07	2.83E-08	4.79E-08	0.00E+00	7.62E-08
4320	599273.7	4175604	3.27E-07	8.13E-07	0.00E+00	1.14E-06	3.27E-07	8.13E-07	0.00E+00	1.14E-06	5.31E-08	1.23E-07	0.00E+00	1.76E-07	2.77E-08	4.69E-08	0.00E+00	7.46E-08
4321	599282.1	4175601	3.18E-07	7.93E-07	0.00E+00	1.11E-06	3.18E-07	7.93E-07	0.00E+00	1.11E-06	5.18E-08	1.20E-07	0.00E+00	1.72E-07	2.70E-08	4.57E-08	0.00E+00	7.27E-08
4322	599290.6	4175598	3.1E-07	7.73E-07	0.00E+00	1.08E-06	3.10E-07	7.73E-07	0.00E+00	1.08E-06	5.05E-08	1.17E-07	0.00E+00	1.67E-07	2.63E-08	4.45E-08	0.00E+00	7.09E-08
4323	599299	4175594	3.03E-07	7.54E-07	0.00E+00	1.06E-06	3.03E-07	7.54E-07	0.00E+00	1.06E-06	4.92E-08	1.14E-07	0.00E+00	1.63E-07	2.57E-08	4.34E-08	0.00E+00	6.91E-08
4324	599307.5	4175591	2.96E-07	7.37E-07	0.00E+00	1.03E-06	2.96E-07	7.37E-07	0.00E+00	1.03E-06	4.81E-08	1.11E-07	0.00E+00	1.60E-07	2.51E-08	4.25E-08	0.00E+00	6.76E-08
4325	599315.9	4175588	2.9E-07	7.23E-07	0.00E+00	1.01E-06	2.90E-07	7.23E-07	0.00E+00	1.01E-06	4.72E-08	1.09E-07	0.00E+00	1.57E-07	2.46E-08	4.17E-08	0.00E+00	6.63E-08
4326	599324.4	4175585	2.85E-07	7.09E-07	0.00E+00	9.94E-07	2.85E-07	7.09E-07	0.00E+00	9.94E-07	4.63E-08	1.07E-07	0.00E+00	1.54E-07	2.42E-08	4.09E-08	0.00E+00	6.50E-08
4327	599332.8	4175581	2.79E-07	6.96E-07	0.00E+00	9.75E-07	2.79E-07	6.96E-07	0.00E+00	9.75E-07	4.54E-08	1.05E-07	0.00E+00	1.51E-07	2.37E-08	4.01E-08	0.00E+00	6.38E-08
4328	599341.3	4175578	2.73E-07	6.79E-07	0.00E+00	9.52E-07	2.73E-07	6.79E-07	0.00E+00	9.52E-07	4.44E-08	1.03E-07	0.00E+00	1.47E-07	2.32E-08	3.92E-08	0.00E+00	6.23E-08
4329	599349.7	4175575	2.66E-07	6.63E-07	0.00E+00	9.30E-07	2.66E-07	6.63E-07	0.00E+00	9.30E-07	4.33E-08	1.00E-07	0.00E+00	1.44E-07	2.26E-08	3.82E-08	0.00E+00	6.08E-08
4330	599358.2	4175571	2.6E-07	6.47E-07	0.00E+00	9.07E-07	2.60E-07	6.47E-07	0.00E+00	9.07E-07	4.23E-08	9.79E-08	0.00E+00	1.40E-07	2.21E-08	3.73E-08	0.00E+00	5.94E-08
4331	599366.6	4175568	2.54E-07	6.33E-07	0.00E+00	8.88E-07	2.54E-07	6.33E-07	0.00E+00	8.88E-07	4.14E-08	9.58E-08	0.00E+00	1.37E-07	2.16E-08	3.65E-08	0.00E+00	5.81E-08
4332	599375.1	4175565	2.5E-07	6.22E-07	0.00E+00	8.72E-07	2.50E-07	6.22E-07	0.00E+00	8.72E-07	4.06E-08	9.40E-08	0.00E+00	1.35E-07	2.12E-08	3.58E-08	0.00E+00	5.71E-08
4333	599383.5	4175562	2.45E-07	6.11E-07	0.00E+00	8.56E-07	2.45E-07	6.11E-07	0.00E+00	8.56E-07	3.99E-08	9.24E-08	0.00E+00	1.32E-07	2.08E-08	3.52E-08	0.00E+00	5.61E-08
4334	599392	4175558	2.41E-07	6.01E-07	0.00E+00	8.43E-07	2.41E-07	6.01E-07	0.00E+00	8.43E-07	3.93E-08	9.09E-08	0.00E+00	1.30E-07	2.05E-08	3.46E-08	0.00E+00	5.51E-08
4335	599400.4	4175555	2.38E-07	5.92E-07	0.00E+00	8.30E-07	2.38E-07	5.92E-07	0.00E+00	8.30E-07	3.87E-08	8.95E-08	0.00E+00	1.28E-07	2.02E-08	3.41E-08	0.00E+00	5.43E-08
4336	599408.9	4175552	2.34E-07	5.84E-07	0.00E+00	8.18E-07	2.34E-07	5.84E-07	0.00E+00	8.18E-07	3.81E-08	8.83E-08	0.00E+00	1.26E-07	1.99E-08	3.36E-08	0.00E+00	5.36E-08
4337	599417.3	4175548	2.32E-07	5.77E-07	0.00E+00	8.09E-07	2.32E-07	5.77E-07	0.00E+00	8.09E-07	3.77E-08	8.72E-08	0.00E+00	1.25E-07	1.97E-08	3.33E-08	0.00E+00	5.29E-08
4338	599425.8	4175545	2.29E-07	5.71E-07	0.00E+00	8.00E-07	2.29E-07	5.71E-07	0.00E+00	8.00E-07	3.73E-08	8.63E-08	0.00E+00	1.24E-07	1.95E-08	3.29E-08	0.00E+00	5.24E-08
4339	599434.2	4175542	2.27E-07	5.66E-07	0.00E+00	7.93E-07	2.27E-07	5.66E-07	0.00E+00	7.93E-07	3.70E-08	8.56E-08	0.00E+00	1.23E-07	1.93E-08	3.26E-08	0.00E+00	5.19E-08
4340	599476.5	4175525	2.25E-07	5.59E-07	0.00E+00	7.84E-07	2.25E-07	5.59E-07	0.00E+00	7.84E-07	3.65E-08	8.45E-08	0.00E+00	1.21E-07	1.91E-08	3.22E-08	0.00E+00	5.13E-08
4341	599107.3	4175649	6.24E-07	1.55E-06	0.00E+00	2.18E-06	6.24E-07	1.55E-06	0.00E+00	2.18E-06	1.02E-07	2.35E-07	0.00E+00	3.36E-07	5.30E-08	8.95E-08	0.00E+00	1.43E-07
4342	599115.8	4175646	5.97E-07	1.49E-06	0.00E+00	2.08E-06	5.97E-07	1.49E-06	0.00E+00	2.08E-06	9.71E-08	2.25E-07	0.00E+00	3.22E-07	5.07E-08	8.57E-08	0.00E+00	1.36E-07
4343	599124.2	4175643	5.71E-07	1.42E-06	0.00E+00	1.99E-06	5.71E-07	1.42E-06	0.00E+00	1.99E-06	9.29E-08	2.15E-07	0.00E+00	3.08E-07	4.85E-08	8.20E-08	0.00E+00	1.30E-07
4344	599141	4175636	5.18E-07	1.29E-06	0.00E+00	1.81E-06	5.18E-07	1.29E-06	0.00E+00	1.81E-06	8.42E-08	1.95E-07	0.00E+00	2.79E-07	4.40E-08	7.43E-08	0.00E+00	1.18E-07
4345	599157.8	4175630	4.7E-07	1.17E-06	0.00E+00	1.64E-06	4.70E-07	1.17E-06	0.00E+00	1.64E-06	7.64E-08	1.77E-07	0.00E+00	2.53E-07	3.99E-08	6.74E-08	0.00E+00	1.07E-07
4346	599166.2	4175626	4.48E-07	1.12E-06	0.00E+00	1.56E-06	4.48E-07	1.12E-06	0.00E+00	1.56E-06	7.29E-08	1.69E-07	0.00E+00	2.41E-07	3.80E-08	6.43E-08	0.00E+00	1.02E-07
4347	599241.9	4175597	3.27E-07	8.15E-07	0.00E+00	1.14E-06	3.27E-07	8.15E-07	0.00E+00	1.14E-06	5.33E-08	1.23E-07	0.00E+00	1.77E-07	2.78E-08	4.70E-08	0.00E+00	7.48E-08
4348	599250.4	4175594	3.2E-07	7.97E-07	0.00E+00	1.12E-06	3.20E-07	7.97E-07	0.00E+00	1.12E-06	5.21E-08	1.21E-07	0.00E+00	1.73E-07	2.72E-08	4.59E-08	0.00E+00	7.31E-08
4349	599258.8	4175590	3.13E-07	7.80E-07	0.00E+00	1.09E-06	3.13E-07	7.80E-07	0.00E+00	1.09E-06	5.10E-08	1.18E-07	0.00E+00	1.69E-07	2.66E-08	4.50E-08	0.00E+00	7.16E-08
4350	599267.2	4175587	3.07E-07	7.65E-07	0.00E+00	1.07E-06	3.07E-07	7.65E-07	0.00E+00	1.07E-06	5.00E-08	1.16E-07	0.00E+00	1.66E-07	2.61E-08	4.41E-08	0.00E+00	7.01E-08
4351	599275.6	4175584	3.01E-07	7.49E-07	0.00E+00	1.05E-06	3.01E-07	7.49E-07	0.00E+00	1.05E-06	4.89E-08	1.13E-07	0.00E+00	1.62E-07	2.55E-08	4.32E-08	0.00E+00	6.87E-08
4352	599292.4	4175577	2.87E-07	7.14E-07	0.00E+00	1.00E-06	2.87E-07	7.14E-07	0.00E+00	1.00E-06	4.66E-08	1.08E-07	0.00E+00	1.55E-07	2.43E-08	4.11E-08	0.00E+00	6.55E-08
4353	599309.3	4175571	2.74E-07	6.83E-07	0.00E+00	9.57E-07	2.74E-07	6.83E-07	0.00E+00	9.57E-07	4.46E-08	1.03E-07	0.00E+00	1.48E-07	2.33E-08	3.94E-08	0.00E+00	6.27E-08
4354	599317.7	4175568	2.69E-07	6.71E-07	0.00E+00	9.40E-07	2.69E-07	6.71E-07	0.00E+00	9.40E-07	4.38E-08	1.01E-07	0.00E+00	1.45E-07	2.29E-08	3.86E-08	0.00E+00	6.15E-08
4355	599334.5	4175561	2.59E-07	6.44E-07	0.00E+00	9.03E-07	2.59E-07	6.44E-07	0.00E+00	9.03E-07	4.21E-08	9.74E-08	0.00E+00	1.40E-07	2.20E-08	3.71E-08	0.00E+00	5.91E-08
4356	599351.3	4175554	2.47E-07	6.15E-07	0.00E+00	8.62E-07	2.47E-07	6.15E-07	0.00E+00	8.62E-07	4.02E-08	9.30E-08	0.00E+00	1.33E-07	2.10E-08	3.54E-08	0.00E+00	5.64E-08
4357	599359.7	4175551	2.42E-07	6.02E-07	0.00E+00	8.44E-07	2.42E-07	6.02E-07	0.00E+00	8.44E-07	3.93E-08	9.10E-08	0.00E+00	1.30E-07	2.05E-08	3.47E-08	0.00E+00	5.52E-08
4358	599376.6	4175545	2.33E-07	5.81E-07	0.00E+00	8.14E-07	2.33E-07	5.81E-07	0.00E+00	8.14E-07	3.79E-08	8.78E-08	0.00E+00	1.26E-07	1.98E-08	3.35E-08	0.00E+00	5.33E-08
4359	599385	4175541	2.29E-07	5.71E-07	0.00E+00	8.01E-07	2.29E-07	5.71E-07	0.00E+00	8.01E-07	3.73E-08	8.64E-08	0.00E+00	1.24E-07	1.95E-08	3.29E-08	0.00E+00	5.24E-08
4360	599401.8	4175535	2.23E-07	5.55E-07	0.00E+00	7.77E-07	2.23E-07	5.55E-07	0.00E+00	7.77E-07	3.62E-08	8.39E-08	0.00E+00	1.20E-07	1.89E-08	3.20E-08	0.00E+00	5.09E-08
4361	599418.6	4175528	2.18E-07	5.42E-07	0.00E+00	7.60E-07	2.18E-07	5.42E-07	0.00E+00	7.60E-07	3.54E-08	8.20E-08	0.00E+00	1.17E-07	1.85E-08	3.12E-08	0.00E+00	4.97E-08
4362	599427	4175525	2.16E-07	5.37E-07	0.00E+00	7.53E-07	2.16E-07	5.37E-07	0.00E+00	7.53E-07	3.51E-08	8.13E-08	0.00E+00	1.16E-07	1.83E-08	3.10E-08	0.00E+00	4.93E-08
4363	599469.1	4175509	2.12E-07	5.29E-07	0.00E+00	7.41E-07	2.12E-07	5.29E-07	0.00E+00	7.41E-07	3.45E-08	7.99E-08	0.00E+00	1.14E-07	1.80E-08	3.05E-08	0.00E+00	4.85E-08
4364	599109.9	4175629	5.5E-07	1.37E-06	0.00E+00	1.92E-06	5.50E-07	1.37E-06	0.00E+00	1.92E-06	8.94E-08	2.07E-07	0.00E+00	2.96E-07	4.67E-08	7.89E-08	0.00E+00	1.26E-07
4365	599126.6	4175622	5.04E-07	1.25E-06	0.00E+00	1.76E-06	5.04E-07	1.25E-06	0.00E+00	1.76E-06	8.20E-08	1.90E-07	0.00E+00	2.72E-07	4.28E-08	7.23E-08	0.00E+00	1.15E-07
4366	599143.4	4175616	4.59E-07	1.14E-06	0.00E+00	1.60E-06	4.59E-07	1.14E-06	0.00E+00	1.60E-06	7.46E-08	1.73E-07	0.00E+00	2.47E-07	3.89E-08	6.58E-08	0.00E+00	1.05E-07
4367	599252.3	4175573	2.95E-07	7.34E-07	0.00E+00	1.03E-06	2.95E-07	7.34E-07	0.00E+00	1.03E-06	4.80E-08	1.11E-07	0.00E+00	1.59E-07	2.50E-08	4.23E-08	0.00E+00	6.74E-08
4368	599269.1	4175567	2.84E-07	7.07E-07	0.00E+00	9.91E-07	2.84E-07	7.07E-07	0.00E+00	9.91E-07	4.62E-08	1.07E-07	0.00E+00	1.53E-07	2.41E-08	4.08E-08	0.00E+00	6.49E-08
4369	599285.8	4175560	2.71E-07	6.76E-07	0.00E+00	9.47E-07	2.71E-07	6.76E-07	0.00E+00	9.47E-07	4.41E-08	1.02E-07	0.00E+00	1.46E-07	2.30E-08	3.89E-08	0.00E+00	6.20E-08
4370	599302.6	4175554	2.6E-07	6.47E-07	0.00E+00	9.07E-07	2.60E-07	6.47E-07	0.00E+00	9.07E-07	4.23E-08	9.78E-08	0.00E+00	1.40E-07	2.21E-08	3.73E-08	0.00E+00	5.93E-08
4371	599319.3	4175547	2.49E-07	6.21E-07	0.00E+00	8.70E-07	2.49E-07	6.21E-07	0.00E+00	8.70E-07	4.05E-08	9.38E-08	0.00E+00	1.34E-07	2.12E-08	3.58E-08	0.00E+00	5.69E-08
4372	599336.1	4175541	2.38E-07	5.94E-07	0.00E+00	8.32E-07	2.38E-07	5.94E-07	0.00E+00	8.32E-07	3.88E-08	8.98E-08	0.00E+00	1.29E-07	2.02E-08	3.42E-08	0.00E+00	5.45E-08
4373	599352.9	4175534	2.3E-07	5.72E-07	0.00E+00	8.01E-07	2.30E-07	5.72E-07	0.00E+00	8.01E-07	3.74E-08	8.64E-08	0.00E+00	1.24E-07	1.95E-08	3.29E-08	0.00E+00	5.24E-08
4374	599369.6	4175528	2.22E-07	5.53E-07	0.00E+00	7.74E-07	2.22E-07	5.53E-07	0.00E+00	7.74E-07	3.61E-08	8.36E-08	0.00E+00	1.20E-07	1.88E-08	3.18E-08	0.00E+00	5.07E-08
4375	599386.4	4175521	2.15E-07	5.35E-07	0.00E+00	7.50E-07	2.15E-07	5.35E-07	0.00E+00	7.50E-07	3.50E-08	8.10E-08	0.00E+00	1.16E-07	1.83E-08	3.09E-08	0.00E+00	4.91E-08
4376	599403.1	4175515	2.09E-07	5.21E-07	0.00E+00	7.30E-07	2.09E-07	5.21E-07	0.00E+00	7.30E-07	3.40E-08	7.88E-08	0.00E+00	1.13E-07	1.78E-08	3.00E-08	0.00E+00	4.78E-08
4377	599419.9	4175508	2.05E-07	5.11E-07	0.00E+00	7.16E-07	2.05E-07	5.11E-07	0.00E+00	7.16E-07	3.34E-08	7.72E-08	0.00E+00	1.11E-07	1.74E-08	2.94E-08	0.00E+00	4.69E-08
4378	599470.2	4175489	2.01E-07	5.00E-07	0.00E+00	7.01E-07	2.01E-07	5.00E-07	0.00E+00	7.01E-07	3.27E-08	7.57E-08	0.00E+00	1.08E-07	1.71E-08	2.88E-08	0.00E+00	4.59E-08
4379	599112.3	4175608	4.87E-07	1.21E-06	0.00E+00	1.70E-06	4.87E-07	1.21E-06	0.00E+00	1.70E-06	7.93E-08	1.83E-07	0.00E+00	2.63E-07	4.14E-08	6.99E-08	0.00E+00	1.11E-07
4380	599129	4175602	4.48E-07	1.12E-06	0.00E+00	1.56E-06	4.48E-07	1.12E-06	0.00E+00	1.56E-06	7.29E-08	1.69E-07	0.00E+00	2.41E-07	3.80E-08	6.43E-08	0.00E+00	1.02E-07
4381	599145.7	4175595	4.1E-07	1.02E-06	0.00E+00	1.43E-06	4.10E-07	1.02E-06	0.00E+00	1.43E-06	6.66E-08	1.54E-07	0.00E+00	2.21E-07	3.48E-08	5.88E-08	0.00E+00	9.35E-08
4382	599262.5	4175550	2.67E-07	6.64E-07	0.00E+00	9.31E-07	2.67E-07	6.64E-07	0.00E+00	9.31E-07	4.34E-08	1.00E-07	0.00E+00	1.44E-07	2.27E-08	3.83E-08	0.00E+00	6.09E-08
4383	599279.2	4175543	2.56E-07	6.37E-07	0.00E+00	8.92E-07	2.56E-07	6.37E-07	0.00E+00	8.92E-07	4.16E-08	9.63E-08	0.00E+00	1.38E-07	2.17E-08	3.67E-08	0.00E+00	5.84E-08
4384	599295.9	4175537	2.46E-07	6.13E-07	0.00E+00	8.59E-07	2.46E-07	6.13E-07	0.00E+00	8.59E-07	4.01E-08	9.27E-08	0.00E+00	1.33E-07	2.09E-08	3.53E-08	0.00E+00	5.62E-08
4385	599312.6	4175530	2.37E-07	5.90E-07	0.00E+00	8.26E-07	2.37E-07	5.90E-07	0.00E+00	8.26E-07	3.85E-08	8.92E-08	0.00E+00	1.28E-07	2.01E-08	3.40E-08	0.00E+00	5.41E-08
4386	599329.3	4175524	2.27E-07	5.65E-07	0.00E+00	7.91E-07	2.27E-07	5.65E-07	0.00E+00	7.91E-07	3.69E-08	8.54E-08	0.00E+00	1.22E-07	1.93E-08	3.25E-08	0.00E+00	5.18E-08
4387	599346	4175517	2.19E-07	5.44E-07	0.00E+00	7.63E-07	2.19E-07	5.44E-07	0.00E+00	7.63E-07	3.56E-08	8.23E-08	0.00E+00	1.18E-07	1.86E-08	3.14E-08	0.00E+00	4.99E-08
4388	599362.7	4175511	2.11E-07	5.27E-07	0.00E+00	7.38E-07	2.11E-07	5.27E-07	0.00E+00	7.38E-07	3.44E-08	7.96E-08	0.00E+00	1.14E-07	1.80E-08	3.03E-08	0.00E+00	4.83E-08
4389	599379.4	4175504	2.05E-07	5.10E-07	0.00E+00	7.15E-07	2.05E-07	5.10E-07	0.00E+00	7.15E-07	3.33E-08	7.71E-08	0.00E+00	1.10E-07	1.74E-08	2.94E-08	0.00E+00	4.68E-08
4390	599396.1	4175498	1.99E-07	4.94E-07	0.00E+00	6.93E-07	1.99E-07	4.94E-07	0.00E+00	6.93E-07	3.23E-08	7.48E-08	0.00E+00	1.07E-07	1.69E-08	2.85E-08	0.00E+00	4.54E-08
4391	599412.8	4175491	1.95E-07	4.85E-07	0.00E+00	6.79E-07	1.95E-07	4.85E-07	0.00E+00	6.79E-07	3.17E-08	7.33E-08	0.00E+00	1.05E-07	1.65E-08	2.79E-08	0.00E+00	4.45E-08
4392	599429.5	4175485	1.93E-07	4.79E-07	0.00E+00	6.72E-07	1.93E-07	4.79E-07	0.00E+00	6.72E-07	3.13E-08	7.25E-08	0.00E+00	1.04E-07	1.63E-08	2.76E-08	0.00E+00	4.40E-08
4393	599462.9	4175472	1.9E-07	4.74E-07	0.00E+00	6.64E-07	1.90E-07	4.74E-07	0.00E+00	6.64E-07	3.10E-08	7.16E-08	0.00E+00	1.03E-07	1.62E-08	2.73E-08	0.00E+00	4.35E-08
4394	599114.6	4175588	4.36E-07	1.08E-06	0.00E+00	1.52E-06	4.36E-07	1.08E-06	0.00E+00	1.52E-06	7.09E-08	1.64E-07	0.00E+00	2.35E-07	3.70E-08	6.25E-08	0.00E+00	9.95E-08
4395	599131.2	4175581	4.01E-07	9.98E-07	0.00E+00	1.40E-06	4.01E-07	9.98E-07	0.00E+00	1.40E-06	6.52E-08	1.51E-07	0.00E+00	2.16E-07	3.40E-08	5.75E-08	0.00E+00	9.16E-08
4396	599147.8	4175575	3.68E-07	9.17E-07	0.00E+00	1.29E-06	3.68E-07	9.17E-07	0.00E+00	1.29E-06	5.99E-08	1.39E-07	0.00E+00	1.99E-07	3.13E-08	5.29E-08	0.00E+00	8.41E-08
4397	599164.5	4175568	3.42E-07	8.51E-07	0.00E+00	1.19E-06	3.42E-07	8.51E-07	0.00E+00	1.19E-06	5.56E-08	1.29E-07	0.00E+00	1.84E-07	2.90E-08	4.90E-08	0.00E+00	7.80E-08

4398	599280.9	4175523	2.38E-07	5.92E-07	0.00E+00	8.30E-07	2.38E-07	5.92E-07	0.00E+00	8.30E-07	3.87E-08	8.95E-08	0.00E+00	1.28E-07	2.02E-08	3.41E-08	0.00E+00	5.43E-08
4399	599297.6	4175517	2.3E-07	5.73E-07	0.00E+00	8.03E-07	2.30E-07	5.73E-07	0.00E+00	8.03E-07	3.74E-08	8.66E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.26E-08
4400	599314.2	4175510	2.21E-07	5.51E-07	0.00E+00	7.73E-07	2.21E-07	5.51E-07	0.00E+00	7.73E-07	3.60E-08	8.34E-08	0.00E+00	1.19E-07	1.88E-08	3.18E-08	0.00E+00	5.06E-08
4401	599330.8	4175504	2.12E-07	5.28E-07	0.00E+00	7.41E-07	2.12E-07	5.28E-07	0.00E+00	7.41E-07	3.45E-08	7.99E-08	0.00E+00	1.14E-07	1.80E-08	3.05E-08	0.00E+00	4.85E-08
4402	599347.5	4175497	2.05E-07	5.11E-07	0.00E+00	7.16E-07	2.05E-07	5.11E-07	0.00E+00	7.16E-07	3.34E-08	7.72E-08	0.00E+00	1.11E-07	1.74E-08	2.94E-08	0.00E+00	4.68E-08
4403	599364.1	4175491	1.99E-07	4.95E-07	0.00E+00	6.93E-07	1.99E-07	4.95E-07	0.00E+00	6.93E-07	3.23E-08	7.48E-08	0.00E+00	1.07E-07	1.69E-08	2.85E-08	0.00E+00	4.54E-08
4404	599380.7	4175484	1.92E-07	4.77E-07	0.00E+00	6.68E-07	1.92E-07	4.77E-07	0.00E+00	6.68E-07	3.12E-08	7.21E-08	0.00E+00	1.03E-07	1.63E-08	2.75E-08	0.00E+00	4.38E-08
4405	599397.4	4175478	1.86E-07	4.62E-07	0.00E+00	6.47E-07	1.86E-07	4.62E-07	0.00E+00	6.47E-07	3.02E-08	6.99E-08	0.00E+00	1.00E-07	1.58E-08	2.66E-08	0.00E+00	4.24E-08
4406	599414	4175471	1.83E-07	4.56E-07	0.00E+00	6.40E-07	1.83E-07	4.56E-07	0.00E+00	6.40E-07	2.98E-08	6.90E-08	0.00E+00	9.88E-08	1.56E-08	2.63E-08	0.00E+00	4.19E-08
4407	599430.6	4175465	1.81E-07	4.52E-07	0.00E+00	6.33E-07	1.81E-07	4.52E-07	0.00E+00	6.33E-07	2.95E-08	6.83E-08	0.00E+00	9.78E-08	1.54E-08	2.60E-08	0.00E+00	4.14E-08
4408	599463.9	4175452	1.79E-07	4.46E-07	0.00E+00	6.24E-07	1.79E-07	4.46E-07	0.00E+00	6.24E-07	2.91E-08	6.74E-08	0.00E+00	9.65E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
4409	599118.2	4175567	3.9E-07	9.70E-07	0.00E+00	1.36E-06	3.90E-07	9.70E-07	0.00E+00	1.36E-06	6.34E-08	1.47E-07	0.00E+00	2.10E-07	3.31E-08	5.59E-08	0.00E+00	8.90E-08
4410	599126.6	4175563	3.74E-07	9.32E-07	0.00E+00	1.31E-06	3.74E-07	9.32E-07	0.00E+00	1.31E-06	6.09E-08	1.41E-07	0.00E+00	2.02E-07	3.18E-08	5.37E-08	0.00E+00	8.55E-08
4411	599135.1	4175560	3.6E-07	8.96E-07	0.00E+00	1.26E-06	3.60E-07	8.96E-07	0.00E+00	1.26E-06	5.85E-08	1.35E-07	0.00E+00	1.94E-07	3.05E-08	5.16E-08	0.00E+00	8.21E-08
4412	599143.5	4175557	3.46E-07	8.61E-07	0.00E+00	1.21E-06	3.46E-07	8.61E-07	0.00E+00	1.21E-06	5.63E-08	1.30E-07	0.00E+00	1.87E-07	2.94E-08	4.96E-08	0.00E+00	7.90E-08
4413	599152	4175553	3.33E-07	8.29E-07	0.00E+00	1.16E-06	3.33E-07	8.29E-07	0.00E+00	1.16E-06	5.42E-08	1.25E-07	0.00E+00	1.80E-07	2.83E-08	4.78E-08	0.00E+00	7.61E-08
4414	599160.4	4175550	3.21E-07	8.00E-07	0.00E+00	1.12E-06	3.21E-07	8.00E-07	0.00E+00	1.12E-06	5.23E-08	1.21E-07	0.00E+00	1.73E-07	2.73E-08	4.61E-08	0.00E+00	7.34E-08
4415	599168.9	4175547	3.1E-07	7.73E-07	0.00E+00	1.08E-06	3.10E-07	7.73E-07	0.00E+00	1.08E-06	5.05E-08	1.17E-07	0.00E+00	1.67E-07	2.63E-08	4.45E-08	0.00E+00	7.09E-08
4416	599177.3	4175544	3E-07	7.46E-07	0.00E+00	1.05E-06	3.00E-07	7.46E-07	0.00E+00	1.05E-06	4.88E-08	1.13E-07	0.00E+00	1.62E-07	2.55E-08	4.30E-08	0.00E+00	6.85E-08
4417	599278.7	4175504	2.24E-07	5.58E-07	0.00E+00	7.82E-07	2.24E-07	5.58E-07	0.00E+00	7.82E-07	3.65E-08	8.44E-08	0.00E+00	1.21E-07	1.90E-08	3.22E-08	0.00E+00	5.12E-08
4418	599287.1	4175501	2.21E-07	5.49E-07	0.00E+00	7.70E-07	2.21E-07	5.49E-07	0.00E+00	7.70E-07	3.59E-08	8.30E-08	0.00E+00	1.19E-07	1.87E-08	3.16E-08	0.00E+00	5.04E-08
4419	599295.6	4175498	2.17E-07	5.40E-07	0.00E+00	7.57E-07	2.17E-07	5.40E-07	0.00E+00	7.57E-07	3.53E-08	8.17E-08	0.00E+00	1.17E-07	1.84E-08	3.11E-08	0.00E+00	4.96E-08
4420	599304	4175494	2.14E-07	5.32E-07	0.00E+00	7.45E-07	2.14E-07	5.32E-07	0.00E+00	7.45E-07	3.47E-08	8.04E-08	0.00E+00	1.15E-07	1.81E-08	3.06E-08	0.00E+00	4.88E-08
4421	599312.5	4175491	2.09E-07	5.21E-07	0.00E+00	7.30E-07	2.09E-07	5.21E-07	0.00E+00	7.30E-07	3.40E-08	7.88E-08	0.00E+00	1.13E-07	1.78E-08	3.00E-08	0.00E+00	4.78E-08
4422	599320.9	4175488	2.05E-07	5.10E-07	0.00E+00	7.15E-07	2.05E-07	5.10E-07	0.00E+00	7.15E-07	3.33E-08	7.71E-08	0.00E+00	1.10E-07	1.74E-08	2.94E-08	0.00E+00	4.68E-08
4423	599329.4	4175485	2.01E-07	5.00E-07	0.00E+00	7.00E-07	2.01E-07	5.00E-07	0.00E+00	7.00E-07	3.26E-08	7.55E-08	0.00E+00	1.08E-07	1.70E-08	2.88E-08	0.00E+00	4.58E-08
4424	599337.8	4175481	1.97E-07	4.90E-07	0.00E+00	6.87E-07	1.97E-07	4.90E-07	0.00E+00	6.87E-07	3.20E-08	7.42E-08	0.00E+00	1.06E-07	1.67E-08	2.83E-08	0.00E+00	4.50E-08
4425	599346.2	4175478	1.94E-07	4.83E-07	0.00E+00	6.76E-07	1.94E-07	4.83E-07	0.00E+00	6.76E-07	3.15E-08	7.30E-08	0.00E+00	1.05E-07	1.65E-08	2.78E-08	0.00E+00	4.43E-08
4426	599354.7	4175475	1.91E-07	4.75E-07	0.00E+00	6.65E-07	1.91E-07	4.75E-07	0.00E+00	6.65E-07	3.10E-08	7.18E-08	0.00E+00	1.03E-07	1.62E-08	2.74E-08	0.00E+00	4.35E-08
4427	599363.1	4175471	1.87E-07	4.67E-07	0.00E+00	6.54E-07	1.87E-07	4.67E-07	0.00E+00	6.54E-07	3.05E-08	7.06E-08	0.00E+00	1.01E-07	1.59E-08	2.69E-08	0.00E+00	4.28E-08
4428	599371.6	4175468	1.84E-07	4.57E-07	0.00E+00	6.41E-07	1.84E-07	4.57E-07	0.00E+00	6.41E-07	2.99E-08	6.92E-08	0.00E+00	9.90E-08	1.56E-08	2.64E-08	0.00E+00	4.20E-08
4429	599380	4175465	1.8E-07	4.49E-07	0.00E+00	6.29E-07	1.80E-07	4.49E-07	0.00E+00	6.29E-07	2.93E-08	6.79E-08	0.00E+00	9.72E-08	1.53E-08	2.59E-08	0.00E+00	4.12E-08
4430	599388.5	4175462	1.78E-07	4.42E-07	0.00E+00	6.20E-07	1.78E-07	4.42E-07	0.00E+00	6.20E-07	2.89E-08	6.68E-08	0.00E+00	9.57E-08	1.51E-08	2.55E-08	0.00E+00	4.05E-08
4431	599396.9	4175458	1.75E-07	4.37E-07	0.00E+00	6.12E-07	1.75E-07	4.37E-07	0.00E+00	6.12E-07	2.85E-08	6.61E-08	0.00E+00	9.46E-08	1.49E-08	2.52E-08	0.00E+00	4.01E-08
4432	599405.4	4175455	1.74E-07	4.33E-07	0.00E+00	6.07E-07	1.74E-07	4.33E-07	0.00E+00	6.07E-07	2.83E-08	6.55E-08	0.00E+00	9.38E-08	1.48E-08	2.50E-08	0.00E+00	3.97E-08
4433	599413.8	4175452	1.73E-07	4.30E-07	0.00E+00	6.03E-07	1.73E-07	4.30E-07	0.00E+00	6.03E-07	2.81E-08	6.50E-08	0.00E+00	9.31E-08	1.47E-08	2.48E-08	0.00E+00	3.94E-08
4434	599422.3	4175449	1.71E-07	4.27E-07	0.00E+00	5.98E-07	1.71E-07	4.27E-07	0.00E+00	5.98E-07	2.79E-08	6.46E-08	0.00E+00	9.25E-08	1.46E-08	2.46E-08	0.00E+00	3.92E-08
4435	599464.5	4175432	1.7E-07	4.23E-07	0.00E+00	5.92E-07	1.70E-07	4.23E-07	0.00E+00	5.92E-07	2.76E-08	6.39E-08	0.00E+00	9.15E-08	1.44E-08	2.44E-08	0.00E+00	3.88E-08
4436	599473	4175429	1.7E-07	4.23E-07	0.00E+00	5.93E-07	1.70E-07	4.23E-07	0.00E+00	5.93E-07	2.76E-08	6.40E-08	0.00E+00	9.16E-08	1.44E-08	2.44E-08	0.00E+00	3.88E-08
4437	599481.4	4175426	1.7E-07	4.23E-07	0.00E+00	5.94E-07	1.70E-07	4.23E-07	0.00E+00	5.94E-07	2.77E-08	6.40E-08	0.00E+00	9.17E-08	1.44E-08	2.44E-08	0.00E+00	3.88E-08
4438	599128.9	4175543	3.42E-07	8.52E-07	0.00E+00	1.19E-06	3.42E-07	8.52E-07	0.00E+00	1.19E-06	5.57E-08	1.29E-07	0.00E+00	1.85E-07	2.91E-08	4.91E-08	0.00E+00	7.82E-08
4439	599137.4	4175539	3.3E-07	8.21E-07	0.00E+00	1.15E-06	3.30E-07	8.21E-07	0.00E+00	1.15E-06	5.37E-08	1.24E-07	0.00E+00	1.78E-07	2.80E-08	4.73E-08	0.00E+00	7.53E-08
4440	599154.2	4175533	3.07E-07	7.63E-07	0.00E+00	1.07E-06	3.07E-07	7.63E-07	0.00E+00	1.07E-06	4.99E-08	1.15E-07	0.00E+00	1.65E-07	2.60E-08	4.40E-08	0.00E+00	7.00E-08
4441	599162.6	4175530	2.96E-07	7.37E-07	0.00E+00	1.03E-06	2.96E-07	7.37E-07	0.00E+00	1.03E-06	4.81E-08	1.11E-07	0.00E+00	1.60E-07	2.51E-08	4.25E-08	0.00E+00	6.76E-08
4442	599179.4	4175523	2.77E-07	6.91E-07	0.00E+00	9.68E-07	2.77E-07	6.91E-07	0.00E+00	9.68E-07	4.51E-08	1.04E-07	0.00E+00	1.50E-07	2.36E-08	3.98E-08	0.00E+00	6.34E-08
4443	599187.9	4175520	2.7E-07	6.72E-07	0.00E+00	9.41E-07	2.70E-07	6.72E-07	0.00E+00	9.41E-07	4.39E-08	1.02E-07	0.00E+00	1.45E-07	2.29E-08	3.87E-08	0.00E+00	6.16E-08
4444	599280.4	4175484	2.1E-07	5.23E-07	0.00E+00	7.33E-07	2.10E-07	5.23E-07	0.00E+00	7.33E-07	3.42E-08	7.91E-08	0.00E+00	1.13E-07	1.78E-08	3.02E-08	0.00E+00	4.80E-08
4445	599297.3	4175477	2.04E-07	5.07E-07	0.00E+00	7.11E-07	2.04E-07	5.07E-07	0.00E+00	7.11E-07	3.32E-08	7.67E-08	0.00E+00	1.10E-07	1.73E-08	2.92E-08	0.00E+00	4.66E-08
4446	599305.7	4175474	2E-07	4.99E-07	0.00E+00	6.99E-07	2.00E-07	4.99E-07	0.00E+00	6.99E-07	3.26E-08	7.54E-08	0.00E+00	1.08E-07	1.70E-08	2.87E-08	0.00E+00	4.57E-08
4447	599322.5	4175468	1.92E-07	4.77E-07	0.00E+00	6.69E-07	1.92E-07	4.77E-07	0.00E+00	6.69E-07	3.12E-08	7.22E-08	0.00E+00	1.03E-07	1.63E-08	2.75E-08	0.00E+00	4.38E-08
4448	599330.9	4175464	1.87E-07	4.67E-07	0.00E+00	6.54E-07	1.87E-07	4.67E-07	0.00E+00	6.54E-07	3.05E-08	7.06E-08	0.00E+00	1.01E-07	1.59E-08	2.69E-08	0.00E+00	4.28E-08
4449	599347.8	4175458	1.81E-07	4.50E-07	0.00E+00	6.31E-07	1.81E-07	4.50E-07	0.00E+00	6.31E-07	2.94E-08	6.81E-08	0.00E+00	9.75E-08	1.53E-08	2.59E-08	0.00E+00	4.13E-08
4450	599356.2	4175455	1.78E-07	4.42E-07	0.00E+00	6.20E-07	1.78E-07	4.42E-07	0.00E+00	6.20E-07	2.89E-08	6.69E-08	0.00E+00	9.58E-08	1.51E-08	2.55E-08	0.00E+00	4.06E-08
4451	599373	4175448	1.72E-07	4.28E-07	0.00E+00	6.00E-07	1.72E-07	4.28E-07	0.00E+00	6.00E-07	2.80E-08	6.48E-08	0.00E+00	9.28E-08	1.46E-08	2.47E-08	0.00E+00	3.93E-08
4452	599381.4	4175445	1.7E-07	4.23E-07	0.00E+00	5.92E-07	1.70E-07	4.23E-07	0.00E+00	5.92E-07	2.76E-08	6.39E-08	0.00E+00	9.15E-08	1.44E-08	2.44E-08	0.00E+00	3.88E-08
4453	599398.3	4175438	1.66E-07	4.14E-07	0.00E+00	5.80E-07	1.66E-07	4.14E-07	0.00E+00	5.80E-07	2.70E-08	6.25E-08	0.00E+00	8.96E-08	1.41E-08	2.38E-08	0.00E+00	3.79E-08
4454	599406.7	4175435	1.65E-07	4.10E-07	0.00E+00	5.75E-07	1.65E-07	4.10E-07	0.00E+00	5.75E-07	2.68E-08	6.20E-08	0.00E+00	8.88E-08	1.40E-08	2.36E-08	0.00E+00	3.76E-08
4455	599474	4175409	1.62E-07	4.03E-07	0.00E+00	5.65E-07	1.62E-07	4.03E-07	0.00E+00	5.65E-07	2.64E-08	6.10E-08	0.00E+00	8.74E-08	1.38E-08	2.33E-08	0.00E+00	3.70E-08
4456	599122.8	4175526	3.25E-07	8.08E-07	0.00E+00	1.13E-06	3.25E-07	8.08E-07	0.00E+00	1.13E-06	5.28E-08	1.22E-07	0.00E+00	1.75E-07	2.76E-08	4.66E-08	0.00E+00	7.41E-08
4457	599131.2	4175522	3.13E-07	7.79E-07	0.00E+00	1.09E-06	3.13E-07	7.79E-07	0.00E+00	1.09E-06	5.09E-08	1.18E-07	0.00E+00	1.69E-07	2.66E-08	4.49E-08	0.00E+00	7.15E-08
4458	599147.9	4175516	2.91E-07	7.25E-07	0.00E+00	1.02E-06	2.91E-07	7.25E-07	0.00E+00	1.02E-06	4.74E-08	1.10E-07	0.00E+00	1.57E-07	2.47E-08	4.18E-08	0.00E+00	6.65E-08
4459	599164.7	4175509	2.73E-07	6.81E-07	0.00E+00	9.54E-07	2.73E-07	6.81E-07	0.00E+00	9.54E-07	4.45E-08	1.03E-07	0.00E+00	1.47E-07	2.32E-08	3.92E-08	0.00E+00	6.25E-08
4460	599173.1	4175506	2.66E-07	6.62E-07	0.00E+00	9.28E-07	2.66E-07	6.62E-07	0.00E+00	9.28E-07	4.33E-08	1.00E-07	0.00E+00	1.43E-07	2.26E-08	3.82E-08	0.00E+00	6.08E-08
4461	599189.9	4175500	2.52E-07	6.28E-07	0.00E+00	8.80E-07	2.52E-07	6.28E-07	0.00E+00	8.80E-07	4.10E-08	9.49E-08	0.00E+00	1.36E-07	2.14E-08	3.62E-08	0.00E+00	5.76E-08
4462	599206.7	4175493	2.39E-07	5.96E-07	0.00E+00	8.36E-07	2.39E-07	5.96E-07	0.00E+00	8.36E-07	3.89E-08	9.01E-08	0.00E+00	1.29E-07	2.03E-08	3.44E-08	0.00E+00	5.47E-08
4463	599290.5	4175460	1.94E-07	4.82E-07	0.00E+00	6.76E-07	1.94E-07	4.82E-07	0.00E+00	6.76E-07	3.15E-08	7.29E-08	0.00E+00	1.04E-07	1.65E-08	2.78E-08	0.00E+00	4.43E-08
4464	599298.9	4175457	1.9E-07	4.74E-07	0.00E+00	6.64E-07	1.90E-07	4.74E-07	0.00E+00	6.64E-07	3.09E-08	7.16E-08	0.00E+00	1.03E-07	1.61E-08	2.73E-08	0.00E+00	4.34E-08
4465	599315.7	4175451	1.82E-07	4.54E-07	0.00E+00	6.37E-07	1.82E-07	4.54E-07	0.00E+00	6.37E-07	2.97E-08	6.87E-08	0.00E+00	9.83E-08	1.55E-08	2.62E-08	0.00E+00	4.17E-08
4466	599332.5	4175444	1.75E-07	4.35E-07	0.00E+00	6.10E-07	1.75E-07	4.35E-07	0.00E+00	6.10E-07	2.84E-08	6.58E-08	0.00E+00	9.43E-08	1.48E-08	2.51E-08	0.00E+00	3.99E-08
4467	599349.2	4175438	1.7E-07	4.22E-07	0.00E+00	5.92E-07	1.70E-07	4.22E-07	0.00E+00	5.92E-07	2.76E-08	6.38E-08	0.00E+00	9.14E-08	1.44E-08	2.43E-08	0.00E+00	3.87E-08
4468	599366	4175431	1.65E-07	4.10E-07	0.00E+00	5.75E-07	1.65E-07	4.10E-07	0.00E+00	5.75E-07	2.68E-08	6.21E-08	0.00E+00	8.89E-08	1.40E-08	2.37E-08	0.00E+00	3.77E-08
4469	599382.8	4175425	1.61E-07	4.00E-07	0.00E+00	5.61E-07	1.61E-07	4.00E-07	0.00E+00	5.61E-07	2.62E-08	6.05E-08	0.00E+00	8.67E-08	1.37E-08	2.31E-08	0.00E+00	3.67E-08
4470	599391.2	4175421	1.59E-07	3.96E-07	0.00E+00	5.55E-07	1.59E-07	3.96E-07	0.00E+00	5.55E-07	2.59E-08	5.99E-08	0.00E+00	8.58E-08	1.35E-08	2.28E-08	0.00E+00	3.64E-08
4471	599407.9	4175415	1.57E-07	3.90E-07	0.00E+00	5.47E-07	1.57E-07	3.90E-07	0.00E+00	5.47E-07	2.55E-08	5.90E-08	0.00E+00	8.44E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
4472	599466.7	4175392	1.55E-07	3.85E-07	0.00E+00	5.39E-07	1.55E-07	3.85E-07	0.00E+00	5.39E-07	2.51E-08	5.82E-08	0.00E+00	8.33E-08	1.31E-08	2.22E-08	0.00E+00	3.53E-08
4473	599475	4175389	1.55E-07	3.85E-07	0.00E+00	5.40E-07	1.55E-07	3.85E-07	0.00E+00	5.40E-07	2.52E-08	5.82E-08	0.00E+00	8.34E-08	1.31E-08	2.22E-08	0.00E+00	3.53E-08
4474	599125	4175505	2.97E-07	7.39E-07	0.00E+00	1.04E-06	2.97E-07	7.39E-07	0.00E+00	1.04E-06	4.83E-08	1.12E-07	0.00E+00	1.60E-07	2.52E-08	4.26E-08	0.00E+00	6.78E-08
4475	599141.7	4175499	2.77E-07	6.90E-07	0.00E+00	9.67E-07	2.77E-07	6.90E-07	0.00E+00	9.67E-07	4.51E-08	1.04E-07	0.00E+00	1.49E-07	2.35E-08	3.98E-08	0.00E+00	6.33E-08
4476	599158.4	4175492	2.6E-07	6.48E-07	0.00E+00	9.08E-07	2.60E-07	6.48E-07	0.00E+00	9.08E-07	4.23E-08	9.80E-08	0.00E+00	1.40E-07	2.21E-08	3.74E-08	0.00E+00	5.95E-08
4477	599175.1	4175486	2.47E-07	6.15E-07	0.00E+00	8.61E-07	2.47E-07	6.15E-07	0.00E+00	8.61E-07	4.02E-08	9.29E-08	0.00E+00	1.33E-07	2.10E-08	3.54E-08	0.00E+00	5.64E-08
4478	599191.8	4175479	2.35E-07	5.84E-07	0.00E+00	8.19E-07	2.35E-07	5.84E-07	0.00E+00	8.19E-07	3.82E-08	8.84E-08	0.00E+00	1.27E-07	1.99E-08	3.37E-08	0.00E+00	5.36E-08
4479	599208.6	4175473	2.24E-07	5.57E-07	0.00E+00	7.80E-07	2.24E-07	5.57E-07	0.00E+00	7.80E-07	3.64E-08	8.42E-08	0.00E+00	1.21E-07	1.90E-08	3.21E-08	0.00E+00	5.11E-08
4480	599292.2	4175440	1.82E-07	4.52E-07	0.00E+00	6.34E-07	1.82E-07	4.52E-07	0.00E+00	6.34E-07	2.96E-08	6.84E-08	0.00E+00	9.80E-08	1.54E-08	2.61E-08	0.00E+00	4.15E-08
4481	599308.9	4175434	1.75E-07	4.36E-07	0.00E+00	6.10E-07	1.75E-07	4.36E-07	0.00E+00	6.10E-07	2.85E-08	6.59E-08	0.00E+00	9.43E-08	1.49E-08	2.51E-08	0.00E+00	4.00E-08
4482	599325.6	4175427	1.68E-07	4.19E-07	0.00E+00	5.87E-07	1.68E-07	4.19E-07	0.00E+00	5.87E-07	2.74E-08	6.34E-08	0.00E+00	9.08E-08	1.43E-08	2.42E-08	0.00E+00	3.84E-08
4483	599342.3	4175421	1.63E-07	4.05E-07	0.00E+00	5.68E-07	1.63E-07	4.05E-07	0.00E+00	5.68E-07	2.65E-08	6.13E-08	0.00E+00	8.77E-08	1.38E-08	2.34E-08	0.00E+00	3.72E-08
4484	599359	4175414	1.58E-07	3.94E-07	0.00E+00	5.52E-07	1.58E-07	3.94E-07	0.00E+00	5.52E-07	2.57E-08	5.96E-08	0.00E+00	8.53E-08	1.34E-08	2.27E-08	0.00E+00	3.61E-08
4485	599375.8	4175408	1.54E-07	3.84E-07	0.00E+00	5.39E-07	1.54E-07	3.84E-07	0.00E+00	5.39E-07	2.51E-08	5.81E-08	0.00E+00	8.32E-08	1.31E-08	2.21E-08	0.00E+00	3.53E-08
4486	599392.5	4175401	1.51E-07	3.77E-07	0.00E+00	5.28E-07	1.51E-07	3.77E-07	0.00E+00	5.28E-07	2.46E-08	5.69E-08	0.00E+00	8.16E-08	1.28E-08	2.17E-08	0.00E+00	3.45E-08
4487	599409.2	4175395	1.49E-07	3.71E-07	0.00E+00	5.20E-07	1.49E-07	3.71E-07	0.00E+00	5.20E-07	2.43E-08	5.62E-08	0.00E+00	8.04E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
4488	599476.1	4175369	1.47E-07	3.66E-07	0.00E+00	5.13E-07	1.47E-07	3.66E-07	0.00E+00	5.13E-07	2.39E-08	5.54E-08	0.00E+00	7.93E-08	1.25E-08	2.11E-08	0.00E+00	3.36E-08
4489	599127	4175485	2.73E-07	6.79E-07	0.00E+00	9.52E-07	2.73E-07	6.79E-07	0.00E+00	9.52E-07	4.44E-08	1.03E-07	0.00E+00	1.47E-07	2.32E-08	3.91E-08	0.00E+00	6.23E-08
4490	599143.7	4175478	2.56E-07	6.38E-07	0.00E+00	8.94E-07	2.56E-07	6.38E-07	0.00E+00	8.94E-07	4.17E-08	9.64E-08	0.00E+00	1.38E-07	2.17E-08	3.67E-08	0.00E+00	5.85E-08
4491	599160.4	4175472	2.41E-07	6.01E-07	0.00E+00	8.42E-07	2.41E-07	6.01E-07	0.00E+00	8.42E-07	3.93E-08	9.09E-08	0.00E+00	1.30E-07	2.05E-08	3.46E-08	0.00E+00	5.51E-08
4492	599177.1	4175465	2.3E-07	5.72E-07	0.00E+00	8.02E-07	2.30E-07	5.72E-07	0.00E+00	8.02E-07	3.74E-08	8.65E-08	0.00E+00	1.24E-07	1.95E-08	3.30E-08	0.00E+00	5.25E-08
4493	599193.7	4175459	2.19E-07	5.46E-07	0.00E+00	7.66E-07	2.19E-07	5.46E-07	0.00E+00	7.66E-07	3.57E-08	8.26E-08	0.00E+00	1.18E-07	1.86E-08	3.15E-08	0.00E+00	5.01E-08
4494	599210.4	4175452	2.09E-07	5.22E-07	0.00E+00	7.31E-07	2.09E-07	5.22E-07	0.00E+00	7.31E-07	3.41E-08	7.89E-08	0.00E+00	1.13E-07	1.78E-08	3.01E-08	0.00E+00	4.78E-08
4495	599227.1	4175446	2E-07	4.98E-07	0.00E+00	6.99E-07	2.00E-07	4.98E-07	0.00E+00	6.99E-07	3.26E-08	7.54E-08	0.00E+00	1.08E-07	1.70E-08	2.87E-08	0.00E+00	4.57E-08
4496	599327.1	4175407	1.6E-07	3.98E-07	0.00E+00	5.57E-07	1.60E-07	3.98E-07	0.00E+00	5.57E-07	2.60E-08	6.01E-08	0.00E+00	8.61E-08	1.36E-08	2.29E-08	0.00E+00	3.65E-08
4497	599343.8	4175401	1.55E-07	3.86E-07	0.00E+00	5.41E-07	1.55E-07	3.86E-07	0.00E+00	5.41E-07	2.52E-08	5.83E-08	0.00E+00	8.36E-08	1.32E-08	2.22E-08	0.00E+00	3.54E-08
4498	599360.4	4175394	1.5E-07	3.74E-07	0.00E+00	5.24E-07	1.50E-07	3.74E-07	0.00E+00	5.24E-07	2.44E-08	5.66E-08	0.00E+00	8.10E-08	1.28E-08	2.16E-08	0.00E+00	3.43E-08
4499	599377.1	4175388	1.47E-07	3.65E-07	0.00E+00	5.12E-07	1.47E-07	3.65E-07	0.00E+00	5.12E-07	2.39E-08	5.52E-08	0.00E+00	7.91E-08	1.25E-08	2.10E-08	0.00E+00	3.35E-08
4500	599393.8	4175381	1.44E-07	3.59E-07	0.00E+00	5.03E-07	1.44E-07	3.59E-07	0.00E+00	5.03E-07	2.34E-08	5.42E-08	0.00E+00	7.77E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
4501	599410.4	4175375	1.42E-07	3.54E-07	0.00E+00	4.97E-07	1.42E-07	3.54E-07	0.00E+00	4.97E-07	2.31E-08	5.36E-08	0.00E+00	7.67E-08	1.21E-08	2.04E-08	0.00E+00	3.25E-08
4502	599477.1	4175349	1.4E-07	3.50E-07	0.00E+00	4.90E-07	1.40E-07	3.50E-07	0.00E+00	4.90E-07	2.29E-08	5.29E-08	0.00E+00	7.57E-08	1.19E-08	2.02E-08	0.00E+00	3.21E-08
4503	599131.6	4175463	2.47E-07	6.16E-07	0.00E+00	8.63E-07	2.47E-07	6.16E-07	0.00E+00	8.63E-07	4.02E-08	9.31E-08	0.00E+00	1.33E-07	2.10E-08	3.55E-08	0.00E+00	5.65E-08
4504	599140.1	4175460	2.4E-07	5.97E-07	0.00E+00	8.37E-07	2.40E-07	5.97E-07	0.00E+00	8.37E-07	3.90E-08	9.03E-08	0.00E+00	1.29E-07	2.04E-08	3.44E-08	0.00E+00	5.48E-08
4505	599148.5	4175457	2.33E-07	5.79E-07	0.00E+00	8.12E-07	2.33E-07	5.79E-07	0.00E+00	8.12E-07	3.79E-08	8.76E-08	0.00E+00	1.25E-07	1.98E-08	3.34E-08	0.00E+00	5.32E-08
4506	599157	4175454	2.27E-07	5.65E-07	0.00E+00	7.91E-07	2.27E-07	5.65E-07	0.00E+00	7.91E-07	3.69E-08	8.54E-08	0.00E+00	1.22E-07	1.93E-08	3.25E-08	0.00E+00	5.18E-08
4507	599165.4	4175450	2.22E-07	5.52E-07	0.00E+00	7.74E-07	2.22E-07	5.52E-07	0.00E+00	7.74E-07	3.61E-08	8.35E-08	0.00E+00	1.20E-07	1.88E-08	3.18E-08	0.00E+00	5.07E-08

4508	599173.8	4175447	2.17E-07	5.41E-07	0.00E+00	7.58E-07	2.17E-07	5.41E-07	0.00E+00	7.58E-07	3.53E-08	8.18E-08	0.00E+00	1.17E-07	1.84E-08	3.12E-08	0.00E+00	4.96E-08
4509	599182.3	4175444	2.13E-07	5.30E-07	0.00E+00	7.43E-07	2.13E-07	5.30E-07	0.00E+00	7.43E-07	3.46E-08	8.01E-08	0.00E+00	1.15E-07	1.81E-08	3.05E-08	0.00E+00	4.86E-08
4510	599190.7	4175440	2.08E-07	5.18E-07	0.00E+00	7.26E-07	2.08E-07	5.18E-07	0.00E+00	7.26E-07	3.38E-08	7.83E-08	0.00E+00	1.12E-07	1.77E-08	2.98E-08	0.00E+00	4.75E-08
4511	599199.2	4175437	2.03E-07	5.06E-07	0.00E+00	7.09E-07	2.03E-07	5.06E-07	0.00E+00	7.09E-07	3.31E-08	7.65E-08	0.00E+00	1.10E-07	1.73E-08	2.92E-08	0.00E+00	4.64E-08
4512	599207.6	4175434	1.99E-07	4.95E-07	0.00E+00	6.94E-07	1.99E-07	4.95E-07	0.00E+00	6.94E-07	3.24E-08	7.49E-08	0.00E+00	1.07E-07	1.69E-08	2.85E-08	0.00E+00	4.54E-08
4513	599216.1	4175431	1.95E-07	4.85E-07	0.00E+00	6.80E-07	1.95E-07	4.85E-07	0.00E+00	6.80E-07	3.17E-08	7.33E-08	0.00E+00	1.05E-07	1.65E-08	2.80E-08	0.00E+00	4.45E-08
4514	599325.9	4175388	1.53E-07	3.82E-07	0.00E+00	5.35E-07	1.53E-07	3.82E-07	0.00E+00	5.35E-07	2.49E-08	5.77E-08	0.00E+00	8.26E-08	1.30E-08	2.20E-08	0.00E+00	3.50E-08
4515	599334.3	4175385	1.51E-07	3.76E-07	0.00E+00	5.27E-07	1.51E-07	3.76E-07	0.00E+00	5.27E-07	2.46E-08	5.69E-08	0.00E+00	8.15E-08	1.28E-08	2.17E-08	0.00E+00	3.45E-08
4516	599342.7	4175381	1.49E-07	3.70E-07	0.00E+00	5.18E-07	1.49E-07	3.70E-07	0.00E+00	5.18E-07	2.42E-08	5.59E-08	0.00E+00	8.01E-08	1.26E-08	2.13E-08	0.00E+00	3.39E-08
4517	599351.2	4175378	1.46E-07	3.64E-07	0.00E+00	5.10E-07	1.46E-07	3.64E-07	0.00E+00	5.10E-07	2.38E-08	5.50E-08	0.00E+00	7.88E-08	1.24E-08	2.10E-08	0.00E+00	3.34E-08
4518	599359.6	4175375	1.44E-07	3.59E-07	0.00E+00	5.03E-07	1.44E-07	3.59E-07	0.00E+00	5.03E-07	2.34E-08	5.42E-08	0.00E+00	7.77E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
4519	599368.1	4175372	1.42E-07	3.54E-07	0.00E+00	4.97E-07	1.42E-07	3.54E-07	0.00E+00	4.97E-07	2.31E-08	5.36E-08	0.00E+00	7.67E-08	1.21E-08	2.04E-08	0.00E+00	3.25E-08
4520	599376.5	4175368	1.41E-07	3.50E-07	0.00E+00	4.91E-07	1.41E-07	3.50E-07	0.00E+00	4.91E-07	2.29E-08	5.30E-08	0.00E+00	7.58E-08	1.19E-08	2.02E-08	0.00E+00	3.21E-08
4521	599385	4175365	1.39E-07	3.46E-07	0.00E+00	4.85E-07	1.39E-07	3.46E-07	0.00E+00	4.85E-07	2.26E-08	5.24E-08	0.00E+00	7.50E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08
4522	599393.4	4175362	1.38E-07	3.43E-07	0.00E+00	4.80E-07	1.38E-07	3.43E-07	0.00E+00	4.80E-07	2.24E-08	5.18E-08	0.00E+00	7.42E-08	1.17E-08	1.97E-08	0.00E+00	3.14E-08
4523	599401.9	4175358	1.37E-07	3.40E-07	0.00E+00	4.77E-07	1.37E-07	3.40E-07	0.00E+00	4.77E-07	2.22E-08	5.15E-08	0.00E+00	7.37E-08	1.16E-08	1.96E-08	0.00E+00	3.12E-08
4524	599133.7	4175443	2.26E-07	5.62E-07	0.00E+00	7.88E-07	2.26E-07	5.62E-07	0.00E+00	7.88E-07	3.67E-08	8.50E-08	0.00E+00	1.22E-07	1.92E-08	3.24E-08	0.00E+00	5.16E-08
4525	599142.2	4175440	2.2E-07	5.47E-07	0.00E+00	7.66E-07	2.20E-07	5.47E-07	0.00E+00	7.66E-07	3.57E-08	8.27E-08	0.00E+00	1.18E-07	1.86E-08	3.15E-08	0.00E+00	5.01E-08
4526	599159	4175433	2.09E-07	5.20E-07	0.00E+00	7.29E-07	2.09E-07	5.20E-07	0.00E+00	7.29E-07	3.40E-08	7.87E-08	0.00E+00	1.13E-07	1.77E-08	3.00E-08	0.00E+00	4.77E-08
4527	599167.4	4175430	2.05E-07	5.11E-07	0.00E+00	7.16E-07	2.05E-07	5.11E-07	0.00E+00	7.16E-07	3.34E-08	7.72E-08	0.00E+00	1.11E-07	1.74E-08	2.94E-08	0.00E+00	4.68E-08
4528	599184.3	4175423	1.98E-07	4.93E-07	0.00E+00	6.91E-07	1.98E-07	4.93E-07	0.00E+00	6.91E-07	3.22E-08	7.45E-08	0.00E+00	1.07E-07	1.68E-08	2.84E-08	0.00E+00	4.52E-08
4529	599192.7	4175420	1.94E-07	4.83E-07	0.00E+00	6.77E-07	1.94E-07	4.83E-07	0.00E+00	6.77E-07	3.16E-08	7.31E-08	0.00E+00	1.05E-07	1.65E-08	2.78E-08	0.00E+00	4.43E-08
4530	599209.5	4175414	1.87E-07	4.66E-07	0.00E+00	6.53E-07	1.87E-07	4.66E-07	0.00E+00	6.53E-07	3.04E-08	7.04E-08	0.00E+00	1.01E-07	1.59E-08	2.68E-08	0.00E+00	4.27E-08
4531	599217.9	4175410	1.83E-07	4.57E-07	0.00E+00	6.40E-07	1.83E-07	4.57E-07	0.00E+00	6.40E-07	2.98E-08	6.91E-08	0.00E+00	9.89E-08	1.56E-08	2.63E-08	0.00E+00	4.19E-08
4532	599319	4175371	1.48E-07	3.69E-07	0.00E+00	5.17E-07	1.48E-07	3.69E-07	0.00E+00	5.17E-07	2.41E-08	5.58E-08	0.00E+00	7.98E-08	1.26E-08	2.12E-08	0.00E+00	3.38E-08
4533	599327.4	4175368	1.46E-07	3.63E-07	0.00E+00	5.09E-07	1.46E-07	3.63E-07	0.00E+00	5.09E-07	2.37E-08	5.49E-08	0.00E+00	7.86E-08	1.24E-08	2.09E-08	0.00E+00	3.33E-08
4534	599335.8	4175365	1.44E-07	3.57E-07	0.00E+00	5.01E-07	1.44E-07	3.57E-07	0.00E+00	5.01E-07	2.33E-08	5.40E-08	0.00E+00	7.74E-08	1.22E-08	2.06E-08	0.00E+00	3.28E-08
4535	599352.6	4175358	1.4E-07	3.48E-07	0.00E+00	4.88E-07	1.40E-07	3.48E-07	0.00E+00	4.88E-07	2.27E-08	5.26E-08	0.00E+00	7.54E-08	1.19E-08	2.01E-08	0.00E+00	3.19E-08
4536	599361	4175355	1.38E-07	3.44E-07	0.00E+00	4.82E-07	1.38E-07	3.44E-07	0.00E+00	4.82E-07	2.25E-08	5.20E-08	0.00E+00	7.45E-08	1.17E-08	1.98E-08	0.00E+00	3.16E-08
4537	599377.9	4175348	1.34E-07	3.35E-07	0.00E+00	4.69E-07	1.34E-07	3.35E-07	0.00E+00	4.69E-07	2.19E-08	5.06E-08	0.00E+00	7.25E-08	1.14E-08	1.93E-08	0.00E+00	3.07E-08
4538	599386.3	4175345	1.33E-07	3.31E-07	0.00E+00	4.63E-07	1.33E-07	3.31E-07	0.00E+00	4.63E-07	2.16E-08	5.00E-08	0.00E+00	7.16E-08	1.13E-08	1.91E-08	0.00E+00	3.03E-08
4539	599403.1	4175338	1.31E-07	3.25E-07	0.00E+00	4.56E-07	1.31E-07	3.25E-07	0.00E+00	4.56E-07	2.13E-08	4.92E-08	0.00E+00	7.05E-08	1.11E-08	1.88E-08	0.00E+00	2.99E-08
4540	599144.2	4175419	2.01E-07	5.00E-07	0.00E+00	7.01E-07	2.01E-07	5.00E-07	0.00E+00	7.01E-07	3.27E-08	7.56E-08	0.00E+00	1.08E-07	1.70E-08	2.88E-08	0.00E+00	4.59E-08
4541	599161	4175413	1.93E-07	4.82E-07	0.00E+00	6.75E-07	1.93E-07	4.82E-07	0.00E+00	6.75E-07	3.15E-08	7.28E-08	0.00E+00	1.04E-07	1.64E-08	2.78E-08	0.00E+00	4.42E-08
4542	599177.8	4175406	1.88E-07	4.68E-07	0.00E+00	6.55E-07	1.88E-07	4.68E-07	0.00E+00	6.55E-07	3.05E-08	7.07E-08	0.00E+00	1.01E-07	1.59E-08	2.69E-08	0.00E+00	4.29E-08
4543	599186.2	4175403	1.85E-07	4.60E-07	0.00E+00	6.45E-07	1.85E-07	4.60E-07	0.00E+00	6.45E-07	3.01E-08	6.96E-08	0.00E+00	9.96E-08	1.57E-08	2.65E-08	0.00E+00	4.22E-08
4544	599203	4175396	1.79E-07	4.46E-07	0.00E+00	6.25E-07	1.79E-07	4.46E-07	0.00E+00	6.25E-07	2.91E-08	6.74E-08	0.00E+00	9.65E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
4545	599211.4	4175393	1.76E-07	4.39E-07	0.00E+00	6.16E-07	1.76E-07	4.39E-07	0.00E+00	6.16E-07	2.87E-08	6.64E-08	0.00E+00	9.51E-08	1.50E-08	2.53E-08	0.00E+00	4.03E-08
4546	599320.5	4175351	1.41E-07	3.51E-07	0.00E+00	4.92E-07	1.41E-07	3.51E-07	0.00E+00	4.92E-07	2.30E-08	5.31E-08	0.00E+00	7.61E-08	1.20E-08	2.02E-08	0.00E+00	3.22E-08
4547	599328.9	4175348	1.39E-07	3.45E-07	0.00E+00	4.84E-07	1.39E-07	3.45E-07	0.00E+00	4.84E-07	2.26E-08	5.22E-08	0.00E+00	7.48E-08	1.18E-08	1.99E-08	0.00E+00	3.17E-08
4548	599345.6	4175341	1.35E-07	3.36E-07	0.00E+00	4.70E-07	1.35E-07	3.36E-07	0.00E+00	4.70E-07	2.19E-08	5.08E-08	0.00E+00	7.27E-08	1.14E-08	1.93E-08	0.00E+00	3.08E-08
4549	599362.4	4175335	1.32E-07	3.28E-07	0.00E+00	4.60E-07	1.32E-07	3.28E-07	0.00E+00	4.60E-07	2.14E-08	4.96E-08	0.00E+00	7.10E-08	1.12E-08	1.89E-08	0.00E+00	3.01E-08
4550	599379.2	4175328	1.28E-07	3.20E-07	0.00E+00	4.48E-07	1.28E-07	3.20E-07	0.00E+00	4.48E-07	2.09E-08	4.83E-08	0.00E+00	6.92E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
4551	599387.6	4175325	1.27E-07	3.16E-07	0.00E+00	4.43E-07	1.27E-07	3.16E-07	0.00E+00	4.43E-07	2.06E-08	4.78E-08	0.00E+00	6.84E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
4552	599404.4	4175318	1.25E-07	3.12E-07	0.00E+00	4.37E-07	1.25E-07	3.12E-07	0.00E+00	4.37E-07	2.04E-08	4.71E-08	0.00E+00	6.75E-08	1.06E-08	1.80E-08	0.00E+00	2.86E-08
4553	599471.5	4175292	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
4554	599137.8	4175402	1.91E-07	4.77E-07	0.00E+00	6.68E-07	1.91E-07	4.77E-07	0.00E+00	6.68E-07	3.11E-08	7.21E-08	0.00E+00	1.03E-07	1.63E-08	2.75E-08	0.00E+00	4.37E-08
4555	599154.5	4175396	1.85E-07	4.60E-07	0.00E+00	6.45E-07	1.85E-07	4.60E-07	0.00E+00	6.45E-07	3.01E-08	6.96E-08	0.00E+00	9.97E-08	1.57E-08	2.65E-08	0.00E+00	4.22E-08
4556	599171.3	4175389	1.79E-07	4.45E-07	0.00E+00	6.24E-07	1.79E-07	4.45E-07	0.00E+00	6.24E-07	2.91E-08	6.74E-08	0.00E+00	9.65E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
4557	599188	4175383	1.73E-07	4.32E-07	0.00E+00	6.05E-07	1.73E-07	4.32E-07	0.00E+00	6.05E-07	2.82E-08	6.53E-08	0.00E+00	9.35E-08	1.47E-08	2.49E-08	0.00E+00	3.96E-08
4558	599204.8	4175376	1.69E-07	4.21E-07	0.00E+00	5.90E-07	1.69E-07	4.21E-07	0.00E+00	5.90E-07	2.75E-08	6.37E-08	0.00E+00	9.12E-08	1.44E-08	2.43E-08	0.00E+00	3.86E-08
4559	599321.9	4175331	1.34E-07	3.34E-07	0.00E+00	4.68E-07	1.34E-07	3.34E-07	0.00E+00	4.68E-07	2.18E-08	5.05E-08	0.00E+00	7.23E-08	1.14E-08	1.92E-08	0.00E+00	3.06E-08
4560	599338.7	4175324	1.3E-07	3.24E-07	0.00E+00	4.54E-07	1.30E-07	3.24E-07	0.00E+00	4.54E-07	2.12E-08	4.90E-08	0.00E+00	7.01E-08	1.10E-08	1.87E-08	0.00E+00	2.97E-08
4561	599355.4	4175318	1.27E-07	3.16E-07	0.00E+00	4.43E-07	1.27E-07	3.16E-07	0.00E+00	4.43E-07	2.07E-08	4.78E-08	0.00E+00	6.85E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
4562	599372.2	4175311	1.24E-07	3.09E-07	0.00E+00	4.33E-07	1.24E-07	3.09E-07	0.00E+00	4.33E-07	2.02E-08	4.67E-08	0.00E+00	6.69E-08	1.05E-08	1.78E-08	0.00E+00	2.83E-08
4563	599388.9	4175305	1.21E-07	3.02E-07	0.00E+00	4.24E-07	1.21E-07	3.02E-07	0.00E+00	4.24E-07	1.97E-08	4.57E-08	0.00E+00	6.54E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
4564	599405.6	4175298	1.2E-07	2.99E-07	0.00E+00	4.19E-07	1.20E-07	2.99E-07	0.00E+00	4.19E-07	1.95E-08	4.52E-08	0.00E+00	6.47E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
4565	599472.6	4175272	1.2E-07	2.99E-07	0.00E+00	4.19E-07	1.20E-07	2.99E-07	0.00E+00	4.19E-07	1.95E-08	4.52E-08	0.00E+00	6.47E-08	1.02E-08	1.72E-08	0.00E+00	2.74E-08
4566	599126.1	4175387	1.86E-07	4.62E-07	0.00E+00	6.48E-07	1.86E-07	4.62E-07	0.00E+00	6.48E-07	3.02E-08	6.99E-08	0.00E+00	1.00E-07	1.58E-08	2.66E-08	0.00E+00	4.24E-08
4567	599134.5	4175384	1.82E-07	4.54E-07	0.00E+00	6.36E-07	1.82E-07	4.54E-07	0.00E+00	6.36E-07	2.97E-08	6.86E-08	0.00E+00	9.83E-08	1.55E-08	2.62E-08	0.00E+00	4.16E-08
4568	599143	4175381	1.79E-07	4.46E-07	0.00E+00	6.25E-07	1.79E-07	4.46E-07	0.00E+00	6.25E-07	2.91E-08	6.74E-08	0.00E+00	9.65E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
4569	599151.5	4175377	1.76E-07	4.37E-07	0.00E+00	6.13E-07	1.76E-07	4.37E-07	0.00E+00	6.13E-07	2.86E-08	6.61E-08	0.00E+00	9.47E-08	1.49E-08	2.52E-08	0.00E+00	4.01E-08
4570	599160	4175374	1.73E-07	4.30E-07	0.00E+00	6.02E-07	1.73E-07	4.30E-07	0.00E+00	6.02E-07	2.81E-08	6.50E-08	0.00E+00	9.31E-08	1.47E-08	2.48E-08	0.00E+00	3.94E-08
4571	599168.4	4175371	1.7E-07	4.23E-07	0.00E+00	5.93E-07	1.70E-07	4.23E-07	0.00E+00	5.93E-07	2.76E-08	6.40E-08	0.00E+00	9.16E-08	1.44E-08	2.44E-08	0.00E+00	3.88E-08
4572	599176.9	4175367	1.67E-07	4.17E-07	0.00E+00	5.84E-07	1.67E-07	4.17E-07	0.00E+00	5.84E-07	2.72E-08	6.31E-08	0.00E+00	9.03E-08	1.42E-08	2.40E-08	0.00E+00	3.83E-08
4573	599185.4	4175364	1.65E-07	4.11E-07	0.00E+00	5.77E-07	1.65E-07	4.11E-07	0.00E+00	5.77E-07	2.69E-08	6.22E-08	0.00E+00	8.91E-08	1.40E-08	2.37E-08	0.00E+00	3.77E-08
4574	599193.8	4175361	1.63E-07	4.07E-07	0.00E+00	5.70E-07	1.63E-07	4.07E-07	0.00E+00	5.70E-07	2.66E-08	6.15E-08	0.00E+00	8.80E-08	1.39E-08	2.34E-08	0.00E+00	3.73E-08
4575	599202.3	4175358	1.61E-07	4.02E-07	0.00E+00	5.63E-07	1.61E-07	4.02E-07	0.00E+00	5.63E-07	2.62E-08	6.07E-08	0.00E+00	8.70E-08	1.37E-08	2.31E-08	0.00E+00	3.68E-08
4576	599312.4	4175315	1.31E-07	3.25E-07	0.00E+00	4.56E-07	1.31E-07	3.25E-07	0.00E+00	4.56E-07	2.12E-08	4.92E-08	0.00E+00	7.04E-08	1.11E-08	1.87E-08	0.00E+00	2.98E-08
4577	599320.8	4175312	1.28E-07	3.20E-07	0.00E+00	4.48E-07	1.28E-07	3.20E-07	0.00E+00	4.48E-07	2.09E-08	4.83E-08	0.00E+00	6.92E-08	1.09E-08	1.84E-08	0.00E+00	2.93E-08
4578	599329.3	4175308	1.26E-07	3.14E-07	0.00E+00	4.41E-07	1.26E-07	3.14E-07	0.00E+00	4.41E-07	2.05E-08	4.75E-08	0.00E+00	6.81E-08	1.07E-08	1.81E-08	0.00E+00	2.88E-08
4579	599337.8	4175305	1.24E-07	3.10E-07	0.00E+00	4.34E-07	1.24E-07	3.10E-07	0.00E+00	4.34E-07	2.02E-08	4.69E-08	0.00E+00	6.71E-08	1.06E-08	1.79E-08	0.00E+00	2.84E-08
4580	599346.3	4175302	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.63E-08	0.00E+00	6.63E-08	1.04E-08	1.76E-08	0.00E+00	2.81E-08
4581	599354.7	4175298	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.22E-07	3.03E-07	0.00E+00	4.25E-07	1.98E-08	4.58E-08	0.00E+00	6.56E-08	1.03E-08	1.75E-08	0.00E+00	2.78E-08
4582	599363.2	4175295	1.2E-07	3.00E-07	0.00E+00	4.21E-07	1.20E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
4583	599371.7	4175292	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.94E-08	4.48E-08	0.00E+00	6.42E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
4584	599380.1	4175289	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.18E-07	2.93E-07	0.00E+00	4.11E-07	1.91E-08	4.43E-08	0.00E+00	6.34E-08	9.99E-09	1.69E-08	0.00E+00	2.69E-08
4585	599388.6	4175285	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.89E-08	4.39E-08	0.00E+00	6.28E-08	9.89E-09	1.67E-08	0.00E+00	2.66E-08
4586	599397.1	4175282	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.35E-08	0.00E+00	6.24E-08	9.82E-09	1.66E-08	0.00E+00	2.64E-08
4587	599405.5	4175279	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.88E-08	4.34E-08	0.00E+00	6.21E-08	9.79E-09	1.65E-08	0.00E+00	2.63E-08
4588	599473.3	4175252	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.16E-07	2.88E-07	0.00E+00	4.03E-07	1.88E-08	4.35E-08	0.00E+00	6.23E-08	9.81E-09	1.66E-08	0.00E+00	2.64E-08
4589	599481.7	4175249	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.24E-08	9.83E-09	1.66E-08	0.00E+00	2.64E-08
4590	599490.2	4175246	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.16E-07	2.88E-07	0.00E+00	4.04E-07	1.88E-08	4.36E-08	0.00E+00	6.25E-08	9.84E-09	1.66E-08	0.00E+00	2.65E-08
4591	599128.2	4175367	1.75E-07	4.35E-07	0.00E+00	6.10E-07	1.75E-07	4.35E-07	0.00E+00	6.10E-07	2.84E-08	6.58E-08	0.00E+00	9.43E-08	1.48E-08	2.51E-08	0.00E+00	3.99E-08
4592	599136.6	4175363	1.71E-07	4.27E-07	0.00E+00	5.98E-07	1.71E-07	4.27E-07	0.00E+00	5.98E-07	2.79E-08	6.45E-08	0.00E+00	9.24E-08	1.46E-08	2.46E-08	0.00E+00	3.92E-08
4593	599145	4175360	1.68E-07	4.18E-07	0.00E+00	5.86E-07	1.68E-07	4.18E-07	0.00E+00	5.86E-07	2.73E-08	6.32E-08	0.00E+00	9.06E-08	1.43E-08	2.41E-08	0.00E+00	3.84E-08
4594	599153.5	4175357	1.64E-07	4.10E-07	0.00E+00	5.74E-07	1.64E-07	4.10E-07	0.00E+00	5.74E-07	2.68E-08	6.19E-08	0.00E+00	8.87E-08	1.40E-08	2.36E-08	0.00E+00	3.76E-08
4595	599161.9	4175354	1.62E-07	4.04E-07	0.00E+00	5.67E-07	1.62E-07	4.04E-07	0.00E+00	5.67E-07	2.64E-08	6.12E-08	0.00E+00	8.76E-08	1.38E-08	2.33E-08	0.00E+00	3.71E-08
4596	599170.4	4175350	1.61E-07	4.00E-07	0.00E+00	5.60E-07	1.61E-07	4.00E-07	0.00E+00	5.60E-07	2.61E-08	6.04E-08	0.00E+00	8.65E-08	1.36E-08	2.30E-08	0.00E+00	3.67E-08
4597	599178.8	4175347	1.59E-07	3.95E-07	0.00E+00	5.54E-07	1.59E-07	3.95E-07	0.00E+00	5.54E-07	2.58E-08	5.97E-08	0.00E+00	8.55E-08	1.35E-08	2.28E-08	0.00E+00	3.62E-08
4598	599187.3	4175344	1.57E-07	3.90E-07	0.00E+00	5.47E-07	1.57E-07	3.90E-07	0.00E+00	5.47E-07	2.55E-08	5.90E-08	0.00E+00	8.45E-08	1.33E-08	2.25E-08	0.00E+00	3.58E-08
4599	599195.7	4175341	1.55E-07	3.85E-07	0.00E+00	5.39E-07	1.55E-07	3.85E-07	0.00E+00	5.39E-07	2.51E-08	5.82E-08	0.00E+00	8.33E-08	1.31E-08	2.22E-08	0.00E+00	3.53E-08
4600	599204.1	4175337	1.52E-07	3.79E-07	0.00E+00	5.31E-07	1.52E-07	3.79E-07	0.00E+00	5.31E-07	2.48E-08	5.73E-08	0.00E+00	8.21E-08	1.29E-08	2.18E-08	0.00E+00	3.48E-08
4601	599305.5	4175298	1.27E-07	3.15E-07	0.00E+00	4.42E-07	1.27E-07	3.15E-07	0.00E+00	4.42E-07	2.06E-08	4.76E-08	0.00E+00	6.82E-08	1.07E-08	1.82E-08	0.00E+00	2.89E-08
4602	599313.9	4175295	1.24E-07	3.10E-07	0.00E+00	4.34E-07	1.24E-07	3.10E-07	0.00E+00	4.34E-07	2.02E-08	4.68E-08	0.00E+00	6.71E-08	1.06E-08	1.79E-08	0.00E+00	2.84E-08
4603	599322.4	4175291	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.99E-08	4.61E-08	0.00E+00	6.60E-08	1.04E-08	1.76E-08	0.00E+00	2.79E-08
4604	599330.8	4175288	1.2E-07	3.00E-07	0.00E+00	4.20E-07	1.20E-07	3.00E-07	0.00E+00	4.20E-07	1.96E-08	4.53E-08	0.00E+00	6.49E-08	1.02E-08	1.73E-08	0.00E+00	2.75E-08
4605	599339.2	4175285	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.19E-07	2.96E-07	0.00E+00	4.15E-07	1.93E-08	4.47E-08	0.00E+00	6.41E-08	1.01E-08	1.71E-08	0.00E+00	2.71E-08
4606	599347.7	4175282	1.18E-07	2.93E-07	0.00E+00	4.10E-07	1.18E-07	2.93E-07	0.00E+00	4.10E-07	1.91E-08	4.43E-08	0.00E+00	6.34E-08	9.98E-09	1.69E-08	0.00E+00	2.68E-08
4607	599356.1	4175278	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.16E-07	2.90E-07	0.00E+00	4.06E-07	1.89E-08	4.38E-08	0.00E+00	6.27E-08	9.88E-09	1.67E-08	0.00E+00	2.66E-08
4608	599364.6	4175275	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.88E-08	4.34E-08	0.00E+00	6.22E-08	9.79E-09	1.65E-08	0.00E+00	2.63E-08
4609	599373	4175272	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.14E-07	2.84E-07	0.00E+00	3.98E-07	1.85E-08	4.29E-08	0.00E+00	6.14E-08	9.67E-09	1.63E-08	0.00E+00	2.60E-08
4610	599381.5	4175268	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.13E-07	2.81E-07	0.00E+00	3.93E-07	1.83E-08	4.24E-08	0.00E+00	6.08E-08	9.57E-09	1.62E-08	0.00E+00	2.58E-08
4611	599389.9	4175265	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.82E-08	4.21E-08	0.00E+00	6.02E-08	9.49E-09	1.60E-08	0.00E+00	2.55E-08
4612	599398.3	4175262	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.18E-08	0.00E+00	5.99E-08	9.43E-09	1.59E-08	0.00E+00	2.54E-08
4613	599406.8	4175259	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.11E-07	2.76E-07	0.00E+00	3.87E-07	1.80E-08	4.17E-08	0.00E+00	5.97E-08	9.41E-09	1.59E-08	0.00E+00	2.53E-08
4614	599474.3	4175232	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.18E-08	0.00E+00	5.99E-08	9.44E-09	1.59E-08	0.00E+00	2.54E-08
4615	599482.8	4175229	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.19E-08	0.00E+00	5.99E-08	9.44E-09	1.60E-08	0.00E+00	2.54E-08
4616	599491.2	4175226	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.19E-08	0.00E+00	5.99E-08	9.44E-09	1.60E-08	0.00E+00	2.54E-08
4617	599121.7	4175350	1.68E-07	4.18E-07	0.00E+00	5.86E-07	1.68E-07	4.18E-07	0.00E+00	5.86E-07	2.73E-08	6.32E-08	0.00E+00	9.05E-08	1.42E-08	2.41E-08	0.00E+00	3.83E-08

4618	599130.2	4175346	1.64E-07	4.10E-07	0.00E+00	5.74E-07	1.64E-07	4.10E-07	0.00E+00	5.74E-07	2.68E-08	6.19E-08	0.00E+00	8.87E-08	1.40E-08	2.36E-08	0.00E+00	3.76E-08
4619	599147	4175340	1.58E-07	3.95E-07	0.00E+00	5.53E-07	1.58E-07	3.95E-07	0.00E+00	5.53E-07	2.58E-08	5.97E-08	0.00E+00	8.54E-08	1.35E-08	2.27E-08	0.00E+00	3.62E-08
4620	599155.4	4175337	1.56E-07	3.88E-07	0.00E+00	5.44E-07	1.56E-07	3.88E-07	0.00E+00	5.44E-07	2.54E-08	5.87E-08	0.00E+00	8.41E-08	1.32E-08	2.24E-08	0.00E+00	3.56E-08
4621	599172.3	4175330	1.52E-07	3.80E-07	0.00E+00	5.32E-07	1.52E-07	3.80E-07	0.00E+00	5.32E-07	2.48E-08	5.74E-08	0.00E+00	8.22E-08	1.29E-08	2.19E-08	0.00E+00	3.48E-08
4622	599180.7	4175327	1.51E-07	3.75E-07	0.00E+00	5.26E-07	1.51E-07	3.75E-07	0.00E+00	5.26E-07	2.45E-08	5.67E-08	0.00E+00	8.13E-08	1.28E-08	2.16E-08	0.00E+00	3.44E-08
4623	599189.1	4175323	1.49E-07	3.70E-07	0.00E+00	5.19E-07	1.49E-07	3.70E-07	0.00E+00	5.19E-07	2.42E-08	5.60E-08	0.00E+00	8.01E-08	1.26E-08	2.13E-08	0.00E+00	3.40E-08
4624	599205.9	4175317	1.44E-07	3.59E-07	0.00E+00	5.03E-07	1.44E-07	3.59E-07	0.00E+00	5.03E-07	2.35E-08	5.43E-08	0.00E+00	7.77E-08	1.22E-08	2.07E-08	0.00E+00	3.29E-08
4625	599298.6	4175281	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.22E-07	3.05E-07	0.00E+00	4.27E-07	1.99E-08	4.61E-08	0.00E+00	6.60E-08	1.04E-08	1.76E-08	0.00E+00	2.79E-08
4626	599307	4175278	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.21E-07	3.00E-07	0.00E+00	4.21E-07	1.96E-08	4.54E-08	0.00E+00	6.50E-08	1.02E-08	1.73E-08	0.00E+00	2.76E-08
4627	599323.8	4175271	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.17E-07	2.91E-07	0.00E+00	4.08E-07	1.90E-08	4.40E-08	0.00E+00	6.30E-08	9.92E-09	1.68E-08	0.00E+00	2.67E-08
4628	599332.2	4175268	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.15E-07	2.86E-07	0.00E+00	4.01E-07	1.87E-08	4.33E-08	0.00E+00	6.20E-08	9.76E-09	1.65E-08	0.00E+00	2.63E-08
4629	599340.7	4175265	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.14E-07	2.83E-07	0.00E+00	3.97E-07	1.85E-08	4.28E-08	0.00E+00	6.13E-08	9.65E-09	1.63E-08	0.00E+00	2.60E-08
4630	599357.5	4175258	1.11E-07	2.78E-07	0.00E+00	3.89E-07	1.11E-07	2.78E-07	0.00E+00	3.89E-07	1.81E-08	4.20E-08	0.00E+00	6.01E-08	9.46E-09	1.60E-08	0.00E+00	2.55E-08
4631	599365.9	4175255	1.1E-07	2.75E-07	0.00E+00	3.85E-07	1.10E-07	2.75E-07	0.00E+00	3.85E-07	1.80E-08	4.16E-08	0.00E+00	5.95E-08	9.38E-09	1.58E-08	0.00E+00	2.52E-08
4632	599382.8	4175248	1.08E-07	2.69E-07	0.00E+00	3.78E-07	1.08E-07	2.69E-07	0.00E+00	3.78E-07	1.76E-08	4.07E-08	0.00E+00	5.83E-08	9.19E-09	1.55E-08	0.00E+00	2.47E-08
4633	599391.2	4175245	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.07E-07	2.67E-07	0.00E+00	3.74E-07	1.75E-08	4.04E-08	0.00E+00	5.79E-08	9.11E-09	1.54E-08	0.00E+00	2.45E-08
4634	599399.6	4175242	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.07E-09	1.53E-08	0.00E+00	2.44E-08
4635	599475.4	4175212	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.73E-08	4.00E-08	0.00E+00	5.73E-08	9.03E-09	1.53E-08	0.00E+00	2.43E-08
4636	599483.8	4175209	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.73E-08	4.01E-08	0.00E+00	5.74E-08	9.03E-09	1.53E-08	0.00E+00	2.43E-08
4637	599123.7	4175329	1.57E-07	3.92E-07	0.00E+00	5.49E-07	1.57E-07	3.92E-07	0.00E+00	5.49E-07	2.56E-08	5.93E-08	0.00E+00	8.49E-08	1.34E-08	2.26E-08	0.00E+00	3.60E-08
4638	599132.1	4175326	1.55E-07	3.85E-07	0.00E+00	5.40E-07	1.55E-07	3.85E-07	0.00E+00	5.40E-07	2.52E-08	5.83E-08	0.00E+00	8.35E-08	1.31E-08	2.22E-08	0.00E+00	3.54E-08
4639	599148.9	4175319	1.5E-07	3.74E-07	0.00E+00	5.24E-07	1.50E-07	3.74E-07	0.00E+00	5.24E-07	2.44E-08	5.66E-08	0.00E+00	8.10E-08	1.28E-08	2.16E-08	0.00E+00	3.43E-08
4640	599165.7	4175313	1.47E-07	3.65E-07	0.00E+00	5.12E-07	1.47E-07	3.65E-07	0.00E+00	5.12E-07	2.38E-08	5.52E-08	0.00E+00	7.90E-08	1.24E-08	2.10E-08	0.00E+00	3.35E-08
4641	599174.1	4175310	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.82E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
4642	599190.9	4175303	1.41E-07	3.52E-07	0.00E+00	4.93E-07	1.41E-07	3.52E-07	0.00E+00	4.93E-07	2.30E-08	5.32E-08	0.00E+00	7.62E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
4643	599199.3	4175300	1.39E-07	3.47E-07	0.00E+00	4.86E-07	1.39E-07	3.47E-07	0.00E+00	4.86E-07	2.27E-08	5.24E-08	0.00E+00	7.51E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08
4644	599291.7	4175264	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.18E-07	2.95E-07	0.00E+00	4.13E-07	1.92E-08	4.45E-08	0.00E+00	6.38E-08	1.00E-08	1.70E-08	0.00E+00	2.70E-08
4645	599308.5	4175258	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.15E-07	2.87E-07	0.00E+00	4.02E-07	1.87E-08	4.34E-08	0.00E+00	6.21E-08	9.78E-09	1.65E-08	0.00E+00	2.63E-08
4646	599325.3	4175251	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.12E-07	2.78E-07	0.00E+00	3.90E-07	1.82E-08	4.20E-08	0.00E+00	6.02E-08	9.48E-09	1.60E-08	0.00E+00	2.55E-08
4647	599333.7	4175248	1.1E-07	2.74E-07	0.00E+00	3.84E-07	1.10E-07	2.74E-07	0.00E+00	3.84E-07	1.79E-08	4.14E-08	0.00E+00	5.93E-08	9.34E-09	1.58E-08	0.00E+00	2.51E-08
4648	599350.5	4175241	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.08E-07	2.68E-07	0.00E+00	3.76E-07	1.75E-08	4.06E-08	0.00E+00	5.81E-08	9.15E-09	1.55E-08	0.00E+00	2.46E-08
4649	599358.9	4175238	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.08E-09	1.53E-08	0.00E+00	2.44E-08
4650	599375.7	4175231	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.71E-08	3.95E-08	0.00E+00	5.65E-08	8.90E-09	1.50E-08	0.00E+00	2.40E-08
4651	599384.1	4175228	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.91E-08	0.00E+00	5.61E-08	8.83E-09	1.49E-08	0.00E+00	2.37E-08
4652	599400.9	4175222	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.72E-09	1.47E-08	0.00E+00	2.35E-08
4653	599468	4175196	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.02E-07	2.54E-07	0.00E+00	3.57E-07	1.66E-08	3.85E-08	0.00E+00	5.51E-08	8.67E-09	1.47E-08	0.00E+00	2.33E-08
4654	599476.4	4175192	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.02E-07	2.55E-07	0.00E+00	3.57E-07	1.67E-08	3.85E-08	0.00E+00	5.52E-08	8.69E-09	1.47E-08	0.00E+00	2.34E-08
4655	599493.2	4175186	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.72E-09	1.47E-08	0.00E+00	2.35E-08
4656	599125.6	4175309	1.49E-07	3.72E-07	0.00E+00	5.21E-07	1.49E-07	3.72E-07	0.00E+00	5.21E-07	2.43E-08	5.62E-08	0.00E+00	8.05E-08	1.27E-08	2.14E-08	0.00E+00	3.41E-08
4657	599142.4	4175302	1.45E-07	3.61E-07	0.00E+00	5.06E-07	1.45E-07	3.61E-07	0.00E+00	5.06E-07	2.36E-08	5.46E-08	0.00E+00	7.81E-08	1.23E-08	2.08E-08	0.00E+00	3.31E-08
4658	599159.2	4175296	1.41E-07	3.51E-07	0.00E+00	4.93E-07	1.41E-07	3.51E-07	0.00E+00	4.93E-07	2.30E-08	5.31E-08	0.00E+00	7.61E-08	1.20E-08	2.03E-08	0.00E+00	3.22E-08
4659	599175.9	4175289	1.38E-07	3.43E-07	0.00E+00	4.81E-07	1.38E-07	3.43E-07	0.00E+00	4.81E-07	2.24E-08	5.19E-08	0.00E+00	7.43E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
4660	599293.2	4175244	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.13E-07	2.82E-07	0.00E+00	3.95E-07	1.84E-08	4.26E-08	0.00E+00	6.10E-08	9.60E-09	1.62E-08	0.00E+00	2.58E-08
4661	599309.9	4175237	1.1E-07	2.74E-07	0.00E+00	3.84E-07	1.10E-07	2.74E-07	0.00E+00	3.84E-07	1.79E-08	4.15E-08	0.00E+00	5.94E-08	9.35E-09	1.58E-08	0.00E+00	2.51E-08
4662	599326.7	4175231	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.07E-07	2.66E-07	0.00E+00	3.73E-07	1.74E-08	4.02E-08	0.00E+00	5.76E-08	9.07E-09	1.53E-08	0.00E+00	2.44E-08
4663	599343.4	4175224	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.70E-08	3.93E-08	0.00E+00	5.63E-08	8.86E-09	1.50E-08	0.00E+00	2.38E-08
4664	599360.2	4175218	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.03E-07	2.56E-07	0.00E+00	3.58E-07	1.67E-08	3.86E-08	0.00E+00	5.53E-08	8.72E-09	1.47E-08	0.00E+00	2.34E-08
4665	599377	4175211	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.80E-08	0.00E+00	5.44E-08	8.56E-09	1.45E-08	0.00E+00	2.30E-08
4666	599393.7	4175205	9.93E-08	2.47E-07	0.00E+00	3.47E-07	9.93E-08	2.47E-07	0.00E+00	3.47E-07	1.62E-08	3.74E-08	0.00E+00	5.35E-08	8.43E-09	1.42E-08	0.00E+00	2.27E-08
4667	599477.5	4175172	9.88E-08	2.46E-07	0.00E+00	3.45E-07	9.88E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.39E-09	1.42E-08	0.00E+00	2.26E-08
4668	599114.2	4175294	1.48E-07	3.68E-07	0.00E+00	5.16E-07	1.48E-07	3.68E-07	0.00E+00	5.16E-07	2.40E-08	5.56E-08	0.00E+00	7.97E-08	1.25E-08	2.12E-08	0.00E+00	3.38E-08
4669	599122.7	4175290	1.44E-07	3.58E-07	0.00E+00	5.01E-07	1.44E-07	3.58E-07	0.00E+00	5.01E-07	2.34E-08	5.41E-08	0.00E+00	7.75E-08	1.22E-08	2.06E-08	0.00E+00	3.28E-08
4670	599131.2	4175287	1.41E-07	3.52E-07	0.00E+00	4.94E-07	1.41E-07	3.52E-07	0.00E+00	4.94E-07	2.30E-08	5.33E-08	0.00E+00	7.63E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
4671	599139.6	4175284	1.39E-07	3.47E-07	0.00E+00	4.87E-07	1.39E-07	3.47E-07	0.00E+00	4.87E-07	2.27E-08	5.25E-08	0.00E+00	7.52E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08
4672	599148.1	4175281	1.37E-07	3.42E-07	0.00E+00	4.79E-07	1.37E-07	3.42E-07	0.00E+00	4.79E-07	2.23E-08	5.17E-08	0.00E+00	7.40E-08	1.17E-08	1.97E-08	0.00E+00	3.13E-08
4673	599156.6	4175277	1.35E-07	3.37E-07	0.00E+00	4.72E-07	1.35E-07	3.37E-07	0.00E+00	4.72E-07	2.20E-08	5.09E-08	0.00E+00	7.29E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
4674	599165	4175274	1.33E-07	3.32E-07	0.00E+00	4.66E-07	1.33E-07	3.32E-07	0.00E+00	4.66E-07	2.17E-08	5.02E-08	0.00E+00	7.19E-08	1.13E-08	1.91E-08	0.00E+00	3.05E-08
4675	599173.5	4175271	1.32E-07	3.27E-07	0.00E+00	4.59E-07	1.32E-07	3.27E-07	0.00E+00	4.59E-07	2.14E-08	4.95E-08	0.00E+00	7.09E-08	1.12E-08	1.89E-08	0.00E+00	3.00E-08
4676	599182	4175267	1.3E-07	3.23E-07	0.00E+00	4.52E-07	1.30E-07	3.23E-07	0.00E+00	4.52E-07	2.11E-08	4.88E-08	0.00E+00	6.98E-08	1.10E-08	1.86E-08	0.00E+00	2.96E-08
4677	599275.1	4175231	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.11E-07	2.77E-07	0.00E+00	3.88E-07	1.81E-08	4.19E-08	0.00E+00	6.00E-08	9.45E-09	1.60E-08	0.00E+00	2.54E-08
4678	599283.5	4175228	1.1E-07	2.73E-07	0.00E+00	3.83E-07	1.10E-07	2.73E-07	0.00E+00	3.83E-07	1.79E-08	4.13E-08	0.00E+00	5.92E-08	9.32E-09	1.58E-08	0.00E+00	2.51E-08
4679	599292	4175225	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.08E-07	2.70E-07	0.00E+00	3.78E-07	1.76E-08	4.08E-08	0.00E+00	5.84E-08	9.20E-09	1.55E-08	0.00E+00	2.47E-08
4680	599300.5	4175221	1.07E-07	2.66E-07	0.00E+00	3.72E-07	1.07E-07	2.66E-07	0.00E+00	3.72E-07	1.74E-08	4.02E-08	0.00E+00	5.75E-08	9.06E-09	1.53E-08	0.00E+00	2.44E-08
4681	599308.9	4175218	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.67E-08	8.93E-09	1.51E-08	0.00E+00	2.40E-08
4682	599317.4	4175215	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.04E-07	2.58E-07	0.00E+00	3.62E-07	1.69E-08	3.91E-08	0.00E+00	5.59E-08	8.81E-09	1.49E-08	0.00E+00	2.37E-08
4683	599325.8	4175212	1.02E-07	2.55E-07	0.00E+00	3.58E-07	1.02E-07	2.55E-07	0.00E+00	3.58E-07	1.67E-08	3.86E-08	0.00E+00	5.52E-08	8.70E-09	1.47E-08	0.00E+00	2.34E-08
4684	599334.3	4175208	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.47E-08	8.61E-09	1.45E-08	0.00E+00	2.32E-08
4685	599342.8	4175205	1E-07	2.50E-07	0.00E+00	3.50E-07	1.00E-07	2.50E-07	0.00E+00	3.50E-07	1.63E-08	3.78E-08	0.00E+00	5.41E-08	8.53E-09	1.44E-08	0.00E+00	2.29E-08
4686	599351.2	4175202	9.95E-08	2.48E-07	0.00E+00	3.47E-07	9.95E-08	2.48E-07	0.00E+00	3.47E-07	1.62E-08	3.75E-08	0.00E+00	5.36E-08	8.45E-09	1.43E-08	0.00E+00	2.27E-08
4687	599359.7	4175198	9.86E-08	2.45E-07	0.00E+00	3.44E-07	9.86E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.37E-09	1.41E-08	0.00E+00	2.25E-08
4688	599368.2	4175195	9.76E-08	2.43E-07	0.00E+00	3.41E-07	9.76E-08	2.43E-07	0.00E+00	3.41E-07	1.59E-08	3.67E-08	0.00E+00	5.26E-08	8.29E-09	1.40E-08	0.00E+00	2.23E-08
4689	599376.6	4175192	9.66E-08	2.41E-07	0.00E+00	3.37E-07	9.66E-08	2.41E-07	0.00E+00	3.37E-07	1.57E-08	3.64E-08	0.00E+00	5.21E-08	8.20E-09	1.39E-08	0.00E+00	2.21E-08
4690	599385.1	4175189	9.57E-08	2.38E-07	0.00E+00	3.34E-07	9.57E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.16E-08	8.13E-09	1.37E-08	0.00E+00	2.19E-08
4691	599393.6	4175185	9.5E-08	2.37E-07	0.00E+00	3.32E-07	9.50E-08	2.37E-07	0.00E+00	3.32E-07	1.55E-08	3.58E-08	0.00E+00	5.12E-08	8.07E-09	1.36E-08	0.00E+00	2.17E-08
4692	599402	4175182	9.46E-08	2.36E-07	0.00E+00	3.30E-07	9.46E-08	2.36E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.10E-08	8.04E-09	1.36E-08	0.00E+00	2.16E-08
4693	599469.7	4175156	9.5E-08	2.37E-07	0.00E+00	3.32E-07	9.50E-08	2.37E-07	0.00E+00	3.32E-07	1.55E-08	3.58E-08	0.00E+00	5.12E-08	8.07E-09	1.36E-08	0.00E+00	2.17E-08
4694	599478.2	4175153	9.54E-08	2.38E-07	0.00E+00	3.33E-07	9.54E-08	2.38E-07	0.00E+00	3.33E-07	1.55E-08	3.59E-08	0.00E+00	5.14E-08	8.10E-09	1.37E-08	0.00E+00	2.18E-08
4695	599486.7	4175149	9.57E-08	2.38E-07	0.00E+00	3.34E-07	9.57E-08	2.38E-07	0.00E+00	3.34E-07	1.56E-08	3.60E-08	0.00E+00	5.16E-08	8.13E-09	1.37E-08	0.00E+00	2.19E-08
4696	599495.1	4175146	9.58E-08	2.39E-07	0.00E+00	3.34E-07	9.58E-08	2.39E-07	0.00E+00	3.34E-07	1.56E-08	3.61E-08	0.00E+00	5.17E-08	8.14E-09	1.38E-08	0.00E+00	2.19E-08
4697	599107.8	4175277	1.45E-07	3.62E-07	0.00E+00	5.07E-07	1.45E-07	3.62E-07	0.00E+00	5.07E-07	2.36E-08	5.47E-08	0.00E+00	7.84E-08	1.23E-08	2.09E-08	0.00E+00	3.32E-08
4698	599116.2	4175273	1.41E-07	3.52E-07	0.00E+00	4.94E-07	1.41E-07	3.52E-07	0.00E+00	4.94E-07	2.30E-08	5.32E-08	0.00E+00	7.62E-08	1.20E-08	2.03E-08	0.00E+00	3.23E-08
4699	599124.7	4175270	1.38E-07	3.43E-07	0.00E+00	4.81E-07	1.38E-07	3.43E-07	0.00E+00	4.81E-07	2.24E-08	5.19E-08	0.00E+00	7.43E-08	1.17E-08	1.98E-08	0.00E+00	3.15E-08
4700	599133.1	4175267	1.36E-07	3.38E-07	0.00E+00	4.73E-07	1.36E-07	3.38E-07	0.00E+00	4.73E-07	2.21E-08	5.10E-08	0.00E+00	7.31E-08	1.15E-08	1.95E-08	0.00E+00	3.10E-08
4701	599141.6	4175264	1.33E-07	3.32E-07	0.00E+00	4.65E-07	1.33E-07	3.32E-07	0.00E+00	4.65E-07	2.17E-08	5.02E-08	0.00E+00	7.18E-08	1.13E-08	1.91E-08	0.00E+00	3.04E-08
4702	599150	4175260	1.31E-07	3.26E-07	0.00E+00	4.57E-07	1.31E-07	3.26E-07	0.00E+00	4.57E-07	2.13E-08	4.93E-08	0.00E+00	7.06E-08	1.11E-08	1.88E-08	0.00E+00	2.99E-08
4703	599158.4	4175257	1.29E-07	3.21E-07	0.00E+00	4.50E-07	1.29E-07	3.21E-07	0.00E+00	4.50E-07	2.10E-08	4.85E-08	0.00E+00	6.95E-08	1.09E-08	1.85E-08	0.00E+00	2.94E-08
4704	599166.9	4175254	1.27E-07	3.16E-07	0.00E+00	4.44E-07	1.27E-07	3.16E-07	0.00E+00	4.44E-07	2.07E-08	4.79E-08	0.00E+00	6.85E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
4705	599175.3	4175250	1.25E-07	3.12E-07	0.00E+00	4.37E-07	1.25E-07	3.12E-07	0.00E+00	4.37E-07	2.04E-08	4.72E-08	0.00E+00	6.76E-08	1.06E-08	1.80E-08	0.00E+00	2.86E-08
4706	599268.2	4175214	1.08E-07	2.69E-07	0.00E+00	3.76E-07	1.08E-07	2.69E-07	0.00E+00	3.76E-07	1.75E-08	4.06E-08	0.00E+00	5.82E-08	9.16E-09	1.55E-08	0.00E+00	2.46E-08
4707	599276.6	4175211	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.06E-07	2.65E-07	0.00E+00	3.71E-07	1.73E-08	4.01E-08	0.00E+00	5.74E-08	9.04E-09	1.53E-08	0.00E+00	2.43E-08
4708	599285.1	4175208	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.05E-07	2.61E-07	0.00E+00	3.66E-07	1.70E-08	3.94E-08	0.00E+00	5.65E-08	8.90E-09	1.50E-08	0.00E+00	2.39E-08
4709	599293.5	4175205	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.88E-08	0.00E+00	5.56E-08	8.76E-09	1.48E-08	0.00E+00	2.36E-08
4710	599302	4175201	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.65E-08	3.82E-08	0.00E+00	5.48E-08	8.63E-09	1.46E-08	0.00E+00	2.32E-08
4711	599310.4	4175198	1E-07	2.50E-07	0.00E+00	3.50E-07	1.00E-07	2.50E-07	0.00E+00	3.50E-07	1.63E-08	3.78E-08	0.00E+00	5.41E-08	8.52E-09	1.44E-08	0.00E+00	2.29E-08
4712	599318.8	4175195	9.93E-08	2.47E-07	0.00E+00	3.47E-07	9.93E-08	2.47E-07	0.00E+00	3.47E-07	1.62E-08	3.74E-08	0.00E+00	5.35E-08	8.43E-09	1.42E-08	0.00E+00	2.27E-08
4713	599327.3	4175191	9.83E-08	2.45E-07	0.00E+00	3.43E-07	9.83E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.30E-08	8.35E-09	1.41E-08	0.00E+00	2.24E-08
4714	599335.7	4175188	9.73E-08	2.42E-07	0.00E+00	3.40E-07	9.73E-08	2.42E-07	0.00E+00	3.40E-07	1.58E-08	3.66E-08	0.00E+00	5.25E-08	8.26E-09	1.40E-08	0.00E+00	2.22E-08
4715	599344.2	4175185	9.62E-08	2.40E-07	0.00E+00	3.36E-07	9.62E-08	2.40E-07	0.00E+00	3.36E-07	1.57E-08	3.62E-08	0.00E+00	5.19E-08	8.17E-09	1.38E-08	0.00E+00	2.20E-08
4716	599352.6	4175182	9.51E-08	2.37E-07	0.00E+00	3.32E-07	9.51E-08	2.37E-07	0.00E+00	3.32E-07	1.55E-08	3.58E-08	0.00E+00	5.13E-08	8.08E-09	1.37E-08	0.00E+00	2.17E-08
4717	599361.1	4175178	9.41E-08	2.34E-07	0.00E+00	3.28E-07	9.41E-08	2.34E-07	0.00E+00	3.28E-07	1.53E-08	3.54E-08	0.00E+00	5.08E-08	7.99E-09	1.35E-08	0.00E+00	2.15E-08
4718	599369.5	4175175	9.32E-08	2.32E-07	0.00E+00	3.25E-07	9.32E-08	2.32E-07	0.00E+00	3.25E-07	1.52E-08	3.51E-08	0.00E+00	5.02E-08	7.91E-09	1.34E-08	0.00E+00	2.13E-08
4719	599377.9	4175172	9.24E-08	2.30E-07	0.00E+00	3.22E-07	9.24E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.33E-08	0.00E+00	2.11E-08
4720	599386.4	4175169	9.17E-08	2.28E-07	0.00E+00	3.20E-07	9.17E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.95E-08	7.79E-09	1.32E-08	0.00E+00	2.10E-08
4721	599394.8	4175165	9.13E-08	2.27E-07	0.00E+00	3.19E-07	9.13E-08	2.27E-07	0.00E+00	3.19E-07	1.49E-08	3.44E-08	0.00E+00	4.92E-08	7.75E-09	1.31E-08	0.00E+00	2.09E-08
4722	599403.3	4175162	9.11E-08	2.27E-07	0.00E+00	3.18E-07	9.11E-08	2.27E-07	0.00E+00	3.18E-07	1.48E-08	3.43E-08	0.00E+00	4.91E-08	7.73E-09	1.31E-08	0.00E+00	2.08E-08
4723	599470.8	4175136	9.14E-08	2.28E-07	0.00E+00	3.19E-07	9.14E-08	2.28E-07	0.00E+00	3.19E-07	1.49E-08	3.44E-08	0.00E+00	4.93E-08	7.76E-09	1.31E-08	0.00E+00	2.09E-08
4724	599479.2	4175133	9.18E-08	2.29E-07	0.00E+00	3.20E-07	9.18E-08	2.29E-07	0.00E+00	3.20E-07	1.49E-08	3.46E-08	0.00E+00	4.95E-08	7.80E-09	1.32E-08	0.00E+00	2.10E-08
4725	599487.7	4175129	9.21E-08	2.29E-07	0.00E+00	3.21E-07	9.21E-08	2.29E-07	0.00E+00	3.21E-07	1.50E-08	3.47E-08	0.00E+00	4.97E-08	7.82E-09	1.32E-08	0.00E+00	2.10E-08
4726	599496.1	4175126	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.32E-08	0.00E+00	2.11E-08
4727	599109.7	4175256	1.39E-07	3.47E-07	0.00E+00	4.86E-07	1.39E-07	3.47E-07	0.00E+00	4.86E-07	2.27E-08	5.25E-08	0.00E+00	7.51E-08	1.18E-08	2.00E-08	0.00E+00	3.18E-08

4728	599118.2	4175253	1.35E-07	3.37E-07	0.00E+00	4.72E-07	1.35E-07	3.37E-07	0.00E+00	4.72E-07	2.20E-08	5.09E-08	0.00E+00	7.29E-08	1.15E-08	1.94E-08	0.00E+00	3.09E-08
4729	599135	4175246	1.29E-07	3.22E-07	0.00E+00	4.51E-07	1.29E-07	3.22E-07	0.00E+00	4.51E-07	2.10E-08	4.87E-08	0.00E+00	6.97E-08	1.10E-08	1.86E-08	0.00E+00	2.95E-08
4730	599143.4	4175243	1.27E-07	3.16E-07	0.00E+00	4.43E-07	1.27E-07	3.16E-07	0.00E+00	4.43E-07	2.07E-08	4.78E-08	0.00E+00	6.85E-08	1.08E-08	1.82E-08	0.00E+00	2.90E-08
4731	599151.9	4175240	1.25E-07	3.11E-07	0.00E+00	4.36E-07	1.25E-07	3.11E-07	0.00E+00	4.36E-07	2.03E-08	4.70E-08	0.00E+00	6.73E-08	1.06E-08	1.79E-08	0.00E+00	2.85E-08
4732	599168.7	4175233	1.21E-07	3.02E-07	0.00E+00	4.24E-07	1.21E-07	3.02E-07	0.00E+00	4.24E-07	1.97E-08	4.57E-08	0.00E+00	6.54E-08	1.03E-08	1.74E-08	0.00E+00	2.77E-08
4733	599261.3	4175197	1.04E-07	2.60E-07	0.00E+00	3.65E-07	1.04E-07	2.60E-07	0.00E+00	3.65E-07	1.70E-08	3.93E-08	0.00E+00	5.63E-08	8.87E-09	1.50E-08	0.00E+00	2.39E-08
4734	599269.8	4175194	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.03E-07	2.57E-07	0.00E+00	3.60E-07	1.68E-08	3.89E-08	0.00E+00	5.57E-08	8.77E-09	1.48E-08	0.00E+00	2.36E-08
4735	599278.2	4175191	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.02E-07	2.54E-07	0.00E+00	3.56E-07	1.66E-08	3.84E-08	0.00E+00	5.49E-08	8.65E-09	1.46E-08	0.00E+00	2.33E-08
4736	599295	4175184	9.88E-08	2.46E-07	0.00E+00	3.45E-07	9.88E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.72E-08	0.00E+00	5.33E-08	8.39E-09	1.42E-08	0.00E+00	2.26E-08
4737	599303.4	4175181	9.74E-08	2.43E-07	0.00E+00	3.40E-07	9.74E-08	2.43E-07	0.00E+00	3.40E-07	1.58E-08	3.67E-08	0.00E+00	5.25E-08	8.27E-09	1.40E-08	0.00E+00	2.22E-08
4738	599311.9	4175178	9.64E-08	2.40E-07	0.00E+00	3.36E-07	9.64E-08	2.40E-07	0.00E+00	3.36E-07	1.57E-08	3.63E-08	0.00E+00	5.20E-08	8.18E-09	1.38E-08	0.00E+00	2.20E-08
4739	599328.7	4175171	9.43E-08	2.35E-07	0.00E+00	3.29E-07	9.43E-08	2.35E-07	0.00E+00	3.29E-07	1.53E-08	3.55E-08	0.00E+00	5.08E-08	8.01E-09	1.35E-08	0.00E+00	2.15E-08
4740	599337.1	4175168	9.32E-08	2.32E-07	0.00E+00	3.25E-07	9.32E-08	2.32E-07	0.00E+00	3.25E-07	1.52E-08	3.51E-08	0.00E+00	5.02E-08	7.91E-09	1.34E-08	0.00E+00	2.13E-08
4741	599345.5	4175165	9.2E-08	2.29E-07	0.00E+00	3.21E-07	9.20E-08	2.29E-07	0.00E+00	3.21E-07	1.50E-08	3.46E-08	0.00E+00	4.96E-08	7.81E-09	1.32E-08	0.00E+00	2.10E-08
4742	599362.4	4175158	8.99E-08	2.24E-07	0.00E+00	3.14E-07	8.99E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.38E-08	0.00E+00	4.85E-08	7.63E-09	1.29E-08	0.00E+00	2.05E-08
4743	599370.8	4175155	8.92E-08	2.22E-07	0.00E+00	3.11E-07	8.92E-08	2.22E-07	0.00E+00	3.11E-07	1.45E-08	3.36E-08	0.00E+00	4.81E-08	7.58E-09	1.28E-08	0.00E+00	2.04E-08
4744	599379.2	4175152	8.87E-08	2.21E-07	0.00E+00	3.10E-07	8.87E-08	2.21E-07	0.00E+00	3.10E-07	1.44E-08	3.34E-08	0.00E+00	4.78E-08	7.53E-09	1.27E-08	0.00E+00	2.03E-08
4745	599396.1	4175145	8.81E-08	2.19E-07	0.00E+00	3.08E-07	8.81E-08	2.19E-07	0.00E+00	3.08E-07	1.43E-08	3.32E-08	0.00E+00	4.75E-08	7.48E-09	1.26E-08	0.00E+00	2.01E-08
4746	599463.4	4175119	8.75E-08	2.18E-07	0.00E+00	3.05E-07	8.75E-08	2.18E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.72E-08	7.43E-09	1.26E-08	0.00E+00	2.00E-08
4747	599471.9	4175116	8.79E-08	2.19E-07	0.00E+00	3.07E-07	8.79E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.31E-08	0.00E+00	4.74E-08	7.46E-09	1.26E-08	0.00E+00	2.01E-08
4748	599488.7	4175109	8.84E-08	2.20E-07	0.00E+00	3.09E-07	8.84E-08	2.20E-07	0.00E+00	3.09E-07	1.44E-08	3.33E-08	0.00E+00	4.77E-08	7.51E-09	1.27E-08	0.00E+00	2.02E-08
4749	599497.1	4175106	8.88E-08	2.21E-07	0.00E+00	3.10E-07	8.88E-08	2.21E-07	0.00E+00	3.10E-07	1.45E-08	3.35E-08	0.00E+00	4.79E-08	7.54E-09	1.28E-08	0.00E+00	2.03E-08
4750	599136.9	4175226	1.23E-07	3.06E-07	0.00E+00	4.29E-07	1.23E-07	3.06E-07	0.00E+00	4.29E-07	2.00E-08	4.62E-08	0.00E+00	6.62E-08	1.04E-08	1.76E-08	0.00E+00	2.81E-08
4751	599153.7	4175220	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.19E-07	2.97E-07	0.00E+00	4.16E-07	1.94E-08	4.49E-08	0.00E+00	6.43E-08	1.01E-08	1.71E-08	0.00E+00	2.72E-08
4752	599254.5	4175181	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.01E-07	2.52E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.46E-08	8.60E-09	1.45E-08	0.00E+00	2.31E-08
4753	599271.3	4175174	9.9E-08	2.46E-07	0.00E+00	3.45E-07	9.90E-08	2.46E-07	0.00E+00	3.45E-07	1.61E-08	3.73E-08	0.00E+00	5.34E-08	8.40E-09	1.42E-08	0.00E+00	2.26E-08
4754	599288.1	4175167	9.61E-08	2.39E-07	0.00E+00	3.35E-07	9.61E-08	2.39E-07	0.00E+00	3.35E-07	1.56E-08	3.62E-08	0.00E+00	5.18E-08	8.16E-09	1.38E-08	0.00E+00	2.19E-08
4755	599296.5	4175164	9.47E-08	2.36E-07	0.00E+00	3.31E-07	9.47E-08	2.36E-07	0.00E+00	3.31E-07	1.54E-08	3.57E-08	0.00E+00	5.11E-08	8.04E-09	1.36E-08	0.00E+00	2.16E-08
4756	599313.3	4175158	9.24E-08	2.30E-07	0.00E+00	3.22E-07	9.24E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.33E-08	0.00E+00	2.11E-08
4757	599330.1	4175151	9E-08	2.24E-07	0.00E+00	3.14E-07	9.00E-08	2.24E-07	0.00E+00	3.14E-07	1.46E-08	3.39E-08	0.00E+00	4.85E-08	7.65E-09	1.29E-08	0.00E+00	2.06E-08
4758	599338.5	4175148	8.89E-08	2.21E-07	0.00E+00	3.10E-07	8.89E-08	2.21E-07	0.00E+00	3.10E-07	1.45E-08	3.35E-08	0.00E+00	4.79E-08	7.55E-09	1.28E-08	0.00E+00	2.03E-08
4759	599355.3	4175141	8.7E-08	2.17E-07	0.00E+00	3.03E-07	8.70E-08	2.17E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.69E-08	7.38E-09	1.25E-08	0.00E+00	1.99E-08
4760	599372.1	4175135	8.58E-08	2.14E-07	0.00E+00	2.99E-07	8.58E-08	2.14E-07	0.00E+00	2.99E-07	1.40E-08	3.23E-08	0.00E+00	4.63E-08	7.28E-09	1.23E-08	0.00E+00	1.96E-08
4761	599388.9	4175128	8.49E-08	2.11E-07	0.00E+00	2.96E-07	8.49E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.20E-08	0.00E+00	4.58E-08	7.21E-09	1.22E-08	0.00E+00	1.94E-08
4762	599397.3	4175125	8.46E-08	2.11E-07	0.00E+00	2.95E-07	8.46E-08	2.11E-07	0.00E+00	2.95E-07	1.38E-08	3.18E-08	0.00E+00	4.56E-08	7.18E-09	1.21E-08	0.00E+00	1.93E-08
4763	599472.9	4175096	8.41E-08	2.09E-07	0.00E+00	2.94E-07	8.41E-08	2.09E-07	0.00E+00	2.94E-07	1.37E-08	3.17E-08	0.00E+00	4.54E-08	7.14E-09	1.21E-08	0.00E+00	1.92E-08
4764	599489.7	4175089	8.47E-08	2.11E-07	0.00E+00	2.96E-07	8.47E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.19E-08	0.00E+00	4.57E-08	7.19E-09	1.22E-08	0.00E+00	1.94E-08
4765	599510.6	4176283	5.16E-07	1.28E-06	0.00E+00	1.80E-06	5.16E-07	1.28E-06	0.00E+00	1.80E-06	8.40E-08	1.94E-07	0.00E+00	2.78E-07	4.38E-08	7.41E-08	0.00E+00	1.18E-07
4766	599520	4176285	3.96E-07	9.86E-07	0.00E+00	1.38E-06	3.96E-07	9.86E-07	0.00E+00	1.38E-06	6.44E-08	1.49E-07	0.00E+00	2.13E-07	3.36E-08	5.68E-08	0.00E+00	9.04E-08
4767	599529.4	4176287	3.29E-07	8.19E-07	0.00E+00	1.15E-06	3.29E-07	8.19E-07	0.00E+00	1.15E-06	5.35E-08	1.24E-07	0.00E+00	1.77E-07	2.79E-08	4.72E-08	0.00E+00	7.52E-08
4768	599538.8	4176289	2.97E-07	7.38E-07	0.00E+00	1.03E-06	2.97E-07	7.38E-07	0.00E+00	1.03E-06	4.82E-08	1.12E-07	0.00E+00	1.60E-07	2.52E-08	4.26E-08	0.00E+00	6.77E-08
4769	599548.2	4176290	2.86E-07	7.11E-07	0.00E+00	9.97E-07	2.86E-07	7.11E-07	0.00E+00	9.97E-07	4.65E-08	1.08E-07	0.00E+00	1.54E-07	2.42E-08	4.10E-08	0.00E+00	6.52E-08
4770	599518.2	4176295	3.36E-07	8.38E-07	0.00E+00	1.17E-06	3.36E-07	8.38E-07	0.00E+00	1.17E-06	5.47E-08	1.27E-07	0.00E+00	1.81E-07	2.86E-08	4.83E-08	0.00E+00	7.68E-08
4771	599527.6	4176297	2.88E-07	7.17E-07	0.00E+00	1.01E-06	2.88E-07	7.17E-07	0.00E+00	1.01E-06	4.69E-08	1.08E-07	0.00E+00	1.55E-07	2.45E-08	4.13E-08	0.00E+00	6.58E-08
4772	599537	4176298	2.63E-07	6.55E-07	0.00E+00	9.19E-07	2.63E-07	6.55E-07	0.00E+00	9.19E-07	4.28E-08	9.91E-08	0.00E+00	1.42E-07	2.24E-08	3.78E-08	0.00E+00	6.01E-08
4773	599546.4	4176300	2.52E-07	6.29E-07	0.00E+00	8.81E-07	2.52E-07	6.29E-07	0.00E+00	8.81E-07	4.11E-08	9.50E-08	0.00E+00	1.36E-07	2.14E-08	3.62E-08	0.00E+00	5.77E-08
4774	599516.4	4176305	2.88E-07	7.16E-07	0.00E+00	1.00E-06	2.88E-07	7.16E-07	0.00E+00	1.00E-06	4.68E-08	1.08E-07	0.00E+00	1.55E-07	2.44E-08	4.13E-08	0.00E+00	6.57E-08
4775	599525.8	4176306	2.52E-07	6.28E-07	0.00E+00	8.81E-07	2.52E-07	6.28E-07	0.00E+00	8.81E-07	4.10E-08	9.50E-08	0.00E+00	1.36E-07	2.14E-08	3.62E-08	0.00E+00	5.76E-08
4776	599535.2	4176308	2.34E-07	5.82E-07	0.00E+00	8.16E-07	2.34E-07	5.82E-07	0.00E+00	8.16E-07	3.81E-08	8.81E-08	0.00E+00	1.26E-07	1.99E-08	3.36E-08	0.00E+00	5.34E-08
4777	599544.6	4176310	2.25E-07	5.59E-07	0.00E+00	7.84E-07	2.25E-07	5.59E-07	0.00E+00	7.84E-07	3.65E-08	8.45E-08	0.00E+00	1.21E-07	1.91E-08	3.22E-08	0.00E+00	5.13E-08
4778	599514.6	4176315	2.47E-07	6.14E-07	0.00E+00	8.60E-07	2.47E-07	6.14E-07	0.00E+00	8.60E-07	4.01E-08	9.28E-08	0.00E+00	1.33E-07	2.09E-08	3.54E-08	0.00E+00	5.63E-08
4779	599524	4176316	2.22E-07	5.54E-07	0.00E+00	7.76E-07	2.22E-07	5.54E-07	0.00E+00	7.76E-07	3.62E-08	8.37E-08	0.00E+00	1.20E-07	1.89E-08	3.19E-08	0.00E+00	5.08E-08
4780	599533.4	4176318	2.11E-07	5.25E-07	0.00E+00	7.36E-07	2.11E-07	5.25E-07	0.00E+00	7.36E-07	3.43E-08	7.94E-08	0.00E+00	1.14E-07	1.79E-08	3.03E-08	0.00E+00	4.82E-08
4781	599542.8	4176320	2.04E-07	5.08E-07	0.00E+00	7.12E-07	2.04E-07	5.08E-07	0.00E+00	7.12E-07	3.32E-08	7.68E-08	0.00E+00	1.10E-07	1.73E-08	2.93E-08	0.00E+00	4.66E-08
4782	599512.8	4176324	2.47E-07	6.16E-07	0.00E+00	8.63E-07	2.47E-07	6.16E-07	0.00E+00	8.63E-07	4.02E-08	9.31E-08	0.00E+00	1.33E-07	2.10E-08	3.55E-08	0.00E+00	5.65E-08
4783	599522.2	4176326	2.19E-07	5.44E-07	0.00E+00	7.63E-07	2.19E-07	5.44E-07	0.00E+00	7.63E-07	3.56E-08	8.23E-08	0.00E+00	1.18E-07	1.86E-08	3.14E-08	0.00E+00	4.99E-08
4784	599531.6	4176328	2.02E-07	5.02E-07	0.00E+00	7.04E-07	2.02E-07	5.02E-07	0.00E+00	7.04E-07	3.28E-08	7.60E-08	0.00E+00	1.09E-07	1.71E-08	2.90E-08	0.00E+00	4.61E-08
4785	599541	4176330	1.91E-07	4.77E-07	0.00E+00	6.68E-07	1.91E-07	4.77E-07	0.00E+00	6.68E-07	3.11E-08	7.21E-08	0.00E+00	1.03E-07	1.63E-08	2.75E-08	0.00E+00	4.37E-08
4786	599511	4176334	2.6E-07	6.46E-07	0.00E+00	9.06E-07	2.60E-07	6.46E-07	0.00E+00	9.06E-07	4.22E-08	9.77E-08	0.00E+00	1.40E-07	2.20E-08	3.72E-08	0.00E+00	5.93E-08
4787	599520.4	4176336	2.19E-07	5.45E-07	0.00E+00	7.64E-07	2.19E-07	5.45E-07	0.00E+00	7.64E-07	3.56E-08	8.25E-08	0.00E+00	1.18E-07	1.86E-08	3.14E-08	0.00E+00	5.00E-08
4788	599529.8	4176338	1.95E-07	4.87E-07	0.00E+00	6.82E-07	1.95E-07	4.87E-07	0.00E+00	6.82E-07	3.18E-08	7.36E-08	0.00E+00	1.05E-07	1.66E-08	2.80E-08	0.00E+00	4.46E-08
4789	599539.2	4176339	1.81E-07	4.52E-07	0.00E+00	6.33E-07	1.81E-07	4.52E-07	0.00E+00	6.33E-07	2.95E-08	6.83E-08	0.00E+00	9.78E-08	1.54E-08	2.60E-08	0.00E+00	4.14E-08
4790	599518.6	4176346	2.24E-07	5.58E-07	0.00E+00	7.82E-07	2.24E-07	5.58E-07	0.00E+00	7.82E-07	3.64E-08	8.43E-08	0.00E+00	1.21E-07	1.90E-08	3.21E-08	0.00E+00	5.12E-08
4791	599528	4176348	1.96E-07	4.88E-07	0.00E+00	6.84E-07	1.96E-07	4.88E-07	0.00E+00	6.84E-07	3.19E-08	7.38E-08	0.00E+00	1.06E-07	1.66E-08	2.81E-08	0.00E+00	4.48E-08
4792	599537.4	4176349	1.79E-07	4.46E-07	0.00E+00	6.25E-07	1.79E-07	4.46E-07	0.00E+00	6.25E-07	2.91E-08	6.74E-08	0.00E+00	9.66E-08	1.52E-08	2.57E-08	0.00E+00	4.09E-08
4793	599516.8	4176356	2.73E-07	6.79E-07	0.00E+00	9.52E-07	2.73E-07	6.79E-07	0.00E+00	9.52E-07	4.44E-08	1.03E-07	0.00E+00	1.47E-07	2.32E-08	3.91E-08	0.00E+00	6.23E-08
4794	599526.2	4176357	2.25E-07	5.60E-07	0.00E+00	7.85E-07	2.25E-07	5.60E-07	0.00E+00	7.85E-07	3.66E-08	8.46E-08	0.00E+00	1.21E-07	1.91E-08	3.23E-08	0.00E+00	5.13E-08
4795	599535.6	4176359	1.94E-07	4.84E-07	0.00E+00	6.78E-07	1.94E-07	4.84E-07	0.00E+00	6.78E-07	3.16E-08	7.32E-08	0.00E+00	1.05E-07	1.65E-08	2.79E-08	0.00E+00	4.44E-08
4796	599515	4176365	3.45E-07	8.59E-07	0.00E+00	1.20E-06	3.45E-07	8.59E-07	0.00E+00	1.20E-06	5.61E-08	1.30E-07	0.00E+00	1.86E-07	2.93E-08	4.95E-08	0.00E+00	7.88E-08
4797	599524.4	4176367	2.73E-07	6.79E-07	0.00E+00	9.51E-07	2.73E-07	6.79E-07	0.00E+00	9.51E-07	4.43E-08	1.03E-07	0.00E+00	1.47E-07	2.31E-08	3.91E-08	0.00E+00	6.23E-08
4798	599533.8	4176369	2.22E-07	5.53E-07	0.00E+00	7.76E-07	2.22E-07	5.53E-07	0.00E+00	7.76E-07	3.61E-08	8.37E-08	0.00E+00	1.20E-07	1.89E-08	3.19E-08	0.00E+00	5.08E-08
4799	599513.2	4176375	4.2E-07	1.05E-06	0.00E+00	1.47E-06	4.20E-07	1.05E-06	0.00E+00	1.47E-06	6.83E-08	1.58E-07	0.00E+00	2.26E-07	3.57E-08	6.03E-08	0.00E+00	9.59E-08
4800	599522.6	4176377	3.35E-07	8.33E-07	0.00E+00	1.17E-06	3.35E-07	8.33E-07	0.00E+00	1.17E-06	5.44E-08	1.26E-07	0.00E+00	1.80E-07	2.84E-08	4.80E-08	0.00E+00	7.64E-08
4801	599532	4176379	2.6E-07	6.47E-07	0.00E+00	9.07E-07	2.60E-07	6.47E-07	0.00E+00	9.07E-07	4.23E-08	9.78E-08	0.00E+00	1.40E-07	2.21E-08	3.73E-08	0.00E+00	5.93E-08
4802	599520.8	4176387	3.62E-07	9.02E-07	0.00E+00	1.26E-06	3.62E-07	9.02E-07	0.00E+00	1.26E-06	5.89E-08	1.36E-07	0.00E+00	1.95E-07	3.08E-08	5.20E-08	0.00E+00	8.27E-08
4803	599530.2	4176389	2.88E-07	7.18E-07	0.00E+00	1.01E-06	2.88E-07	7.18E-07	0.00E+00	1.01E-06	4.69E-08	1.09E-07	0.00E+00	1.55E-07	2.45E-08	4.14E-08	0.00E+00	6.59E-08
4804	599519	4176397	3.84E-07	9.55E-07	0.00E+00	1.34E-06	3.84E-07	9.55E-07	0.00E+00	1.34E-06	6.24E-08	1.44E-07	0.00E+00	2.07E-07	3.26E-08	5.51E-08	0.00E+00	8.76E-08
4805	599528.4	4176398	3.17E-07	7.89E-07	0.00E+00	1.11E-06	3.17E-07	7.89E-07	0.00E+00	1.11E-06	5.16E-08	1.19E-07	0.00E+00	1.71E-07	2.69E-08	4.55E-08	0.00E+00	7.24E-08
4806	599517.2	4176407	3.97E-07	9.89E-07	0.00E+00	1.39E-06	3.97E-07	9.89E-07	0.00E+00	1.39E-06	6.46E-08	1.50E-07	0.00E+00	2.14E-07	3.37E-08	5.70E-08	0.00E+00	9.07E-08
4807	599526.6	4176408	3.4E-07	8.46E-07	0.00E+00	1.19E-06	3.40E-07	8.46E-07	0.00E+00	1.19E-06	5.53E-08	1.28E-07	0.00E+00	1.83E-07	2.88E-08	4.87E-08	0.00E+00	7.76E-08
4808	599515.4	4176416	3.97E-07	9.90E-07	0.00E+00	1.39E-06	3.97E-07	9.90E-07	0.00E+00	1.39E-06	6.47E-08	1.50E-07	0.00E+00	2.14E-07	3.38E-08	5.70E-08	0.00E+00	9.08E-08
4809	599524.8	4176418	3.51E-07	8.74E-07	0.00E+00	1.22E-06	3.51E-07	8.74E-07	0.00E+00	1.22E-06	5.71E-08	1.32E-07	0.00E+00	1.89E-07	2.98E-08	5.03E-08	0.00E+00	8.01E-08
4810	599513.6	4176426	3.94E-07	9.80E-07	0.00E+00	1.37E-06	3.94E-07	9.80E-07	0.00E+00	1.37E-06	6.40E-08	1.48E-07	0.00E+00	2.12E-07	3.34E-08	5.65E-08	0.00E+00	8.99E-08
4811	599523	4176428	3.57E-07	8.89E-07	0.00E+00	1.25E-06	3.57E-07	8.89E-07	0.00E+00	1.25E-06	5.81E-08	1.34E-07	0.00E+00	1.92E-07	3.03E-08	5.12E-08	0.00E+00	8.15E-08
4812	599500.6	4176444	3.7E-07	9.21E-07	0.00E+00	1.29E-06	3.70E-07	9.21E-07	0.00E+00	1.29E-06	6.01E-08	1.39E-07	0.00E+00	1.99E-07	3.14E-08	5.31E-08	0.00E+00	8.44E-08
4813	599510	4176446	3.67E-07	9.13E-07	0.00E+00	1.28E-06	3.67E-07	9.13E-07	0.00E+00	1.28E-06	5.96E-08	1.38E-07	0.00E+00	1.98E-07	3.11E-08	5.26E-08	0.00E+00	8.37E-08
4814	599519.4	4176448	3.54E-07	8.82E-07	0.00E+00	1.24E-06	3.54E-07	8.82E-07	0.00E+00	1.24E-06	5.76E-08	1.33E-07	0.00E+00	1.91E-07	3.01E-08	5.08E-08	0.00E+00	8.09E-08
4815	599489.8	4176503	2.94E-07	7.33E-07	0.00E+00	1.03E-06	2.94E-07	7.33E-07	0.00E+00	1.03E-06	4.79E-08	1.11E-07	0.00E+00	1.59E-07	2.50E-08	4.23E-08	0.00E+00	6.73E-08
4816	599499.2	4176505	2.94E-07	7.33E-07	0.00E+00	1.03E-06	2.94E-07	7.33E-07	0.00E+00	1.03E-06	4.79E-08	1.11E-07	0.00E+00	1.59E-07	2.50E-08	4.22E-08	0.00E+00	6.72E-08
4817	599508.6	4176507	2.93E-07	7.30E-07	0.00E+00	1.02E-06	2.93E-07	7.30E-07	0.00E+00	1.02E-06	4.77E-08	1.10E-07	0.00E+00	1.58E-07	2.49E-08	4.21E-08	0.00E+00	6.70E-08
4818	599495.6	4176525	2.72E-07	6.77E-07	0.00E+00	9.48E-07	2.72E-07	6.77E-07	0.00E+00	9.48E-07	4.42E-08	1.02E-07	0.00E+00	1.47E-07	2.31E-08	3.90E-08	0.00E+00	6.21E-08
4819	599505	4176526	2.69E-07	6.71E-07	0.00E+00	9.40E-07	2.69E-07	6.71E-07	0.00E+00	9.40E-07	4.38E-08	1.01E-07	0.00E+00	1.45E-07	2.29E-08	3.86E-08	0.00E+00	6.15E-08
4820	599514.4	4176528	2.66E-07	6.63E-07	0.00E+00	9.29E-07	2.66E-07	6.63E-07	0.00E+00	9.29E-07	4.33E-08	1.00E-07	0.00E+00	1.44E-07	2.26E-08	3.82E-08	0.00E+00	6.08E-08
4821	599501.4	4176546	2.47E-07	6.16E-07	0.00E+00	8.63E-07	2.47E-07	6.16E-07	0.00E+00	8.63E-07	4.02E-08	9.31E-08	0.00E+00	1.33E-07	2.10E-08	3.55E-08	0.00E+00	5.65E-08
4822	599322.7	4176835	9.63E-08	2.40E-07	0.00E+00	3.36E-07	9.63E-08	2.40E-07	0.00E+00	3.36E-07	1.57E-08	3.62E-08	0.00E+00	5.19E-08	8.17E-09	1.38E-08	0.00E+00	2.20E-08
4823	599314.5	4176831	9.33E-08	2.32E-07	0.00E+00	3.26E-07	9.33E-08	2.32E-07	0.00E+00	3.26E-07	1.52E-08	3.51E-08	0.00E+00	5.03E-08	7.92E-09	1.34E-08	0.00E+00	2.13E-08
4824	599306.3	4176826	9.28E-08	2.31E-07	0.00E+00	3.24E-07	9.28E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.49E-08	0.00E+00	5.00E-08	7.88E-09	1.33E-08	0.00E+00	2.12E-08
4825	599298.1	4176821	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.32E-08	0.00E+00	2.11E-08
4826	599289.8	4176817	9.22E-08	2.30E-07	0.00E+00	3.22E-07	9.22E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.47E-08	0.00E+00	4.97E-08	7.83E-09	1.32E-08	0.00E+00	2.11E-08
4827	599281.6	4176812	9.23E-08	2.30E-07	0.00E+00	3.22E-07	9.23E-08	2.30E-07	0.00E+00	3.22E-07	1.50E-08	3.48E-08	0.00E+00	4.98E-08	7.84E-09	1.32E-08	0.00E+00	2.11E-08
4828	599330.9	4176840	9.68E-08	2.41E-07	0.00E+00	3.38E-07	9.68E-08	2.41E-07	0.00E+00	3.38E-07	1.57E-08	3.64E-08	0.00E+00	5.22E-08	8.22E-09	1.39E-08	0.00E+00	2.21E-08
4829	599340.3	4176842	9.81E-08	2.44E-07	0.00E+00	3.43E-07	9.81E-08	2.44E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.29E-08	8.33E-09	1.41E-08	0.00E+00	2.24E-08
4830	599349.7	4176844	9.97E-08	2.48E-07	0.00E+00	3.48E-07	9.97E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.75E-08	0.00E+00	5.37E-08	8.46E-09	1.43E-08	0.00E+00	2.28E-08
4831	599359.1	4176845	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.01E-07	2.52E-07	0.00E+00	3.53E-07	1.65E-08	3.81E-08	0.00E+00	5.46E-08	8.59E-09	1.45E-08	0.00E+00	2.31E-08
4832	599368.5	4176847	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.73E-09	1.48E-08	0.00E+00	2.35E-08
4833	599377.9	4176849	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.04E-07	2.60E-07	0.00E+00	3.64E-07	1.70E-08	3.93E-08	0.00E+00	5.63E-08	8.86E-09	1.50E-08	0.00E+00	2.38E-08
4834	599387.3	4176850	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.06E-07	2.64E-07	0.00E+00	3.70E-07	1.72E-08	3.99E-08	0.00E+00	5.71E-08	8.99E-09	1.52E-08	0.00E+00	2.42E-08
4835	599319	4176855	8.96E-08	2.23E-07	0.00E+00	3.13E-07	8.96E-08	2.23E-07	0.00E+00	3.13E-07	1.46E-08	3.37E-08	0.00E+00	4.83E-08	7.61E-09	1.29E-08	0.00E+00	2.05E-08
4836	599310.8	4176850	8.92E-08	2.22E-07	0.00E+00	3.11E-07	8.92E-08	2.22E-07	0.00E+00	3.11E-07	1.45E-08	3.36E-08	0.00E+00	4.81E-08	7.58E-09	1.28E-08	0.00E+00	2.04E-08
4837	599302.5	4176846	8.88E-08	2.21E-07	0.00E+00	3.10E-07	8.88E-08	2.21E-07	0.00E+00	3.10E-07	1.45E-08	3.34E-08	0.00E+00	4.79E-08	7.54E-09	1.27E-08	0.00E+00	2.03E-08

4838	599294.2	4176841	8.81E-08	2.19E-07	0.00E+00	3.08E-07	8.81E-08	2.19E-07	0.00E+00	3.08E-07	1.43E-08	3.32E-08	0.00E+00	4.75E-08	7.48E-09	1.26E-08	0.00E+00	2.01E-08
4839	599285.9	4176836	8.77E-08	2.18E-07	0.00E+00	3.06E-07	8.77E-08	2.18E-07	0.00E+00	3.06E-07	1.43E-08	3.30E-08	0.00E+00	4.73E-08	7.45E-09	1.26E-08	0.00E+00	2.00E-08
4840	599277.7	4176832	8.76E-08	2.18E-07	0.00E+00	3.06E-07	8.76E-08	2.18E-07	0.00E+00	3.06E-07	1.42E-08	3.30E-08	0.00E+00	4.72E-08	7.43E-09	1.26E-08	0.00E+00	2.00E-08
4841	599269.4	4176827	8.79E-08	2.19E-07	0.00E+00	3.07E-07	8.79E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.31E-08	0.00E+00	4.74E-08	7.47E-09	1.26E-08	0.00E+00	2.01E-08
4842	599261.1	4176822	8.86E-08	2.21E-07	0.00E+00	3.09E-07	8.86E-08	2.21E-07	0.00E+00	3.09E-07	1.44E-08	3.34E-08	0.00E+00	4.78E-08	7.52E-09	1.27E-08	0.00E+00	2.02E-08
4843	599252.8	4176818	8.92E-08	2.22E-07	0.00E+00	3.11E-07	8.92E-08	2.22E-07	0.00E+00	3.11E-07	1.45E-08	3.36E-08	0.00E+00	4.81E-08	7.58E-09	1.28E-08	0.00E+00	2.04E-08
4844	599244.6	4176813	8.98E-08	2.24E-07	0.00E+00	3.13E-07	8.98E-08	2.24E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.84E-08	7.62E-09	1.29E-08	0.00E+00	2.05E-08
4845	599236.3	4176808	9.03E-08	2.25E-07	0.00E+00	3.15E-07	9.03E-08	2.25E-07	0.00E+00	3.15E-07	1.47E-08	3.40E-08	0.00E+00	4.87E-08	7.66E-09	1.30E-08	0.00E+00	2.06E-08
4846	599228	4176804	9.09E-08	2.26E-07	0.00E+00	3.17E-07	9.09E-08	2.26E-07	0.00E+00	3.17E-07	1.48E-08	3.42E-08	0.00E+00	4.90E-08	7.72E-09	1.30E-08	0.00E+00	2.08E-08
4847	599219.7	4176799	9.17E-08	2.28E-07	0.00E+00	3.20E-07	9.17E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.78E-09	1.32E-08	0.00E+00	2.09E-08
4848	599211.5	4176794	9.21E-08	2.29E-07	0.00E+00	3.21E-07	9.21E-08	2.29E-07	0.00E+00	3.21E-07	1.50E-08	3.47E-08	0.00E+00	4.96E-08	7.82E-09	1.32E-08	0.00E+00	2.10E-08
4849	599203.2	4176790	9.11E-08	2.27E-07	0.00E+00	3.18E-07	9.11E-08	2.27E-07	0.00E+00	3.18E-07	1.48E-08	3.43E-08	0.00E+00	4.91E-08	7.73E-09	1.31E-08	0.00E+00	2.08E-08
4850	599194.9	4176785	8.96E-08	2.23E-07	0.00E+00	3.13E-07	8.96E-08	2.23E-07	0.00E+00	3.13E-07	1.46E-08	3.37E-08	0.00E+00	4.83E-08	7.61E-09	1.29E-08	0.00E+00	2.05E-08
4851	599186.6	4176780	8.75E-08	2.18E-07	0.00E+00	3.05E-07	8.75E-08	2.18E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.72E-08	7.43E-09	1.26E-08	0.00E+00	2.00E-08
4852	599327.3	4176860	9.01E-08	2.24E-07	0.00E+00	3.14E-07	9.01E-08	2.24E-07	0.00E+00	3.14E-07	1.47E-08	3.39E-08	0.00E+00	4.86E-08	7.65E-09	1.29E-08	0.00E+00	2.06E-08
4853	599336.7	4176861	9.16E-08	2.28E-07	0.00E+00	3.20E-07	9.16E-08	2.28E-07	0.00E+00	3.20E-07	1.49E-08	3.45E-08	0.00E+00	4.94E-08	7.78E-09	1.31E-08	0.00E+00	2.09E-08
4854	599346.1	4176863	9.35E-08	2.33E-07	0.00E+00	3.26E-07	9.35E-08	2.33E-07	0.00E+00	3.26E-07	1.52E-08	3.52E-08	0.00E+00	5.04E-08	7.94E-09	1.34E-08	0.00E+00	2.13E-08
4855	599355.5	4176865	9.69E-08	2.41E-07	0.00E+00	3.38E-07	9.69E-08	2.41E-07	0.00E+00	3.38E-07	1.58E-08	3.65E-08	0.00E+00	5.22E-08	8.22E-09	1.39E-08	0.00E+00	2.21E-08
4856	599364.9	4176867	9.84E-08	2.45E-07	0.00E+00	3.43E-07	9.84E-08	2.45E-07	0.00E+00	3.43E-07	1.60E-08	3.71E-08	0.00E+00	5.31E-08	8.36E-09	1.41E-08	0.00E+00	2.25E-08
4857	599374.3	4176868	9.99E-08	2.49E-07	0.00E+00	3.49E-07	9.99E-08	2.49E-07	0.00E+00	3.49E-07	1.63E-08	3.76E-08	0.00E+00	5.39E-08	8.49E-09	1.43E-08	0.00E+00	2.28E-08
4858	599383.7	4176870	1.01E-07	2.53E-07	0.00E+00	3.54E-07	1.01E-07	2.53E-07	0.00E+00	3.54E-07	1.65E-08	3.82E-08	0.00E+00	5.47E-08	8.61E-09	1.46E-08	0.00E+00	2.32E-08
4859	599393.1	4176872	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.03E-07	2.56E-07	0.00E+00	3.59E-07	1.67E-08	3.87E-08	0.00E+00	5.54E-08	8.73E-09	1.48E-08	0.00E+00	2.35E-08
4860	599402.5	4176874	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.04E-07	2.59E-07	0.00E+00	3.63E-07	1.69E-08	3.92E-08	0.00E+00	5.61E-08	8.83E-09	1.49E-08	0.00E+00	2.38E-08
4861	599411.9	4176875	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.05E-07	2.62E-07	0.00E+00	3.67E-07	1.71E-08	3.96E-08	0.00E+00	5.67E-08	8.93E-09	1.51E-08	0.00E+00	2.40E-08
4862	599315.5	4176875	8.56E-08	2.13E-07	0.00E+00	2.99E-07	8.56E-08	2.13E-07	0.00E+00	2.99E-07	1.39E-08	3.22E-08	0.00E+00	4.61E-08	7.27E-09	1.23E-08	0.00E+00	1.95E-08
4863	599307.3	4176870	8.51E-08	2.12E-07	0.00E+00	2.97E-07	8.51E-08	2.12E-07	0.00E+00	2.97E-07	1.38E-08	3.20E-08	0.00E+00	4.59E-08	7.23E-09	1.22E-08	0.00E+00	1.94E-08
4864	599299.2	4176866	8.46E-08	2.11E-07	0.00E+00	2.95E-07	8.46E-08	2.11E-07	0.00E+00	2.95E-07	1.38E-08	3.19E-08	0.00E+00	4.56E-08	7.19E-09	1.21E-08	0.00E+00	1.93E-08
4865	599291	4176861	8.4E-08	2.09E-07	0.00E+00	2.93E-07	8.40E-08	2.09E-07	0.00E+00	2.93E-07	1.37E-08	3.16E-08	0.00E+00	4.53E-08	7.13E-09	1.21E-08	0.00E+00	1.92E-08
4866	599282.8	4176856	8.33E-08	2.07E-07	0.00E+00	2.91E-07	8.33E-08	2.07E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.49E-08	7.07E-09	1.20E-08	0.00E+00	1.90E-08
4867	599274.6	4176852	8.28E-08	2.06E-07	0.00E+00	2.89E-07	8.28E-08	2.06E-07	0.00E+00	2.89E-07	1.35E-08	3.12E-08	0.00E+00	4.46E-08	7.03E-09	1.19E-08	0.00E+00	1.89E-08
4868	599266.4	4176847	8.3E-08	2.07E-07	0.00E+00	2.90E-07	8.30E-08	2.07E-07	0.00E+00	2.90E-07	1.35E-08	3.12E-08	0.00E+00	4.47E-08	7.05E-09	1.19E-08	0.00E+00	1.90E-08
4869	599258.3	4176842	8.35E-08	2.08E-07	0.00E+00	2.91E-07	8.35E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.50E-08	7.09E-09	1.20E-08	0.00E+00	1.91E-08
4870	599250.1	4176838	8.42E-08	2.10E-07	0.00E+00	2.94E-07	8.42E-08	2.10E-07	0.00E+00	2.94E-07	1.37E-08	3.17E-08	0.00E+00	4.54E-08	7.15E-09	1.21E-08	0.00E+00	1.92E-08
4871	599241.9	4176833	8.51E-08	2.12E-07	0.00E+00	2.97E-07	8.51E-08	2.12E-07	0.00E+00	2.97E-07	1.39E-08	3.21E-08	0.00E+00	4.59E-08	7.23E-09	1.22E-08	0.00E+00	1.94E-08
4872	599233.7	4176829	8.59E-08	2.14E-07	0.00E+00	3.00E-07	8.59E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.23E-08	0.00E+00	4.63E-08	7.29E-09	1.23E-08	0.00E+00	1.96E-08
4873	599225.5	4176824	8.64E-08	2.15E-07	0.00E+00	3.01E-07	8.64E-08	2.15E-07	0.00E+00	3.01E-07	1.41E-08	3.25E-08	0.00E+00	4.66E-08	7.34E-09	1.24E-08	0.00E+00	1.97E-08
4874	599217.4	4176819	8.68E-08	2.16E-07	0.00E+00	3.03E-07	8.68E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.68E-08	7.37E-09	1.25E-08	0.00E+00	1.98E-08
4875	599209.2	4176815	8.73E-08	2.17E-07	0.00E+00	3.05E-07	8.73E-08	2.17E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.71E-08	7.41E-09	1.25E-08	0.00E+00	1.99E-08
4876	599201	4176810	8.75E-08	2.18E-07	0.00E+00	3.05E-07	8.75E-08	2.18E-07	0.00E+00	3.05E-07	1.42E-08	3.30E-08	0.00E+00	4.72E-08	7.43E-09	1.26E-08	0.00E+00	2.00E-08
4877	599192.8	4176805	8.73E-08	2.17E-07	0.00E+00	3.05E-07	8.73E-08	2.17E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.71E-08	7.41E-09	1.25E-08	0.00E+00	1.99E-08
4878	599184.6	4176801	8.66E-08	2.16E-07	0.00E+00	3.02E-07	8.66E-08	2.16E-07	0.00E+00	3.02E-07	1.41E-08	3.26E-08	0.00E+00	4.67E-08	7.35E-09	1.24E-08	0.00E+00	1.98E-08
4879	599176.5	4176796	8.27E-08	2.06E-07	0.00E+00	2.89E-07	8.27E-08	2.06E-07	0.00E+00	2.89E-07	1.35E-08	3.12E-08	0.00E+00	4.46E-08	7.03E-09	1.19E-08	0.00E+00	1.89E-08
4880	599323.7	4176879	8.63E-08	2.15E-07	0.00E+00	3.01E-07	8.63E-08	2.15E-07	0.00E+00	3.01E-07	1.40E-08	3.25E-08	0.00E+00	4.65E-08	7.33E-09	1.24E-08	0.00E+00	1.97E-08
4881	599333.1	4176881	8.79E-08	2.19E-07	0.00E+00	3.07E-07	8.79E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.31E-08	0.00E+00	4.74E-08	7.46E-09	1.26E-08	0.00E+00	2.01E-08
4882	599342.5	4176883	8.97E-08	2.23E-07	0.00E+00	3.13E-07	8.97E-08	2.23E-07	0.00E+00	3.13E-07	1.46E-08	3.38E-08	0.00E+00	4.83E-08	7.61E-09	1.29E-08	0.00E+00	2.05E-08
4883	599351.9	4176885	9.3E-08	2.31E-07	0.00E+00	3.24E-07	9.30E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.50E-08	0.00E+00	5.01E-08	7.89E-09	1.33E-08	0.00E+00	2.12E-08
4884	599361.3	4176886	9.44E-08	2.35E-07	0.00E+00	3.30E-07	9.44E-08	2.35E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.09E-08	8.02E-09	1.35E-08	0.00E+00	2.16E-08
4885	599370.7	4176888	9.58E-08	2.39E-07	0.00E+00	3.34E-07	9.58E-08	2.39E-07	0.00E+00	3.34E-07	1.56E-08	3.61E-08	0.00E+00	5.17E-08	8.14E-09	1.38E-08	0.00E+00	2.19E-08
4886	599380.1	4176890	9.72E-08	2.42E-07	0.00E+00	3.39E-07	9.72E-08	2.42E-07	0.00E+00	3.39E-07	1.58E-08	3.66E-08	0.00E+00	5.24E-08	8.26E-09	1.40E-08	0.00E+00	2.22E-08
4887	599389.5	4176891	9.86E-08	2.45E-07	0.00E+00	3.44E-07	9.86E-08	2.45E-07	0.00E+00	3.44E-07	1.60E-08	3.71E-08	0.00E+00	5.32E-08	8.37E-09	1.41E-08	0.00E+00	2.25E-08
4888	599398.9	4176893	9.98E-08	2.48E-07	0.00E+00	3.48E-07	9.98E-08	2.48E-07	0.00E+00	3.48E-07	1.62E-08	3.76E-08	0.00E+00	5.38E-08	8.47E-09	1.43E-08	0.00E+00	2.28E-08
4889	599408.3	4176895	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.01E-07	2.51E-07	0.00E+00	3.52E-07	1.64E-08	3.80E-08	0.00E+00	5.44E-08	8.56E-09	1.45E-08	0.00E+00	2.30E-08
4890	599417.7	4176897	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.02E-07	2.53E-07	0.00E+00	3.55E-07	1.65E-08	3.83E-08	0.00E+00	5.48E-08	8.64E-09	1.46E-08	0.00E+00	2.32E-08
4891	599311.9	4176894	8.19E-08	2.04E-07	0.00E+00	2.86E-07	8.19E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.95E-09	1.17E-08	0.00E+00	1.87E-08
4892	599303.6	4176890	8.11E-08	2.02E-07	0.00E+00	2.83E-07	8.11E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.88E-09	1.16E-08	0.00E+00	1.85E-08
4893	599295.4	4176885	8.04E-08	2.00E-07	0.00E+00	2.81E-07	8.04E-08	2.00E-07	0.00E+00	2.81E-07	1.31E-08	3.03E-08	0.00E+00	4.34E-08	6.83E-09	1.15E-08	0.00E+00	1.84E-08
4894	599287.1	4176880	8E-08	1.99E-07	0.00E+00	2.79E-07	8.00E-08	1.99E-07	0.00E+00	2.79E-07	1.30E-08	3.01E-08	0.00E+00	4.31E-08	6.79E-09	1.15E-08	0.00E+00	1.83E-08
4895	599278.9	4176876	7.95E-08	1.98E-07	0.00E+00	2.78E-07	7.95E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	2.99E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
4896	599270.7	4176871	7.91E-08	1.97E-07	0.00E+00	2.76E-07	7.91E-08	1.97E-07	0.00E+00	2.76E-07	1.29E-08	2.98E-08	0.00E+00	4.27E-08	6.72E-09	1.14E-08	0.00E+00	1.81E-08
4897	599262.4	4176866	7.89E-08	1.97E-07	0.00E+00	2.75E-07	7.89E-08	1.97E-07	0.00E+00	2.75E-07	1.28E-08	2.97E-08	0.00E+00	4.26E-08	6.70E-09	1.13E-08	0.00E+00	1.80E-08
4898	599254.2	4176862	7.88E-08	1.96E-07	0.00E+00	2.75E-07	7.88E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.97E-08	0.00E+00	4.25E-08	6.69E-09	1.13E-08	0.00E+00	1.80E-08
4899	599246	4176857	7.87E-08	1.96E-07	0.00E+00	2.75E-07	7.87E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.96E-08	0.00E+00	4.25E-08	6.69E-09	1.13E-08	0.00E+00	1.80E-08
4900	599237.7	4176853	7.95E-08	1.98E-07	0.00E+00	2.78E-07	7.95E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	2.99E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
4901	599229.5	4176848	8.05E-08	2.01E-07	0.00E+00	2.81E-07	8.05E-08	2.01E-07	0.00E+00	2.81E-07	1.31E-08	3.03E-08	0.00E+00	4.34E-08	6.84E-09	1.16E-08	0.00E+00	1.84E-08
4902	599221.2	4176843	8.14E-08	2.03E-07	0.00E+00	2.84E-07	8.14E-08	2.03E-07	0.00E+00	2.84E-07	1.32E-08	3.06E-08	0.00E+00	4.39E-08	6.91E-09	1.17E-08	0.00E+00	1.86E-08
4903	599213	4176839	8.21E-08	2.04E-07	0.00E+00	2.86E-07	8.21E-08	2.04E-07	0.00E+00	2.86E-07	1.34E-08	3.09E-08	0.00E+00	4.43E-08	6.97E-09	1.18E-08	0.00E+00	1.87E-08
4904	599204.8	4176834	8.28E-08	2.06E-07	0.00E+00	2.89E-07	8.28E-08	2.06E-07	0.00E+00	2.89E-07	1.35E-08	3.12E-08	0.00E+00	4.47E-08	7.03E-09	1.19E-08	0.00E+00	1.89E-08
4905	599196.5	4176829	8.37E-08	2.08E-07	0.00E+00	2.92E-07	8.37E-08	2.08E-07	0.00E+00	2.92E-07	1.36E-08	3.15E-08	0.00E+00	4.51E-08	7.11E-09	1.20E-08	0.00E+00	1.91E-08
4906	599188.3	4176825	8.44E-08	2.10E-07	0.00E+00	2.95E-07	8.44E-08	2.10E-07	0.00E+00	2.95E-07	1.37E-08	3.18E-08	0.00E+00	4.55E-08	7.17E-09	1.21E-08	0.00E+00	1.93E-08
4907	599180.1	4176820	8.31E-08	2.07E-07	0.00E+00	2.90E-07	8.31E-08	2.07E-07	0.00E+00	2.90E-07	1.35E-08	3.13E-08	0.00E+00	4.48E-08	7.06E-09	1.19E-08	0.00E+00	1.90E-08
4908	599171.8	4176815	7.91E-08	1.97E-07	0.00E+00	2.76E-07	7.91E-08	1.97E-07	0.00E+00	2.76E-07	1.29E-08	2.98E-08	0.00E+00	4.26E-08	6.71E-09	1.13E-08	0.00E+00	1.81E-08
4909	599163.6	4176811	7.39E-08	1.84E-07	0.00E+00	2.58E-07	7.39E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.78E-08	0.00E+00	3.98E-08	6.27E-09	1.06E-08	0.00E+00	1.69E-08
4910	599320.1	4176899	8.28E-08	2.06E-07	0.00E+00	2.89E-07	8.28E-08	2.06E-07	0.00E+00	2.89E-07	1.35E-08	3.12E-08	0.00E+00	4.46E-08	7.03E-09	1.19E-08	0.00E+00	1.89E-08
4911	599329.5	4176901	8.44E-08	2.10E-07	0.00E+00	2.95E-07	8.44E-08	2.10E-07	0.00E+00	2.95E-07	1.37E-08	3.18E-08	0.00E+00	4.55E-08	7.17E-09	1.21E-08	0.00E+00	1.93E-08
4912	599338.9	4176903	8.6E-08	2.14E-07	0.00E+00	3.00E-07	8.60E-08	2.14E-07	0.00E+00	3.00E-07	1.40E-08	3.24E-08	0.00E+00	4.64E-08	7.30E-09	1.23E-08	0.00E+00	1.96E-08
4913	599348.3	4176904	8.75E-08	2.18E-07	0.00E+00	3.05E-07	8.75E-08	2.18E-07	0.00E+00	3.05E-07	1.42E-08	3.29E-08	0.00E+00	4.72E-08	7.43E-09	1.26E-08	0.00E+00	2.00E-08
4914	599357.7	4176906	8.9E-08	2.22E-07	0.00E+00	3.11E-07	8.90E-08	2.22E-07	0.00E+00	3.11E-07	1.45E-08	3.35E-08	0.00E+00	4.80E-08	7.56E-09	1.28E-08	0.00E+00	2.03E-08
4915	599367.1	4176908	9.18E-08	2.29E-07	0.00E+00	3.20E-07	9.18E-08	2.29E-07	0.00E+00	3.20E-07	1.49E-08	3.46E-08	0.00E+00	4.95E-08	7.79E-09	1.32E-08	0.00E+00	2.10E-08
4916	599376.5	4176909	9.32E-08	2.32E-07	0.00E+00	3.25E-07	9.32E-08	2.32E-07	0.00E+00	3.25E-07	1.52E-08	3.51E-08	0.00E+00	5.03E-08	7.91E-09	1.34E-08	0.00E+00	2.13E-08
4917	599385.9	4176911	9.46E-08	2.35E-07	0.00E+00	3.30E-07	9.46E-08	2.35E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.10E-08	8.03E-09	1.36E-08	0.00E+00	2.16E-08
4918	599395.3	4176913	9.58E-08	2.39E-07	0.00E+00	3.34E-07	9.58E-08	2.39E-07	0.00E+00	3.34E-07	1.56E-08	3.61E-08	0.00E+00	5.16E-08	8.13E-09	1.37E-08	0.00E+00	2.19E-08
4919	599404.7	4176915	9.67E-08	2.41E-07	0.00E+00	3.38E-07	9.67E-08	2.41E-07	0.00E+00	3.38E-07	1.57E-08	3.64E-08	0.00E+00	5.21E-08	8.21E-09	1.39E-08	0.00E+00	2.21E-08
4920	599414.1	4176916	9.75E-08	2.43E-07	0.00E+00	3.40E-07	9.75E-08	2.43E-07	0.00E+00	3.40E-07	1.59E-08	3.67E-08	0.00E+00	5.26E-08	8.28E-09	1.40E-08	0.00E+00	2.23E-08
4921	599423.5	4176918	9.82E-08	2.44E-07	0.00E+00	3.43E-07	9.82E-08	2.44E-07	0.00E+00	3.43E-07	1.60E-08	3.70E-08	0.00E+00	5.29E-08	8.34E-09	1.41E-08	0.00E+00	2.24E-08
4922	599308.2	4176914	7.87E-08	1.96E-07	0.00E+00	2.75E-07	7.87E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
4923	599299.9	4176909	7.79E-08	1.94E-07	0.00E+00	2.72E-07	7.79E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.93E-08	0.00E+00	4.20E-08	6.62E-09	1.12E-08	0.00E+00	1.78E-08
4924	599291.6	4176905	7.73E-08	1.92E-07	0.00E+00	2.70E-07	7.73E-08	1.92E-07	0.00E+00	2.70E-07	1.26E-08	2.91E-08	0.00E+00	4.17E-08	6.56E-09	1.11E-08	0.00E+00	1.76E-08
4925	599283.3	4176900	7.67E-08	1.91E-07	0.00E+00	2.68E-07	7.67E-08	1.91E-07	0.00E+00	2.68E-07	1.25E-08	2.89E-08	0.00E+00	4.14E-08	6.51E-09	1.10E-08	0.00E+00	1.75E-08
4926	599275	4176895	7.63E-08	1.90E-07	0.00E+00	2.66E-07	7.63E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.11E-08	6.48E-09	1.09E-08	0.00E+00	1.74E-08
4927	599266.7	4176891	7.6E-08	1.89E-07	0.00E+00	2.65E-07	7.60E-08	1.89E-07	0.00E+00	2.65E-07	1.24E-08	2.86E-08	0.00E+00	4.10E-08	6.45E-09	1.09E-08	0.00E+00	1.74E-08
4928	599258.4	4176886	7.58E-08	1.89E-07	0.00E+00	2.64E-07	7.58E-08	1.89E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.43E-09	1.09E-08	0.00E+00	1.73E-08
4929	599250.1	4176881	7.56E-08	1.88E-07	0.00E+00	2.64E-07	7.56E-08	1.88E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.42E-09	1.09E-08	0.00E+00	1.73E-08
4930	599241.9	4176877	7.54E-08	1.88E-07	0.00E+00	2.63E-07	7.54E-08	1.88E-07	0.00E+00	2.63E-07	1.23E-08	2.84E-08	0.00E+00	4.07E-08	6.40E-09	1.08E-08	0.00E+00	1.72E-08
4931	599233.6	4176872	7.51E-08	1.87E-07	0.00E+00	2.62E-07	7.51E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.83E-08	0.00E+00	4.05E-08	6.38E-09	1.08E-08	0.00E+00	1.72E-08
4932	599225.3	4176867	7.53E-08	1.88E-07	0.00E+00	2.63E-07	7.53E-08	1.88E-07	0.00E+00	2.63E-07	1.23E-08	2.84E-08	0.00E+00	4.06E-08	6.40E-09	1.08E-08	0.00E+00	1.72E-08
4933	599217	4176863	7.61E-08	1.90E-07	0.00E+00	2.66E-07	7.61E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.11E-08	6.46E-09	1.09E-08	0.00E+00	1.74E-08
4934	599208.7	4176858	7.72E-08	1.92E-07	0.00E+00	2.69E-07	7.72E-08	1.92E-07	0.00E+00	2.69E-07	1.26E-08	2.91E-08	0.00E+00	4.16E-08	6.55E-09	1.11E-08	0.00E+00	1.76E-08
4935	599200.4	4176853	7.79E-08	1.94E-07	0.00E+00	2.72E-07	7.79E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.93E-08	0.00E+00	4.20E-08	6.61E-09	1.12E-08	0.00E+00	1.78E-08
4936	599192.1	4176848	7.84E-08	1.95E-07	0.00E+00	2.74E-07	7.84E-08	1.95E-07	0.00E+00	2.74E-07	1.28E-08	2.95E-08	0.00E+00	4.23E-08	6.66E-09	1.13E-08	0.00E+00	1.79E-08
4937	599183.8	4176844	7.91E-08	1.97E-07	0.00E+00	2.76E-07	7.91E-08	1.97E-07	0.00E+00	2.76E-07	1.29E-08	2.98E-08	0.00E+00	4.27E-08	6.72E-09	1.14E-08	0.00E+00	1.81E-08
4938	599175.5	4176839	7.77E-08	1.94E-07	0.00E+00	2.71E-07	7.77E-08	1.94E-07	0.00E+00	2.71E-07	1.26E-08	2.93E-08	0.00E+00	4.19E-08	6.60E-09	1.12E-08	0.00E+00	1.78E-08
4939	599167.2	4176834	7.5E-08	1.87E-07	0.00E+00	2.62E-07	7.50E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.82E-08	0.00E+00	4.04E-08	6.37E-09	1.08E-08	0.00E+00	1.71E-08
4940	599158.9	4176830	7.07E-08	1.76E-07	0.00E+00	2.47E-07	7.07E-08	1.76E-07	0.00E+00	2.47E-07	1.15E-08	2.66E-08	0.00E+00	3.81E-08	6.01E-09	1.02E-08	0.00E+00	1.62E-08
4941	599150.6	4176825	6.49E-08	1.62E-07	0.00E+00	2.27E-07	6.49E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.44E-08	0.00E+00	3.50E-08	5.51E-09	9.31E-09	0.00E+00	1.48E-08
4942	599316.5	4176919	7.96E-08	1.98E-07	0.00E+00	2.78E-07	7.96E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	3.00E-08	0.00E+00	4.29E-08	6.75E-09	1.14E-08	0.00E+00	1.82E-08
4943	599325.9	4176920	8.1E-08	2.02E-07	0.00E+00	2.83E-07	8.10E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.88E-09	1.16E-08	0.00E+00	1.85E-08
4944	599335.3	4176922	8.25E-08	2.05E-07	0.00E+00	2.88E-07	8.25E-08	2.05E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.00E-09	1.18E-08	0.00E+00	1.88E-08
4945	599344.7	4176924	8.38E-08	2.09E-07	0.00E+00	2.93E-07	8.38E-08	2.09E-07	0.00E+00	2.93E-07	1.36E-08	3.16E-08	0.00E+00	4.52E-08	7.12E-09	1.20E-08	0.00E+00	1.92E-08
4946	599354.1	4176926	8.53E-08	2.12E-07	0.00E+00	2.98E-07	8.53E-08	2.12E-07	0.00E+00	2.98E-07	1.39E-08	3.21E-08	0.00E+00	4.60E-08	7.24E-09	1.22E-08	0.00E+00	1.95E-08
4947	599363.5	4176927	8.68E-08	2.16E-07	0.00E+00	3.03E-07	8.68E-08	2.16E-07	0.00E+00	3.03E-07	1.41E-08	3.27E-08	0.00E+00	4.68E-08	7.37E-09	1.24E-08	0.00E+00	1.98E-08

4948	599372.9	4176929	8.94E-08	2.23E-07	0.00E+00	3.12E-07	8.94E-08	2.23E-07	0.00E+00	3.12E-07	1.45E-08	3.37E-08	0.00E+00	4.82E-08	7.59E-09	1.28E-08	0.00E+00	2.04E-08
4949	599382.3	4176931	9.07E-08	2.26E-07	0.00E+00	3.16E-07	9.07E-08	2.26E-07	0.00E+00	3.16E-07	1.48E-08	3.41E-08	0.00E+00	4.89E-08	7.70E-09	1.30E-08	0.00E+00	2.07E-08
4950	599391.7	4176933	9.18E-08	2.29E-07	0.00E+00	3.21E-07	9.18E-08	2.29E-07	0.00E+00	3.21E-07	1.49E-08	3.46E-08	0.00E+00	4.95E-08	7.80E-09	1.32E-08	0.00E+00	2.10E-08
4951	599401.1	4176934	9.29E-08	2.31E-07	0.00E+00	3.24E-07	9.29E-08	2.31E-07	0.00E+00	3.24E-07	1.51E-08	3.50E-08	0.00E+00	5.01E-08	7.88E-09	1.33E-08	0.00E+00	2.12E-08
4952	599410.5	4176936	9.38E-08	2.33E-07	0.00E+00	3.27E-07	9.38E-08	2.33E-07	0.00E+00	3.27E-07	1.53E-08	3.53E-08	0.00E+00	5.06E-08	7.96E-09	1.35E-08	0.00E+00	2.14E-08
4953	599419.9	4176938	9.45E-08	2.35E-07	0.00E+00	3.30E-07	9.45E-08	2.35E-07	0.00E+00	3.30E-07	1.54E-08	3.56E-08	0.00E+00	5.10E-08	8.03E-09	1.36E-08	0.00E+00	2.16E-08
4954	599304.7	4176934	7.57E-08	1.89E-07	0.00E+00	2.64E-07	7.57E-08	1.89E-07	0.00E+00	2.64E-07	1.23E-08	2.85E-08	0.00E+00	4.08E-08	6.43E-09	1.09E-08	0.00E+00	1.73E-08
4955	599296.5	4176929	7.5E-08	1.87E-07	0.00E+00	2.62E-07	7.50E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.82E-08	0.00E+00	4.04E-08	6.37E-09	1.08E-08	0.00E+00	1.71E-08
4956	599288.3	4176925	7.44E-08	1.85E-07	0.00E+00	2.59E-07	7.44E-08	1.85E-07	0.00E+00	2.59E-07	1.21E-08	2.80E-08	0.00E+00	4.01E-08	6.31E-09	1.07E-08	0.00E+00	1.70E-08
4957	599280.1	4176920	7.38E-08	1.84E-07	0.00E+00	2.58E-07	7.38E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.78E-08	0.00E+00	3.98E-08	6.27E-09	1.06E-08	0.00E+00	1.69E-08
4958	599271.9	4176915	7.34E-08	1.83E-07	0.00E+00	2.56E-07	7.34E-08	1.83E-07	0.00E+00	2.56E-07	1.19E-08	2.76E-08	0.00E+00	3.96E-08	6.23E-09	1.05E-08	0.00E+00	1.68E-08
4959	599263.7	4176911	7.31E-08	1.82E-07	0.00E+00	2.55E-07	7.31E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.94E-08	6.20E-09	1.05E-08	0.00E+00	1.67E-08
4960	599255.5	4176906	7.28E-08	1.81E-07	0.00E+00	2.54E-07	7.28E-08	1.81E-07	0.00E+00	2.54E-07	1.18E-08	2.74E-08	0.00E+00	3.93E-08	6.18E-09	1.04E-08	0.00E+00	1.66E-08
4961	599247.2	4176901	7.27E-08	1.81E-07	0.00E+00	2.54E-07	7.27E-08	1.81E-07	0.00E+00	2.54E-07	1.18E-08	2.74E-08	0.00E+00	3.92E-08	6.17E-09	1.04E-08	0.00E+00	1.66E-08
4962	599239	4176897	7.2E-08	1.79E-07	0.00E+00	2.51E-07	7.20E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.71E-08	0.00E+00	3.88E-08	6.11E-09	1.03E-08	0.00E+00	1.64E-08
4963	599230.8	4176892	7.08E-08	1.76E-07	0.00E+00	2.47E-07	7.08E-08	1.76E-07	0.00E+00	2.47E-07	1.15E-08	2.67E-08	0.00E+00	3.82E-08	6.01E-09	1.02E-08	0.00E+00	1.62E-08
4964	599222.6	4176887	6.95E-08	1.73E-07	0.00E+00	2.42E-07	6.95E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.62E-08	0.00E+00	3.75E-08	5.90E-09	9.97E-09	0.00E+00	1.59E-08
4965	599214.4	4176883	6.87E-08	1.71E-07	0.00E+00	2.40E-07	6.87E-08	1.71E-07	0.00E+00	2.40E-07	1.12E-08	2.59E-08	0.00E+00	3.71E-08	5.84E-09	9.86E-09	0.00E+00	1.57E-08
4966	599206.2	4176878	6.92E-08	1.72E-07	0.00E+00	2.41E-07	6.92E-08	1.72E-07	0.00E+00	2.41E-07	1.13E-08	2.60E-08	0.00E+00	3.73E-08	5.87E-09	9.93E-09	0.00E+00	1.58E-08
4967	599198	4176874	6.98E-08	1.74E-07	0.00E+00	2.44E-07	6.98E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.77E-08	5.93E-09	1.00E-08	0.00E+00	1.60E-08
4968	599189.8	4176869	7.07E-08	1.76E-07	0.00E+00	2.47E-07	7.07E-08	1.76E-07	0.00E+00	2.47E-07	1.15E-08	2.66E-08	0.00E+00	3.81E-08	6.01E-09	1.02E-08	0.00E+00	1.62E-08
4969	599181.6	4176864	7.17E-08	1.79E-07	0.00E+00	2.50E-07	7.17E-08	1.79E-07	0.00E+00	2.50E-07	1.17E-08	2.70E-08	0.00E+00	3.87E-08	6.09E-09	1.03E-08	0.00E+00	1.64E-08
4970	599173.4	4176860	7.24E-08	1.80E-07	0.00E+00	2.53E-07	7.24E-08	1.80E-07	0.00E+00	2.53E-07	1.18E-08	2.73E-08	0.00E+00	3.91E-08	6.15E-09	1.04E-08	0.00E+00	1.65E-08
4971	599165.2	4176855	7.24E-08	1.80E-07	0.00E+00	2.53E-07	7.24E-08	1.80E-07	0.00E+00	2.53E-07	1.18E-08	2.73E-08	0.00E+00	3.90E-08	6.15E-09	1.04E-08	0.00E+00	1.65E-08
4972	599157	4176850	7.05E-08	1.76E-07	0.00E+00	2.46E-07	7.05E-08	1.76E-07	0.00E+00	2.46E-07	1.15E-08	2.65E-08	0.00E+00	3.80E-08	5.98E-09	1.01E-08	0.00E+00	1.61E-08
4973	599148.8	4176846	6.74E-08	1.68E-07	0.00E+00	2.35E-07	6.74E-08	1.68E-07	0.00E+00	2.35E-07	1.10E-08	2.54E-08	0.00E+00	3.63E-08	5.72E-09	9.67E-09	0.00E+00	1.54E-08
4974	599140.6	4176841	6.32E-08	1.57E-07	0.00E+00	2.20E-07	6.32E-08	1.57E-07	0.00E+00	2.20E-07	1.03E-08	2.38E-08	0.00E+00	3.41E-08	5.36E-09	9.07E-09	0.00E+00	1.44E-08
4975	599312.9	4176938	7.63E-08	1.90E-07	0.00E+00	2.66E-07	7.63E-08	1.90E-07	0.00E+00	2.66E-07	1.24E-08	2.87E-08	0.00E+00	4.12E-08	6.48E-09	1.10E-08	0.00E+00	1.74E-08
4976	599322.3	4176940	7.75E-08	1.93E-07	0.00E+00	2.70E-07	7.75E-08	1.93E-07	0.00E+00	2.70E-07	1.26E-08	2.92E-08	0.00E+00	4.18E-08	6.58E-09	1.11E-08	0.00E+00	1.77E-08
4977	599331.7	4176942	7.87E-08	1.96E-07	0.00E+00	2.75E-07	7.87E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
4978	599341.1	4176944	8.02E-08	2.00E-07	0.00E+00	2.80E-07	8.02E-08	2.00E-07	0.00E+00	2.80E-07	1.30E-08	3.02E-08	0.00E+00	4.32E-08	6.81E-09	1.15E-08	0.00E+00	1.83E-08
4979	599350.5	4176945	8.18E-08	2.04E-07	0.00E+00	2.86E-07	8.18E-08	2.04E-07	0.00E+00	2.86E-07	1.33E-08	3.08E-08	0.00E+00	4.41E-08	6.95E-09	1.17E-08	0.00E+00	1.87E-08
4980	599359.9	4176947	8.34E-08	2.08E-07	0.00E+00	2.91E-07	8.34E-08	2.08E-07	0.00E+00	2.91E-07	1.36E-08	3.14E-08	0.00E+00	4.50E-08	7.08E-09	1.20E-08	0.00E+00	1.90E-08
4981	599369.3	4176949	8.49E-08	2.11E-07	0.00E+00	2.96E-07	8.49E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.20E-08	0.00E+00	4.58E-08	7.21E-09	1.22E-08	0.00E+00	1.94E-08
4982	599378.7	4176950	8.63E-08	2.15E-07	0.00E+00	3.01E-07	8.63E-08	2.15E-07	0.00E+00	3.01E-07	1.40E-08	3.25E-08	0.00E+00	4.65E-08	7.33E-09	1.24E-08	0.00E+00	1.97E-08
4983	599388.1	4176952	8.81E-08	2.19E-07	0.00E+00	3.07E-07	8.81E-08	2.19E-07	0.00E+00	3.07E-07	1.43E-08	3.32E-08	0.00E+00	4.75E-08	7.48E-09	1.26E-08	0.00E+00	2.01E-08
4984	599397.5	4176954	8.91E-08	2.22E-07	0.00E+00	3.11E-07	8.91E-08	2.22E-07	0.00E+00	3.11E-07	1.45E-08	3.36E-08	0.00E+00	4.80E-08	7.57E-09	1.28E-08	0.00E+00	2.04E-08
4985	599406.9	4176956	9.01E-08	2.24E-07	0.00E+00	3.14E-07	9.01E-08	2.24E-07	0.00E+00	3.14E-07	1.47E-08	3.39E-08	0.00E+00	4.86E-08	7.65E-09	1.29E-08	0.00E+00	2.06E-08
4986	599301	4176953	7.27E-08	1.81E-07	0.00E+00	2.54E-07	7.27E-08	1.81E-07	0.00E+00	2.54E-07	1.18E-08	2.74E-08	0.00E+00	3.92E-08	6.17E-09	1.04E-08	0.00E+00	1.66E-08
4987	599292.8	4176949	7.21E-08	1.80E-07	0.00E+00	2.52E-07	7.21E-08	1.80E-07	0.00E+00	2.52E-07	1.17E-08	2.72E-08	0.00E+00	3.89E-08	6.13E-09	1.04E-08	0.00E+00	1.65E-08
4988	599284.5	4176944	7.16E-08	1.78E-07	0.00E+00	2.50E-07	7.16E-08	1.78E-07	0.00E+00	2.50E-07	1.16E-08	2.69E-08	0.00E+00	3.86E-08	6.08E-09	1.03E-08	0.00E+00	1.63E-08
4989	599276.2	4176939	7.1E-08	1.77E-07	0.00E+00	2.48E-07	7.10E-08	1.77E-07	0.00E+00	2.48E-07	1.16E-08	2.67E-08	0.00E+00	3.83E-08	6.03E-09	1.02E-08	0.00E+00	1.62E-08
4990	599268	4176935	7.06E-08	1.76E-07	0.00E+00	2.46E-07	7.06E-08	1.76E-07	0.00E+00	2.46E-07	1.15E-08	2.66E-08	0.00E+00	3.81E-08	6.00E-09	1.01E-08	0.00E+00	1.61E-08
4991	599259.7	4176930	7.03E-08	1.75E-07	0.00E+00	2.45E-07	7.03E-08	1.75E-07	0.00E+00	2.45E-07	1.14E-08	2.65E-08	0.00E+00	3.79E-08	5.97E-09	1.01E-08	0.00E+00	1.61E-08
4992	599251.5	4176925	7E-08	1.74E-07	0.00E+00	2.44E-07	7.00E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.64E-08	0.00E+00	3.78E-08	5.95E-09	1.01E-08	0.00E+00	1.60E-08
4993	599243.2	4176921	6.98E-08	1.74E-07	0.00E+00	2.44E-07	6.98E-08	1.74E-07	0.00E+00	2.44E-07	1.14E-08	2.63E-08	0.00E+00	3.77E-08	5.93E-09	1.00E-08	0.00E+00	1.60E-08
4994	599235	4176916	6.87E-08	1.71E-07	0.00E+00	2.40E-07	6.87E-08	1.71E-07	0.00E+00	2.40E-07	1.12E-08	2.59E-08	0.00E+00	3.71E-08	5.84E-09	9.86E-09	0.00E+00	1.57E-08
4995	599226.7	4176911	6.75E-08	1.68E-07	0.00E+00	2.36E-07	6.75E-08	1.68E-07	0.00E+00	2.36E-07	1.10E-08	2.54E-08	0.00E+00	3.64E-08	5.73E-09	9.69E-09	0.00E+00	1.54E-08
4996	599218.4	4176907	6.62E-08	1.65E-07	0.00E+00	2.31E-07	6.62E-08	1.65E-07	0.00E+00	2.31E-07	1.08E-08	2.49E-08	0.00E+00	3.57E-08	5.62E-09	9.49E-09	0.00E+00	1.51E-08
4997	599210.2	4176902	6.46E-08	1.61E-07	0.00E+00	2.26E-07	6.46E-08	1.61E-07	0.00E+00	2.26E-07	1.05E-08	2.43E-08	0.00E+00	3.48E-08	5.49E-09	9.27E-09	0.00E+00	1.48E-08
4998	599201.9	4176897	6.32E-08	1.57E-07	0.00E+00	2.21E-07	6.32E-08	1.57E-07	0.00E+00	2.21E-07	1.03E-08	2.38E-08	0.00E+00	3.41E-08	5.37E-09	9.07E-09	0.00E+00	1.44E-08
4999	599193.7	4176893	6.21E-08	1.55E-07	0.00E+00	2.17E-07	6.21E-08	1.55E-07	0.00E+00	2.17E-07	1.01E-08	2.34E-08	0.00E+00	3.35E-08	5.28E-09	8.92E-09	0.00E+00	1.42E-08
5000	599185.4	4176888	6.15E-08	1.53E-07	0.00E+00	2.15E-07	6.15E-08	1.53E-07	0.00E+00	2.15E-07	1.00E-08	2.31E-08	0.00E+00	3.31E-08	5.22E-09	8.82E-09	0.00E+00	1.40E-08
5001	599177.2	4176883	6.28E-08	1.56E-07	0.00E+00	2.19E-07	6.28E-08	1.56E-07	0.00E+00	2.19E-07	1.02E-08	2.36E-08	0.00E+00	3.39E-08	5.33E-09	9.01E-09	0.00E+00	1.43E-08
5002	599168.9	4176879	6.44E-08	1.60E-07	0.00E+00	2.25E-07	6.44E-08	1.60E-07	0.00E+00	2.25E-07	1.05E-08	2.42E-08	0.00E+00	3.47E-08	5.47E-09	9.24E-09	0.00E+00	1.47E-08
5003	599160.6	4176874	6.54E-08	1.63E-07	0.00E+00	2.28E-07	6.54E-08	1.63E-07	0.00E+00	2.28E-07	1.06E-08	2.46E-08	0.00E+00	3.53E-08	5.55E-09	9.39E-09	0.00E+00	1.49E-08
5004	599152.4	4176869	6.59E-08	1.64E-07	0.00E+00	2.30E-07	6.59E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.48E-08	0.00E+00	3.55E-08	5.59E-09	9.45E-09	0.00E+00	1.50E-08
5005	599144.1	4176865	6.57E-08	1.64E-07	0.00E+00	2.29E-07	6.57E-08	1.64E-07	0.00E+00	2.29E-07	1.07E-08	2.48E-08	0.00E+00	3.54E-08	5.58E-09	9.43E-09	0.00E+00	1.50E-08
5006	599135.9	4176860	6.5E-08	1.62E-07	0.00E+00	2.27E-07	6.50E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.45E-08	0.00E+00	3.51E-08	5.52E-09	9.33E-09	0.00E+00	1.49E-08
5007	599127.6	4176855	6.35E-08	1.58E-07	0.00E+00	2.22E-07	6.35E-08	1.58E-07	0.00E+00	2.22E-07	1.03E-08	2.39E-08	0.00E+00	3.42E-08	5.39E-09	9.11E-09	0.00E+00	1.45E-08
5008	599309.3	4176958	7.3E-08	1.82E-07	0.00E+00	2.55E-07	7.30E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.94E-08	6.20E-09	1.05E-08	0.00E+00	1.67E-08
5009	599318.7	4176960	7.4E-08	1.84E-07	0.00E+00	2.58E-07	7.40E-08	1.84E-07	0.00E+00	2.58E-07	1.20E-08	2.79E-08	0.00E+00	3.99E-08	6.29E-09	1.06E-08	0.00E+00	1.69E-08
5010	599328.1	4176962	7.51E-08	1.87E-07	0.00E+00	2.62E-07	7.51E-08	1.87E-07	0.00E+00	2.62E-07	1.22E-08	2.83E-08	0.00E+00	4.05E-08	6.38E-09	1.08E-08	0.00E+00	1.72E-08
5011	599337.5	4176963	7.64E-08	1.90E-07	0.00E+00	2.67E-07	7.64E-08	1.90E-07	0.00E+00	2.67E-07	1.24E-08	2.88E-08	0.00E+00	4.12E-08	6.49E-09	1.10E-08	0.00E+00	1.75E-08
5012	599346.9	4176965	7.8E-08	1.94E-07	0.00E+00	2.72E-07	7.80E-08	1.94E-07	0.00E+00	2.72E-07	1.27E-08	2.94E-08	0.00E+00	4.21E-08	6.63E-09	1.12E-08	0.00E+00	1.78E-08
5013	599356.3	4176967	7.96E-08	1.98E-07	0.00E+00	2.78E-07	7.96E-08	1.98E-07	0.00E+00	2.78E-07	1.29E-08	3.00E-08	0.00E+00	4.29E-08	6.76E-09	1.14E-08	0.00E+00	1.82E-08
5014	599365.7	4176968	8.11E-08	2.02E-07	0.00E+00	2.83E-07	8.11E-08	2.02E-07	0.00E+00	2.83E-07	1.32E-08	3.05E-08	0.00E+00	4.37E-08	6.88E-09	1.16E-08	0.00E+00	1.85E-08
5015	599375.1	4176970	8.25E-08	2.05E-07	0.00E+00	2.88E-07	8.25E-08	2.05E-07	0.00E+00	2.88E-07	1.34E-08	3.11E-08	0.00E+00	4.45E-08	7.00E-09	1.18E-08	0.00E+00	1.88E-08
5016	599384.5	4176972	8.38E-08	2.09E-07	0.00E+00	2.92E-07	8.38E-08	2.09E-07	0.00E+00	2.92E-07	1.36E-08	3.15E-08	0.00E+00	4.52E-08	7.11E-09	1.20E-08	0.00E+00	1.91E-08
5017	599393.9	4176974	8.49E-08	2.11E-07	0.00E+00	2.96E-07	8.49E-08	2.11E-07	0.00E+00	2.96E-07	1.38E-08	3.20E-08	0.00E+00	4.58E-08	7.21E-09	1.22E-08	0.00E+00	1.94E-08
5018	599297.4	4176973	6.94E-08	1.73E-07	0.00E+00	2.42E-07	6.94E-08	1.73E-07	0.00E+00	2.42E-07	1.13E-08	2.61E-08	0.00E+00	3.74E-08	5.89E-09	9.96E-09	0.00E+00	1.59E-08
5019	599289.1	4176968	6.91E-08	1.72E-07	0.00E+00	2.41E-07	6.91E-08	1.72E-07	0.00E+00	2.41E-07	1.12E-08	2.60E-08	0.00E+00	3.73E-08	5.87E-09	9.92E-09	0.00E+00	1.58E-08
5020	599280.7	4176964	6.88E-08	1.71E-07	0.00E+00	2.40E-07	6.88E-08	1.71E-07	0.00E+00	2.40E-07	1.12E-08	2.59E-08	0.00E+00	3.71E-08	5.84E-09	9.87E-09	0.00E+00	1.57E-08
5021	599272.4	4176959	6.84E-08	1.70E-07	0.00E+00	2.39E-07	6.84E-08	1.70E-07	0.00E+00	2.39E-07	1.11E-08	2.58E-08	0.00E+00	3.69E-08	5.81E-09	9.82E-09	0.00E+00	1.56E-08
5022	599264.1	4176954	6.79E-08	1.69E-07	0.00E+00	2.37E-07	6.79E-08	1.69E-07	0.00E+00	2.37E-07	1.10E-08	2.56E-08	0.00E+00	3.66E-08	5.76E-09	9.74E-09	0.00E+00	1.55E-08
5023	599255.8	4176950	6.76E-08	1.68E-07	0.00E+00	2.36E-07	6.76E-08	1.68E-07	0.00E+00	2.36E-07	1.10E-08	2.54E-08	0.00E+00	3.64E-08	5.74E-09	9.70E-09	0.00E+00	1.54E-08
5024	599247.5	4176945	6.74E-08	1.68E-07	0.00E+00	2.35E-07	6.74E-08	1.68E-07	0.00E+00	2.35E-07	1.10E-08	2.54E-08	0.00E+00	3.64E-08	5.73E-09	9.68E-09	0.00E+00	1.54E-08
5025	599239.2	4176940	6.66E-08	1.66E-07	0.00E+00	2.32E-07	6.66E-08	1.66E-07	0.00E+00	2.32E-07	1.08E-08	2.51E-08	0.00E+00	3.59E-08	5.65E-09	9.55E-09	0.00E+00	1.52E-08
5026	599230.9	4176936	6.51E-08	1.62E-07	0.00E+00	2.27E-07	6.51E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.45E-08	0.00E+00	3.51E-08	5.53E-09	9.35E-09	0.00E+00	1.49E-08
5027	599222.6	4176931	6.37E-08	1.59E-07	0.00E+00	2.22E-07	6.37E-08	1.59E-07	0.00E+00	2.22E-07	1.04E-08	2.40E-08	0.00E+00	3.43E-08	5.41E-09	9.14E-09	0.00E+00	1.45E-08
5028	599214.3	4176926	6.23E-08	1.55E-07	0.00E+00	2.17E-07	6.23E-08	1.55E-07	0.00E+00	2.17E-07	1.01E-08	2.34E-08	0.00E+00	3.36E-08	5.29E-09	8.93E-09	0.00E+00	1.42E-08
5029	599206	4176921	6.04E-08	1.50E-07	0.00E+00	2.11E-07	6.04E-08	1.50E-07	0.00E+00	2.11E-07	9.83E-09	2.27E-08	0.00E+00	3.26E-08	5.13E-09	8.67E-09	0.00E+00	1.38E-08
5030	599197.7	4176917	5.83E-08	1.45E-07	0.00E+00	2.03E-07	5.83E-08	1.45E-07	0.00E+00	2.03E-07	9.48E-09	2.19E-08	0.00E+00	3.14E-08	4.95E-09	8.37E-09	0.00E+00	1.33E-08
5031	599189.3	4176912	5.63E-08	1.40E-07	0.00E+00	1.96E-07	5.63E-08	1.40E-07	0.00E+00	1.96E-07	9.15E-09	2.12E-08	0.00E+00	3.03E-08	4.78E-09	8.07E-09	0.00E+00	1.29E-08
5032	599181	4176907	5.52E-08	1.37E-07	0.00E+00	1.92E-07	5.52E-08	1.37E-07	0.00E+00	1.92E-07	8.97E-09	2.08E-08	0.00E+00	2.97E-08	4.68E-09	7.91E-09	0.00E+00	1.26E-08
5033	599172.7	4176903	5.56E-08	1.39E-07	0.00E+00	1.94E-07	5.56E-08	1.39E-07	0.00E+00	1.94E-07	9.05E-09	2.09E-08	0.00E+00	3.00E-08	4.72E-09	7.98E-09	0.00E+00	1.27E-08
5034	599164.4	4176898	5.66E-08	1.41E-07	0.00E+00	1.97E-07	5.66E-08	1.41E-07	0.00E+00	1.97E-07	9.20E-09	2.13E-08	0.00E+00	3.05E-08	4.80E-09	8.12E-09	0.00E+00	1.29E-08
5035	599156.1	4176893	5.8E-08	1.44E-07	0.00E+00	2.02E-07	5.80E-08	1.44E-07	0.00E+00	2.02E-07	9.44E-09	2.18E-08	0.00E+00	3.13E-08	4.93E-09	8.32E-09	0.00E+00	1.33E-08
5036	599147.8	4176889	6E-08	1.49E-07	0.00E+00	2.09E-07	6.00E-08	1.49E-07	0.00E+00	2.09E-07	9.76E-09	2.26E-08	0.00E+00	3.23E-08	5.09E-09	8.61E-09	0.00E+00	1.37E-08
5037	599139.5	4176884	6.13E-08	1.53E-07	0.00E+00	2.14E-07	6.13E-08	1.53E-07	0.00E+00	2.14E-07	9.98E-09	2.31E-08	0.00E+00	3.31E-08	5.21E-09	8.80E-09	0.00E+00	1.40E-08
5038	599131.2	4176879	6.15E-08	1.53E-07	0.00E+00	2.15E-07	6.15E-08	1.53E-07	0.00E+00	2.15E-07	1.00E-08	2.32E-08	0.00E+00	3.32E-08	5.22E-09	8.83E-09	0.00E+00	1.40E-08
5039	599122.9	4176874	6.08E-08	1.51E-07	0.00E+00	2.12E-07	6.08E-08	1.51E-07	0.00E+00	2.12E-07	9.89E-09	2.29E-08	0.00E+00	3.28E-08	5.16E-09	8.73E-09	0.00E+00	1.39E-08
5040	599114.6	4176870	5.65E-08	1.41E-07	0.00E+00	1.97E-07	5.65E-08	1.41E-07	0.00E+00	1.97E-07	9.18E-09	2.13E-08	0.00E+00	3.04E-08	4.79E-09	8.10E-09	0.00E+00	1.29E-08
5041	599305.7	4176978	6.97E-08	1.74E-07	0.00E+00	2.43E-07	6.97E-08	1.74E-07	0.00E+00	2.43E-07	1.13E-08	2.63E-08	0.00E+00	3.76E-08	5.92E-09	1.00E-08	0.00E+00	1.59E-08
5042	599315.1	4176979	7.07E-08	1.76E-07	0.00E+00	2.47E-07	7.07E-08	1.76E-07	0.00E+00	2.47E-07	1.15E-08	2.66E-08	0.00E+00	3.81E-08	6.01E-09	1.01E-08	0.00E+00	1.62E-08
5043	599324.5	4176981	7.19E-08	1.79E-07	0.00E+00	2.51E-07	7.19E-08	1.79E-07	0.00E+00	2.51E-07	1.17E-08	2.71E-08	0.00E+00	3.87E-08	6.10E-09	1.03E-08	0.00E+00	1.64E-08
5044	599333.9	4176983	7.31E-08	1.82E-07	0.00E+00	2.55E-07	7.31E-08	1.82E-07	0.00E+00	2.55E-07	1.19E-08	2.75E-08	0.00E+00	3.94E-08	6.21E-09	1.05E-08	0.00E+00	1.67E-08
5045	599343.3	4176985	7.46E-08	1.86E-07	0.00E+00	2.60E-07	7.46E-08	1.86E-07	0.00E+00	2.60E-07	1.21E-08	2.81E-08	0.00E+00	4.02E-08	6.34E-09	1.07E-08	0.00E+00	1.70E-08
5046	599352.7	4176986	7.61E-08	1.89E-07	0.00E+00	2.65E-07	7.61E-08	1.89E-07	0.00E+00	2.65E-07	1.24E-08	2.86E-08	0.00E+00	4.10E-08	6.46E-09	1.09E-08	0.00E+00	1.74E-08
5047	599362.1	4176988	7.74E-08	1.93E-07	0.00E+00	2.70E-07	7.74E-08	1.93E-07	0.00E+00	2.70E-07	1.26E-08	2.91E-08	0.00E+00	4.17E-08	6.57E-09	1.11E-08	0.00E+00	1.77E-08
5048	599371.5	4176990	7.87E-08	1.96E-07	0.00E+00	2.75E-07	7.87E-08	1.96E-07	0.00E+00	2.75E-07	1.28E-08	2.96E-08	0.00E+00	4.24E-08	6.68E-09	1.13E-08	0.00E+00	1.80E-08
5049	599380.9	4176992	7.98E-08	1.99E-07	0.00E+00	2.78E-07	7.98E-08	1.99E-07	0.00E+00	2.78E-07	1.30E-08	3.00E-08	0.00E+00	4.30E-08	6.77E-09	1.14E-08	0.00E+00	1.82E-08
5050	599390.3	4176993	8.07E-08	2.01E-07	0.00E+00	2.82E-07	8.07E-08	2.01E-07	0.00E+00	2.82E-07	1.31E-08	3.04E-08	0.00E+00	4.35E-08	6.86E-09	1.16E-08	0.00E+00	1.84E-08
5051	599293.8	4176993	6.6E-08	1.64E-07	0.00E+00	2.30E-07	6.60E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.49E-08	0.00E+00	3.56E-08	5.60E-09	9.47E-09	0.00E+00	1.51E-08
5052	599285.6	4176988	6.58E-08	1.64E-07	0.00E+00	2.30E-07	6.58E-08	1.64E-07	0.00E+00	2.30E-07	1.07E-08	2.48E-08	0.00E+00	3.55E-08	5.58E-09	9.44E-09	0.00E+00	1.50E-08
5053	599277.4	4176983	6.57E-08	1.64E-07	0.00E+00	2.29E-07	6.57E-08	1.64E-07	0.00E+00	2.29E-07	1.07E-08	2.48E-08	0.00E+00	3.55E-08	5.58E-09	9.44E-09	0.00E+00	1.50E-08
5054	599269.2	4176979	6.56E-08	1.63E-07	0.00E+00	2.29E-07	6.56E-08	1.63E-07	0.00E+00	2.29E-07	1.07E-08	2.47E-08	0.00E+00	3.54E-08	5.57E-09	9.41E-09	0.00E+00	1.50E-08
5055	599260.9	4176974	6.5E-08	1.62E-07	0.00E+00	2.27E-07	6.50E-08	1.62E-07	0.00E+00	2.27E-07	1.06E-08	2.45E-08	0.00E+00	3.51E-08	5.52E-09	9.33E-09	0.00E+00	1.49E-08
5056	599252.7	4176970	6.44E-08	1.60E-07	0.00E+00	2.25E-07	6.44E-08	1.60E-07	0.00E+00	2.25E-07	1.05E-08	2.43E-08	0.00E+00	3.47E-08	5.47E-09	9.25E-09	0.00E+00	1.47E-08
5057	599244.5	4176965	6.4E-08	1.59E-07	0.00E+00	2.24E-07	6.40E-08	1.59E-07	0.00E+00	2.24E-07	1.04E-08	2.41E-08	0.00E+00	3.45E-08	5.44E-09	9.19E-09	0.00E+00	1.46E-08

5058	599236.3	4176960	6.3E-08	1.57E-07	0.00E+00	2.20E-07		6.30E-08	1.57E-07	0.00E+00	2.20E-07		1.03E-08	2.37E-08	0.00E+00	3.40E-08		5.35E-09	9.04E-09	0.00E+00	1.44E-08
5059	599228	4176956	6.17E-08	1.54E-07	0.00E+00	2.15E-07		6.17E-08	1.54E-07	0.00E+00	2.15E-07		1.00E-08	2.32E-08	0.00E+00	3.32E-08		5.24E-09	8.85E-09	0.00E+00	1.41E-08
5060	599219.8	4176951	6E-08	1.49E-07	0.00E+00	2.09E-07		6.00E-08	1.49E-07	0.00E+00	2.09E-07		9.75E-09	2.26E-08	0.00E+00	3.23E-08		5.09E-09	8.60E-09	0.00E+00	1.37E-08
5061	599211.6	4176946	5.79E-08	1.44E-07	0.00E+00	2.02E-07		5.79E-08	1.44E-07	0.00E+00	2.02E-07		9.42E-09	2.18E-08	0.00E+00	3.12E-08		4.92E-09	8.31E-09	0.00E+00	1.32E-08
5062	599203.4	4176942	5.59E-08	1.39E-07	0.00E+00	1.95E-07		5.59E-08	1.39E-07	0.00E+00	1.95E-07		9.09E-09	2.10E-08	0.00E+00	3.01E-08		4.74E-09	8.02E-09	0.00E+00	1.28E-08
5063	599195.1	4176937	5.37E-08	1.34E-07	0.00E+00	1.87E-07		5.37E-08	1.34E-07	0.00E+00	1.87E-07		8.74E-09	2.02E-08	0.00E+00	2.90E-08		4.56E-09	7.71E-09	0.00E+00	1.23E-08
5064	599186.9	4176932	5.15E-08	1.28E-07	0.00E+00	1.80E-07		5.15E-08	1.28E-07	0.00E+00	1.80E-07		8.37E-09	1.94E-08	0.00E+00	2.78E-08		4.37E-09	7.39E-09	0.00E+00	1.18E-08
5065	599178.7	4176928	4.95E-08	1.23E-07	0.00E+00	1.73E-07		4.95E-08	1.23E-07	0.00E+00	1.73E-07		8.05E-09	1.86E-08	0.00E+00	2.67E-08		4.20E-09	7.11E-09	0.00E+00	1.13E-08
5066	599170.5	4176923	4.84E-08	1.20E-07	0.00E+00	1.69E-07		4.84E-08	1.20E-07	0.00E+00	1.69E-07		7.87E-09	1.82E-08	0.00E+00	2.61E-08		4.11E-09	6.94E-09	0.00E+00	1.10E-08
5067	599162.2	4176918	4.79E-08	1.19E-07	0.00E+00	1.67E-07		4.79E-08	1.19E-07	0.00E+00	1.67E-07		7.79E-09	1.80E-08	0.00E+00	2.58E-08		4.07E-09	6.88E-09	0.00E+00	1.09E-08
5068	599154	4176914	4.82E-08	1.20E-07	0.00E+00	1.68E-07		4.82E-08	1.20E-07	0.00E+00	1.68E-07		7.84E-09	1.81E-08	0.00E+00	2.60E-08		4.09E-09	6.92E-09	0.00E+00	1.10E-08
5069	599145.8	4176909	5.02E-08	1.25E-07	0.00E+00	1.75E-07		5.02E-08	1.25E-07	0.00E+00	1.75E-07		8.17E-09	1.89E-08	0.00E+00	2.71E-08		4.26E-09	7.21E-09	0.00E+00	1.15E-08
5070	599137.5	4176904	5.22E-08	1.30E-07	0.00E+00	1.82E-07		5.22E-08	1.30E-07	0.00E+00	1.82E-07		8.50E-09	1.97E-08	0.00E+00	2.82E-08		4.43E-09	7.49E-09	0.00E+00	1.19E-08
5071	599129.3	4176900	5.42E-08	1.35E-07	0.00E+00	1.89E-07		5.42E-08	1.35E-07	0.00E+00	1.89E-07		8.81E-09	2.04E-08	0.00E+00	2.92E-08		4.60E-09	7.77E-09	0.00E+00	1.24E-08
5072	599121.1	4176895	5.5E-08	1.37E-07	0.00E+00	1.92E-07		5.50E-08	1.37E-07	0.00E+00	1.92E-07		8.96E-09	2.07E-08	0.00E+00	2.97E-08		4.67E-09	7.90E-09	0.00E+00	1.26E-08
5073	599112.9	4176891	5.3E-08	1.32E-07	0.00E+00	1.85E-07		5.30E-08	1.32E-07	0.00E+00	1.85E-07		8.63E-09	2.00E-08	0.00E+00	2.86E-08		4.50E-09	7.61E-09	0.00E+00	1.21E-08
5074	599104.6	4176886	4.99E-08	1.24E-07	0.00E+00	1.74E-07		4.99E-08	1.24E-07	0.00E+00	1.74E-07		8.11E-09	1.88E-08	0.00E+00	2.69E-08		4.23E-09	7.16E-09	0.00E+00	1.14E-08
5075	599096.4	4176881	4.53E-08	1.13E-07	0.00E+00	1.58E-07		4.53E-08	1.13E-07	0.00E+00	1.58E-07		7.37E-09	1.71E-08	0.00E+00	2.44E-08		3.85E-09	6.50E-09	0.00E+00	1.03E-08
5076	599302.1	4176997	6.65E-08	1.66E-07	0.00E+00	2.32E-07		6.65E-08	1.66E-07	0.00E+00	2.32E-07		1.08E-08	2.50E-08	0.00E+00	3.58E-08		5.64E-09	9.54E-09	0.00E+00	1.52E-08
5077	599311.5	4176999	6.77E-08	1.69E-07	0.00E+00	2.36E-07		6.77E-08	1.69E-07	0.00E+00	2.36E-07		1.10E-08	2.55E-08	0.00E+00	3.65E-08		5.75E-09	9.72E-09	0.00E+00	1.55E-08
5078	599320.9	4177001	6.91E-08	1.72E-07	0.00E+00	2.41E-07		6.91E-08	1.72E-07	0.00E+00	2.41E-07		1.12E-08	2.60E-08	0.00E+00	3.72E-08		5.87E-09	9.91E-09	0.00E+00	1.58E-08
5079	599330.3	4177003	7.05E-08	1.76E-07	0.00E+00	2.46E-07		7.05E-08	1.76E-07	0.00E+00	2.46E-07		1.15E-08	2.66E-08	0.00E+00	3.80E-08		5.99E-09	1.01E-08	0.00E+00	1.61E-08
5080	599339.7	4177004	7.18E-08	1.79E-07	0.00E+00	2.51E-07		7.18E-08	1.79E-07	0.00E+00	2.51E-07		1.17E-08	2.70E-08	0.00E+00	3.87E-08		6.10E-09	1.03E-08	0.00E+00	1.64E-08
5081	599349.1	4177006	7.3E-08	1.82E-07	0.00E+00	2.55E-07		7.30E-08	1.82E-07	0.00E+00	2.55E-07		1.19E-08	2.75E-08	0.00E+00	3.93E-08		6.20E-09	1.05E-08	0.00E+00	1.67E-08
5082	599358.5	4177008	7.4E-08	1.84E-07	0.00E+00	2.58E-07		7.40E-08	1.84E-07	0.00E+00	2.58E-07		1.20E-08	2.78E-08	0.00E+00	3.99E-08		6.28E-09	1.06E-08	0.00E+00	1.69E-08
5083	599367.9	4177010	7.49E-08	1.87E-07	0.00E+00	2.61E-07		7.49E-08	1.87E-07	0.00E+00	2.61E-07		1.22E-08	2.82E-08	0.00E+00	4.04E-08		6.36E-09	1.08E-08	0.00E+00	1.71E-08
5084	599377.3	4177011	7.59E-08	1.89E-07	0.00E+00	2.65E-07		7.59E-08	1.89E-07	0.00E+00	2.65E-07		1.23E-08	2.86E-08	0.00E+00	4.09E-08		6.44E-09	1.09E-08	0.00E+00	1.73E-08
5085	599386.7	4177013	7.67E-08	1.91E-07	0.00E+00	2.68E-07		7.67E-08	1.91E-07	0.00E+00	2.68E-07		1.25E-08	2.89E-08	0.00E+00	4.14E-08		6.52E-09	1.10E-08	0.00E+00	1.75E-08
5086	599290.2	4177012	6.24E-08	1.55E-07	0.00E+00	2.18E-07		6.24E-08	1.55E-07	0.00E+00	2.18E-07		1.02E-08	2.35E-08	0.00E+00	3.36E-08		5.30E-09	8.95E-09	0.00E+00	1.43E-08
5087	599281.9	4177008	6.2E-08	1.54E-07	0.00E+00	2.16E-07		6.20E-08	1.54E-07	0.00E+00	2.16E-07		1.01E-08	2.33E-08	0.00E+00	3.34E-08		5.27E-09	8.90E-09	0.00E+00	1.42E-08
5088	599273.6	4177003	6.17E-08	1.54E-07	0.00E+00	2.15E-07		6.17E-08	1.54E-07	0.00E+00	2.15E-07		1.00E-08	2.32E-08	0.00E+00	3.33E-08		5.24E-09	8.86E-09	0.00E+00	1.41E-08
5089	599265.4	4176998	6.15E-08	1.53E-07	0.00E+00	2.15E-07		6.15E-08	1.53E-07	0.00E+00	2.15E-07		1.00E-08	2.32E-08	0.00E+00	3.32E-08		5.22E-09	8.83E-09	0.00E+00	1.40E-08
5090	599257.1	4176994	6.12E-08	1.53E-07	0.00E+00	2.14E-07		6.12E-08	1.53E-07	0.00E+00	2.14E-07		9.96E-09	2.31E-08	0.00E+00	3.30E-08		5.20E-09	8.79E-09	0.00E+00	1.40E-08
5091	599248.8	4176989	6.09E-08	1.52E-07	0.00E+00	2.13E-07		6.09E-08	1.52E-07	0.00E+00	2.13E-07		9.91E-09	2.29E-08	0.00E+00	3.29E-08		5.17E-09	8.75E-09	0.00E+00	1.39E-08
5092	599240.5	4176984	6.04E-08	1.50E-07	0.00E+00	2.11E-07		6.04E-08	1.50E-07	0.00E+00	2.11E-07		9.83E-09	2.27E-08	0.00E+00	3.26E-08		5.13E-09	8.67E-09	0.00E+00	1.38E-08
5093	599232.3	4176980	5.95E-08	1.48E-07	0.00E+00	2.08E-07		5.95E-08	1.48E-07	0.00E+00	2.08E-07		9.68E-09	2.24E-08	0.00E+00	3.21E-08		5.05E-09	8.53E-09	0.00E+00	1.36E-08
5094	599224	4176975	5.83E-08	1.45E-07	0.00E+00	2.04E-07		5.83E-08	1.45E-07	0.00E+00	2.04E-07		9.49E-09	2.20E-08	0.00E+00	3.14E-08		4.95E-09	8.37E-09	0.00E+00	1.33E-08
5095	599215.7	4176970	5.69E-08	1.42E-07	0.00E+00	1.99E-07		5.69E-08	1.42E-07	0.00E+00	1.99E-07		9.25E-09	2.14E-08	0.00E+00	3.07E-08		4.83E-09	8.16E-09	0.00E+00	1.30E-08
5096	599207.4	4176966	5.48E-08	1.37E-07	0.00E+00	1.91E-07		5.48E-08	1.37E-07	0.00E+00	1.91E-07		8.92E-09	2.06E-08	0.00E+00	2.96E-08		4.66E-09	7.87E-09	0.00E+00	1.25E-08
5097	599199.2	4176961	5.24E-08	1.31E-07	0.00E+00	1.83E-07		5.24E-08	1.31E-07	0.00E+00	1.83E-07		8.53E-09	1.97E-08	0.00E+00	2.83E-08		4.45E-09	7.52E-09	0.00E+00	1.20E-08
5098	599190.9	4176956	4.99E-08	1.24E-07	0.00E+00	1.74E-07		4.99E-08	1.24E-07	0.00E+00	1.74E-07		8.12E-09	1.88E-08	0.00E+00	2.69E-08		4.24E-09	7.16E-09	0.00E+00	1.14E-08
5099	599182.6	4176952	4.71E-08	1.17E-07	0.00E+00	1.64E-07		4.71E-08	1.17E-07	0.00E+00	1.64E-07		7.66E-09	1.77E-08	0.00E+00	2.54E-08		4.00E-09	6.75E-09	0.00E+00	1.07E-08
5100	599174.3	4176947	4.35E-08	1.08E-07	0.00E+00	1.52E-07		4.35E-08	1.08E-07	0.00E+00	1.52E-07		7.07E-09	1.64E-08	0.00E+00	2.34E-08		3.69E-09	6.24E-09	0.00E+00	9.93E-09
5101	599166.1	4176942	4.1E-08	1.02E-07	0.00E+00	1.43E-07		4.10E-08	1.02E-07	0.00E+00	1.43E-07		6.67E-09	1.54E-08	0.00E+00	2.21E-08		3.48E-09	5.88E-09	0.00E+00	9.36E-09
5102	599157.8	4176938	3.92E-08	9.77E-08	0.00E+00	1.37E-07		3.92E-08	9.77E-08	0.00E+00	1.37E-07		6.38E-09	1.48E-08	0.00E+00	2.12E-08		3.33E-09	5.63E-09	0.00E+00	8.96E-09
5103	599149.5	4176933	3.94E-08	9.81E-08	0.00E+00	1.37E-07		3.94E-08	9.81E-08	0.00E+00	1.37E-07		6.41E-09	1.48E-08	0.00E+00	2.12E-08		3.34E-09	5.65E-09	0.00E+00	9.00E-09
5104	599141.2	4176928	4.11E-08	1.02E-07	0.00E+00	1.43E-07		4.11E-08	1.02E-07	0.00E+00	1.43E-07		6.68E-09	1.55E-08	0.00E+00	2.21E-08		3.49E-09	5.89E-09	0.00E+00	9.38E-09
5105	599133	4176924	4.3E-08	1.07E-07	0.00E+00	1.50E-07		4.30E-08	1.07E-07	0.00E+00	1.50E-07		6.99E-09	1.62E-08	0.00E+00	2.32E-08		3.65E-09	6.17E-09	0.00E+00	9.81E-09
5106	599124.7	4176919	4.51E-08	1.12E-07	0.00E+00	1.57E-07		4.51E-08	1.12E-07	0.00E+00	1.57E-07		7.33E-09	1.70E-08	0.00E+00	2.43E-08		3.83E-09	6.47E-09	0.00E+00	1.03E-08
5107	599116.4	4176914	4.63E-08	1.15E-07	0.00E+00	1.62E-07		4.63E-08	1.15E-07	0.00E+00	1.62E-07		7.53E-09	1.74E-08	0.00E+00	2.50E-08		3.93E-09	6.65E-09	0.00E+00	1.06E-08
5108	599108.1	4176910	4.61E-08	1.15E-07	0.00E+00	1.61E-07		4.61E-08	1.15E-07	0.00E+00	1.61E-07		7.50E-09	1.74E-08	0.00E+00	2.48E-08		3.91E-09	6.61E-09	0.00E+00	1.05E-08
5109	599099.9	4176905	4.48E-08	1.11E-07	0.00E+00	1.56E-07		4.48E-08	1.11E-07	0.00E+00	1.56E-07		7.28E-09	1.69E-08	0.00E+00	2.41E-08		3.80E-09	6.42E-09	0.00E+00	1.02E-08
5110	599091.6	4176900	4.14E-08	1.03E-07	0.00E+00	1.44E-07		4.14E-08	1.03E-07	0.00E+00	1.44E-07		6.73E-09	1.56E-08	0.00E+00	2.23E-08		3.51E-09	5.94E-09	0.00E+00	9.45E-09
5111	599298.5	4177017	6.28E-08	1.56E-07	0.00E+00	2.19E-07		6.28E-08	1.56E-07	0.00E+00	2.19E-07		1.02E-08	2.36E-08	0.00E+00	3.38E-08		5.33E-09	9.01E-09	0.00E+00	1.43E-08
5112	599307.9	4177019	6.39E-08	1.59E-07	0.00E+00	2.23E-07		6.39E-08	1.59E-07	0.00E+00	2.23E-07		1.04E-08	2.41E-08	0.00E+00	3.45E-08		5.43E-09	9.17E-09	0.00E+00	1.46E-08
5113	599317.3	4177021	6.52E-08	1.62E-07	0.00E+00	2.28E-07		6.52E-08	1.62E-07	0.00E+00	2.28E-07		1.06E-08	2.46E-08	0.00E+00	3.52E-08		5.54E-09	9.36E-09	0.00E+00	1.49E-08
5114	599326.7	4177022	6.66E-08	1.66E-07	0.00E+00	2.32E-07		6.66E-08	1.66E-07	0.00E+00	2.32E-07		1.08E-08	2.51E-08	0.00E+00	3.59E-08		5.65E-09	9.56E-09	0.00E+00	1.52E-08
5115	599336.1	4177024	6.79E-08	1.69E-07	0.00E+00	2.37E-07		6.79E-08	1.69E-07	0.00E+00	2.37E-07		1.10E-08	2.56E-08	0.00E+00	3.66E-08		5.76E-09	9.74E-09	0.00E+00	1.55E-08
5116	599345.5	4177026	6.88E-08	1.71E-07	0.00E+00	2.40E-07		6.88E-08	1.71E-07	0.00E+00	2.40E-07		1.12E-08	2.59E-08	0.00E+00	3.71E-08		5.84E-09	9.88E-09	0.00E+00	1.57E-08
5117	599354.9	4177027	6.97E-08	1.74E-07	0.00E+00	2.43E-07		6.97E-08	1.74E-07	0.00E+00	2.43E-07		1.13E-08	2.63E-08	0.00E+00	3.76E-08		5.92E-09	1.00E-08	0.00E+00	1.59E-08
5118	599364.3	4177029	7.06E-08	1.76E-07	0.00E+00	2.47E-07		7.06E-08	1.76E-07	0.00E+00	2.47E-07		1.15E-08	2.66E-08	0.00E+00	3.81E-08		6.00E-09	1.01E-08	0.00E+00	1.61E-08
5119	599373.7	4177031	7.18E-08	1.79E-07	0.00E+00	2.51E-07		7.18E-08	1.79E-07	0.00E+00	2.51E-07		1.17E-08	2.70E-08	0.00E+00	3.87E-08		6.10E-09	1.03E-08	0.00E+00	1.64E-08
5120	599383.1	4177033	7.3E-08	1.82E-07	0.00E+00	2.55E-07		7.30E-08	1.82E-07	0.00E+00	2.55E-07		1.19E-08	2.75E-08	0.00E+00	3.94E-08		6.20E-09	1.05E-08	0.00E+00	1.67E-08
5121	599392.5	4177034	7.4E-08	1.84E-07	0.00E+00	2.58E-07		7.40E-08	1.84E-07	0.00E+00	2.58E-07		1.20E-08	2.79E-08	0.00E+00	3.99E-08		6.29E-09	1.06E-08	0.00E+00	1.69E-08
5122	599192.6	4176771	8.93E-08	2.22E-07	0.00E+00	3.11E-07		8.93E-08	2.22E-07	0.00E+00	3.11E-07		1.45E-08	3.36E-08	0.00E+00	4.81E-08		7.58E-09	1.28E-08	0.00E+00	2.04E-08
5123	599198.1	4176776	9.08E-08	2.26E-07	0.00E+00	3.17E-07		9.08E-08	2.26E-07	0.00E+00	3.17E-07		1.48E-08	3.42E-08	0.00E+00	4.90E-08		7.71E-09	1.30E-08	0.00E+00	2.07E-08
5124	599207.1	4176780	9.28E-08	2.31E-07	0.00E+00	3.24E-07		9.28E-08	2.31E-07	0.00E+00	3.24E-07		1.51E-08	3.50E-08	0.00E+00	5.01E-08		7.88E-09	1.33E-08	0.00E+00	2.12E-08
5125	599211.8	4176773	9.47E-08	2.36E-07	0.00E+00	3.30E-07		9.47E-08	2.36E-07	0.00E+00	3.30E-07		1.54E-08	3.56E-08	0.00E+00	5.11E-08		8.04E-09	1.36E-08	0.00E+00	2.16E-08
5126	599204.6	4176769	9.31E-08	2.32E-07	0.00E+00	3.25E-07		9.31E-08	2.32E-07	0.00E+00	3.25E-07		1.51E-08	3.50E-08	0.00E+00	5.02E-08		7.90E-09	1.34E-08	0.00E+00	2.13E-08
5127	599197.1	4176766	9.08E-08	2.26E-07	0.00E+00	3.17E-07		9.08E-08	2.26E-07	0.00E+00	3.17E-07		1.48E-08	3.42E-08	0.00E+00	4.90E-08		7.71E-09	1.30E-08	0.00E+00	2.07E-08
5128	599199.9	4176763	9.21E-08	2.29E-07	0.00E+00	3.21E-07		9.21E-08	2.29E-07	0.00E+00	3.21E-07		1.50E-08	3.47E-08	0.00E+00	4.97E-08		7.82E-09	1.32E-08	0.00E+00	2.10E-08
5129	599169.4	4176794	7.77E-08	1.93E-07	0.00E+00	2.71E-07		7.77E-08	1.93E-07	0.00E+00	2.71E-07		1.26E-08	2.92E-08	0.00E+00	4.19E-08		6.60E-09	1.11E-08	0.00E+00	1.77E-08
5130	599174	4176783	7.94E-08	1.98E-07	0.00E+00	2.77E-07		7.94E-08	1.98E-07	0.00E+00	2.77E-07		1.29E-08	2.99E-08	0.00E+00	4.28E-08		6.74E-09	1.14E-08	0.00E+00	1.81E-08
5131	599178.4	4176775	8.2E-08	2.04E-07	0.00E+00	2.86E-07		8.20E-08	2.04E-07	0.00E+00	2.86E-07		1.33E-08	3.09E-08	0.00E+00	4.42E-08		6.96E-09	1.18E-08	0.00E+00	1.87E-08
5132	599181.1	4176771	8.39E-08	2.09E-07	0.00E+00	2.93E-07		8.39E-08	2.09E-07	0.00E+00	2.93E-07		1.36E-08	3.16E-08	0.00E+00	4.52E-08		7.12E-09	1.20E-08	0.00E+00	1.92E-08
5133	599184.7	4176768	8.64E-08	2.15E-07	0.00E+00	3.02E-07		8.64E-08	2.15E-07	0.00E+00	3.02E-07		1.41E-08	3.25E-08	0.00E+00	4.66E-08		7.34E-09	1.24E-08	0.00E+00	1.97E-08
5134	599188.4	4176762	8.76E-08	2.18E-07	0.00E+00	3.06E-07		8.76E-08	2.18E-07	0.00E+00	3.06E-07		1.42E-08	3.30E-08	0.00E+00	4.72E-08		7.44E-09	1.26E-08	0.00E+00	2.00E-08
5135	599191.6	4176760	8.89E-08	2.21E-07	0.00E+00	3.10E-07		8.89E-08	2.21E-07	0.00E+00	3.10E-07		1.45E-08	3.35E-08	0.00E+00	4.79E-08		7.55E-09	1.28E-08	0.00E+00	2.03E-08
5136	599195.5	4176753	9.08E-08	2.26E-07	0.00E+00	3.17E-07		9.08E-08	2.26E-07	0.00E+00	3.17E-07		1.48E-08	3.42E-08	0.00E+00	4.90E-08		7.71E-09	1.30E-08	0.00E+00	2.08E-08
5137	599206.2	4176756	9.52E-08	2.37E-07	0.00E+00	3.32E-07		9.52E-08	2.37E-07	0.00E+00	3.32E-07		1.55E-08	3.58E-08	0.00E+00	5.13E-08		8.08E-09	1.37E-08	0.00E+00	2.17E-08
5138	599216.7	4176763	9.7E-08	2.41E-07	0.00E+00	3.38E-07		9.70E-08	2.41E-07	0.00E+00	3.38E-07		1.58E-08	3.65E-08	0.00E+00	5.23E-08		8.23E-09	1.39E-08	0.00E+00	2.21E-08
5139	599200.8	4176746	9.4E-08	2.34E-07	0.00E+00	3.28E-07		9.40E-08	2.34E-07	0.00E+00	3.28E-07		1.53E-08	3.54E-08	0.00E+00	5.07E-08		7.98E-09	1.35E-08	0.00E+00	2.15E-08
5140	599210.8	4176749	9.82E-08	2.44E-07	0.00E+00	3.43E-07		9.82E-08	2.44E-07	0.00E+00	3.43E-07		1.60E-08	3.70E-08	0.00E+00	5.29E-08		8.33E-09	1.41E-08	0.00E+00	2.24E-08
5141	599223.3	4176755	9.94E-08	2.47E-07	0.00E+00	3.47E-07		9.94E-08	2.47E-07	0.00E+00	3.47E-07		1.62E-08	3.74E-08	0.00E+00	5.36E-08		8.44E-09	1.43E-08	0.00E+00	2.27E-08
5142	599207.4	4176739	9.83E-08	2.45E-07	0.00E+00	3.43E-07		9.83E-08	2.45E-07	0.00E+00	3.43E-07		1.60E-08	3.70E-08	0.00E+00	5.30E-08		8.34E-09	1.41E-08	0.00E+00	2.24E-08
5143	599212.5	4176743	1E-07	2.49E-07	0.00E+00	3.49E-07		1.00E-07	2.49E-07	0.00E+00	3.49E-07		1.63E-08	3.77E-08	0.00E+00	5.39E-08		8.50E-09	1.44E-08	0.00E+00	2.29E-08
5144	599225.2	4176747	1.01E-07	2.52E-07	0.00E+00	3.53E-07		1.01E-07	2.52E-07	0.00E+00	3.53E-07		1.65E-08	3.81E-08	0.00E+00	5.46E-08		8.60E-09	1.45E-08	0.00E+00	2.31E-08

			UnMitigated			T2			T2L3			T4		
			5.52E-03	1.49E-02	0.00E+00	5.52E-03	1.49E-02	0.00E+00	8.97E-04	2.25E-03	0.00E+00	4.68E-04	8.57E-04	0.00E+00
			Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	599561.5	4176293	3.77E-04	1.02E-03	0.00E+00	3.77E-04	1.02E-03	0.00E+00	6.13E-05	1.54E-04	0.00E+00	3.20E-05	5.85E-05	0.00E+00
2	599570.7	4176294	3.79E-04	1.02E-03	0.00E+00	3.79E-04	1.02E-03	0.00E+00	6.16E-05	1.54E-04	0.00E+00	3.21E-05	5.88E-05	0.00E+00
3	599580	4176296	3.89E-04	1.05E-03	0.00E+00	3.89E-04	1.05E-03	0.00E+00	6.32E-05	1.58E-04	0.00E+00	3.30E-05	6.04E-05	0.00E+00
4	599589.3	4176297	4.00E-04	1.08E-03	0.00E+00	4.00E-04	1.08E-03	0.00E+00	6.50E-05	1.63E-04	0.00E+00	3.40E-05	6.21E-05	0.00E+00
5	599598.6	4176299	4.08E-04	1.10E-03	0.00E+00	4.08E-04	1.10E-03	0.00E+00	6.63E-05	1.66E-04	0.00E+00	3.46E-05	6.33E-05	0.00E+00
6	599607.9	4176300	4.10E-04	1.11E-03	0.00E+00	4.10E-04	1.11E-03	0.00E+00	6.68E-05	1.67E-04	0.00E+00	3.48E-05	6.38E-05	0.00E+00
7	599617.2	4176302	4.09E-04	1.10E-03	0.00E+00	4.09E-04	1.10E-03	0.00E+00	6.65E-05	1.67E-04	0.00E+00	3.47E-05	6.35E-05	0.00E+00
8	599626.5	4176303	4.04E-04	1.09E-03	0.00E+00	4.04E-04	1.09E-03	0.00E+00	6.58E-05	1.65E-04	0.00E+00	3.43E-05	6.28E-05	0.00E+00
9	599635.8	4176304	3.97E-04	1.07E-03	0.00E+00	3.97E-04	1.07E-03	0.00E+00	6.46E-05	1.62E-04	0.00E+00	3.37E-05	6.17E-05	0.00E+00
10	599645.1	4176306	3.90E-04	1.05E-03	0.00E+00	3.90E-04	1.05E-03	0.00E+00	6.35E-05	1.59E-04	0.00E+00	3.31E-05	6.06E-05	0.00E+00
11	599654.4	4176307	3.88E-04	1.05E-03	0.00E+00	3.88E-04	1.05E-03	0.00E+00	6.32E-05	1.58E-04	0.00E+00	3.30E-05	6.04E-05	0.00E+00
12	599663.7	4176309	3.78E-04	1.02E-03	0.00E+00	3.78E-04	1.02E-03	0.00E+00	6.15E-05	1.54E-04	0.00E+00	3.21E-05	5.88E-05	0.00E+00
13	599673	4176310	3.73E-04	1.01E-03	0.00E+00	3.73E-04	1.01E-03	0.00E+00	6.07E-05	1.52E-04	0.00E+00	3.17E-05	5.80E-05	0.00E+00
14	599682.2	4176312	3.68E-04	9.91E-04	0.00E+00	3.68E-04	9.91E-04	0.00E+00	5.98E-05	1.50E-04	0.00E+00	3.12E-05	5.71E-05	0.00E+00
15	599559.9	4176302	3.32E-04	8.95E-04	0.00E+00	3.32E-04	8.95E-04	0.00E+00	5.40E-05	1.35E-04	0.00E+00	2.82E-05	5.16E-05	0.00E+00
16	599569.2	4176304	3.33E-04	8.99E-04	0.00E+00	3.33E-04	8.99E-04	0.00E+00	5.42E-05	1.36E-04	0.00E+00	2.83E-05	5.18E-05	0.00E+00
17	599578.5	4176305	3.39E-04	9.15E-04	0.00E+00	3.39E-04	9.15E-04	0.00E+00	5.52E-05	1.38E-04	0.00E+00	2.88E-05	5.27E-05	0.00E+00
18	599587.7	4176307	3.48E-04	9.37E-04	0.00E+00	3.48E-04	9.37E-04	0.00E+00	5.66E-05	1.42E-04	0.00E+00	2.95E-05	5.40E-05	0.00E+00
19	599597	4176308	3.54E-04	9.54E-04	0.00E+00	3.54E-04	9.54E-04	0.00E+00	5.76E-05	1.44E-04	0.00E+00	3.00E-05	5.50E-05	0.00E+00
20	599606.3	4176310	3.57E-04	9.63E-04	0.00E+00	3.57E-04	9.63E-04	0.00E+00	5.81E-05	1.46E-04	0.00E+00	3.03E-05	5.55E-05	0.00E+00
21	599615.6	4176311	3.59E-04	9.67E-04	0.00E+00	3.59E-04	9.67E-04	0.00E+00	5.83E-05	1.46E-04	0.00E+00	3.04E-05	5.57E-05	0.00E+00
22	599624.9	4176313	3.63E-04	9.77E-04	0.00E+00	3.63E-04	9.77E-04	0.00E+00	5.90E-05	1.48E-04	0.00E+00	3.08E-05	5.63E-05	0.00E+00
23	599634.2	4176314	3.64E-04	9.81E-04	0.00E+00	3.64E-04	9.81E-04	0.00E+00	5.92E-05	1.48E-04	0.00E+00	3.09E-05	5.65E-05	0.00E+00
24	599643.5	4176316	3.62E-04	9.77E-04	0.00E+00	3.62E-04	9.77E-04	0.00E+00	5.90E-05	1.48E-04	0.00E+00	3.08E-05	5.63E-05	0.00E+00
25	599652.8	4176317	3.60E-04	9.71E-04	0.00E+00	3.60E-04	9.71E-04	0.00E+00	5.86E-05	1.47E-04	0.00E+00	3.06E-05	5.59E-05	0.00E+00
26	599662.1	4176319	3.55E-04	9.58E-04	0.00E+00	3.55E-04	9.58E-04	0.00E+00	5.78E-05	1.45E-04	0.00E+00	3.02E-05	5.52E-05	0.00E+00
27	599671.4	4176320	3.54E-04	9.55E-04	0.00E+00	3.54E-04	9.55E-04	0.00E+00	5.76E-05	1.44E-04	0.00E+00	3.01E-05	5.51E-05	0.00E+00
28	599680.7	4176322	3.51E-04	9.47E-04	0.00E+00	3.51E-04	9.47E-04	0.00E+00	5.72E-05	1.43E-04	0.00E+00	2.98E-05	5.46E-05	0.00E+00
29	599558.3	4176312	2.94E-04	7.93E-04	0.00E+00	2.94E-04	7.93E-04	0.00E+00	4.78E-05	1.20E-04	0.00E+00	2.50E-05	4.57E-05	0.00E+00
30	599567.6	4176314	2.95E-04	7.95E-04	0.00E+00	2.95E-04	7.95E-04	0.00E+00	4.80E-05	1.20E-04	0.00E+00	2.50E-05	4.58E-05	0.00E+00
31	599576.9	4176315	2.99E-04	8.05E-04	0.00E+00	2.99E-04	8.05E-04	0.00E+00	4.86E-05	1.22E-04	0.00E+00	2.54E-05	4.64E-05	0.00E+00
32	599586.2	4176317	3.05E-04	8.23E-04	0.00E+00	3.05E-04	8.23E-04	0.00E+00	4.97E-05	1.24E-04	0.00E+00	2.59E-05	4.74E-05	0.00E+00
33	599595.5	4176318	3.11E-04	8.40E-04	0.00E+00	3.11E-04	8.40E-04	0.00E+00	5.07E-05	1.27E-04	0.00E+00	2.64E-05	4.84E-05	0.00E+00
34	599604.8	4176320	3.28E-04	8.84E-04	0.00E+00	3.28E-04	8.84E-04	0.00E+00	5.33E-05	1.34E-04	0.00E+00	2.78E-05	5.09E-05	0.00E+00
35	599614	4176321	3.32E-04	8.95E-04	0.00E+00	3.32E-04	8.95E-04	0.00E+00	5.40E-05	1.35E-04	0.00E+00	2.82E-05	5.16E-05	0.00E+00
36	599623.3	4176323	3.34E-04	9.01E-04	0.00E+00	3.34E-04	9.01E-04	0.00E+00	5.44E-05	1.36E-04	0.00E+00	2.84E-05	5.20E-05	0.00E+00
37	599632.6	4176324	3.35E-04	9.02E-04	0.00E+00	3.35E-04	9.02E-04	0.00E+00	5.44E-05	1.36E-04	0.00E+00	2.84E-05	5.20E-05	0.00E+00
38	599641.9	4176326	3.37E-04	9.10E-04	0.00E+00	3.37E-04	9.10E-04	0.00E+00	5.49E-05	1.38E-04	0.00E+00	2.86E-05	5.24E-05	0.00E+00
39	599651.2	4176327	3.39E-04	9.15E-04	0.00E+00	3.39E-04	9.15E-04	0.00E+00	5.52E-05	1.38E-04	0.00E+00	2.88E-05	5.27E-05	0.00E+00
40	599660.5	4176329	3.35E-04	9.02E-04	0.00E+00	3.35E-04	9.02E-04	0.00E+00	5.44E-05	1.36E-04	0.00E+00	2.84E-05	5.20E-05	0.00E+00
41	599669.8	4176330	3.33E-04	8.97E-04	0.00E+00	3.33E-04	8.97E-04	0.00E+00	5.41E-05	1.36E-04	0.00E+00	2.82E-05	5.17E-05	0.00E+00
42	599679.1	4176332	3.29E-04	8.88E-04	0.00E+00	3.29E-04	8.88E-04	0.00E+00	5.36E-05	1.34E-04	0.00E+00	2.80E-05	5.12E-05	0.00E+00
43	599556.7	4176322	2.68E-04	7.21E-04	0.00E+00	2.68E-04	7.21E-04	0.00E+00	4.35E-05	1.09E-04	0.00E+00	2.27E-05	4.16E-05	0.00E+00
44	599566	4176324	2.69E-04	7.25E-04	0.00E+00	2.69E-04	7.25E-04	0.00E+00	4.37E-05	1.10E-04	0.00E+00	2.28E-05	4.18E-05	0.00E+00
45	599575.3	4176325	2.72E-04	7.33E-04	0.00E+00	2.72E-04	7.33E-04	0.00E+00	4.42E-05	1.11E-04	0.00E+00	2.31E-05	4.22E-05	0.00E+00
46	599584.6	4176327	2.77E-04	7.47E-04	0.00E+00	2.77E-04	7.47E-04	0.00E+00	4.51E-05	1.13E-04	0.00E+00	2.35E-05	4.30E-05	0.00E+00
47	599593.9	4176328	2.82E-04	7.60E-04	0.00E+00	2.82E-04	7.60E-04	0.00E+00	4.59E-05	1.15E-04	0.00E+00	2.39E-05	4.38E-05	0.00E+00
48	599603.2	4176330	2.96E-04	7.99E-04	0.00E+00	2.96E-04	7.99E-04	0.00E+00	4.82E-05	1.21E-04	0.00E+00	2.52E-05	4.60E-05	0.00E+00
49	599612.5	4176331	3.02E-04	8.14E-04	0.00E+00	3.02E-04	8.14E-04	0.00E+00	4.91E-05	1.23E-04	0.00E+00	2.56E-05	4.69E-05	0.00E+00
50	599621.8	4176333	3.06E-04	8.24E-04	0.00E+00	3.06E-04	8.24E-04	0.00E+00	4.97E-05	1.25E-04	0.00E+00	2.60E-05	4.75E-05	0.00E+00
51	599631.1	4176334	3.08E-04	8.30E-04	0.00E+00	3.08E-04	8.30E-04	0.00E+00	5.01E-05	1.26E-04	0.00E+00	2.61E-05	4.78E-05	0.00E+00
52	599640.3	4176336	3.13E-04	8.44E-04	0.00E+00	3.13E-04	8.44E-04	0.00E+00	5.09E-05	1.28E-04	0.00E+00	2.66E-05	4.87E-05	0.00E+00
53	599649.6	4176337	3.19E-04	8.60E-04	0.00E+00	3.19E-04	8.60E-04	0.00E+00	5.19E-05	1.30E-04	0.00E+00	2.71E-05	4.96E-05	0.00E+00
54	599658.9	4176339	3.15E-04	8.49E-04	0.00E+00	3.15E-04	8.49E-04	0.00E+00	5.12E-05	1.28E-04	0.00E+00	2.67E-05	4.89E-05	0.00E+00
55	599668.2	4176340	3.16E-04	8.52E-04	0.00E+00	3.16E-04	8.52E-04	0.00E+00	5.14E-05	1.29E-04	0.00E+00	2.68E-05	4.91E-05	0.00E+00
56	599677.5	4176342	3.16E-04	8.51E-04	0.00E+00	3.16E-04	8.51E-04	0.00E+00	5.14E-05	1.29E-04	0.00E+00	2.68E-05	4.90E-05	0.00E+00
57	599555.1	4176332	2.48E-04	6.68E-04	0.00E+00	2.48E-04	6.68E-04	0.00E+00	4.03E-05	1.01E-04	0.00E+00	2.10E-05	3.85E-05	0.00E+00
58	599564.4	4176334	2.48E-04	6.68E-04	0.00E+00	2.48E-04	6.68E-04	0.00E+00	4.03E-05	1.01E-04	0.00E+00	2.10E-05	3.85E-05	0.00E+00
59	599573.7	4176335	2.49E-04	6.72E-04	0.00E+00	2.49E-04	6.72E-04	0.00E+00	4.06E-05	1.02E-04	0.00E+00	2.12E-05	3.87E-05	0.00E+00
60	599583	4176337	2.53E-04	6.81E-04	0.00E+00	2.53E-04	6.81E-04	0.00E+00	4.11E-05	1.03E-04	0.00E+00	2.15E-05	3.93E-05	0.00E+00
61	599592.3	4176338	2.56E-04	6.91E-04	0.00E+00	2.56E-04	6.91E-04	0.00E+00	4.17E-05	1.05E-04	0.00E+00	2.18E-05	3.98E-05	0.00E+00
62	599601.6	4176340	2.67E-04	7.19E-04	0.00E+00	2.67E-04	7.19E-04	0.00E+00	4.34E-05	1.09E-04	0.00E+00	2.26E-05	4.14E-05	0.00E+00
63	599610.9	4176341	2.74E-04	7.40E-04	0.00E+00	2.74E-04	7.40E-04	0.00E+00	4.46E-05	1.12E-04	0.00E+00	2.33E-05	4.26E-05	0.00E+00
64	599620.2	4176342	2.79E-04	7.53E-04	0.00E+00	2.79E-04	7.53E-04	0.00E+00	4.55E-05	1.14E-04	0.00E+00	2.37E-05	4.34E-05	0.00E+00
65	599629.5	4176344	2.83E-04	7.63E-04	0.00E+00	2.83E-04	7.63E-04	0.00E+00	4.61E-05	1.15E-04	0.00E+00	2.40E-05	4.40E-05	0.00E+00
66	599638.8	4176345	2.87E-04	7.75E-04	0.00E+00	2.87E-04	7.75E-04	0.00E+00	4.68E-05	1.17E-04	0.00E+00	2.44E-05	4.47E-05	0.00E+00
67	599648.1	4176347	2.93E-04	7.89E-04	0.00E+00	2.93E-04	7.89E-04	0.00E+00	4.76E-05	1.19E-04	0.00E+00	2.48E-05	4.55E-05	0.00E+00
68	599657.3	4176348	2.99E-04	8.06E-04	0.00E+00	2.99E-04	8.06E-04	0.00E+00	4.86E-05	1.22E-04	0.00E+00	2.54E-05	4.65E-05	0.00E+00
69	599666.6	4176350	3.06E-04	8.25E-04	0.00E+00	3.06E-04	8.25E-04	0.00E+00	4.98E-05	1.25E-04	0.00E+00	2.60E-05	4.75E-05	0.00E+00
70	599675.9	4176351	3.08E-04	8.30E-04	0.00E+00	3.08E-04	8.30E-04	0.00E+00	5.01E-05	1.26E-04	0.00E+00	2.61E-05	4.79E-05	0.00E+00
71	599553.6	4176342	2.31E-04	6.22E-04	0.00E+00	2.31E-04	6.22E-04	0.00E+00	3.75E-05	9.40E-05	0.00E+00	1.96E-05	3.58E-05	0.00E+00
72	599562.9	4176343	2.30E-04	6.19E-04	0.00E+00	2.30E-04	6.19E-04	0.00E+00	3.74E-05	9.36E-05	0.00E+00	1.95E-05	3.57E-05	0.00E+00
73	599572.1	4176345	2.30E-04	6.21E-04	0.00E+00	2.30E-04	6.21E-04	0.00E+00	3.75E-05	9.39E-05	0.00E+00	1.96E-05	3.58E-05	0.00E+00
74	599581.4	4176346	2.32E-04	6.26E-04	0.00E+00	2.32E-04	6.26E-04	0.00E+00	3.78E-05	9.47E-05	0.00E+00	1.97E-05	3.61E-05	0.00E+00
75	599590.7	4176348	2.35E-04	6.34E-04	0.00E+00	2.35E-04	6.34E-04	0.00E+00	3.83E-05	9.59E-05	0.00E+00	2.00E-05	3.66E-05	0.00E+00
76	599600	4176349	2.44E-04	6.59E-04	0.00E+00	2.44E-04	6.59E-04	0.00E+00	3.97E-05	9.96E-05	0.00E+00	2.07E-05	3.80E-05	0.00E+00
77	599609.3	4176351	2.53E-04	6.82E-04	0.00E+00	2.53E-04	6.82E-04	0.00E+00	4.11E-05	1.03E-04	0.00E+00	2.15E-05	3.93E-05	0.00E+00
78	599618.6	4176352	2.55E-04	6.87E-04	0.00E+00	2.55E-04	6.87E-04	0.00E+00	4.15E-05	1.04E-04	0.00E+00	2.16E-05	3.96E-05	0.00E+00
79	599627.9	4176354	2.62E-04	7.06E-04	0.00E+00	2.62E-04	7.06E-04	0.00E+00	4.26E-05	1.07E-04	0.00E+00	2.22E-05	4.07E-05	0.00E+00
80	599637.2	4176355	2.68E-04	7.23E-04	0.00E+00	2.68E-04	7.23E-04	0.00E+00	4.36E-05	1.09E-04	0.00E+00	2.28E-05	4.17E-05	0.00E+00
81	599646.5	4176357	2.78E-04	7.50E-04	0.00E+00	2.78E-04	7.50E-04	0.00E+00	4.52E-05	1.13E-04	0.00E+00	2.36E-05	4.32E-05	0.00E+00
82	599655.8	4176358	2.91E-04	7.83E-04	0.00E+00	2.91E-04	7.83E-04	0.00E+00	4.73E-05	1.18E-04	0.00E+00	2.47E-05	4.51E-05	0.00E+00
83	599665.1	4176360	3.02E-04	8.15E-04	0.00E+00	3.02E-04	8.15E-04	0.00E+00	4.92E-05	1.23E-04	0.00E+00	2.57E-05	4.70E-05	0.00E+00
84	599674.4	4176361	3.06E-04	8.24E-04	0.00E+00	3.06E-04	8.24E-04	0.00E+00	4.97E-05	1.25E-04	0.00E+00	2.60E-05	4.75E-05	0.00E+00
85	599552	4176352	2.24E-04	6.05E-04	0.00E+00	2.24E-04	6.05E-04	0.00E+00	3.65E-05	9.15E-05	0.00E+00	1.91E-05	3.49E-05	0.00E+00
86	599561.3	4176353	2.22E-04	5.99E-04	0.00E+00	2.22E-04	5.99E-04	0.00E+00	3.61E-05	9.05E-05	0.00E+00	1.89E-05	3.45E-05	0.00E+00
87	599570.6	4176355	2.21E-04	5.96E-04	0.00E+00	2.21E-04	5.96E-04	0.00E+00	3.59E-05	9.01E-05	0.00E+00	1.88E-05	3.43E-05	0.00E+00
88	599579.9	4176356	2.21E-04	5.95E-04	0.00E+00	2.21E-04	5.95E-04	0.00E+00	3.59E-05	9.00E-05	0.00E+00	1.88E-05	3.43E-05	0.00E+00

89	599589.2	4176358	2.22E-04	5.97E-04	0.00E+00	2.22E-04	5.97E-04	0.00E+00	3.60E-05	9.03E-05	0.00E+00	1.88E-05	3.44E-05	0.00E+00
90	599598.4	4176359	2.23E-04	6.01E-04	0.00E+00	2.23E-04	6.01E-04	0.00E+00	3.63E-05	9.09E-05	0.00E+00	1.89E-05	3.46E-05	0.00E+00
91	599607.7	4176361	2.36E-04	6.37E-04	0.00E+00	2.36E-04	6.37E-04	0.00E+00	3.84E-05	9.63E-05	0.00E+00	2.01E-05	3.67E-05	0.00E+00
92	599617	4176362	2.36E-04	6.37E-04	0.00E+00	2.36E-04	6.37E-04	0.00E+00	3.84E-05	9.63E-05	0.00E+00	2.01E-05	3.67E-05	0.00E+00
93	599626.3	4176364	2.44E-04	6.57E-04	0.00E+00	2.44E-04	6.57E-04	0.00E+00	3.96E-05	9.93E-05	0.00E+00	2.07E-05	3.79E-05	0.00E+00
94	599635.6	4176365	2.52E-04	6.80E-04	0.00E+00	2.52E-04	6.80E-04	0.00E+00	4.10E-05	1.03E-04	0.00E+00	2.14E-05	3.92E-05	0.00E+00
95	599644.9	4176367	2.67E-04	7.20E-04	0.00E+00	2.67E-04	7.20E-04	0.00E+00	4.34E-05	1.09E-04	0.00E+00	2.27E-05	4.15E-05	0.00E+00
96	599654.2	4176368	2.83E-04	7.64E-04	0.00E+00	2.83E-04	7.64E-04	0.00E+00	4.61E-05	1.16E-04	0.00E+00	2.41E-05	4.40E-05	0.00E+00
97	599663.5	4176370	3.02E-04	8.14E-04	0.00E+00	3.02E-04	8.14E-04	0.00E+00	4.91E-05	1.23E-04	0.00E+00	2.56E-05	4.69E-05	0.00E+00
98	599672.8	4176371	3.07E-04	8.27E-04	0.00E+00	3.07E-04	8.27E-04	0.00E+00	4.99E-05	1.25E-04	0.00E+00	2.60E-05	4.77E-05	0.00E+00
99	599550.4	4176362	2.28E-04	6.16E-04	0.00E+00	2.28E-04	6.16E-04	0.00E+00	3.71E-05	9.31E-05	0.00E+00	1.94E-05	3.55E-05	0.00E+00
100	599559.7	4176363	2.21E-04	5.96E-04	0.00E+00	2.21E-04	5.96E-04	0.00E+00	3.60E-05	9.01E-05	0.00E+00	1.88E-05	3.44E-05	0.00E+00
101	599569	4176365	2.16E-04	5.82E-04	0.00E+00	2.16E-04	5.82E-04	0.00E+00	3.51E-05	8.80E-05	0.00E+00	1.83E-05	3.35E-05	0.00E+00
102	599578.3	4176366	2.12E-04	5.73E-04	0.00E+00	2.12E-04	5.73E-04	0.00E+00	3.46E-05	8.66E-05	0.00E+00	1.80E-05	3.30E-05	0.00E+00
103	599587.6	4176368	2.11E-04	5.68E-04	0.00E+00	2.11E-04	5.68E-04	0.00E+00	3.42E-05	8.58E-05	0.00E+00	1.79E-05	3.27E-05	0.00E+00
104	599596.9	4176369	2.10E-04	5.66E-04	0.00E+00	2.10E-04	5.66E-04	0.00E+00	3.41E-05	8.55E-05	0.00E+00	1.78E-05	3.26E-05	0.00E+00
105	599606.2	4176371	2.21E-04	5.96E-04	0.00E+00	2.21E-04	5.96E-04	0.00E+00	3.60E-05	9.01E-05	0.00E+00	1.88E-05	3.43E-05	0.00E+00
106	599615.4	4176372	2.22E-04	5.98E-04	0.00E+00	2.22E-04	5.98E-04	0.00E+00	3.61E-05	9.04E-05	0.00E+00	1.88E-05	3.44E-05	0.00E+00
107	599624.7	4176374	2.31E-04	6.22E-04	0.00E+00	2.31E-04	6.22E-04	0.00E+00	3.75E-05	9.40E-05	0.00E+00	1.96E-05	3.58E-05	0.00E+00
108	599634	4176375	2.40E-04	6.46E-04	0.00E+00	2.40E-04	6.46E-04	0.00E+00	3.90E-05	9.77E-05	0.00E+00	2.03E-05	3.72E-05	0.00E+00
109	599643.3	4176377	2.57E-04	6.94E-04	0.00E+00	2.57E-04	6.94E-04	0.00E+00	4.19E-05	1.05E-04	0.00E+00	2.19E-05	4.00E-05	0.00E+00
110	599652.6	4176378	2.77E-04	7.48E-04	0.00E+00	2.77E-04	7.48E-04	0.00E+00	4.51E-05	1.13E-04	0.00E+00	2.36E-05	4.31E-05	0.00E+00
111	599661.9	4176380	3.00E-04	8.09E-04	0.00E+00	3.00E-04	8.09E-04	0.00E+00	4.88E-05	1.22E-04	0.00E+00	2.55E-05	4.66E-05	0.00E+00
112	599671.2	4176381	3.07E-04	8.27E-04	0.00E+00	3.07E-04	8.27E-04	0.00E+00	4.99E-05	1.25E-04	0.00E+00	2.60E-05	4.76E-05	0.00E+00
113	599548.8	4176372	2.39E-04	6.46E-04	0.00E+00	2.39E-04	6.46E-04	0.00E+00	3.90E-05	9.76E-05	0.00E+00	2.03E-05	3.72E-05	0.00E+00
114	599558.1	4176373	2.25E-04	6.06E-04	0.00E+00	2.25E-04	6.06E-04	0.00E+00	3.66E-05	9.16E-05	0.00E+00	1.91E-05	3.49E-05	0.00E+00
115	599567.4	4176375	2.14E-04	5.78E-04	0.00E+00	2.14E-04	5.78E-04	0.00E+00	3.49E-05	8.74E-05	0.00E+00	1.82E-05	3.33E-05	0.00E+00
116	599576.7	4176376	2.07E-04	5.58E-04	0.00E+00	2.07E-04	5.58E-04	0.00E+00	3.37E-05	8.44E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
117	599586	4176378	2.02E-04	5.45E-04	0.00E+00	2.02E-04	5.45E-04	0.00E+00	3.29E-05	8.24E-05	0.00E+00	1.72E-05	3.14E-05	0.00E+00
118	599595.3	4176379	2.00E-04	5.38E-04	0.00E+00	2.00E-04	5.38E-04	0.00E+00	3.25E-05	8.14E-05	0.00E+00	1.70E-05	3.10E-05	0.00E+00
119	599604.6	4176381	2.00E-04	5.39E-04	0.00E+00	2.00E-04	5.39E-04	0.00E+00	3.25E-05	8.14E-05	0.00E+00	1.70E-05	3.10E-05	0.00E+00
120	599613.9	4176382	2.11E-04	5.68E-04	0.00E+00	2.11E-04	5.68E-04	0.00E+00	3.43E-05	8.60E-05	0.00E+00	1.79E-05	3.28E-05	0.00E+00
121	599623.2	4176383	2.23E-04	6.00E-04	0.00E+00	2.23E-04	6.00E-04	0.00E+00	3.62E-05	9.08E-05	0.00E+00	1.89E-05	3.46E-05	0.00E+00
122	599632.5	4176385	2.35E-04	6.33E-04	0.00E+00	2.35E-04	6.33E-04	0.00E+00	3.82E-05	9.58E-05	0.00E+00	1.99E-05	3.65E-05	0.00E+00
123	599641.7	4176386	2.53E-04	6.83E-04	0.00E+00	2.53E-04	6.83E-04	0.00E+00	4.12E-05	1.03E-04	0.00E+00	2.15E-05	3.93E-05	0.00E+00
124	599651	4176388	2.74E-04	7.40E-04	0.00E+00	2.74E-04	7.40E-04	0.00E+00	4.46E-05	1.12E-04	0.00E+00	2.33E-05	4.26E-05	0.00E+00
125	599660.3	4176389	2.98E-04	8.04E-04	0.00E+00	2.98E-04	8.04E-04	0.00E+00	4.85E-05	1.22E-04	0.00E+00	2.53E-05	4.64E-05	0.00E+00
126	599669.6	4176391	3.05E-04	8.23E-04	0.00E+00	3.05E-04	8.23E-04	0.00E+00	4.97E-05	1.25E-04	0.00E+00	2.59E-05	4.75E-05	0.00E+00
127	599547.3	4176381	2.55E-04	6.87E-04	0.00E+00	2.55E-04	6.87E-04	0.00E+00	4.15E-05	1.04E-04	0.00E+00	2.16E-05	3.96E-05	0.00E+00
128	599556.5	4176383	2.30E-04	6.20E-04	0.00E+00	2.30E-04	6.20E-04	0.00E+00	3.74E-05	9.38E-05	0.00E+00	1.95E-05	3.58E-05	0.00E+00
129	599565.8	4176384	2.14E-04	5.76E-04	0.00E+00	2.14E-04	5.76E-04	0.00E+00	3.48E-05	8.71E-05	0.00E+00	1.81E-05	3.32E-05	0.00E+00
130	599575.1	4176386	2.03E-04	5.47E-04	0.00E+00	2.03E-04	5.47E-04	0.00E+00	3.30E-05	8.27E-05	0.00E+00	1.72E-05	3.15E-05	0.00E+00
131	599584.4	4176387	1.96E-04	5.29E-04	0.00E+00	1.96E-04	5.29E-04	0.00E+00	3.19E-05	8.00E-05	0.00E+00	1.67E-05	3.05E-05	0.00E+00
132	599593.7	4176389	1.93E-04	5.19E-04	0.00E+00	1.93E-04	5.19E-04	0.00E+00	3.13E-05	7.85E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
133	599603	4176390	1.90E-04	5.13E-04	0.00E+00	1.90E-04	5.13E-04	0.00E+00	3.10E-05	7.76E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00
134	599612.3	4176392	2.03E-04	5.47E-04	0.00E+00	2.03E-04	5.47E-04	0.00E+00	3.30E-05	8.27E-05	0.00E+00	1.72E-05	3.15E-05	0.00E+00
135	599621.6	4176393	2.17E-04	5.86E-04	0.00E+00	2.17E-04	5.86E-04	0.00E+00	3.53E-05	8.86E-05	0.00E+00	1.84E-05	3.38E-05	0.00E+00
136	599630.9	4176395	2.33E-04	6.29E-04	0.00E+00	2.33E-04	6.29E-04	0.00E+00	3.80E-05	9.52E-05	0.00E+00	1.98E-05	3.63E-05	0.00E+00
137	599640.2	4176396	2.53E-04	6.82E-04	0.00E+00	2.53E-04	6.82E-04	0.00E+00	4.12E-05	1.03E-04	0.00E+00	2.15E-05	3.93E-05	0.00E+00
138	599649.5	4176398	2.75E-04	7.42E-04	0.00E+00	2.75E-04	7.42E-04	0.00E+00	4.48E-05	1.12E-04	0.00E+00	2.34E-05	4.28E-05	0.00E+00
139	599658.8	4176399	3.00E-04	8.10E-04	0.00E+00	3.00E-04	8.10E-04	0.00E+00	4.89E-05	1.23E-04	0.00E+00	2.55E-05	4.67E-05	0.00E+00
140	599668	4176401	3.09E-04	8.34E-04	0.00E+00	3.09E-04	8.34E-04	0.00E+00	5.03E-05	1.26E-04	0.00E+00	2.63E-05	4.80E-05	0.00E+00
141	599545.7	4176391	2.74E-04	7.39E-04	0.00E+00	2.74E-04	7.39E-04	0.00E+00	4.46E-05	1.12E-04	0.00E+00	2.33E-05	4.26E-05	0.00E+00
142	599555	4176393	2.39E-04	6.45E-04	0.00E+00	2.39E-04	6.45E-04	0.00E+00	3.89E-05	9.75E-05	0.00E+00	2.03E-05	3.72E-05	0.00E+00
143	599564.3	4176394	2.16E-04	5.82E-04	0.00E+00	2.16E-04	5.82E-04	0.00E+00	3.51E-05	8.80E-05	0.00E+00	1.83E-05	3.36E-05	0.00E+00
144	599573.5	4176396	2.00E-04	5.40E-04	0.00E+00	2.00E-04	5.40E-04	0.00E+00	3.26E-05	8.17E-05	0.00E+00	1.70E-05	3.11E-05	0.00E+00
145	599582.8	4176397	1.93E-04	5.19E-04	0.00E+00	1.93E-04	5.19E-04	0.00E+00	3.13E-05	7.85E-05	0.00E+00	1.64E-05	2.99E-05	0.00E+00
146	599592.1	4176399	1.87E-04	5.05E-04	0.00E+00	1.87E-04	5.05E-04	0.00E+00	3.05E-05	7.64E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
147	599601.4	4176400	1.84E-04	4.97E-04	0.00E+00	1.84E-04	4.97E-04	0.00E+00	3.00E-05	7.52E-05	0.00E+00	1.57E-05	2.87E-05	0.00E+00
148	599610.7	4176402	1.96E-04	5.28E-04	0.00E+00	1.96E-04	5.28E-04	0.00E+00	3.19E-05	7.99E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
149	599620	4176403	2.14E-04	5.77E-04	0.00E+00	2.14E-04	5.77E-04	0.00E+00	3.48E-05	8.72E-05	0.00E+00	1.82E-05	3.32E-05	0.00E+00
150	599629.3	4176405	2.35E-04	6.34E-04	0.00E+00	2.35E-04	6.34E-04	0.00E+00	3.83E-05	9.59E-05	0.00E+00	2.00E-05	3.66E-05	0.00E+00
151	599638.6	4176406	2.59E-04	6.97E-04	0.00E+00	2.59E-04	6.97E-04	0.00E+00	4.21E-05	1.05E-04	0.00E+00	2.20E-05	4.02E-05	0.00E+00
152	599647.9	4176408	2.80E-04	7.55E-04	0.00E+00	2.80E-04	7.55E-04	0.00E+00	4.55E-05	1.14E-04	0.00E+00	2.38E-05	4.35E-05	0.00E+00
153	599657.2	4176409	3.00E-04	8.08E-04	0.00E+00	3.00E-04	8.08E-04	0.00E+00	4.88E-05	1.22E-04	0.00E+00	2.54E-05	4.66E-05	0.00E+00
154	599666.5	4176411	3.04E-04	8.19E-04	0.00E+00	3.04E-04	8.19E-04	0.00E+00	4.94E-05	1.24E-04	0.00E+00	2.58E-05	4.72E-05	0.00E+00
155	599544.1	4176401	3.02E-04	8.14E-04	0.00E+00	3.02E-04	8.14E-04	0.00E+00	4.91E-05	1.23E-04	0.00E+00	2.56E-05	4.69E-05	0.00E+00
156	599553.4	4176403	2.54E-04	6.85E-04	0.00E+00	2.54E-04	6.85E-04	0.00E+00	4.13E-05	1.04E-04	0.00E+00	2.16E-05	3.95E-05	0.00E+00
157	599562.7	4176404	2.22E-04	5.99E-04	0.00E+00	2.22E-04	5.99E-04	0.00E+00	3.62E-05	9.06E-05	0.00E+00	1.89E-05	3.45E-05	0.00E+00
158	599572	4176406	2.01E-04	5.42E-04	0.00E+00	2.01E-04	5.42E-04	0.00E+00	3.27E-05	8.20E-05	0.00E+00	1.71E-05	3.13E-05	0.00E+00
159	599581.3	4176407	1.92E-04	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.13E-05	7.83E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
160	599590.6	4176409	1.88E-04	5.06E-04	0.00E+00	1.88E-04	5.06E-04	0.00E+00	3.05E-05	7.65E-05	0.00E+00	1.59E-05	2.92E-05	0.00E+00
161	599599.8	4176410	1.86E-04	5.01E-04	0.00E+00	1.86E-04	5.01E-04	0.00E+00	3.02E-05	7.57E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
162	599609.1	4176412	1.97E-04	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.05E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
163	599618.4	4176413	2.20E-04	5.92E-04	0.00E+00	2.20E-04	5.92E-04	0.00E+00	3.57E-05	8.95E-05	0.00E+00	1.86E-05	3.41E-05	0.00E+00
164	599627.7	4176415	2.45E-04	6.62E-04	0.00E+00	2.45E-04	6.62E-04	0.00E+00	3.99E-05	1.00E-04	0.00E+00	2.08E-05	3.81E-05	0.00E+00
165	599637	4176416	2.69E-04	7.25E-04	0.00E+00	2.69E-04	7.25E-04	0.00E+00	4.37E-05	1.10E-04	0.00E+00	2.28E-05	4.18E-05	0.00E+00
166	599646.3	4176418	2.81E-04	7.56E-04	0.00E+00	2.81E-04	7.56E-04	0.00E+00	4.56E-05	1.14E-04	0.00E+00	2.38E-05	4.36E-05	0.00E+00
167	599655.6	4176419	2.88E-04	7.76E-04	0.00E+00	2.88E-04	7.76E-04	0.00E+00	4.69E-05	1.17E-04	0.00E+00	2.45E-05	4.48E-05	0.00E+00
168	599664.9	4176421	2.87E-04	7.73E-04	0.00E+00	2.87E-04	7.73E-04	0.00E+00	4.66E-05	1.17E-04	0.00E+00	2.43E-05	4.46E-05	0.00E+00
169	599542.5	4176411	3.31E-04	8.93E-04	0.00E+00	3.31E-04	8.93E-04	0.00E+00	5.39E-05	1.35E-04	0.00E+00	2.81E-05	5.15E-05	0.00E+00
170	599551.8	4176413	2.77E-04	7.46E-04	0.00E+00	2.77E-04	7.46E-04	0.00E+00	4.50E-05	1.13E-04	0.00E+00	2.35E-05	4.30E-05	0.00E+00
171	599561.1	4176414	2.39E-04	6.45E-04	0.00E+00	2.39E-04	6.45E-04	0.00E+00	3.89E-05	9.75E-05	0.00E+00	2.03E-05	3.72E-05	0.00E+00
172	599570.4	4176416	2.15E-04	5.79E-04	0.00E+00	2.15E-04	5.79E-04	0.00E+00	3.49E-05	8.75E-05	0.00E+00	1.82E-05	3.34E-05	0.00E+00
173	599579.7	4176417	2.05E-04	5.52E-04	0.00E+00	2.05E-04	5.52E-04	0.00E+00	3.33E-05	8.35E-05	0.00E+00	1.74E-05	3.18E-05	0.00E+00
174	599589	4176419	2.02E-04	5.44E-04	0.00E+00	2.02E-04	5.44E-04	0.00E+00	3.28E-05	8.23E-05	0.00E+00	1.71E-05	3.14E-05	0.00E+00
175	599598.3	4176420	2.01E-04	5.42E-04	0.00E+00	2.01E-04	5.42E-04	0.00E+00	3.27E-05	8.20E-05	0.00E+00	1.71E-05	3.12E-05	0.00E+00
176	599607.6	4176421	2.11E-04	5.70E-04	0.00E+00	2.11E-04	5.70E-04	0.00E+00	3.44E-05	8.62E-05	0.00E+00	1.79E-05	3.28E-05	0.00E+00
177	599616.9	4176423	2.37E-04	6.39E-04	0.00E+00	2.37E-04	6.39E-04	0.00E+00	3.86E-05	9.66E-05	0.00E+00	2.01E-05	3.68E-05	0.00E+00
178	599626.1	4176424	2.66E-04	7.17E-04	0.00E+00	2.66E-04	7.17E-04	0.00E+00	4.33E-05	1.08E-04	0.00E+00	2.26E-05	4.13E-05	0.00E+00
179	599635.4	4176426	2.92E-04	7.88E-04	0.00E+00	2.92E-04	7.88E-04	0.00E+00	4.75E-05	1.19E-04	0.00E+00	2.48E-05	4.54E-05	0.00E+00

180	599644.7	4176427	2.89E-04	7.80E-04	0.00E+00	2.89E-04	7.80E-04	0.00E+00	4.71E-05	1.18E-04	0.00E+00	2.46E-05	4.50E-05	0.00E+00
181	599654	4176429	2.82E-04	7.62E-04	0.00E+00	2.82E-04	7.62E-04	0.00E+00	4.59E-05	1.15E-04	0.00E+00	2.40E-05	4.39E-05	0.00E+00
182	599663.3	4176430	2.72E-04	7.35E-04	0.00E+00	2.72E-04	7.35E-04	0.00E+00	4.43E-05	1.11E-04	0.00E+00	2.31E-05	4.23E-05	0.00E+00
183	599540.9	4176421	3.57E-04	9.63E-04	0.00E+00	3.57E-04	9.63E-04	0.00E+00	5.81E-05	1.46E-04	0.00E+00	3.03E-05	5.55E-05	0.00E+00
184	599550.2	4176422	3.04E-04	8.20E-04	0.00E+00	3.04E-04	8.20E-04	0.00E+00	4.95E-05	1.24E-04	0.00E+00	2.58E-05	4.73E-05	0.00E+00
185	599559.5	4176424	2.64E-04	7.10E-04	0.00E+00	2.64E-04	7.10E-04	0.00E+00	4.29E-05	1.07E-04	0.00E+00	2.24E-05	4.09E-05	0.00E+00
186	599568.8	4176425	2.35E-04	6.34E-04	0.00E+00	2.35E-04	6.34E-04	0.00E+00	3.82E-05	9.58E-05	0.00E+00	2.00E-05	3.65E-05	0.00E+00
187	599578.1	4176427	2.24E-04	6.03E-04	0.00E+00	2.24E-04	6.03E-04	0.00E+00	3.64E-05	9.11E-05	0.00E+00	1.90E-05	3.47E-05	0.00E+00
188	599587.4	4176428	2.25E-04	6.05E-04	0.00E+00	2.25E-04	6.05E-04	0.00E+00	3.65E-05	9.15E-05	0.00E+00	1.91E-05	3.49E-05	0.00E+00
189	599596.7	4176430	2.28E-04	6.14E-04	0.00E+00	2.28E-04	6.14E-04	0.00E+00	3.71E-05	9.29E-05	0.00E+00	1.93E-05	3.54E-05	0.00E+00
190	599606	4176431	2.39E-04	6.44E-04	0.00E+00	2.39E-04	6.44E-04	0.00E+00	3.89E-05	9.74E-05	0.00E+00	2.03E-05	3.71E-05	0.00E+00
191	599615.3	4176433	2.69E-04	7.25E-04	0.00E+00	2.69E-04	7.25E-04	0.00E+00	4.38E-05	1.10E-04	0.00E+00	2.28E-05	4.18E-05	0.00E+00
192	599624.6	4176434	3.02E-04	8.14E-04	0.00E+00	3.02E-04	8.14E-04	0.00E+00	4.91E-05	1.23E-04	0.00E+00	2.57E-05	4.69E-05	0.00E+00
193	599633.9	4176436	3.36E-04	9.06E-04	0.00E+00	3.36E-04	9.06E-04	0.00E+00	5.47E-05	1.37E-04	0.00E+00	2.85E-05	5.22E-05	0.00E+00
194	599643.1	4176437	3.05E-04	8.22E-04	0.00E+00	3.05E-04	8.22E-04	0.00E+00	4.96E-05	1.24E-04	0.00E+00	2.59E-05	4.74E-05	0.00E+00
195	599652.4	4176439	2.78E-04	7.49E-04	0.00E+00	2.78E-04	7.49E-04	0.00E+00	4.52E-05	1.13E-04	0.00E+00	2.36E-05	4.32E-05	0.00E+00
196	599661.7	4176440	2.55E-04	6.88E-04	0.00E+00	2.55E-04	6.88E-04	0.00E+00	4.15E-05	1.04E-04	0.00E+00	2.17E-05	3.97E-05	0.00E+00
197	599539.4	4176431	3.81E-04	1.03E-03	0.00E+00	3.81E-04	1.03E-03	0.00E+00	6.19E-05	1.55E-04	0.00E+00	3.23E-05	5.92E-05	0.00E+00
198	599548.7	4176432	3.33E-04	8.98E-04	0.00E+00	3.33E-04	8.98E-04	0.00E+00	5.42E-05	1.36E-04	0.00E+00	2.83E-05	5.18E-05	0.00E+00
199	599557.9	4176434	2.93E-04	7.90E-04	0.00E+00	2.93E-04	7.90E-04	0.00E+00	4.77E-05	1.20E-04	0.00E+00	2.49E-05	4.56E-05	0.00E+00
200	599567.2	4176435	2.63E-04	7.08E-04	0.00E+00	2.63E-04	7.08E-04	0.00E+00	4.27E-05	1.07E-04	0.00E+00	2.23E-05	4.08E-05	0.00E+00
201	599576.5	4176437	2.51E-04	6.77E-04	0.00E+00	2.51E-04	6.77E-04	0.00E+00	4.08E-05	1.02E-04	0.00E+00	2.13E-05	3.90E-05	0.00E+00
202	599585.8	4176438	2.61E-04	7.05E-04	0.00E+00	2.61E-04	7.05E-04	0.00E+00	4.25E-05	1.07E-04	0.00E+00	2.22E-05	4.06E-05	0.00E+00
203	599595.1	4176440	2.71E-04	7.30E-04	0.00E+00	2.71E-04	7.30E-04	0.00E+00	4.41E-05	1.10E-04	0.00E+00	2.30E-05	4.21E-05	0.00E+00
204	599604.4	4176441	2.81E-04	7.58E-04	0.00E+00	2.81E-04	7.58E-04	0.00E+00	4.57E-05	1.15E-04	0.00E+00	2.39E-05	4.37E-05	0.00E+00
205	599613.7	4176443	3.04E-04	8.20E-04	0.00E+00	3.04E-04	8.20E-04	0.00E+00	4.95E-05	1.24E-04	0.00E+00	2.58E-05	4.73E-05	0.00E+00
206	599623	4176444	3.23E-04	8.71E-04	0.00E+00	3.23E-04	8.71E-04	0.00E+00	5.25E-05	1.32E-04	0.00E+00	2.74E-05	5.02E-05	0.00E+00
207	599632.3	4176446	3.36E-04	9.07E-04	0.00E+00	3.36E-04	9.07E-04	0.00E+00	5.47E-05	1.37E-04	0.00E+00	2.86E-05	5.23E-05	0.00E+00
208	599641.6	4176447	3.00E-04	8.10E-04	0.00E+00	3.00E-04	8.10E-04	0.00E+00	4.89E-05	1.22E-04	0.00E+00	2.55E-05	4.67E-05	0.00E+00
209	599650.9	4176449	2.65E-04	7.14E-04	0.00E+00	2.65E-04	7.14E-04	0.00E+00	4.31E-05	1.08E-04	0.00E+00	2.25E-05	4.11E-05	0.00E+00
210	599536.2	4176451	4.29E-04	1.16E-03	0.00E+00	4.29E-04	1.16E-03	0.00E+00	6.98E-05	1.75E-04	0.00E+00	3.64E-05	6.67E-05	0.00E+00
211	599629.1	4176465	3.54E-04	9.56E-04	0.00E+00	3.54E-04	9.56E-04	0.00E+00	5.77E-05	1.44E-04	0.00E+00	3.01E-05	5.51E-05	0.00E+00
212	599638.4	4176467	3.03E-04	8.16E-04	0.00E+00	3.03E-04	8.16E-04	0.00E+00	4.92E-05	1.23E-04	0.00E+00	2.57E-05	4.70E-05	0.00E+00
213	599626	4176485	2.69E-04	7.26E-04	0.00E+00	2.69E-04	7.26E-04	0.00E+00	4.38E-05	1.10E-04	0.00E+00	2.29E-05	4.18E-05	0.00E+00
214	599567.1	4176496	2.99E-04	8.05E-04	0.00E+00	2.99E-04	8.05E-04	0.00E+00	4.86E-05	1.22E-04	0.00E+00	2.54E-05	4.64E-05	0.00E+00
215	599576.4	4176498	2.62E-04	7.07E-04	0.00E+00	2.62E-04	7.07E-04	0.00E+00	4.27E-05	1.07E-04	0.00E+00	2.23E-05	4.08E-05	0.00E+00
216	599585.6	4176499	2.40E-04	6.47E-04	0.00E+00	2.40E-04	6.47E-04	0.00E+00	3.90E-05	9.78E-05	0.00E+00	2.04E-05	3.73E-05	0.00E+00
217	599594.9	4176500	2.18E-04	5.88E-04	0.00E+00	2.18E-04	5.88E-04	0.00E+00	3.55E-05	8.89E-05	0.00E+00	1.85E-05	3.39E-05	0.00E+00
218	599604.2	4176502	1.99E-04	5.37E-04	0.00E+00	1.99E-04	5.37E-04	0.00E+00	3.24E-05	8.12E-05	0.00E+00	1.69E-05	3.10E-05	0.00E+00
219	599613.5	4176503	1.95E-04	5.25E-04	0.00E+00	1.95E-04	5.25E-04	0.00E+00	3.17E-05	7.93E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
220	599622.8	4176505	1.88E-04	5.08E-04	0.00E+00	1.88E-04	5.08E-04	0.00E+00	3.06E-05	7.68E-05	0.00E+00	1.60E-05	2.93E-05	0.00E+00
221	599526.7	4176510	3.79E-04	1.02E-03	0.00E+00	3.79E-04	1.02E-03	0.00E+00	6.16E-05	1.54E-04	0.00E+00	3.21E-05	5.88E-05	0.00E+00
222	599536	4176511	3.73E-04	1.01E-03	0.00E+00	3.73E-04	1.01E-03	0.00E+00	6.07E-05	1.52E-04	0.00E+00	3.17E-05	5.80E-05	0.00E+00
223	599545.3	4176513	3.64E-04	9.80E-04	0.00E+00	3.64E-04	9.80E-04	0.00E+00	5.92E-05	1.48E-04	0.00E+00	3.09E-05	5.65E-05	0.00E+00
224	599554.6	4176514	3.30E-04	8.91E-04	0.00E+00	3.30E-04	8.91E-04	0.00E+00	5.37E-05	1.35E-04	0.00E+00	2.81E-05	5.13E-05	0.00E+00
225	599563.9	4176516	2.93E-04	7.89E-04	0.00E+00	2.93E-04	7.89E-04	0.00E+00	4.76E-05	1.19E-04	0.00E+00	2.49E-05	4.55E-05	0.00E+00
226	599573.2	4176517	2.54E-04	6.85E-04	0.00E+00	2.54E-04	6.85E-04	0.00E+00	4.13E-05	1.04E-04	0.00E+00	2.16E-05	3.95E-05	0.00E+00
227	599582.5	4176519	2.18E-04	5.89E-04	0.00E+00	2.18E-04	5.89E-04	0.00E+00	3.55E-05	8.91E-05	0.00E+00	1.86E-05	3.39E-05	0.00E+00
228	599591.8	4176520	1.87E-04	5.05E-04	0.00E+00	1.87E-04	5.05E-04	0.00E+00	3.05E-05	7.64E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
229	599601.1	4176522	1.63E-04	4.38E-04	0.00E+00	1.63E-04	4.38E-04	0.00E+00	2.65E-05	6.63E-05	0.00E+00	1.38E-05	2.53E-05	0.00E+00
230	599610.4	4176523	1.48E-04	3.98E-04	0.00E+00	1.48E-04	3.98E-04	0.00E+00	2.40E-05	6.02E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
231	599619.7	4176525	1.36E-04	3.68E-04	0.00E+00	1.36E-04	3.68E-04	0.00E+00	2.22E-05	5.56E-05	0.00E+00	1.16E-05	2.12E-05	0.00E+00
232	599628.9	4176526	1.27E-04	3.44E-04	0.00E+00	1.27E-04	3.44E-04	0.00E+00	2.07E-05	5.19E-05	0.00E+00	1.08E-05	1.98E-05	0.00E+00
233	599523.6	4176530	3.49E-04	9.42E-04	0.00E+00	3.49E-04	9.42E-04	0.00E+00	5.68E-05	1.42E-04	0.00E+00	2.97E-05	5.43E-05	0.00E+00
234	599532.9	4176531	3.47E-04	9.36E-04	0.00E+00	3.47E-04	9.36E-04	0.00E+00	5.65E-05	1.42E-04	0.00E+00	2.95E-05	5.39E-05	0.00E+00
235	599542.2	4176533	3.46E-04	9.33E-04	0.00E+00	3.46E-04	9.33E-04	0.00E+00	5.63E-05	1.41E-04	0.00E+00	2.94E-05	5.38E-05	0.00E+00
236	599551.5	4176534	3.29E-04	8.88E-04	0.00E+00	3.29E-04	8.88E-04	0.00E+00	5.36E-05	1.34E-04	0.00E+00	2.80E-05	5.12E-05	0.00E+00
237	599560.8	4176536	3.10E-04	8.35E-04	0.00E+00	3.10E-04	8.35E-04	0.00E+00	5.04E-05	1.26E-04	0.00E+00	2.63E-05	4.81E-05	0.00E+00
238	599570	4176537	2.92E-04	7.86E-04	0.00E+00	2.92E-04	7.86E-04	0.00E+00	4.74E-05	1.19E-04	0.00E+00	2.48E-05	4.53E-05	0.00E+00
239	599579.3	4176539	2.63E-04	7.08E-04	0.00E+00	2.63E-04	7.08E-04	0.00E+00	4.27E-05	1.07E-04	0.00E+00	2.23E-05	4.08E-05	0.00E+00
240	599588.6	4176540	2.26E-04	6.09E-04	0.00E+00	2.26E-04	6.09E-04	0.00E+00	3.68E-05	9.22E-05	0.00E+00	1.92E-05	3.51E-05	0.00E+00
241	599597.9	4176541	1.93E-04	5.22E-04	0.00E+00	1.93E-04	5.22E-04	0.00E+00	3.15E-05	7.89E-05	0.00E+00	1.64E-05	3.01E-05	0.00E+00
242	599607.2	4176543	1.67E-04	4.51E-04	0.00E+00	1.67E-04	4.51E-04	0.00E+00	2.72E-05	6.82E-05	0.00E+00	1.42E-05	2.60E-05	0.00E+00
243	599616.5	4176544	1.47E-04	3.98E-04	0.00E+00	1.47E-04	3.98E-04	0.00E+00	2.40E-05	6.01E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
244	599625.8	4176546	1.32E-04	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.39E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
245	599635.1	4176547	1.21E-04	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.94E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
246	599515.6	4176549	3.22E-04	8.69E-04	0.00E+00	3.22E-04	8.69E-04	0.00E+00	5.24E-05	1.31E-04	0.00E+00	2.74E-05	5.01E-05	0.00E+00
247	599529.7	4176551	3.25E-04	8.76E-04	0.00E+00	3.25E-04	8.76E-04	0.00E+00	5.28E-05	1.32E-04	0.00E+00	2.76E-05	5.05E-05	0.00E+00
248	599539	4176552	3.28E-04	8.83E-04	0.00E+00	3.28E-04	8.83E-04	0.00E+00	5.33E-05	1.34E-04	0.00E+00	2.78E-05	5.09E-05	0.00E+00
249	599548.3	4176554	3.28E-04	8.84E-04	0.00E+00	3.28E-04	8.84E-04	0.00E+00	5.33E-05	1.34E-04	0.00E+00	2.78E-05	5.09E-05	0.00E+00
250	599557.6	4176555	3.26E-04	8.80E-04	0.00E+00	3.26E-04	8.80E-04	0.00E+00	5.31E-05	1.33E-04	0.00E+00	2.77E-05	5.07E-05	0.00E+00
251	599566.9	4176557	3.26E-04	8.78E-04	0.00E+00	3.26E-04	8.78E-04	0.00E+00	5.30E-05	1.33E-04	0.00E+00	2.76E-05	5.06E-05	0.00E+00
252	599576.2	4176558	3.17E-04	8.56E-04	0.00E+00	3.17E-04	8.56E-04	0.00E+00	5.16E-05	1.29E-04	0.00E+00	2.70E-05	4.93E-05	0.00E+00
253	599585.5	4176560	2.87E-04	7.74E-04	0.00E+00	2.87E-04	7.74E-04	0.00E+00	4.67E-05	1.17E-04	0.00E+00	2.44E-05	4.46E-05	0.00E+00
254	599594.8	4176561	2.55E-04	6.87E-04	0.00E+00	2.55E-04	6.87E-04	0.00E+00	4.14E-05	1.04E-04	0.00E+00	2.16E-05	3.96E-05	0.00E+00
255	599604.1	4176563	2.24E-04	6.03E-04	0.00E+00	2.24E-04	6.03E-04	0.00E+00	3.64E-05	9.11E-05	0.00E+00	1.90E-05	3.47E-05	0.00E+00
256	599613.3	4176564	1.88E-04	5.06E-04	0.00E+00	1.88E-04	5.06E-04	0.00E+00	3.05E-05	7.65E-05	0.00E+00	1.59E-05	2.92E-05	0.00E+00
257	599622.6	4176566	1.59E-04	4.30E-04	0.00E+00	1.59E-04	4.30E-04	0.00E+00	2.59E-05	6.50E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
258	599631.9	4176567	1.39E-04	3.74E-04	0.00E+00	1.39E-04	3.74E-04	0.00E+00	2.26E-05	5.66E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
259	599641.2	4176569	1.28E-04	3.44E-04	0.00E+00	1.28E-04	3.44E-04	0.00E+00	2.07E-05	5.20E-05	0.00E+00	1.08E-05	1.98E-05	0.00E+00
260	599512.2	4176568	2.99E-04	8.07E-04	0.00E+00	2.99E-04	8.07E-04	0.00E+00	4.87E-05	1.22E-04	0.00E+00	2.54E-05	4.65E-05	0.00E+00
261	599526.6	4176571	3.01E-04	8.12E-04	0.00E+00	3.01E-04	8.12E-04	0.00E+00	4.90E-05	1.23E-04	0.00E+00	2.56E-05	4.68E-05	0.00E+00
262	599535.9	4176572	3.02E-04	8.15E-04	0.00E+00	3.02E-04	8.15E-04	0.00E+00	4.92E-05	1.23E-04	0.00E+00	2.57E-05	4.70E-05	0.00E+00
263	599545.1	4176574	3.04E-04	8.18E-04	0.00E+00	3.04E-04	8.18E-04	0.00E+00	4.94E-05	1.24E-04	0.00E+00	2.58E-05	4.72E-05	0.00E+00
264	599554.4	4176575	3.05E-04	8.21E-04	0.00E+00	3.05E-04	8.21E-04	0.00E+00	4.96E-05	1.24E-04	0.00E+00	2.59E-05	4.73E-05	0.00E+00
265	599563.7	4176577	3.07E-04	8.26E-04	0.00E+00	3.07E-04	8.26E-04	0.00E+00	4.99E-05	1.25E-04	0.00E+00	2.60E-05	4.76E-05	0.00E+00
266	599573	4176578	3.09E-04	8.33E-04	0.00E+00	3.09E-04	8.33E-04	0.00E+00	5.03E-05	1.26E-04	0.00E+00	2.62E-05	4.80E-05	0.00E+00
267	599582.3	4176579	3.00E-04	8.08E-04	0.00E+00	3.00E-04	8.08E-04	0.00E+00	4.88E-05	1.22E-04	0.00E+00	2.55E-05	4.66E-05	0.00E+00
268	599591.6	4176581	2.90E-04	7.81E-04	0.00E+00	2.90E-04	7.81E-04	0.00E+00	4.71E-05	1.18E-04	0.00E+00	2.46E-05	4.50E-05	0.00E+00
269	599600.9	4176582	2.81E-04	7.56E-04	0.00E+00	2.81E-04	7.56E-04	0.00E+00	4.56E-05	1.14E-04	0.00E+00	2.38E-05	4.36E-05	0.00E+00
270	599610.2	4176584	2.57E-04	6.92E-04	0.00E+00	2.57E-04	6.92E-04	0.00E+00	4.18E-05	1.05E-04	0.00E+00	2.18E-05	3.99E-05	0.00E+00

271	599619.5	4176585	2.24E-04	6.04E-04	0.00E+00	2.24E-04	6.04E-04	0.00E+00	3.65E-05	9.14E-05	0.00E+00	1.90E-05	3.48E-05	0.00E+00
272	599628.8	4176587	1.93E-04	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.87E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
273	599638.1	4176588	1.69E-04	4.54E-04	0.00E+00	1.69E-04	4.54E-04	0.00E+00	2.74E-05	6.87E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
274	599508.8	4176588	2.82E-04	7.60E-04	0.00E+00	2.82E-04	7.60E-04	0.00E+00	4.58E-05	1.15E-04	0.00E+00	2.39E-05	4.38E-05	0.00E+00
275	599523.4	4176590	2.79E-04	7.51E-04	0.00E+00	2.79E-04	7.51E-04	0.00E+00	4.53E-05	1.14E-04	0.00E+00	2.37E-05	4.33E-05	0.00E+00
276	599532.7	4176592	2.78E-04	7.49E-04	0.00E+00	2.78E-04	7.49E-04	0.00E+00	4.52E-05	1.13E-04	0.00E+00	2.36E-05	4.31E-05	0.00E+00
277	599542	4176593	2.76E-04	7.45E-04	0.00E+00	2.76E-04	7.45E-04	0.00E+00	4.50E-05	1.13E-04	0.00E+00	2.35E-05	4.30E-05	0.00E+00
278	599551.3	4176595	2.79E-04	7.53E-04	0.00E+00	2.79E-04	7.53E-04	0.00E+00	4.54E-05	1.14E-04	0.00E+00	2.37E-05	4.34E-05	0.00E+00
279	599560.6	4176596	2.83E-04	7.62E-04	0.00E+00	2.83E-04	7.62E-04	0.00E+00	4.60E-05	1.15E-04	0.00E+00	2.40E-05	4.39E-05	0.00E+00
280	599569.9	4176598	2.87E-04	7.73E-04	0.00E+00	2.87E-04	7.73E-04	0.00E+00	4.66E-05	1.17E-04	0.00E+00	2.43E-05	4.45E-05	0.00E+00
281	599579.2	4176599	2.87E-04	7.74E-04	0.00E+00	2.87E-04	7.74E-04	0.00E+00	4.67E-05	1.17E-04	0.00E+00	2.44E-05	4.46E-05	0.00E+00
282	599588.5	4176601	2.86E-04	7.70E-04	0.00E+00	2.86E-04	7.70E-04	0.00E+00	4.65E-05	1.16E-04	0.00E+00	2.42E-05	4.44E-05	0.00E+00
283	599597.7	4176602	2.85E-04	7.68E-04	0.00E+00	2.85E-04	7.68E-04	0.00E+00	4.64E-05	1.16E-04	0.00E+00	2.42E-05	4.43E-05	0.00E+00
284	599607	4176604	2.80E-04	7.55E-04	0.00E+00	2.80E-04	7.55E-04	0.00E+00	4.56E-05	1.14E-04	0.00E+00	2.38E-05	4.35E-05	0.00E+00
285	599616.3	4176605	2.65E-04	7.15E-04	0.00E+00	2.65E-04	7.15E-04	0.00E+00	4.31E-05	1.08E-04	0.00E+00	2.25E-05	4.12E-05	0.00E+00
286	599625.6	4176607	2.50E-04	6.74E-04	0.00E+00	2.50E-04	6.74E-04	0.00E+00	4.07E-05	1.02E-04	0.00E+00	2.12E-05	3.88E-05	0.00E+00
287	599634.9	4176608	2.34E-04	6.30E-04	0.00E+00	2.34E-04	6.30E-04	0.00E+00	3.80E-05	9.53E-05	0.00E+00	1.98E-05	3.63E-05	0.00E+00
288	599520.3	4176610	2.55E-04	6.89E-04	0.00E+00	2.55E-04	6.89E-04	0.00E+00	4.15E-05	1.04E-04	0.00E+00	2.17E-05	3.97E-05	0.00E+00
289	599529.5	4176612	2.52E-04	6.80E-04	0.00E+00	2.52E-04	6.80E-04	0.00E+00	4.10E-05	1.03E-04	0.00E+00	2.14E-05	3.92E-05	0.00E+00
290	599538.8	4176613	2.49E-04	6.72E-04	0.00E+00	2.49E-04	6.72E-04	0.00E+00	4.05E-05	1.02E-04	0.00E+00	2.12E-05	3.87E-05	0.00E+00
291	599548.1	4176615	2.50E-04	6.74E-04	0.00E+00	2.50E-04	6.74E-04	0.00E+00	4.07E-05	1.02E-04	0.00E+00	2.12E-05	3.89E-05	0.00E+00
292	599557.4	4176616	2.56E-04	6.90E-04	0.00E+00	2.56E-04	6.90E-04	0.00E+00	4.16E-05	1.04E-04	0.00E+00	2.17E-05	3.97E-05	0.00E+00
293	599566.7	4176618	2.60E-04	7.02E-04	0.00E+00	2.60E-04	7.02E-04	0.00E+00	4.24E-05	1.06E-04	0.00E+00	2.21E-05	4.05E-05	0.00E+00
294	599576	4176619	2.64E-04	7.12E-04	0.00E+00	2.64E-04	7.12E-04	0.00E+00	4.30E-05	1.08E-04	0.00E+00	2.24E-05	4.11E-05	0.00E+00
295	599585.3	4176620	2.67E-04	7.21E-04	0.00E+00	2.67E-04	7.21E-04	0.00E+00	4.35E-05	1.09E-04	0.00E+00	2.27E-05	4.15E-05	0.00E+00
296	599594.6	4176622	2.71E-04	7.31E-04	0.00E+00	2.71E-04	7.31E-04	0.00E+00	4.41E-05	1.10E-04	0.00E+00	2.30E-05	4.21E-05	0.00E+00
297	599603.9	4176623	2.75E-04	7.41E-04	0.00E+00	2.75E-04	7.41E-04	0.00E+00	4.47E-05	1.12E-04	0.00E+00	2.33E-05	4.27E-05	0.00E+00
298	599613.2	4176625	2.70E-04	7.28E-04	0.00E+00	2.70E-04	7.28E-04	0.00E+00	4.39E-05	1.10E-04	0.00E+00	2.29E-05	4.20E-05	0.00E+00
299	599622.5	4176626	2.66E-04	7.17E-04	0.00E+00	2.66E-04	7.17E-04	0.00E+00	4.33E-05	1.08E-04	0.00E+00	2.26E-05	4.13E-05	0.00E+00
300	599631.8	4176628	2.63E-04	7.08E-04	0.00E+00	2.63E-04	7.08E-04	0.00E+00	4.27E-05	1.07E-04	0.00E+00	2.23E-05	4.08E-05	0.00E+00
301	599526.4	4176631	2.31E-04	6.24E-04	0.00E+00	2.31E-04	6.24E-04	0.00E+00	3.76E-05	9.43E-05	0.00E+00	1.96E-05	3.59E-05	0.00E+00
302	599535.7	4176633	2.23E-04	6.00E-04	0.00E+00	2.23E-04	6.00E-04	0.00E+00	3.62E-05	9.08E-05	0.00E+00	1.89E-05	3.46E-05	0.00E+00
303	599545	4176634	2.15E-04	5.79E-04	0.00E+00	2.15E-04	5.79E-04	0.00E+00	3.50E-05	8.76E-05	0.00E+00	1.82E-05	3.34E-05	0.00E+00
304	599554.3	4176636	2.19E-04	5.89E-04	0.00E+00	2.19E-04	5.89E-04	0.00E+00	3.55E-05	8.91E-05	0.00E+00	1.86E-05	3.40E-05	0.00E+00
305	599563.6	4176637	2.22E-04	5.98E-04	0.00E+00	2.22E-04	5.98E-04	0.00E+00	3.61E-05	9.04E-05	0.00E+00	1.88E-05	3.45E-05	0.00E+00
306	599572.8	4176639	2.25E-04	6.06E-04	0.00E+00	2.25E-04	6.06E-04	0.00E+00	3.66E-05	9.17E-05	0.00E+00	1.91E-05	3.49E-05	0.00E+00
307	599582.1	4176640	2.34E-04	6.30E-04	0.00E+00	2.34E-04	6.30E-04	0.00E+00	3.80E-05	9.52E-05	0.00E+00	1.98E-05	3.63E-05	0.00E+00
308	599591.4	4176642	2.43E-04	6.55E-04	0.00E+00	2.43E-04	6.55E-04	0.00E+00	3.95E-05	9.90E-05	0.00E+00	2.06E-05	3.77E-05	0.00E+00
309	599600.7	4176643	2.52E-04	6.78E-04	0.00E+00	2.52E-04	6.78E-04	0.00E+00	4.09E-05	1.03E-04	0.00E+00	2.14E-05	3.91E-05	0.00E+00
310	599610	4176645	2.56E-04	6.90E-04	0.00E+00	2.56E-04	6.90E-04	0.00E+00	4.16E-05	1.04E-04	0.00E+00	2.17E-05	3.97E-05	0.00E+00
311	599619.3	4176646	2.58E-04	6.97E-04	0.00E+00	2.58E-04	6.97E-04	0.00E+00	4.20E-05	1.05E-04	0.00E+00	2.19E-05	4.02E-05	0.00E+00
312	599628.6	4176648	2.61E-04	7.03E-04	0.00E+00	2.61E-04	7.03E-04	0.00E+00	4.24E-05	1.06E-04	0.00E+00	2.21E-05	4.05E-05	0.00E+00
313	599532.5	4176653	2.05E-04	5.53E-04	0.00E+00	2.05E-04	5.53E-04	0.00E+00	3.34E-05	8.36E-05	0.00E+00	1.74E-05	3.19E-05	0.00E+00
314	599541.8	4176654	1.94E-04	5.22E-04	0.00E+00	1.94E-04	5.22E-04	0.00E+00	3.15E-05	7.89E-05	0.00E+00	1.64E-05	3.01E-05	0.00E+00
315	599551.1	4176656	1.92E-04	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.13E-05	7.83E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
316	599560.4	4176657	1.92E-04	5.19E-04	0.00E+00	1.92E-04	5.19E-04	0.00E+00	3.13E-05	7.84E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
317	599569.7	4176658	1.92E-04	5.17E-04	0.00E+00	1.92E-04	5.17E-04	0.00E+00	3.12E-05	7.81E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
318	599579	4176660	1.97E-04	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.05E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
319	599588.3	4176661	2.07E-04	5.59E-04	0.00E+00	2.07E-04	5.59E-04	0.00E+00	3.38E-05	8.46E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
320	599597.6	4176663	2.17E-04	5.84E-04	0.00E+00	2.17E-04	5.84E-04	0.00E+00	3.52E-05	8.83E-05	0.00E+00	1.84E-05	3.37E-05	0.00E+00
321	599606.9	4176664	2.24E-04	6.05E-04	0.00E+00	2.24E-04	6.05E-04	0.00E+00	3.65E-05	9.15E-05	0.00E+00	1.90E-05	3.49E-05	0.00E+00
322	599616.2	4176666	2.31E-04	6.23E-04	0.00E+00	2.31E-04	6.23E-04	0.00E+00	3.76E-05	9.42E-05	0.00E+00	1.96E-05	3.59E-05	0.00E+00
323	599625.4	4176667	2.38E-04	6.41E-04	0.00E+00	2.38E-04	6.41E-04	0.00E+00	3.87E-05	9.69E-05	0.00E+00	2.02E-05	3.69E-05	0.00E+00
324	599548	4176675	1.80E-04	4.85E-04	0.00E+00	1.80E-04	4.85E-04	0.00E+00	2.93E-05	7.34E-05	0.00E+00	1.53E-05	2.80E-05	0.00E+00
325	599557.2	4176677	1.75E-04	4.72E-04	0.00E+00	1.75E-04	4.72E-04	0.00E+00	2.85E-05	7.14E-05	0.00E+00	1.49E-05	2.72E-05	0.00E+00
326	599566.5	4176678	1.71E-04	4.62E-04	0.00E+00	1.71E-04	4.62E-04	0.00E+00	2.79E-05	6.99E-05	0.00E+00	1.46E-05	2.66E-05	0.00E+00
327	599575.8	4176680	0.000171	4.62E-04	0.00E+00	1.71E-04	4.62E-04	0.00E+00	2.79E-05	6.99E-05	0.00E+00	1.46E-05	2.66E-05	0.00E+00
328	599585.1	4176681	0.000181	4.89E-04	0.00E+00	1.81E-04	4.89E-04	0.00E+00	2.95E-05	7.39E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
329	599594.4	4176683	0.00019	5.12E-04	0.00E+00	1.90E-04	5.12E-04	0.00E+00	3.09E-05	7.75E-05	0.00E+00	1.61E-05	2.95E-05	0.00E+00
330	599603.7	4176684	0.000197	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.05E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
331	599613	4176686	0.000205	5.54E-04	0.00E+00	2.05E-04	5.54E-04	0.00E+00	3.34E-05	8.37E-05	0.00E+00	1.74E-05	3.19E-05	0.00E+00
332	599622.3	4176687	0.000212	5.71E-04	0.00E+00	2.12E-04	5.71E-04	0.00E+00	3.44E-05	8.63E-05	0.00E+00	1.80E-05	3.29E-05	0.00E+00
333	599563.4	4176698	0.000181	4.88E-04	0.00E+00	1.81E-04	4.88E-04	0.00E+00	2.95E-05	7.38E-05	0.00E+00	1.54E-05	2.81E-05	0.00E+00
334	599572.7	4176699	0.00018	4.85E-04	0.00E+00	1.80E-04	4.85E-04	0.00E+00	2.92E-05	7.33E-05	0.00E+00	1.53E-05	2.79E-05	0.00E+00
335	599582	4176701	0.000183	4.92E-04	0.00E+00	1.83E-04	4.92E-04	0.00E+00	2.97E-05	7.45E-05	0.00E+00	1.55E-05	2.84E-05	0.00E+00
336	599591.3	4176702	0.000185	5.00E-04	0.00E+00	1.85E-04	5.00E-04	0.00E+00	3.02E-05	7.56E-05	0.00E+00	1.57E-05	2.88E-05	0.00E+00
337	599600.5	4176704	0.000187	5.05E-04	0.00E+00	1.87E-04	5.05E-04	0.00E+00	3.04E-05	7.63E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
338	599609.8	4176705	0.000188	5.08E-04	0.00E+00	1.88E-04	5.08E-04	0.00E+00	3.06E-05	7.68E-05	0.00E+00	1.60E-05	2.93E-05	0.00E+00
339	599619.1	4176707	0.000189	5.09E-04	0.00E+00	1.89E-04	5.09E-04	0.00E+00	3.07E-05	7.70E-05	0.00E+00	1.60E-05	2.93E-05	0.00E+00
340	599597.4	4176724	0.000179	4.83E-04	0.00E+00	1.79E-04	4.83E-04	0.00E+00	2.91E-05	7.30E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
341	599606.7	4176725	0.000178	4.80E-04	0.00E+00	1.78E-04	4.80E-04	0.00E+00	2.89E-05	7.25E-05	0.00E+00	1.51E-05	2.76E-05	0.00E+00
342	599616	4176727	0.000175	4.73E-04	0.00E+00	1.75E-04	4.73E-04	0.00E+00	2.85E-05	7.15E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
343	599706.8	4176314	0.000349	9.41E-04	0.00E+00	3.49E-04	9.41E-04	0.00E+00	5.68E-05	1.42E-04	0.00E+00	2.96E-05	5.42E-05	0.00E+00
344	599698.1	4176317	0.000352	9.49E-04	0.00E+00	3.52E-04	9.49E-04	0.00E+00	5.72E-05	1.43E-04	0.00E+00	2.99E-05	5.47E-05	0.00E+00
345	599689.4	4176319	0.000353	9.52E-04	0.00E+00	3.53E-04	9.52E-04	0.00E+00	5.75E-05	1.44E-04	0.00E+00	3.00E-05	5.49E-05	0.00E+00
346	599705.1	4176324	0.00033	8.90E-04	0.00E+00	3.30E-04	8.90E-04	0.00E+00	5.37E-05	1.35E-04	0.00E+00	2.80E-05	5.13E-05	0.00E+00
347	599696.5	4176327	0.000331	8.93E-04	0.00E+00	3.31E-04	8.93E-04	0.00E+00	5.39E-05	1.35E-04	0.00E+00	2.81E-05	5.14E-05	0.00E+00
348	599687.8	4176329	0.000335	9.04E-04	0.00E+00	3.35E-04	9.04E-04	0.00E+00	5.46E-05	1.37E-04	0.00E+00	2.85E-05	5.21E-05	0.00E+00
349	599694.8	4176336	0.000321	8.64E-04	0.00E+00	3.21E-04	8.64E-04	0.00E+00	5.21E-05	1.31E-04	0.00E+00	2.72E-05	4.98E-05	0.00E+00
350	599701.8	4176344	0.000309	8.32E-04	0.00E+00	3.09E-04	8.32E-04	0.00E+00	5.02E-05	1.26E-04	0.00E+00	2.62E-05	4.79E-05	0.00E+00
351	599684.6	4176349	0.00031	8.36E-04	0.00E+00	3.10E-04	8.36E-04	0.00E+00	5.04E-05	1.26E-04	0.00E+00	2.63E-05	4.82E-05	0.00E+00
352	599700.2	4176354	0.000304	8.20E-04	0.00E+00	3.04E-04	8.20E-04	0.00E+00	4.95E-05	1.24E-04	0.00E+00	2.58E-05	4.73E-05	0.00E+00
353	599707.2	4176361	0.000297	8.00E-04	0.00E+00	2.97E-04	8.00E-04	0.00E+00	4.83E-05	1.21E-04	0.00E+00	2.52E-05	4.61E-05	0.00E+00
354	599690	4176366	0.000308	8.32E-04	0.00E+00	3.08E-04	8.32E-04	0.00E+00	5.02E-05	1.26E-04	0.00E+00	2.62E-05	4.79E-05	0.00E+00
355	599707.1	4176371	0.000296	7.97E-04	0.00E+00	2.96E-04	7.97E-04	0.00E+00	4.81E-05	1.21E-04	0.00E+00	2.51E-05	4.60E-05	0.00E+00
356	599698.1	4176373	0.000306	8.25E-04	0.00E+00	3.06E-04	8.25E-04	0.00E+00	4.98E-05	1.25E-04	0.00E+00	2.60E-05	4.76E-05	0.00E+00
357	599689.1	4176376	0.000312	8.42E-04	0.00E+00	3.12E-04	8.42E-04	0.00E+00	5.08E-05	1.27E-04	0.00E+00	2.65E-05	4.85E-05	0.00E+00
358	599680.2	4176378	0.000309	8.34E-04	0.00E+00	3.09E-04	8.34E-04	0.00E+00	5.03E-05	1.26E-04	0.00E+00	2.63E-05	4.80E-05	0.00E+00
359	599705.4	4176380	0.000291	7.85E-04	0.00E+00	2.91E-04	7.85E-04	0.00E+00	4.74E-05	1.19E-04	0.00E+00	2.47E-05	4.53E-05	0.00E+00
360	599696.4	4176383	0.000298	8.05E-04	0.00E+00	2.98E-04	8.05E-04	0.00E+00	4.86E-05	1.22E-04	0.00E+00	2.53E-05	4.64E-05	0.00E+00
361	599687.5	4176386	0.000301	8.12E-04	0.00E+00	3.01E-04	8.12E-04	0.00E+00	4.90E-05	1.23E-04	0.00E+00	2.56E-05	4.68E-05	0.00E+00

362	599678.6	4176388	0.000302	8.15E-04	0.00E+00	3.02E-04	8.15E-04	0.00E+00	4.92E-05	1.23E-04	0.00E+00	2.57E-05	4.70E-05	0.00E+00
363	599712.6	4176388	0.000272	7.32E-04	0.00E+00	2.72E-04	7.32E-04	0.00E+00	4.42E-05	1.11E-04	0.00E+00	2.31E-05	4.22E-05	0.00E+00
364	599703.7	4176390	0.000279	7.51E-04	0.00E+00	2.79E-04	7.51E-04	0.00E+00	4.53E-05	1.14E-04	0.00E+00	2.37E-05	4.33E-05	0.00E+00
365	599694.8	4176393	0.000286	7.72E-04	0.00E+00	2.86E-04	7.72E-04	0.00E+00	4.66E-05	1.17E-04	0.00E+00	2.43E-05	4.45E-05	0.00E+00
366	599685.9	4176396	0.000292	7.87E-04	0.00E+00	2.92E-04	7.87E-04	0.00E+00	4.75E-05	1.19E-04	0.00E+00	2.48E-05	4.53E-05	0.00E+00
367	599677	4176398	0.000299	8.05E-04	0.00E+00	2.99E-04	8.05E-04	0.00E+00	4.86E-05	1.22E-04	0.00E+00	2.54E-05	4.64E-05	0.00E+00
368	599702	4176400	0.000267	7.19E-04	0.00E+00	2.67E-04	7.19E-04	0.00E+00	4.34E-05	1.09E-04	0.00E+00	2.27E-05	4.15E-05	0.00E+00
369	599693.1	4176403	0.000275	7.42E-04	0.00E+00	2.75E-04	7.42E-04	0.00E+00	4.48E-05	1.12E-04	0.00E+00	2.34E-05	4.28E-05	0.00E+00
370	599684.2	4176405	0.000285	7.68E-04	0.00E+00	2.85E-04	7.68E-04	0.00E+00	4.63E-05	1.16E-04	0.00E+00	2.42E-05	4.43E-05	0.00E+00
371	599675.3	4176408	0.000293	7.89E-04	0.00E+00	2.93E-04	7.89E-04	0.00E+00	4.76E-05	1.19E-04	0.00E+00	2.49E-05	4.55E-05	0.00E+00
372	599691.5	4176413	0.000253	6.82E-04	0.00E+00	2.53E-04	6.82E-04	0.00E+00	4.11E-05	1.03E-04	0.00E+00	2.15E-05	3.93E-05	0.00E+00
373	599682.6	4176415	0.00026	7.00E-04	0.00E+00	2.60E-04	7.00E-04	0.00E+00	4.23E-05	1.06E-04	0.00E+00	2.21E-05	4.04E-05	0.00E+00
374	599673.7	4176418	0.00027	7.28E-04	0.00E+00	2.70E-04	7.28E-04	0.00E+00	4.40E-05	1.10E-04	0.00E+00	2.29E-05	4.20E-05	0.00E+00
375	599681	4176425	0.000238	6.42E-04	0.00E+00	2.38E-04	6.42E-04	0.00E+00	3.87E-05	9.70E-05	0.00E+00	2.02E-05	3.70E-05	0.00E+00
376	599672.1	4176428	0.000251	6.78E-04	0.00E+00	2.51E-04	6.78E-04	0.00E+00	4.09E-05	1.02E-04	0.00E+00	2.13E-05	3.91E-05	0.00E+00
377	599646.9	4176586	0.000143	3.86E-04	0.00E+00	1.43E-04	3.86E-04	0.00E+00	2.33E-05	5.84E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
378	599661.9	4176600	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.29E-05	5.74E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
379	599652.9	4176603	0.000166	4.47E-04	0.00E+00	1.66E-04	4.47E-04	0.00E+00	2.69E-05	6.75E-05	0.00E+00	1.41E-05	2.57E-05	0.00E+00
380	599643.9	4176606	0.000198	5.34E-04	0.00E+00	1.98E-04	5.34E-04	0.00E+00	3.22E-05	8.07E-05	0.00E+00	1.68E-05	3.08E-05	0.00E+00
381	599667.6	4176617	0.000166	4.49E-04	0.00E+00	1.66E-04	4.49E-04	0.00E+00	2.71E-05	6.78E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
382	599658.6	4176620	0.000194	5.23E-04	0.00E+00	1.94E-04	5.23E-04	0.00E+00	3.16E-05	7.91E-05	0.00E+00	1.65E-05	3.01E-05	0.00E+00
383	599649.7	4176623	0.000224	6.03E-04	0.00E+00	2.24E-04	6.03E-04	0.00E+00	3.64E-05	9.12E-05	0.00E+00	1.90E-05	3.47E-05	0.00E+00
384	599640.7	4176625	0.000248	6.69E-04	0.00E+00	2.48E-04	6.69E-04	0.00E+00	4.03E-05	1.01E-04	0.00E+00	2.11E-05	3.85E-05	0.00E+00
385	599932.1	4176559	0.000142	3.84E-04	0.00E+00	1.42E-04	3.84E-04	0.00E+00	2.32E-05	5.80E-05	0.00E+00	1.21E-05	2.21E-05	0.00E+00
386	599923.2	4176562	0.000143	3.84E-04	0.00E+00	1.43E-04	3.84E-04	0.00E+00	2.32E-05	5.81E-05	0.00E+00	1.21E-05	2.22E-05	0.00E+00
387	599914.3	4176564	0.000143	3.86E-04	0.00E+00	1.43E-04	3.86E-04	0.00E+00	2.33E-05	5.83E-05	0.00E+00	1.21E-05	2.22E-05	0.00E+00
388	599905.3	4176567	0.000144	3.88E-04	0.00E+00	1.44E-04	3.88E-04	0.00E+00	2.34E-05	5.86E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
389	599798.2	4176598	0.000127	3.43E-04	0.00E+00	1.27E-04	3.43E-04	0.00E+00	2.07E-05	5.18E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
390	599789.3	4176601	0.000125	3.36E-04	0.00E+00	1.25E-04	3.36E-04	0.00E+00	2.03E-05	5.08E-05	0.00E+00	1.06E-05	1.94E-05	0.00E+00
391	599691.1	4176629	0.00016	4.32E-04	0.00E+00	1.60E-04	4.32E-04	0.00E+00	2.61E-05	6.54E-05	0.00E+00	1.36E-05	2.49E-05	0.00E+00
392	599682.2	4176632	0.000183	4.92E-04	0.00E+00	1.83E-04	4.92E-04	0.00E+00	2.97E-05	7.44E-05	0.00E+00	1.55E-05	2.84E-05	0.00E+00
393	599673.2	4176635	0.000207	5.57E-04	0.00E+00	2.07E-04	5.57E-04	0.00E+00	3.36E-05	8.43E-05	0.00E+00	1.75E-05	3.21E-05	0.00E+00
394	599664.3	4176637	0.00023	6.19E-04	0.00E+00	2.30E-04	6.19E-04	0.00E+00	3.74E-05	9.37E-05	0.00E+00	1.95E-05	3.57E-05	0.00E+00
395	599655.4	4176640	0.000246	6.64E-04	0.00E+00	2.46E-04	6.64E-04	0.00E+00	4.00E-05	1.00E-04	0.00E+00	2.09E-05	3.82E-05	0.00E+00
396	599646.5	4176642	0.000257	6.92E-04	0.00E+00	2.57E-04	6.92E-04	0.00E+00	4.18E-05	1.05E-04	0.00E+00	2.18E-05	3.99E-05	0.00E+00
397	599637.5	4176645	0.000263	7.09E-04	0.00E+00	2.63E-04	7.09E-04	0.00E+00	4.28E-05	1.07E-04	0.00E+00	2.23E-05	4.09E-05	0.00E+00
398	599945.8	4176574	0.000145	3.91E-04	0.00E+00	1.45E-04	3.91E-04	0.00E+00	2.36E-05	5.92E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
399	599936.9	4176576	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.94E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
400	599928	4176579	0.000147	3.95E-04	0.00E+00	1.47E-04	3.95E-04	0.00E+00	2.39E-05	5.98E-05	0.00E+00	1.25E-05	2.28E-05	0.00E+00
401	599919.1	4176582	0.000148	3.99E-04	0.00E+00	1.48E-04	3.99E-04	0.00E+00	2.41E-05	6.04E-05	0.00E+00	1.26E-05	2.30E-05	0.00E+00
402	599910.2	4176584	0.00015	4.04E-04	0.00E+00	1.50E-04	4.04E-04	0.00E+00	2.44E-05	6.11E-05	0.00E+00	1.27E-05	2.33E-05	0.00E+00
403	599901.3	4176587	0.000152	4.09E-04	0.00E+00	1.52E-04	4.09E-04	0.00E+00	2.47E-05	6.18E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
404	599892.4	4176589	0.000152	4.10E-04	0.00E+00	1.52E-04	4.10E-04	0.00E+00	2.47E-05	6.20E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
405	599883.5	4176592	0.000153	4.11E-04	0.00E+00	1.53E-04	4.11E-04	0.00E+00	2.48E-05	6.22E-05	0.00E+00	1.30E-05	2.37E-05	0.00E+00
406	599874.6	4176595	0.000153	4.13E-04	0.00E+00	1.53E-04	4.13E-04	0.00E+00	2.49E-05	6.24E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
407	599830.1	4176608	0.000142	3.82E-04	0.00E+00	1.42E-04	3.82E-04	0.00E+00	2.31E-05	5.78E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
408	599821.2	4176610	0.00014	3.78E-04	0.00E+00	1.40E-04	3.78E-04	0.00E+00	2.28E-05	5.71E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
409	599812.3	4176613	0.000139	3.74E-04	0.00E+00	1.39E-04	3.74E-04	0.00E+00	2.26E-05	5.65E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
410	599803.4	4176615	0.000137	3.70E-04	0.00E+00	1.37E-04	3.70E-04	0.00E+00	2.23E-05	5.60E-05	0.00E+00	1.17E-05	2.13E-05	0.00E+00
411	599794.5	4176618	0.000136	3.67E-04	0.00E+00	1.36E-04	3.67E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
412	599785.6	4176621	0.000134	3.62E-04	0.00E+00	1.34E-04	3.62E-04	0.00E+00	2.18E-05	5.47E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
413	599776.7	4176623	0.000133	3.60E-04	0.00E+00	1.33E-04	3.60E-04	0.00E+00	2.17E-05	5.44E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
414	599767.8	4176626	0.000133	3.59E-04	0.00E+00	1.33E-04	3.59E-04	0.00E+00	2.17E-05	5.43E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
415	599758.9	4176628	0.000133	3.60E-04	0.00E+00	1.33E-04	3.60E-04	0.00E+00	2.17E-05	5.44E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
416	599750	4176631	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.20E-05	5.51E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
417	599741.1	4176634	0.00014	3.76E-04	0.00E+00	1.40E-04	3.76E-04	0.00E+00	2.27E-05	5.69E-05	0.00E+00	1.19E-05	2.17E-05	0.00E+00
418	599714.4	4176641	0.000169	4.55E-04	0.00E+00	1.69E-04	4.55E-04	0.00E+00	2.75E-05	6.88E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
419	599705.5	4176644	0.000186	5.01E-04	0.00E+00	1.86E-04	5.01E-04	0.00E+00	3.02E-05	7.57E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
420	599696.6	4176647	0.000203	5.48E-04	0.00E+00	2.03E-04	5.48E-04	0.00E+00	3.30E-05	8.28E-05	0.00E+00	1.72E-05	3.16E-05	0.00E+00
421	599687.7	4176649	0.000219	5.89E-04	0.00E+00	2.19E-04	5.89E-04	0.00E+00	3.56E-05	8.91E-05	0.00E+00	1.86E-05	3.40E-05	0.00E+00
422	599678.8	4176652	0.000232	6.26E-04	0.00E+00	2.32E-04	6.26E-04	0.00E+00	3.78E-05	9.46E-05	0.00E+00	1.97E-05	3.61E-05	0.00E+00
423	599669.9	4176654	0.000242	6.53E-04	0.00E+00	2.42E-04	6.53E-04	0.00E+00	3.94E-05	9.87E-05	0.00E+00	2.06E-05	3.76E-05	0.00E+00
424	599661	4176657	0.000248	6.68E-04	0.00E+00	2.48E-04	6.68E-04	0.00E+00	4.03E-05	1.01E-04	0.00E+00	2.10E-05	3.85E-05	0.00E+00
425	599652.1	4176660	0.000249	6.71E-04	0.00E+00	2.49E-04	6.71E-04	0.00E+00	4.05E-05	1.01E-04	0.00E+00	2.11E-05	3.87E-05	0.00E+00
426	599643.2	4176662	0.000248	6.69E-04	0.00E+00	2.48E-04	6.69E-04	0.00E+00	4.04E-05	1.01E-04	0.00E+00	2.11E-05	3.86E-05	0.00E+00
427	599634.3	4176665	0.000247	6.65E-04	0.00E+00	2.47E-04	6.65E-04	0.00E+00	4.01E-05	1.01E-04	0.00E+00	2.09E-05	3.83E-05	0.00E+00
428	600237	4176084	0.000217	5.85E-04	0.00E+00	2.17E-04	5.85E-04	0.00E+00	3.53E-05	8.84E-05	0.00E+00	1.84E-05	3.37E-05	0.00E+00
429	600236.6	4176075	0.000219	5.90E-04	0.00E+00	2.19E-04	5.90E-04	0.00E+00	3.56E-05	8.92E-05	0.00E+00	1.86E-05	3.40E-05	0.00E+00
430	600012.7	4176573	0.000134	3.62E-04	0.00E+00	1.34E-04	3.62E-04	0.00E+00	2.18E-05	5.47E-05	0.00E+00	1.14E-05	2.09E-05	0.00E+00
431	599959.4	4176589	0.000151	4.06E-04	0.00E+00	1.51E-04	4.06E-04	0.00E+00	2.45E-05	6.14E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
432	599950.6	4176591	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.46E-05	6.15E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
433	599941.7	4176594	0.000152	4.09E-04	0.00E+00	1.52E-04	4.09E-04	0.00E+00	2.47E-05	6.19E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
434	599932.8	4176596	0.000153	4.13E-04	0.00E+00	1.53E-04	4.13E-04	0.00E+00	2.49E-05	6.25E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
435	599923.9	4176599	0.000156	4.20E-04	0.00E+00	1.56E-04	4.20E-04	0.00E+00	2.54E-05	6.35E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
436	599915.1	4176602	0.000159	4.27E-04	0.00E+00	1.59E-04	4.27E-04	0.00E+00	2.58E-05	6.46E-05	0.00E+00	1.35E-05	2.46E-05	0.00E+00
437	599906.2	4176604	0.000161	4.35E-04	0.00E+00	1.61E-04	4.35E-04	0.00E+00	2.62E-05	6.57E-05	0.00E+00	1.37E-05	2.50E-05	0.00E+00
438	599897.3	4176607	0.000163	4.38E-04	0.00E+00	1.63E-04	4.38E-04	0.00E+00	2.65E-05	6.63E-05	0.00E+00	1.38E-05	2.53E-05	0.00E+00
439	599888.5	4176609	0.000163	4.40E-04	0.00E+00	1.63E-04	4.40E-04	0.00E+00	2.66E-05	6.66E-05	0.00E+00	1.39E-05	2.54E-05	0.00E+00
440	599879.6	4176612	0.000164	4.42E-04	0.00E+00	1.64E-04	4.42E-04	0.00E+00	2.67E-05	6.69E-05	0.00E+00	1.39E-05	2.55E-05	0.00E+00
441	599870.7	4176615	0.000163	4.40E-04	0.00E+00	1.63E-04	4.40E-04	0.00E+00	2.65E-05	6.65E-05	0.00E+00	1.39E-05	2.53E-05	0.00E+00
442	599861.8	4176617	0.000159	4.30E-04	0.00E+00	1.59E-04	4.30E-04	0.00E+00	2.59E-05	6.50E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
443	599853	4176620	0.000156	4.22E-04	0.00E+00	1.56E-04	4.22E-04	0.00E+00	2.54E-05	6.37E-05	0.00E+00	1.33E-05	2.43E-05	0.00E+00
444	599844.1	4176622	0.000154	4.14E-04	0.00E+00	1.54E-04	4.14E-04	0.00E+00	2.50E-05	6.27E-05	0.00E+00	1.31E-05	2.39E-05	0.00E+00
445	599835.2	4176625	0.000154	4.15E-04	0.00E+00	1.54E-04	4.15E-04	0.00E+00	2.51E-05	6.28E-05	0.00E+00	1.31E-05	2.39E-05	0.00E+00
446	599826.3	4176627	0.000154	4.15E-04	0.00E+00	1.54E-04	4.15E-04	0.00E+00	2.51E-05	6.28E-05	0.00E+00	1.31E-05	2.39E-05	0.00E+00
447	599817.5	4176630	0.000154	4.14E-04	0.00E+00	1.54E-04	4.14E-04	0.00E+00	2.50E-05	6.26E-05	0.00E+00	1.30E-05	2.39E-05	0.00E+00
448	599808.6	4176633	0.000153	4.11E-04	0.00E+00	1.53E-04	4.11E-04	0.00E+00	2.48E-05	6.22E-05	0.00E+00	1.30E-05	2.37E-05	0.00E+00
449	599799.7	4176635	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.46E-05	6.16E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
450	599790.9	4176638	0.000149	4.02E-04	0.00E+00	1.49E-04	4.02E-04	0.00E+00	2.43E-05	6.08E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
451	599782	4176640	0.000148	3.98E-04	0.00E+00	1.48E-04	3.98E-04	0.00E+00	2.40E-05	6.02E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
452	599773.1	4176643	0.000149	4.03E-04	0.00E+00	1.49E-04	4.03E-04	0.00E+00	2.43E-05	6.09E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00

453	599764.2	4176646	0.000152	4.09E-04	0.00E+00	1.52E-04	4.09E-04	0.00E+00	2.47E-05	6.18E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
454	599755.4	4176648	0.000155	4.18E-04	0.00E+00	1.55E-04	4.18E-04	0.00E+00	2.52E-05	6.32E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
455	599746.5	4176651	0.000162	4.38E-04	0.00E+00	1.62E-04	4.38E-04	0.00E+00	2.64E-05	6.62E-05	0.00E+00	1.38E-05	2.52E-05	0.00E+00
456	599737.6	4176653	0.000171	4.61E-04	0.00E+00	1.71E-04	4.61E-04	0.00E+00	2.78E-05	6.97E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
457	599728.8	4176656	0.000179	4.83E-04	0.00E+00	1.79E-04	4.83E-04	0.00E+00	2.92E-05	7.31E-05	0.00E+00	1.52E-05	2.79E-05	0.00E+00
458	599719.9	4176659	0.00019	5.11E-04	0.00E+00	1.90E-04	5.11E-04	0.00E+00	3.09E-05	7.73E-05	0.00E+00	1.61E-05	2.95E-05	0.00E+00
459	599711	4176661	0.000203	5.48E-04	0.00E+00	2.03E-04	5.48E-04	0.00E+00	3.31E-05	8.29E-05	0.00E+00	1.73E-05	3.16E-05	0.00E+00
460	599702.1	4176664	0.000216	5.83E-04	0.00E+00	2.16E-04	5.83E-04	0.00E+00	3.52E-05	8.82E-05	0.00E+00	1.84E-05	3.36E-05	0.00E+00
461	599693.3	4176666	0.000228	6.14E-04	0.00E+00	2.28E-04	6.14E-04	0.00E+00	3.71E-05	9.29E-05	0.00E+00	1.93E-05	3.54E-05	0.00E+00
462	599684.4	4176669	0.000235	6.33E-04	0.00E+00	2.35E-04	6.33E-04	0.00E+00	3.82E-05	9.56E-05	0.00E+00	1.99E-05	3.65E-05	0.00E+00
463	599675.5	4176672	0.000239	6.45E-04	0.00E+00	2.39E-04	6.45E-04	0.00E+00	3.89E-05	9.75E-05	0.00E+00	2.03E-05	3.71E-05	0.00E+00
464	599666.6	4176674	0.000242	6.52E-04	0.00E+00	2.42E-04	6.52E-04	0.00E+00	3.93E-05	9.85E-05	0.00E+00	2.05E-05	3.75E-05	0.00E+00
465	599657.8	4176677	0.00024	6.47E-04	0.00E+00	2.40E-04	6.47E-04	0.00E+00	3.91E-05	9.79E-05	0.00E+00	2.04E-05	3.73E-05	0.00E+00
466	599648.9	4176679	0.000235	6.35E-04	0.00E+00	2.35E-04	6.35E-04	0.00E+00	3.83E-05	9.60E-05	0.00E+00	2.00E-05	3.66E-05	0.00E+00
467	599640	4176682	0.00023	6.20E-04	0.00E+00	2.30E-04	6.20E-04	0.00E+00	3.74E-05	9.38E-05	0.00E+00	1.95E-05	3.57E-05	0.00E+00
468	599631.2	4176685	0.000222	5.99E-04	0.00E+00	2.22E-04	5.99E-04	0.00E+00	3.62E-05	9.06E-05	0.00E+00	1.89E-05	3.45E-05	0.00E+00
469	600258.2	4176111	0.00018	4.84E-04	0.00E+00	1.80E-04	4.84E-04	0.00E+00	2.92E-05	7.32E-05	0.00E+00	1.53E-05	2.79E-05	0.00E+00
470	600257.8	4176102	0.000186	5.02E-04	0.00E+00	1.86E-04	5.02E-04	0.00E+00	3.03E-05	7.60E-05	0.00E+00	1.58E-05	2.90E-05	0.00E+00
471	600257.4	4176093	0.000192	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.12E-05	7.83E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
472	600257	4176083	0.000198	5.33E-04	0.00E+00	1.98E-04	5.33E-04	0.00E+00	3.21E-05	8.05E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
473	600256.6	4176074	0.0002	5.39E-04	0.00E+00	2.00E-04	5.39E-04	0.00E+00	3.25E-05	8.15E-05	0.00E+00	1.70E-05	3.11E-05	0.00E+00
474	600275	4176128	0.000156	4.20E-04	0.00E+00	1.56E-04	4.20E-04	0.00E+00	2.54E-05	6.35E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
475	600271.4	4176137	0.000153	4.13E-04	0.00E+00	1.53E-04	4.13E-04	0.00E+00	2.49E-05	6.25E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
476	600026.1	4176588	0.000134	3.61E-04	0.00E+00	1.34E-04	3.61E-04	0.00E+00	2.18E-05	5.46E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
477	600017.3	4176590	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.20E-05	5.51E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
478	600008.4	4176593	0.000137	3.68E-04	0.00E+00	1.37E-04	3.68E-04	0.00E+00	2.22E-05	5.57E-05	0.00E+00	1.16E-05	2.12E-05	0.00E+00
479	599999.6	4176596	0.000138	3.73E-04	0.00E+00	1.38E-04	3.73E-04	0.00E+00	2.25E-05	5.64E-05	0.00E+00	1.18E-05	2.15E-05	0.00E+00
480	599990.7	4176598	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.76E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
481	599981.9	4176601	0.000145	3.92E-04	0.00E+00	1.45E-04	3.92E-04	0.00E+00	2.36E-05	5.92E-05	0.00E+00	1.23E-05	2.26E-05	0.00E+00
482	599973	4176603	0.000149	4.02E-04	0.00E+00	1.49E-04	4.02E-04	0.00E+00	2.43E-05	6.08E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
483	599964.2	4176606	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.49E-05	6.23E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
484	599955.4	4176609	0.000155	4.19E-04	0.00E+00	1.55E-04	4.19E-04	0.00E+00	2.53E-05	6.33E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
485	599946.5	4176611	0.000159	4.28E-04	0.00E+00	1.59E-04	4.28E-04	0.00E+00	2.58E-05	6.47E-05	0.00E+00	1.35E-05	2.46E-05	0.00E+00
486	599937.7	4176614	0.000163	4.39E-04	0.00E+00	1.63E-04	4.39E-04	0.00E+00	2.65E-05	6.63E-05	0.00E+00	1.38E-05	2.53E-05	0.00E+00
487	599928.8	4176616	0.000166	4.49E-04	0.00E+00	1.66E-04	4.49E-04	0.00E+00	2.71E-05	6.79E-05	0.00E+00	1.41E-05	2.59E-05	0.00E+00
488	599920	4176619	0.000169	4.57E-04	0.00E+00	1.69E-04	4.57E-04	0.00E+00	2.76E-05	6.90E-05	0.00E+00	1.44E-05	2.63E-05	0.00E+00
489	599911.1	4176622	0.000173	4.66E-04	0.00E+00	1.73E-04	4.66E-04	0.00E+00	2.81E-05	7.04E-05	0.00E+00	1.47E-05	2.68E-05	0.00E+00
490	599902.3	4176624	0.000176	4.75E-04	0.00E+00	1.76E-04	4.75E-04	0.00E+00	2.87E-05	7.19E-05	0.00E+00	1.50E-05	2.74E-05	0.00E+00
491	599893.4	4176627	0.000177	4.78E-04	0.00E+00	1.77E-04	4.78E-04	0.00E+00	2.88E-05	7.23E-05	0.00E+00	1.51E-05	2.76E-05	0.00E+00
492	599884.6	4176629	0.000178	4.81E-04	0.00E+00	1.78E-04	4.81E-04	0.00E+00	2.90E-05	7.27E-05	0.00E+00	1.51E-05	2.77E-05	0.00E+00
493	599875.7	4176632	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.30E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
494	599866.9	4176634	0.000178	4.80E-04	0.00E+00	1.78E-04	4.80E-04	0.00E+00	2.89E-05	7.25E-05	0.00E+00	1.51E-05	2.76E-05	0.00E+00
495	599858	4176637	0.000177	4.76E-04	0.00E+00	1.77E-04	4.76E-04	0.00E+00	2.87E-05	7.20E-05	0.00E+00	1.50E-05	2.75E-05	0.00E+00
496	599849.2	4176640	0.000176	4.74E-04	0.00E+00	1.76E-04	4.74E-04	0.00E+00	2.86E-05	7.17E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
497	599840.3	4176642	0.000176	4.74E-04	0.00E+00	1.76E-04	4.74E-04	0.00E+00	2.86E-05	7.17E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
498	599831.5	4176645	0.000176	4.74E-04	0.00E+00	1.76E-04	4.74E-04	0.00E+00	2.86E-05	7.17E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
499	599822.6	4176647	0.000175	4.71E-04	0.00E+00	1.75E-04	4.71E-04	0.00E+00	2.84E-05	7.12E-05	0.00E+00	1.48E-05	2.71E-05	0.00E+00
500	599813.8	4176650	0.000173	4.66E-04	0.00E+00	1.73E-04	4.66E-04	0.00E+00	2.81E-05	7.05E-05	0.00E+00	1.47E-05	2.69E-05	0.00E+00
501	599804.9	4176653	0.000171	4.61E-04	0.00E+00	1.71E-04	4.61E-04	0.00E+00	2.78E-05	6.97E-05	0.00E+00	1.45E-05	2.66E-05	0.00E+00
502	599796.1	4176655	0.000169	4.56E-04	0.00E+00	1.69E-04	4.56E-04	0.00E+00	2.75E-05	6.90E-05	0.00E+00	1.44E-05	2.63E-05	0.00E+00
503	599787.2	4176658	0.000168	4.52E-04	0.00E+00	1.68E-04	4.52E-04	0.00E+00	2.73E-05	6.84E-05	0.00E+00	1.42E-05	2.61E-05	0.00E+00
504	599778.4	4176660	0.00017	4.58E-04	0.00E+00	1.70E-04	4.58E-04	0.00E+00	2.76E-05	6.92E-05	0.00E+00	1.44E-05	2.64E-05	0.00E+00
505	599769.5	4176663	0.000175	4.71E-04	0.00E+00	1.75E-04	4.71E-04	0.00E+00	2.84E-05	7.12E-05	0.00E+00	1.48E-05	2.71E-05	0.00E+00
506	599760.7	4176666	0.000181	4.87E-04	0.00E+00	1.81E-04	4.87E-04	0.00E+00	2.94E-05	7.37E-05	0.00E+00	1.53E-05	2.81E-05	0.00E+00
507	599751.8	4176668	0.000188	5.06E-04	0.00E+00	1.88E-04	5.06E-04	0.00E+00	3.05E-05	7.65E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
508	599743	4176671	0.000194	5.23E-04	0.00E+00	1.94E-04	5.23E-04	0.00E+00	3.16E-05	7.91E-05	0.00E+00	1.65E-05	3.01E-05	0.00E+00
509	599734.2	4176673	0.0002	5.38E-04	0.00E+00	2.00E-04	5.38E-04	0.00E+00	3.25E-05	8.14E-05	0.00E+00	1.70E-05	3.10E-05	0.00E+00
510	599725.3	4176676	0.000204	5.51E-04	0.00E+00	2.04E-04	5.51E-04	0.00E+00	3.33E-05	8.34E-05	0.00E+00	1.74E-05	3.18E-05	0.00E+00
511	599716.5	4176678	0.000213	5.74E-04	0.00E+00	2.13E-04	5.74E-04	0.00E+00	3.46E-05	8.68E-05	0.00E+00	1.81E-05	3.31E-05	0.00E+00
512	599707.6	4176681	0.000221	5.96E-04	0.00E+00	2.21E-04	5.96E-04	0.00E+00	3.60E-05	9.01E-05	0.00E+00	1.88E-05	3.44E-05	0.00E+00
513	599698.8	4176684	0.000227	6.12E-04	0.00E+00	2.27E-04	6.12E-04	0.00E+00	3.70E-05	9.26E-05	0.00E+00	1.93E-05	3.53E-05	0.00E+00
514	599689.9	4176686	0.00023	6.20E-04	0.00E+00	2.30E-04	6.20E-04	0.00E+00	3.74E-05	9.38E-05	0.00E+00	1.95E-05	3.57E-05	0.00E+00
515	599681.1	4176689	0.00023	6.19E-04	0.00E+00	2.30E-04	6.19E-04	0.00E+00	3.74E-05	9.36E-05	0.00E+00	1.95E-05	3.57E-05	0.00E+00
516	599672.2	4176691	0.000228	6.16E-04	0.00E+00	2.28E-04	6.16E-04	0.00E+00	3.72E-05	9.31E-05	0.00E+00	1.94E-05	3.55E-05	0.00E+00
517	599663.4	4176694	0.000226	6.11E-04	0.00E+00	2.26E-04	6.11E-04	0.00E+00	3.68E-05	9.23E-05	0.00E+00	1.92E-05	3.52E-05	0.00E+00
518	599654.5	4176697	0.000219	5.92E-04	0.00E+00	2.19E-04	5.92E-04	0.00E+00	3.57E-05	8.95E-05	0.00E+00	1.86E-05	3.41E-05	0.00E+00
519	599645.7	4176699	0.000211	5.69E-04	0.00E+00	2.11E-04	5.69E-04	0.00E+00	3.43E-05	8.60E-05	0.00E+00	1.79E-05	3.28E-05	0.00E+00
520	599636.8	4176702	0.000201	5.42E-04	0.00E+00	2.01E-04	5.42E-04	0.00E+00	3.27E-05	8.19E-05	0.00E+00	1.71E-05	3.12E-05	0.00E+00
521	599628	4176704	0.000193	5.21E-04	0.00E+00	1.93E-04	5.21E-04	0.00E+00	3.14E-05	7.87E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
522	600278.6	4176120	0.000158	4.27E-04	0.00E+00	1.58E-04	4.27E-04	0.00E+00	2.58E-05	6.46E-05	0.00E+00	1.34E-05	2.46E-05	0.00E+00
523	600278.2	4176110	0.000164	4.43E-04	0.00E+00	1.64E-04	4.43E-04	0.00E+00	2.67E-05	6.70E-05	0.00E+00	1.39E-05	2.55E-05	0.00E+00
524	600277.8	4176101	0.00017	4.57E-04	0.00E+00	1.70E-04	4.57E-04	0.00E+00	2.76E-05	6.91E-05	0.00E+00	1.44E-05	2.64E-05	0.00E+00
525	600277.4	4176092	0.000174	4.70E-04	0.00E+00	1.74E-04	4.70E-04	0.00E+00	2.84E-05	7.11E-05	0.00E+00	1.48E-05	2.71E-05	0.00E+00
526	600277	4176082	0.000179	4.83E-04	0.00E+00	1.79E-04	4.83E-04	0.00E+00	2.91E-05	7.30E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
527	600276.6	4176073	0.000181	4.88E-04	0.00E+00	1.81E-04	4.88E-04	0.00E+00	2.94E-05	7.38E-05	0.00E+00	1.54E-05	2.81E-05	0.00E+00
528	600294.9	4176128	0.000144	3.89E-04	0.00E+00	1.44E-04	3.89E-04	0.00E+00	2.35E-05	5.89E-05	0.00E+00	1.23E-05	2.24E-05	0.00E+00
529	600291.2	4176136	0.000142	3.83E-04	0.00E+00	1.42E-04	3.83E-04	0.00E+00	2.31E-05	5.79E-05	0.00E+00	1.21E-05	2.21E-05	0.00E+00
530	600287.6	4176145	0.000139	3.75E-04	0.00E+00	1.39E-04	3.75E-04	0.00E+00	2.26E-05	5.67E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
531	600283.9	4176154	0.000136	3.67E-04	0.00E+00	1.36E-04	3.67E-04	0.00E+00	2.22E-05	5.55E-05	0.00E+00	1.16E-05	2.12E-05	0.00E+00
532	600280.3	4176162	0.000133	3.60E-04	0.00E+00	1.33E-04	3.60E-04	0.00E+00	2.17E-05	5.44E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
533	600276.6	4176171	0.00013	3.51E-04	0.00E+00	1.30E-04	3.51E-04	0.00E+00	2.12E-05	5.30E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
534	600273	4176179	0.000126	3.41E-04	0.00E+00	1.26E-04	3.41E-04	0.00E+00	2.06E-05	5.15E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
535	600269.3	4176188	0.000123	3.32E-04	0.00E+00	1.23E-04	3.32E-04	0.00E+00	2.00E-05	5.01E-05	0.00E+00	1.04E-05	1.91E-05	0.00E+00
536	600265.7	4176197	0.00012	3.23E-04	0.00E+00	1.20E-04	3.23E-04	0.00E+00	1.95E-05	4.88E-05	0.00E+00	1.02E-05	1.86E-05	0.00E+00
537	600262	4176205	0.000116	3.12E-04	0.00E+00	1.16E-04	3.12E-04	0.00E+00	1.88E-05	4.72E-05	0.00E+00	9.84E-06	1.80E-05	0.00E+00
538	600020.5	4176608	0.000134	3.61E-04	0.00E+00	1.34E-04	3.61E-04	0.00E+00	2.18E-05	5.46E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
539	600011.5	4176611	0.000137	3.69E-04	0.00E+00	1.37E-04	3.69E-04	0.00E+00	2.23E-05	5.58E-05	0.00E+00	1.16E-05	2.13E-05	0.00E+00
540	600002.5	4176614	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.29E-05	5.74E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
541	599993.5	4176616	0.000146	3.92E-04	0.00E+00	1.46E-04	3.92E-04	0.00E+00	2.37E-05	5.93E-05	0.00E+00	1.24E-05	2.26E-05	0.00E+00
542	599984.5	4176619	0.000148	3.99E-04	0.00E+00	1.48E-04	3.99E-04	0.00E+00	2.41E-05	6.04E-05	0.00E+00	1.26E-05	2.30E-05	0.00E+00
543	599975.5	4176622	0.000151	4.08E-04	0.00E+00	1.51E-04	4.08E-04	0.00E+00	2.46E-05	6.17E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00

544	599966.5	4176624	0.000155	4.18E-04	0.00E+00	1.55E-04	4.18E-04	0.00E+00	2.52E-05	6.32E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
545	599957.5	4176627	0.000159	4.30E-04	0.00E+00	1.59E-04	4.30E-04	0.00E+00	2.59E-05	6.50E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
546	599948.6	4176629	0.000164	4.43E-04	0.00E+00	1.64E-04	4.43E-04	0.00E+00	2.68E-05	6.71E-05	0.00E+00	1.40E-05	2.56E-05	0.00E+00
547	599939.6	4176632	0.00017	4.59E-04	0.00E+00	1.70E-04	4.59E-04	0.00E+00	2.77E-05	6.94E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
548	599930.6	4176635	0.000176	4.75E-04	0.00E+00	1.76E-04	4.75E-04	0.00E+00	2.87E-05	7.18E-05	0.00E+00	1.50E-05	2.74E-05	0.00E+00
549	599921.6	4176637	0.000182	4.90E-04	0.00E+00	1.82E-04	4.90E-04	0.00E+00	2.95E-05	7.40E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
550	599912.6	4176640	0.000187	5.04E-04	0.00E+00	1.87E-04	5.04E-04	0.00E+00	3.04E-05	7.62E-05	0.00E+00	1.59E-05	2.90E-05	0.00E+00
551	599903.6	4176643	0.000193	5.21E-04	0.00E+00	1.93E-04	5.21E-04	0.00E+00	3.14E-05	7.88E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
552	599894.6	4176645	0.000194	5.24E-04	0.00E+00	1.94E-04	5.24E-04	0.00E+00	3.16E-05	7.93E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
553	599885.6	4176648	0.000194	5.24E-04	0.00E+00	1.94E-04	5.24E-04	0.00E+00	3.16E-05	7.92E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
554	599876.6	4176650	0.000194	5.24E-04	0.00E+00	1.94E-04	5.24E-04	0.00E+00	3.16E-05	7.92E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
555	599867.7	4176653	0.000194	5.24E-04	0.00E+00	1.94E-04	5.24E-04	0.00E+00	3.16E-05	7.93E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
556	599858.7	4176656	0.000194	5.24E-04	0.00E+00	1.94E-04	5.24E-04	0.00E+00	3.16E-05	7.92E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
557	599849.7	4176658	0.000194	5.23E-04	0.00E+00	1.94E-04	5.23E-04	0.00E+00	3.16E-05	7.91E-05	0.00E+00	1.65E-05	3.01E-05	0.00E+00
558	599840.7	4176661	0.000194	5.22E-04	0.00E+00	1.94E-04	5.22E-04	0.00E+00	3.15E-05	7.89E-05	0.00E+00	1.64E-05	3.01E-05	0.00E+00
559	599831.7	4176664	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.87E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
560	599822.7	4176666	0.000192	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.13E-05	7.84E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
561	599813.7	4176669	0.000192	5.16E-04	0.00E+00	1.92E-04	5.16E-04	0.00E+00	3.12E-05	7.81E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
562	599804.7	4176671	0.000191	5.15E-04	0.00E+00	1.91E-04	5.15E-04	0.00E+00	3.11E-05	7.79E-05	0.00E+00	1.62E-05	2.97E-05	0.00E+00
563	599795.7	4176674	0.000191	5.14E-04	0.00E+00	1.91E-04	5.14E-04	0.00E+00	3.10E-05	7.77E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00
564	599786.8	4176677	0.00019	5.13E-04	0.00E+00	1.90E-04	5.13E-04	0.00E+00	3.09E-05	7.76E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00
565	599777.8	4176679	0.000192	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.12E-05	7.83E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
566	599768.8	4176682	0.000195	5.27E-04	0.00E+00	1.95E-04	5.27E-04	0.00E+00	3.18E-05	7.97E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
567	599759.8	4176685	0.000199	5.36E-04	0.00E+00	1.99E-04	5.36E-04	0.00E+00	3.23E-05	8.10E-05	0.00E+00	1.69E-05	3.09E-05	0.00E+00
568	599750.8	4176687	0.000202	5.43E-04	0.00E+00	2.02E-04	5.43E-04	0.00E+00	3.28E-05	8.22E-05	0.00E+00	1.71E-05	3.13E-05	0.00E+00
569	599741.8	4176690	0.000204	5.51E-04	0.00E+00	2.04E-04	5.51E-04	0.00E+00	3.32E-05	8.33E-05	0.00E+00	1.73E-05	3.17E-05	0.00E+00
570	599732.8	4176692	0.000207	5.59E-04	0.00E+00	2.07E-04	5.59E-04	0.00E+00	3.37E-05	8.45E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
571	599723.8	4176695	0.000211	5.68E-04	0.00E+00	2.11E-04	5.68E-04	0.00E+00	3.43E-05	8.59E-05	0.00E+00	1.79E-05	3.27E-05	0.00E+00
572	599714.9	4176698	0.000216	5.81E-04	0.00E+00	2.16E-04	5.81E-04	0.00E+00	3.51E-05	8.79E-05	0.00E+00	1.83E-05	3.35E-05	0.00E+00
573	599705.9	4176700	0.000219	5.91E-04	0.00E+00	2.19E-04	5.91E-04	0.00E+00	3.57E-05	8.94E-05	0.00E+00	1.86E-05	3.41E-05	0.00E+00
574	599696.9	4176703	0.000221	5.97E-04	0.00E+00	2.21E-04	5.97E-04	0.00E+00	3.60E-05	9.03E-05	0.00E+00	1.88E-05	3.44E-05	0.00E+00
575	599687.9	4176706	0.000221	5.95E-04	0.00E+00	2.21E-04	5.95E-04	0.00E+00	3.59E-05	9.00E-05	0.00E+00	1.87E-05	3.43E-05	0.00E+00
576	599678.9	4176708	0.000216	5.82E-04	0.00E+00	2.16E-04	5.82E-04	0.00E+00	3.51E-05	8.81E-05	0.00E+00	1.83E-05	3.36E-05	0.00E+00
577	599669.9	4176711	0.000211	5.68E-04	0.00E+00	2.11E-04	5.68E-04	0.00E+00	3.43E-05	8.58E-05	0.00E+00	1.79E-05	3.27E-05	0.00E+00
578	599660.9	4176714	0.000204	5.49E-04	0.00E+00	2.04E-04	5.49E-04	0.00E+00	3.31E-05	8.30E-05	0.00E+00	1.73E-05	3.16E-05	0.00E+00
579	599651.9	4176716	0.000194	5.23E-04	0.00E+00	1.94E-04	5.23E-04	0.00E+00	3.15E-05	7.90E-05	0.00E+00	1.65E-05	3.01E-05	0.00E+00
580	599642.9	4176719	0.000185	4.98E-04	0.00E+00	1.85E-04	4.98E-04	0.00E+00	3.01E-05	7.54E-05	0.00E+00	1.57E-05	2.87E-05	0.00E+00
581	599634	4176721	0.000177	4.77E-04	0.00E+00	1.77E-04	4.77E-04	0.00E+00	2.88E-05	7.21E-05	0.00E+00	1.50E-05	2.75E-05	0.00E+00
582	599625	4176724	0.000176	4.73E-04	0.00E+00	1.76E-04	4.73E-04	0.00E+00	2.86E-05	7.16E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
583	600298.5	4176119	0.000147	3.97E-04	0.00E+00	1.47E-04	3.97E-04	0.00E+00	2.39E-05	6.00E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
584	600298.1	4176110	0.000152	4.10E-04	0.00E+00	1.52E-04	4.10E-04	0.00E+00	2.48E-05	6.21E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
585	600297.7	4176100	0.000157	4.22E-04	0.00E+00	1.57E-04	4.22E-04	0.00E+00	2.55E-05	6.38E-05	0.00E+00	1.33E-05	2.43E-05	0.00E+00
586	600297.3	4176091	0.00016	4.32E-04	0.00E+00	1.60E-04	4.32E-04	0.00E+00	2.61E-05	6.53E-05	0.00E+00	1.36E-05	2.49E-05	0.00E+00
587	600296.9	4176082	0.000164	4.42E-04	0.00E+00	1.64E-04	4.42E-04	0.00E+00	2.66E-05	6.68E-05	0.00E+00	1.39E-05	2.55E-05	0.00E+00
588	600296.5	4176072	0.000165	4.45E-04	0.00E+00	1.65E-04	4.45E-04	0.00E+00	2.68E-05	6.72E-05	0.00E+00	1.40E-05	2.56E-05	0.00E+00
589	600314.9	4176127	0.000136	3.66E-04	0.00E+00	1.36E-04	3.66E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
590	600311.2	4176135	0.000133	3.59E-04	0.00E+00	1.33E-04	3.59E-04	0.00E+00	2.17E-05	5.43E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
591	600307.6	4176144	0.00013	3.50E-04	0.00E+00	1.30E-04	3.50E-04	0.00E+00	2.11E-05	5.30E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
592	600304	4176153	0.000127	3.43E-04	0.00E+00	1.27E-04	3.43E-04	0.00E+00	2.07E-05	5.18E-05	0.00E+00	1.08E-05	1.98E-05	0.00E+00
593	600300.3	4176161	0.000125	3.36E-04	0.00E+00	1.25E-04	3.36E-04	0.00E+00	2.03E-05	5.08E-05	0.00E+00	1.06E-05	1.94E-05	0.00E+00
594	600296.7	4176170	0.000122	3.29E-04	0.00E+00	1.22E-04	3.29E-04	0.00E+00	1.98E-05	4.97E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
595	600293	4176178	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
596	600289.4	4176187	0.000115	3.11E-04	0.00E+00	1.15E-04	3.11E-04	0.00E+00	1.88E-05	4.71E-05	0.00E+00	9.80E-06	1.79E-05	0.00E+00
597	600285.8	4176196	0.000112	3.03E-04	0.00E+00	1.12E-04	3.03E-04	0.00E+00	1.83E-05	4.59E-05	0.00E+00	9.55E-06	1.75E-05	0.00E+00
598	600282.1	4176204	0.000109	2.95E-04	0.00E+00	1.09E-04	2.95E-04	0.00E+00	1.78E-05	4.45E-05	0.00E+00	9.27E-06	1.70E-05	0.00E+00
599	600278.5	4176213	0.000106	2.87E-04	0.00E+00	1.06E-04	2.87E-04	0.00E+00	1.73E-05	4.33E-05	0.00E+00	9.02E-06	1.65E-05	0.00E+00
600	600274.8	4176221	0.000104	2.79E-04	0.00E+00	1.04E-04	2.79E-04	0.00E+00	1.69E-05	4.22E-05	0.00E+00	8.80E-06	1.61E-05	0.00E+00
601	600087.8	4176608	0.000113	3.04E-04	0.00E+00	1.13E-04	3.04E-04	0.00E+00	1.83E-05	4.60E-05	0.00E+00	9.57E-06	1.75E-05	0.00E+00
602	599989.2	4176636	0.000146	3.95E-04	0.00E+00	1.46E-04	3.95E-04	0.00E+00	2.38E-05	5.97E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
603	599980.2	4176639	0.000151	4.06E-04	0.00E+00	1.51E-04	4.06E-04	0.00E+00	2.45E-05	6.14E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
604	599971.3	4176642	0.000156	4.19E-04	0.00E+00	1.56E-04	4.19E-04	0.00E+00	2.53E-05	6.34E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
605	599962.3	4176644	0.000161	4.35E-04	0.00E+00	1.61E-04	4.35E-04	0.00E+00	2.62E-05	6.57E-05	0.00E+00	1.37E-05	2.51E-05	0.00E+00
606	599953.4	4176647	0.000167	4.51E-04	0.00E+00	1.67E-04	4.51E-04	0.00E+00	2.72E-05	6.82E-05	0.00E+00	1.42E-05	2.60E-05	0.00E+00
607	599944.4	4176649	0.000173	4.67E-04	0.00E+00	1.73E-04	4.67E-04	0.00E+00	2.82E-05	7.07E-05	0.00E+00	1.47E-05	2.69E-05	0.00E+00
608	599935.4	4176652	0.00018	4.86E-04	0.00E+00	1.80E-04	4.86E-04	0.00E+00	2.93E-05	7.35E-05	0.00E+00	1.53E-05	2.80E-05	0.00E+00
609	599926.5	4176655	0.000185	4.99E-04	0.00E+00	1.85E-04	4.99E-04	0.00E+00	3.01E-05	7.55E-05	0.00E+00	1.57E-05	2.88E-05	0.00E+00
610	599917.5	4176657	0.00019	5.11E-04	0.00E+00	1.90E-04	5.11E-04	0.00E+00	3.08E-05	7.73E-05	0.00E+00	1.61E-05	2.95E-05	0.00E+00
611	599908.5	4176660	0.000194	5.23E-04	0.00E+00	1.94E-04	5.23E-04	0.00E+00	3.16E-05	7.91E-05	0.00E+00	1.65E-05	3.01E-05	0.00E+00
612	599899.6	4176663	0.000197	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.04E-05	0.00E+00	1.67E-05	3.07E-05	0.00E+00
613	599890.6	4176665	0.0002	5.38E-04	0.00E+00	2.00E-04	5.38E-04	0.00E+00	3.25E-05	8.14E-05	0.00E+00	1.69E-05	3.10E-05	0.00E+00
614	599881.7	4176668	0.000202	5.46E-04	0.00E+00	2.02E-04	5.46E-04	0.00E+00	3.29E-05	8.25E-05	0.00E+00	1.72E-05	3.15E-05	0.00E+00
615	599872.7	4176670	0.000206	5.54E-04	0.00E+00	2.06E-04	5.54E-04	0.00E+00	3.34E-05	8.38E-05	0.00E+00	1.75E-05	3.19E-05	0.00E+00
616	599863.7	4176673	0.000207	5.57E-04	0.00E+00	2.07E-04	5.57E-04	0.00E+00	3.36E-05	8.42E-05	0.00E+00	1.75E-05	3.21E-05	0.00E+00
617	599854.8	4176676	0.000207	5.59E-04	0.00E+00	2.07E-04	5.59E-04	0.00E+00	3.37E-05	8.46E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
618	599845.8	4176678	0.000207	5.59E-04	0.00E+00	2.07E-04	5.59E-04	0.00E+00	3.37E-05	8.45E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
619	599836.9	4176681	0.000207	5.57E-04	0.00E+00	2.07E-04	5.57E-04	0.00E+00	3.36E-05	8.42E-05	0.00E+00	1.75E-05	3.21E-05	0.00E+00
620	599827.9	4176684	0.000205	5.53E-04	0.00E+00	2.05E-04	5.53E-04	0.00E+00	3.34E-05	8.36E-05	0.00E+00	1.74E-05	3.19E-05	0.00E+00
621	599818.9	4176686	0.000203	5.48E-04	0.00E+00	2.03E-04	5.48E-04	0.00E+00	3.31E-05	8.29E-05	0.00E+00	1.73E-05	3.16E-05	0.00E+00
622	599810	4176689	0.000201	5.43E-04	0.00E+00	2.01E-04	5.43E-04	0.00E+00	3.28E-05	8.21E-05	0.00E+00	1.71E-05	3.13E-05	0.00E+00
623	599801	4176691	0.000199	5.37E-04	0.00E+00	1.99E-04	5.37E-04	0.00E+00	3.24E-05	8.13E-05	0.00E+00	1.69E-05	3.10E-05	0.00E+00
624	599792	4176694	0.000197	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.05E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
625	599783.1	4176697	0.000196	5.28E-04	0.00E+00	1.96E-04	5.28E-04	0.00E+00	3.19E-05	7.99E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
626	599774.1	4176699	0.000198	5.33E-04	0.00E+00	1.98E-04	5.33E-04	0.00E+00	3.22E-05	8.07E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
627	599765.2	4176702	0.000199	5.38E-04	0.00E+00	1.99E-04	5.38E-04	0.00E+00	3.25E-05	8.13E-05	0.00E+00	1.69E-05	3.10E-05	0.00E+00
628	599756.2	4176704	0.000201	5.42E-04	0.00E+00	2.01E-04	5.42E-04	0.00E+00	3.27E-05	8.19E-05	0.00E+00	1.71E-05	3.12E-05	0.00E+00
629	599747.2	4176707	0.000203	5.48E-04	0.00E+00	2.03E-04	5.48E-04	0.00E+00	3.30E-05	8.28E-05	0.00E+00	1.72E-05	3.16E-05	0.00E+00
630	599738.3	4176710	0.000205	5.52E-04	0.00E+00	2.05E-04	5.52E-04	0.00E+00	3.33E-05	8.35E-05	0.00E+00	1.74E-05	3.18E-05	0.00E+00
631	599729.3	4176712	0.000206	5.55E-04	0.00E+00	2.06E-04	5.55E-04	0.00E+00	3.35E-05	8.39E-05	0.00E+00	1.75E-05	3.20E-05	0.00E+00
632	599720.4	4176715	0.000206	5.56E-04	0.00E+00	2.06E-04	5.56E-04	0.00E+00	3.35E-05	8.40E-05	0.00E+00	1.75E-05	3.20E-05	0.00E+00
633	599711.4	4176718	0.000205	5.52E-04	0.00E+00	2.05E-04	5.52E-04	0.00E+00	3.33E-05	8.34E-05	0.00E+00	1.74E-05	3.18E-05	0.00E+00
634	599702.4	4176720	0.000202	5.45E-04	0.00E+00	2.02E-04	5.45E-04	0.00E+00	3.29E-05	8.24E-05	0.00E+00	1.72E-05	3.14E-05	0.00E+00

635	599693.5	4176723	0.000198	5.35E-04	0.00E+00	1.98E-04	5.35E-04	0.00E+00	3.23E-05	8.08E-05	0.00E+00	1.68E-05	3.08E-05	0.00E+00
636	599684.5	4176725	0.000192	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.12E-05	7.83E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
637	599675.5	4176728	0.000185	4.99E-04	0.00E+00	1.85E-04	4.99E-04	0.00E+00	3.01E-05	7.55E-05	0.00E+00	1.57E-05	2.88E-05	0.00E+00
638	599666.6	4176731	0.000178	4.79E-04	0.00E+00	1.78E-04	4.79E-04	0.00E+00	2.89E-05	7.24E-05	0.00E+00	1.51E-05	2.76E-05	0.00E+00
639	599657.6	4176733	0.000171	4.60E-04	0.00E+00	1.71E-04	4.60E-04	0.00E+00	2.78E-05	6.96E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
640	599648.7	4176736	0.000165	4.46E-04	0.00E+00	1.65E-04	4.46E-04	0.00E+00	2.69E-05	6.74E-05	0.00E+00	1.40E-05	2.57E-05	0.00E+00
641	599639.7	4176739	0.000163	4.41E-04	0.00E+00	1.63E-04	4.41E-04	0.00E+00	2.66E-05	6.66E-05	0.00E+00	1.39E-05	2.54E-05	0.00E+00
642	599630.7	4176741	0.000164	4.41E-04	0.00E+00	1.64E-04	4.41E-04	0.00E+00	2.66E-05	6.67E-05	0.00E+00	1.39E-05	2.54E-05	0.00E+00
643	599621.8	4176744	0.000167	4.49E-04	0.00E+00	1.67E-04	4.49E-04	0.00E+00	2.71E-05	6.79E-05	0.00E+00	1.41E-05	2.59E-05	0.00E+00
644	600318.5	4176118	0.000139	3.74E-04	0.00E+00	1.39E-04	3.74E-04	0.00E+00	2.26E-05	5.66E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
645	600318.1	4176109	0.000144	3.88E-04	0.00E+00	1.44E-04	3.88E-04	0.00E+00	2.34E-05	5.87E-05	0.00E+00	1.22E-05	2.24E-05	0.00E+00
646	600317.7	4176099	0.000148	4.00E-04	0.00E+00	1.48E-04	4.00E-04	0.00E+00	2.41E-05	6.05E-05	0.00E+00	1.26E-05	2.31E-05	0.00E+00
647	600317.3	4176090	0.000152	4.11E-04	0.00E+00	1.52E-04	4.11E-04	0.00E+00	2.48E-05	6.21E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
648	600316.9	4176081	0.000156	4.21E-04	0.00E+00	1.56E-04	4.21E-04	0.00E+00	2.54E-05	6.37E-05	0.00E+00	1.33E-05	2.43E-05	0.00E+00
649	600316.5	4176071	0.000156	4.20E-04	0.00E+00	1.56E-04	4.20E-04	0.00E+00	2.54E-05	6.36E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
650	600334.9	4176126	0.000126	3.40E-04	0.00E+00	1.26E-04	3.40E-04	0.00E+00	2.05E-05	5.15E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
651	600331.2	4176134	0.000124	3.35E-04	0.00E+00	1.24E-04	3.35E-04	0.00E+00	2.02E-05	5.07E-05	0.00E+00	1.06E-05	1.93E-05	0.00E+00
652	600327.6	4176143	0.000122	3.28E-04	0.00E+00	1.22E-04	3.28E-04	0.00E+00	1.98E-05	4.97E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
653	600324	4176152	0.000119	3.21E-04	0.00E+00	1.19E-04	3.21E-04	0.00E+00	1.94E-05	4.86E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
654	600320.3	4176160	0.000116	3.13E-04	0.00E+00	1.16E-04	3.13E-04	0.00E+00	1.89E-05	4.73E-05	0.00E+00	9.85E-06	1.80E-05	0.00E+00
655	600316.7	4176169	0.000114	3.06E-04	0.00E+00	1.14E-04	3.06E-04	0.00E+00	1.85E-05	4.63E-05	0.00E+00	9.64E-06	1.76E-05	0.00E+00
656	600313.1	4176177	0.000111	3.00E-04	0.00E+00	1.11E-04	3.00E-04	0.00E+00	1.81E-05	4.53E-05	0.00E+00	9.44E-06	1.73E-05	0.00E+00
657	600309.5	4176186	0.000109	2.93E-04	0.00E+00	1.09E-04	2.93E-04	0.00E+00	1.77E-05	4.43E-05	0.00E+00	9.23E-06	1.69E-05	0.00E+00
658	600305.8	4176194	0.000106	2.87E-04	0.00E+00	1.06E-04	2.87E-04	0.00E+00	1.73E-05	4.33E-05	0.00E+00	9.02E-06	1.65E-05	0.00E+00
659	600302.2	4176203	0.000103	2.79E-04	0.00E+00	1.03E-04	2.79E-04	0.00E+00	1.68E-05	4.21E-05	0.00E+00	8.78E-06	1.61E-05	0.00E+00
660	600298.6	4176212	0.0001	2.71E-04	0.00E+00	1.00E-04	2.71E-04	0.00E+00	1.63E-05	4.10E-05	0.00E+00	8.53E-06	1.56E-05	0.00E+00
661	600101.2	4176622	0.000101	2.72E-04	0.00E+00	1.01E-04	2.72E-04	0.00E+00	1.64E-05	4.11E-05	0.00E+00	8.57E-06	1.57E-05	0.00E+00
662	600092.2	4176625	0.000101	2.72E-04	0.00E+00	1.01E-04	2.72E-04	0.00E+00	1.64E-05	4.12E-05	0.00E+00	8.57E-06	1.57E-05	0.00E+00
663	600083.3	4176628	0.000101	2.73E-04	0.00E+00	1.01E-04	2.73E-04	0.00E+00	1.65E-05	4.13E-05	0.00E+00	8.59E-06	1.57E-05	0.00E+00
664	600074.3	4176630	0.000103	2.77E-04	0.00E+00	1.03E-04	2.77E-04	0.00E+00	1.67E-05	4.19E-05	0.00E+00	8.73E-06	1.60E-05	0.00E+00
665	600065.4	4176633	0.000105	2.82E-04	0.00E+00	1.05E-04	2.82E-04	0.00E+00	1.70E-05	4.27E-05	0.00E+00	8.89E-06	1.63E-05	0.00E+00
666	600056.5	4176635	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.74E-05	4.37E-05	0.00E+00	9.10E-06	1.67E-05	0.00E+00
667	599949.2	4176667	0.000168	4.52E-04	0.00E+00	1.68E-04	4.52E-04	0.00E+00	2.73E-05	6.84E-05	0.00E+00	1.42E-05	2.61E-05	0.00E+00
668	599940.3	4176669	0.000176	4.73E-04	0.00E+00	1.76E-04	4.73E-04	0.00E+00	2.86E-05	7.16E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
669	599931.4	4176672	0.000183	4.94E-04	0.00E+00	1.83E-04	4.94E-04	0.00E+00	2.98E-05	7.47E-05	0.00E+00	1.56E-05	2.85E-05	0.00E+00
670	599922.4	4176675	0.000187	5.05E-04	0.00E+00	1.87E-04	5.05E-04	0.00E+00	3.05E-05	7.64E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
671	599913.5	4176677	0.00019	5.14E-04	0.00E+00	1.90E-04	5.14E-04	0.00E+00	3.10E-05	7.76E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00
672	599904.6	4176680	0.000193	5.21E-04	0.00E+00	1.93E-04	5.21E-04	0.00E+00	3.14E-05	7.88E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
673	599895.6	4176683	0.000196	5.28E-04	0.00E+00	1.96E-04	5.28E-04	0.00E+00	3.19E-05	7.99E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
674	599886.7	4176685	0.000199	5.36E-04	0.00E+00	1.99E-04	5.36E-04	0.00E+00	3.23E-05	8.10E-05	0.00E+00	1.69E-05	3.09E-05	0.00E+00
675	599877.7	4176688	0.000201	5.43E-04	0.00E+00	2.01E-04	5.43E-04	0.00E+00	3.28E-05	8.21E-05	0.00E+00	1.71E-05	3.13E-05	0.00E+00
676	599868.8	4176690	0.000204	5.49E-04	0.00E+00	2.04E-04	5.49E-04	0.00E+00	3.31E-05	8.30E-05	0.00E+00	1.73E-05	3.17E-05	0.00E+00
677	599859.9	4176693	0.000207	5.57E-04	0.00E+00	2.07E-04	5.57E-04	0.00E+00	3.36E-05	8.42E-05	0.00E+00	1.75E-05	3.21E-05	0.00E+00
678	599850.9	4176696	0.00021	5.66E-04	0.00E+00	2.10E-04	5.66E-04	0.00E+00	3.42E-05	8.56E-05	0.00E+00	1.78E-05	3.26E-05	0.00E+00
679	599842	4176698	0.000213	5.74E-04	0.00E+00	2.13E-04	5.74E-04	0.00E+00	3.46E-05	8.68E-05	0.00E+00	1.81E-05	3.31E-05	0.00E+00
680	599833.1	4176701	0.000211	5.69E-04	0.00E+00	2.11E-04	5.69E-04	0.00E+00	3.43E-05	8.61E-05	0.00E+00	1.79E-05	3.28E-05	0.00E+00
681	599824.1	4176703	0.000209	5.64E-04	0.00E+00	2.09E-04	5.64E-04	0.00E+00	3.40E-05	8.52E-05	0.00E+00	1.77E-05	3.25E-05	0.00E+00
682	599815.2	4176706	0.000207	5.57E-04	0.00E+00	2.07E-04	5.57E-04	0.00E+00	3.36E-05	8.43E-05	0.00E+00	1.76E-05	3.21E-05	0.00E+00
683	599806.3	4176709	0.000203	5.47E-04	0.00E+00	2.03E-04	5.47E-04	0.00E+00	3.30E-05	8.26E-05	0.00E+00	1.72E-05	3.15E-05	0.00E+00
684	599797.3	4176711	0.000199	5.38E-04	0.00E+00	1.99E-04	5.38E-04	0.00E+00	3.24E-05	8.13E-05	0.00E+00	1.69E-05	3.10E-05	0.00E+00
685	599788.4	4176714	0.000197	5.31E-04	0.00E+00	1.97E-04	5.31E-04	0.00E+00	3.20E-05	8.02E-05	0.00E+00	1.67E-05	3.06E-05	0.00E+00
686	599779.5	4176716	0.000195	5.27E-04	0.00E+00	1.95E-04	5.27E-04	0.00E+00	3.18E-05	7.96E-05	0.00E+00	1.66E-05	3.03E-05	0.00E+00
687	599770.5	4176719	0.000194	5.24E-04	0.00E+00	1.94E-04	5.24E-04	0.00E+00	3.16E-05	7.92E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
688	599761.6	4176722	0.000193	5.21E-04	0.00E+00	1.93E-04	5.21E-04	0.00E+00	3.14E-05	7.88E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
689	599752.6	4176724	0.000192	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.13E-05	7.84E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
690	599743.7	4176727	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.86E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
691	599734.8	4176730	0.000193	5.21E-04	0.00E+00	1.93E-04	5.21E-04	0.00E+00	3.14E-05	7.87E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
692	599725.8	4176732	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.86E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
693	599716.9	4176735	0.000189	5.11E-04	0.00E+00	1.89E-04	5.11E-04	0.00E+00	3.08E-05	7.72E-05	0.00E+00	1.61E-05	2.94E-05	0.00E+00
694	599708	4176737	0.000184	4.96E-04	0.00E+00	1.84E-04	4.96E-04	0.00E+00	2.99E-05	7.50E-05	0.00E+00	1.56E-05	2.86E-05	0.00E+00
695	599699	4176740	0.000179	4.83E-04	0.00E+00	1.79E-04	4.83E-04	0.00E+00	2.91E-05	7.30E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
696	599690.1	4176743	0.000174	4.69E-04	0.00E+00	1.74E-04	4.69E-04	0.00E+00	2.83E-05	7.10E-05	0.00E+00	1.48E-05	2.70E-05	0.00E+00
697	599681.2	4176745	0.000169	4.55E-04	0.00E+00	1.69E-04	4.55E-04	0.00E+00	2.74E-05	6.88E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
698	599672.2	4176748	0.000163	4.41E-04	0.00E+00	1.63E-04	4.41E-04	0.00E+00	2.66E-05	6.66E-05	0.00E+00	1.39E-05	2.54E-05	0.00E+00
699	599663.3	4176750	0.000158	4.27E-04	0.00E+00	1.58E-04	4.27E-04	0.00E+00	2.58E-05	6.45E-05	0.00E+00	1.34E-05	2.46E-05	0.00E+00
700	599654.3	4176753	0.000158	4.26E-04	0.00E+00	1.58E-04	4.26E-04	0.00E+00	2.57E-05	6.45E-05	0.00E+00	1.34E-05	2.46E-05	0.00E+00
701	599645.4	4176756	0.000159	4.28E-04	0.00E+00	1.59E-04	4.28E-04	0.00E+00	2.58E-05	6.47E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
702	599636.5	4176758	0.00016	4.31E-04	0.00E+00	1.60E-04	4.31E-04	0.00E+00	2.60E-05	6.52E-05	0.00E+00	1.36E-05	2.48E-05	0.00E+00
703	600338.5	4176117	0.000128	3.46E-04	0.00E+00	1.28E-04	3.46E-04	0.00E+00	2.09E-05	5.23E-05	0.00E+00	1.09E-05	1.99E-05	0.00E+00
704	600338.1	4176108	0.000133	3.59E-04	0.00E+00	1.33E-04	3.59E-04	0.00E+00	2.17E-05	5.44E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
705	600337.7	4176099	0.000138	3.71E-04	0.00E+00	1.38E-04	3.71E-04	0.00E+00	2.24E-05	5.61E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
706	600337.3	4176089	0.000142	3.82E-04	0.00E+00	1.42E-04	3.82E-04	0.00E+00	2.31E-05	5.78E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
707	600336.9	4176080	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.95E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
708	600336.5	4176070	0.000145	3.91E-04	0.00E+00	1.45E-04	3.91E-04	0.00E+00	2.36E-05	5.91E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
709	600354.9	4176125	0.000116	3.13E-04	0.00E+00	1.16E-04	3.13E-04	0.00E+00	1.89E-05	4.74E-05	0.00E+00	9.87E-06	1.81E-05	0.00E+00
710	600351.2	4176134	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.71E-06	1.78E-05	0.00E+00
711	600347.6	4176142	0.000113	3.04E-04	0.00E+00	1.13E-04	3.04E-04	0.00E+00	1.83E-05	4.59E-05	0.00E+00	9.56E-06	1.75E-05	0.00E+00
712	600344	4176151	0.000111	2.99E-04	0.00E+00	1.11E-04	2.99E-04	0.00E+00	1.80E-05	4.52E-05	0.00E+00	9.41E-06	1.72E-05	0.00E+00
713	600340.4	4176159	0.000109	2.94E-04	0.00E+00	1.09E-04	2.94E-04	0.00E+00	1.77E-05	4.44E-05	0.00E+00	9.25E-06	1.69E-05	0.00E+00
714	600336.8	4176168	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.35E-05	0.00E+00	9.07E-06	1.66E-05	0.00E+00
715	600333.1	4176176	0.000105	2.82E-04	0.00E+00	1.05E-04	2.82E-04	0.00E+00	1.70E-05	4.26E-05	0.00E+00	8.88E-06	1.62E-05	0.00E+00
716	600329.5	4176185	0.000102	2.76E-04	0.00E+00	1.02E-04	2.76E-04	0.00E+00	1.67E-05	4.18E-05	0.00E+00	8.70E-06	1.59E-05	0.00E+00
717	600325.9	4176193	0.0001	2.71E-04	0.00E+00	1.00E-04	2.71E-04	0.00E+00	1.63E-05	4.09E-05	0.00E+00	8.52E-06	1.56E-05	0.00E+00
718	600322.3	4176202	9.81E-05	2.64E-04	0.00E+00	9.81E-05	2.64E-04	0.00E+00	1.60E-05	4.00E-05	0.00E+00	8.33E-06	1.52E-05	0.00E+00
719	600105.6	4176640	9.05E-05	2.44E-04	0.00E+00	9.05E-05	2.44E-04	0.00E+00	1.47E-05	3.69E-05	0.00E+00	7.69E-06	1.41E-05	0.00E+00
720	600096.7	4176643	9.09E-05	2.45E-04	0.00E+00	9.09E-05	2.45E-04	0.00E+00	1.48E-05	3.71E-05	0.00E+00	7.72E-06	1.41E-05	0.00E+00
721	600087.8	4176645	9.14E-05	2.46E-04	0.00E+00	9.14E-05	2.46E-04	0.00E+00	1.49E-05	3.73E-05	0.00E+00	7.76E-06	1.42E-05	0.00E+00
722	600078.9	4176648	9.26E-05	2.50E-04	0.00E+00	9.26E-05	2.50E-04	0.00E+00	1.51E-05	3.78E-05	0.00E+00	7.87E-06	1.44E-05	0.00E+00
723	600070	4176650	9.48E-05	2.55E-04	0.00E+00	9.48E-05	2.55E-04	0.00E+00	1.54E-05	3.86E-05	0.00E+00	8.05E-06	1.47E-05	0.00E+00
724	600061	4176653	9.73E-05	2.62E-04	0.00E+00	9.73E-05	2.62E-04	0.00E+00	1.58E-05	3.96E-05	0.00E+00	8.26E-06	1.51E-05	0.00E+00
725	600052.1	4176656	0.0001	2.71E-04	0.00E+00	1.00E-04	2.71E-04	0.00E+00	1.63E-05	4.09E-05	0.00E+00	8.52E-06	1.56E-05	0.00E+00

726	600043.2	4176658	0.000104	2.81E-04	0.00E+00		1.04E-04	2.81E-04	0.00E+00		1.70E-05	4.25E-05	0.00E+00		8.85E-06	1.62E-05	0.00E+00
727	600034.3	4176661	0.000108	2.92E-04	0.00E+00		1.08E-04	2.92E-04	0.00E+00		1.76E-05	4.41E-05	0.00E+00		9.19E-06	1.68E-05	0.00E+00
728	600025.4	4176663	0.000112	3.03E-04	0.00E+00		1.12E-04	3.03E-04	0.00E+00		1.83E-05	4.58E-05	0.00E+00		9.53E-06	1.74E-05	0.00E+00
729	600016.5	4176666	0.000115	3.10E-04	0.00E+00		1.15E-04	3.10E-04	0.00E+00		1.87E-05	4.69E-05	0.00E+00		9.76E-06	1.79E-05	0.00E+00
730	599918.4	4176695	0.000171	4.60E-04	0.00E+00		1.71E-04	4.60E-04	0.00E+00		2.78E-05	6.96E-05	0.00E+00		1.45E-05	2.65E-05	0.00E+00
731	599909.5	4176697	0.000177	4.77E-04	0.00E+00		1.77E-04	4.77E-04	0.00E+00		2.88E-05	7.22E-05	0.00E+00		1.50E-05	2.75E-05	0.00E+00
732	599900.6	4176700	0.000183	4.94E-04	0.00E+00		1.83E-04	4.94E-04	0.00E+00		2.98E-05	7.47E-05	0.00E+00		1.56E-05	2.85E-05	0.00E+00
733	599891.7	4176702	0.000187	5.04E-04	0.00E+00		1.87E-04	5.04E-04	0.00E+00		3.04E-05	7.62E-05	0.00E+00		1.59E-05	2.90E-05	0.00E+00
734	599882.8	4176705	0.00019	5.13E-04	0.00E+00		1.90E-04	5.13E-04	0.00E+00		3.10E-05	7.76E-05	0.00E+00		1.62E-05	2.96E-05	0.00E+00
735	599873.9	4176708	0.000193	5.20E-04	0.00E+00		1.93E-04	5.20E-04	0.00E+00		3.14E-05	7.86E-05	0.00E+00		1.64E-05	3.00E-05	0.00E+00
736	599865	4176710	0.000197	5.30E-04	0.00E+00		1.97E-04	5.30E-04	0.00E+00		3.20E-05	8.01E-05	0.00E+00		1.67E-05	3.05E-05	0.00E+00
737	599856.1	4176713	0.0002	5.38E-04	0.00E+00		2.00E-04	5.38E-04	0.00E+00		3.25E-05	8.14E-05	0.00E+00		1.69E-05	3.10E-05	0.00E+00
738	599847.1	4176716	0.000202	5.44E-04	0.00E+00		2.02E-04	5.44E-04	0.00E+00		3.28E-05	8.23E-05	0.00E+00		1.71E-05	3.14E-05	0.00E+00
739	599838.2	4176718	0.000201	5.41E-04	0.00E+00		2.01E-04	5.41E-04	0.00E+00		3.26E-05	8.18E-05	0.00E+00		1.70E-05	3.12E-05	0.00E+00
740	599829.3	4176721	0.000198	5.33E-04	0.00E+00		1.98E-04	5.33E-04	0.00E+00		3.22E-05	8.07E-05	0.00E+00		1.68E-05	3.07E-05	0.00E+00
741	599820.4	4176723	0.000196	5.28E-04	0.00E+00		1.96E-04	5.28E-04	0.00E+00		3.19E-05	7.98E-05	0.00E+00		1.66E-05	3.04E-05	0.00E+00
742	599811.5	4176726	0.000194	5.24E-04	0.00E+00		1.94E-04	5.24E-04	0.00E+00		3.16E-05	7.92E-05	0.00E+00		1.65E-05	3.02E-05	0.00E+00
743	599802.6	4176729	0.000192	5.19E-04	0.00E+00		1.92E-04	5.19E-04	0.00E+00		3.13E-05	7.84E-05	0.00E+00		1.63E-05	2.99E-05	0.00E+00
744	599793.7	4176731	0.000191	5.15E-04	0.00E+00		1.91E-04	5.15E-04	0.00E+00		3.11E-05	7.79E-05	0.00E+00		1.62E-05	2.97E-05	0.00E+00
745	599784.8	4176734	0.000191	5.14E-04	0.00E+00		1.91E-04	5.14E-04	0.00E+00		3.10E-05	7.77E-05	0.00E+00		1.62E-05	2.96E-05	0.00E+00
746	599775.8	4176736	0.000189	5.08E-04	0.00E+00		1.89E-04	5.08E-04	0.00E+00		3.07E-05	7.69E-05	0.00E+00		1.60E-05	2.93E-05	0.00E+00
747	599766.9	4176739	0.000185	5.00E-04	0.00E+00		1.85E-04	5.00E-04	0.00E+00		3.02E-05	7.56E-05	0.00E+00		1.57E-05	2.88E-05	0.00E+00
748	599758	4176742	0.000183	4.93E-04	0.00E+00		1.83E-04	4.93E-04	0.00E+00		2.98E-05	7.46E-05	0.00E+00		1.55E-05	2.84E-05	0.00E+00
749	599749.1	4176744	0.000181	4.89E-04	0.00E+00		1.81E-04	4.89E-04	0.00E+00		2.95E-05	7.39E-05	0.00E+00		1.54E-05	2.82E-05	0.00E+00
750	599740.2	4176747	0.00018	4.86E-04	0.00E+00		1.80E-04	4.86E-04	0.00E+00		2.93E-05	7.34E-05	0.00E+00		1.53E-05	2.80E-05	0.00E+00
751	599731.3	4176749	0.000178	4.81E-04	0.00E+00		1.78E-04	4.81E-04	0.00E+00		2.90E-05	7.28E-05	0.00E+00		1.52E-05	2.77E-05	0.00E+00
752	599722.4	4176752	0.000176	4.75E-04	0.00E+00		1.76E-04	4.75E-04	0.00E+00		2.87E-05	7.18E-05	0.00E+00		1.50E-05	2.74E-05	0.00E+00
753	599713.5	4176755	0.000172	4.64E-04	0.00E+00		1.72E-04	4.64E-04	0.00E+00		2.80E-05	7.01E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
754	599704.5	4176757	0.000168	4.54E-04	0.00E+00		1.68E-04	4.54E-04	0.00E+00		2.74E-05	6.86E-05	0.00E+00		1.43E-05	2.61E-05	0.00E+00
755	599695.6	4176760	0.000165	4.44E-04	0.00E+00		1.65E-04	4.44E-04	0.00E+00		2.68E-05	6.72E-05	0.00E+00		1.40E-05	2.56E-05	0.00E+00
756	599686.7	4176762	0.00016	4.32E-04	0.00E+00		1.60E-04	4.32E-04	0.00E+00		2.61E-05	6.53E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
757	599677.8	4176765	0.000155	4.18E-04	0.00E+00		1.55E-04	4.18E-04	0.00E+00		2.52E-05	6.32E-05	0.00E+00		1.32E-05	2.41E-05	0.00E+00
758	599668.9	4176768	0.000151	4.08E-04	0.00E+00		1.51E-04	4.08E-04	0.00E+00		2.46E-05	6.16E-05	0.00E+00		1.28E-05	2.35E-05	0.00E+00
759	599660	4176770	0.000151	4.07E-04	0.00E+00		1.51E-04	4.07E-04	0.00E+00		2.46E-05	6.16E-05	0.00E+00		1.28E-05	2.35E-05	0.00E+00
760	600358.5	4176116	0.000118	3.18E-04	0.00E+00		1.18E-04	3.18E-04	0.00E+00		1.92E-05	4.81E-05	0.00E+00		1.00E-05	1.83E-05	0.00E+00
761	600358.1	4176107	0.000123	3.31E-04	0.00E+00		1.23E-04	3.31E-04	0.00E+00		2.00E-05	5.00E-05	0.00E+00		1.04E-05	1.91E-05	0.00E+00
762	600357.7	4176098	0.000127	3.41E-04	0.00E+00		1.27E-04	3.41E-04	0.00E+00		2.06E-05	5.16E-05	0.00E+00		1.07E-05	1.97E-05	0.00E+00
763	600357.3	4176088	0.000131	3.52E-04	0.00E+00		1.31E-04	3.52E-04	0.00E+00		2.12E-05	5.32E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
764	600356.9	4176079	0.000135	3.63E-04	0.00E+00		1.35E-04	3.63E-04	0.00E+00		2.19E-05	5.49E-05	0.00E+00		1.14E-05	2.09E-05	0.00E+00
765	600356.5	4176070	0.000134	3.61E-04	0.00E+00		1.34E-04	3.61E-04	0.00E+00		2.18E-05	5.46E-05	0.00E+00		1.14E-05	2.08E-05	0.00E+00
766	600374.9	4176124	0.000108	2.90E-04	0.00E+00		1.08E-04	2.90E-04	0.00E+00		1.75E-05	4.39E-05	0.00E+00		9.15E-06	1.67E-05	0.00E+00
767	600371.2	4176133	0.000107	2.87E-04	0.00E+00		1.07E-04	2.87E-04	0.00E+00		1.73E-05	4.34E-05	0.00E+00		9.04E-06	1.66E-05	0.00E+00
768	600367.6	4176141	0.000105	2.83E-04	0.00E+00		1.05E-04	2.83E-04	0.00E+00		1.71E-05	4.29E-05	0.00E+00		8.93E-06	1.63E-05	0.00E+00
769	600364	4176150	0.000104	2.80E-04	0.00E+00		1.04E-04	2.80E-04	0.00E+00		1.69E-05	4.23E-05	0.00E+00		8.81E-06	1.61E-05	0.00E+00
770	600360.4	4176158	0.000102	2.76E-04	0.00E+00		1.02E-04	2.76E-04	0.00E+00		1.66E-05	4.17E-05	0.00E+00		8.69E-06	1.59E-05	0.00E+00
771	600356.8	4176167	0.000101	2.71E-04	0.00E+00		1.01E-04	2.71E-04	0.00E+00		1.64E-05	4.11E-05	0.00E+00		8.55E-06	1.56E-05	0.00E+00
772	600353.2	4176175	9.86E-05	2.66E-04	0.00E+00		9.86E-05	2.66E-04	0.00E+00		1.60E-05	4.02E-05	0.00E+00		8.38E-06	1.53E-05	0.00E+00
773	600349.6	4176184	9.65E-05	2.60E-04	0.00E+00		9.65E-05	2.60E-04	0.00E+00		1.57E-05	3.93E-05	0.00E+00		8.19E-06	1.50E-05	0.00E+00
774	600346	4176192	9.45E-05	2.55E-04	0.00E+00		9.45E-05	2.55E-04	0.00E+00		1.54E-05	3.85E-05	0.00E+00		8.03E-06	1.47E-05	0.00E+00
775	600092.3	4176663	8.22E-05	2.22E-04	0.00E+00		8.22E-05	2.22E-04	0.00E+00		1.34E-05	3.35E-05	0.00E+00		6.98E-06	1.28E-05	0.00E+00
776	600083.4	4176665	8.25E-05	2.23E-04	0.00E+00		8.25E-05	2.23E-04	0.00E+00		1.34E-05	3.36E-05	0.00E+00		7.01E-06	1.28E-05	0.00E+00
777	600074.5	4176668	8.47E-05	2.28E-04	0.00E+00		8.47E-05	2.28E-04	0.00E+00		1.38E-05	3.45E-05	0.00E+00		7.19E-06	1.32E-05	0.00E+00
778	600065.7	4176670	8.73E-05	2.35E-04	0.00E+00		8.73E-05	2.35E-04	0.00E+00		1.42E-05	3.56E-05	0.00E+00		7.41E-06	1.36E-05	0.00E+00
779	600056.8	4176673	9.04E-05	2.44E-04	0.00E+00		9.04E-05	2.44E-04	0.00E+00		1.47E-05	3.69E-05	0.00E+00		7.68E-06	1.40E-05	0.00E+00
780	600047.9	4176676	9.31E-05	2.51E-04	0.00E+00		9.31E-05	2.51E-04	0.00E+00		1.51E-05	3.80E-05	0.00E+00		7.91E-06	1.45E-05	0.00E+00
781	600039	4176678	9.48E-05	2.56E-04	0.00E+00		9.48E-05	2.56E-04	0.00E+00		1.54E-05	3.87E-05	0.00E+00		8.05E-06	1.47E-05	0.00E+00
782	600030.1	4176681	9.67E-05	2.61E-04	0.00E+00		9.67E-05	2.61E-04	0.00E+00		1.57E-05	3.94E-05	0.00E+00		8.21E-06	1.50E-05	0.00E+00
783	600021.2	4176683	9.88E-05	2.67E-04	0.00E+00		9.88E-05	2.67E-04	0.00E+00		1.61E-05	4.03E-05	0.00E+00		8.39E-06	1.54E-05	0.00E+00
784	600012.3	4176686	0.000101	2.73E-04	0.00E+00		1.01E-04	2.73E-04	0.00E+00		1.65E-05	4.13E-05	0.00E+00		8.60E-06	1.57E-05	0.00E+00
785	600003.4	4176689	0.000104	2.81E-04	0.00E+00		1.04E-04	2.81E-04	0.00E+00		1.69E-05	4.24E-05	0.00E+00		8.84E-06	1.62E-05	0.00E+00
786	599994.5	4176691	0.000107	2.90E-04	0.00E+00		1.07E-04	2.90E-04	0.00E+00		1.75E-05	4.38E-05	0.00E+00		9.12E-06	1.67E-05	0.00E+00
787	599985.6	4176694	0.000111	2.99E-04	0.00E+00		1.11E-04	2.99E-04	0.00E+00		1.80E-05	4.52E-05	0.00E+00		9.42E-06	1.72E-05	0.00E+00
788	599976.8	4176696	0.000115	3.09E-04	0.00E+00		1.15E-04	3.09E-04	0.00E+00		1.86E-05	4.67E-05	0.00E+00		9.73E-06	1.78E-05	0.00E+00
789	599879	4176725	0.000172	4.62E-04	0.00E+00		1.72E-04	4.62E-04	0.00E+00		2.79E-05	6.99E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
790	599870.1	4176728	0.000175	4.73E-04	0.00E+00		1.75E-04	4.73E-04	0.00E+00		2.85E-05	7.15E-05	0.00E+00		1.49E-05	2.73E-05	0.00E+00
791	599861.2	4176730	0.000178	4.81E-04	0.00E+00		1.78E-04	4.81E-04	0.00E+00		2.90E-05	7.27E-05	0.00E+00		1.51E-05	2.77E-05	0.00E+00
792	599852.3	4176733	0.000181	4.87E-04	0.00E+00		1.81E-04	4.87E-04	0.00E+00		2.94E-05	7.37E-05	0.00E+00		1.53E-05	2.81E-05	0.00E+00
793	599843.4	4176735	0.000182	4.92E-04	0.00E+00		1.82E-04	4.92E-04	0.00E+00		2.97E-05	7.44E-05	0.00E+00		1.55E-05	2.84E-05	0.00E+00
794	599834.5	4176738	0.000181	4.89E-04	0.00E+00		1.81E-04	4.89E-04	0.00E+00		2.95E-05	7.40E-05	0.00E+00		1.54E-05	2.82E-05	0.00E+00
795	599825.6	4176741	0.00018	4.86E-04	0.00E+00		1.80E-04	4.86E-04	0.00E+00		2.93E-05	7.34E-05	0.00E+00		1.53E-05	2.80E-05	0.00E+00
796	599816.7	4176743	0.000179	4.83E-04	0.00E+00		1.79E-04	4.83E-04	0.00E+00		2.91E-05	7.30E-05	0.00E+00		1.52E-05	2.78E-05	0.00E+00
797	599807.8	4176746	0.000177	4.78E-04	0.00E+00		1.77E-04	4.78E-04	0.00E+00		2.88E-05	7.23E-05	0.00E+00		1.51E-05	2.75E-05	0.00E+00
798	599798.9	4176748	0.000176	4.74E-04	0.00E+00		1.76E-04	4.74E-04	0.00E+00		2.86E-05	7.16E-05	0.00E+00		1.49E-05	2.73E-05	0.00E+00
799	599790.1	4176751	0.000175	4.71E-04	0.00E+00		1.75E-04	4.71E-04	0.00E+00		2.84E-05	7.12E-05	0.00E+00		1.48E-05	2.71E-05	0.00E+00
800	599781.2	4176754	0.000174	4.68E-04	0.00E+00		1.74E-04	4.68E-04	0.00E+00		2.83E-05	7.08E-05	0.00E+00		1.48E-05	2.70E-05	0.00E+00
801	599772.3	4176756	0.000172	4.64E-04	0.00E+00		1.72E-04	4.64E-04	0.00E+00		2.80E-05	7.01E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
802	599763.4	4176759	0.000171	4.61E-04	0.00E+00		1.71E-04	4.61E-04	0.00E+00		2.78E-05	6.96E-05	0.00E+00		1.45E-05	2.65E-05	0.00E+00
803	599754.5	4176761	0.00017	4.58E-04	0.00E+00		1.70E-04	4.58E-04	0.00E+00		2.76E-05	6.93E-05	0.00E+00		1.44E-05	2.64E-05	0.00E+00
804	599745.6	4176764	0.000168	4.53E-04	0.00E+00		1.68E-04	4.53E-04	0.00E+00		2.73E-05	6.85E-05	0.00E+00		1.43E-05	2.61E-05	0.00E+00
805	599736.7	4176767	0.000165	4.46E-04	0.00E+00		1.65E-04	4.46E-04	0.00E+00		2.69E-05	6.74E-05	0.00E+00		1.40E-05	2.57E-05	0.00E+00
806	599727.8	4176769	0.000163	4.39E-04	0.00E+00		1.63E-04	4.39E-04	0.00E+00		2.65E-05	6.64E-05	0.00E+00		1.38E-05	2.53E-05	0.00E+00
807	599718.9	4176772	0.00016	4.33E-04	0.00E+00		1.60E-04	4.33E-04	0.00E+00		2.61E-05	6.54E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
808	599710	4176774	0.000158	4.25E-04	0.00E+00		1.58E-04	4.25E-04	0.00E+00		2.57E-05	6.43E-05	0.00E+00		1.34E-05	2.45E-05	0.00E+00
809	599701.1	4176777	0.000155	4.18E-04	0.00E+00		1.55E-04	4.18E-04	0.00E+00		2.52E-05	6.32E-05	0.00E+00		1.32E-05	2.41E-05	0.00E+00
810	599692.3	4176780	0.000153	4.11E-04	0.00E+00		1.53E-04	4.11E-04	0.00E+00		2.48E-05	6.22E-05	0.00E+00		1.30E-05	2.37E-05	0.00E+00
811	599683.4	4176782	0.000151	4.08E-04	0.00E+00		1.51E-04	4.08E-04	0.00E+00		2.46E-05	6.16E-05	0.00E+00		1.28E-05	2.35E-05	0.00E+00
812	600378.5	4176116	0.000109	2.93E-04	0.00E+00		1.09E-04	2.93E-04	0.00E+00		1.77E-05	4.43E-05	0.00E+00		9.24E-06	1.69E-05	0.00E+00
813	600378.1	4176106	0.000112	3.02E-04	0.00E+00		1.12E-04	3.02E-04	0.00E+00		1.82E-05	4.56E-05	0.00E+00		9.50E-06	1.74E-05	0.00E+00
814	600377.7	4176097	0.000116	3.12E-04	0.00E+00		1.16E-04	3.12E-04	0.00E+00		1.88E-05	4.71E-05	0.00E+00		9.82E-06	1.80E-05	0.00E+00
815	600377.3	4176087	0.00012	3.23E-04	0.00E+00		1.20E-04	3.23E-04	0.00E+00		1.95E-05	4.88E-05	0.00E+00		1.02E-05	1.86E-05	0.00E+00
816	600376.9	4176078	0.000124	3.35E-04	0.00E+00		1.24E-04	3.35E-04	0.00E+00		2.02E-05	5.06E-05	0.00E+00		1.05E-05	1.93E-05	0.00E+00

817	600376.5	4176069	0.000124	3.33E-04	0.00E+00	1.24E-04	3.33E-04	0.00E+00	2.01E-05	5.04E-05	0.00E+00	1.05E-05	1.92E-05	0.00E+00
818	600394.8	4176123	0.0001	2.71E-04	0.00E+00	1.00E-04	2.71E-04	0.00E+00	1.63E-05	4.10E-05	0.00E+00	8.53E-06	1.56E-05	0.00E+00
819	600391.2	4176132	9.96E-05	2.68E-04	0.00E+00	9.96E-05	2.68E-04	0.00E+00	1.62E-05	4.06E-05	0.00E+00	8.45E-06	1.55E-05	0.00E+00
820	600387.6	4176140	9.85E-05	2.66E-04	0.00E+00	9.85E-05	2.66E-04	0.00E+00	1.60E-05	4.01E-05	0.00E+00	8.36E-06	1.53E-05	0.00E+00
821	600384	4176149	9.72E-05	2.62E-04	0.00E+00	9.72E-05	2.62E-04	0.00E+00	1.58E-05	3.96E-05	0.00E+00	8.25E-06	1.51E-05	0.00E+00
822	600380.4	4176157	9.59E-05	2.59E-04	0.00E+00	9.59E-05	2.59E-04	0.00E+00	1.56E-05	3.91E-05	0.00E+00	8.15E-06	1.49E-05	0.00E+00
823	600376.8	4176166	9.47E-05	2.55E-04	0.00E+00	9.47E-05	2.55E-04	0.00E+00	1.54E-05	3.86E-05	0.00E+00	8.04E-06	1.47E-05	0.00E+00
824	600373.2	4176174	9.3E-05	2.51E-04	0.00E+00	9.30E-05	2.51E-04	0.00E+00	1.51E-05	3.79E-05	0.00E+00	7.90E-06	1.45E-05	0.00E+00
825	600369.6	4176183	9.13E-05	2.46E-04	0.00E+00	9.13E-05	2.46E-04	0.00E+00	1.49E-05	3.72E-05	0.00E+00	7.76E-06	1.42E-05	0.00E+00
826	600061.4	4176691	7.87E-05	2.12E-04	0.00E+00	7.87E-05	2.12E-04	0.00E+00	1.28E-05	3.21E-05	0.00E+00	6.69E-06	1.22E-05	0.00E+00
827	600052.6	4176693	8.05E-05	2.17E-04	0.00E+00	8.05E-05	2.17E-04	0.00E+00	1.31E-05	3.28E-05	0.00E+00	6.83E-06	1.25E-05	0.00E+00
828	600043.7	4176696	8.19E-05	2.21E-04	0.00E+00	8.19E-05	2.21E-04	0.00E+00	1.33E-05	3.34E-05	0.00E+00	6.95E-06	1.27E-05	0.00E+00
829	600034.8	4176698	8.35E-05	2.25E-04	0.00E+00	8.35E-05	2.25E-04	0.00E+00	1.36E-05	3.40E-05	0.00E+00	7.09E-06	1.30E-05	0.00E+00
830	600025.9	4176701	8.53E-05	2.30E-04	0.00E+00	8.53E-05	2.30E-04	0.00E+00	1.39E-05	3.48E-05	0.00E+00	7.25E-06	1.33E-05	0.00E+00
831	600017.1	4176703	8.74E-05	2.36E-04	0.00E+00	8.74E-05	2.36E-04	0.00E+00	1.42E-05	3.56E-05	0.00E+00	7.42E-06	1.36E-05	0.00E+00
832	600008.2	4176706	8.97E-05	2.42E-04	0.00E+00	8.97E-05	2.42E-04	0.00E+00	1.46E-05	3.66E-05	0.00E+00	7.62E-06	1.39E-05	0.00E+00
833	599999.3	4176709	9.22E-05	2.48E-04	0.00E+00	9.22E-05	2.48E-04	0.00E+00	1.50E-05	3.76E-05	0.00E+00	7.83E-06	1.43E-05	0.00E+00
834	599990.5	4176711	9.47E-05	2.55E-04	0.00E+00	9.47E-05	2.55E-04	0.00E+00	1.54E-05	3.86E-05	0.00E+00	8.04E-06	1.47E-05	0.00E+00
835	599981.6	4176714	9.72E-05	2.62E-04	0.00E+00	9.72E-05	2.62E-04	0.00E+00	1.58E-05	3.96E-05	0.00E+00	8.26E-06	1.51E-05	0.00E+00
836	599972.7	4176716	0.0001	2.71E-04	0.00E+00	1.00E-04	2.71E-04	0.00E+00	1.63E-05	4.09E-05	0.00E+00	8.52E-06	1.56E-05	0.00E+00
837	599963.9	4176719	0.000104	2.81E-04	0.00E+00	1.04E-04	2.81E-04	0.00E+00	1.70E-05	4.25E-05	0.00E+00	8.85E-06	1.62E-05	0.00E+00
838	599955	4176722	0.000109	2.93E-04	0.00E+00	1.09E-04	2.93E-04	0.00E+00	1.77E-05	4.44E-05	0.00E+00	9.24E-06	1.69E-05	0.00E+00
839	599946.1	4176724	0.000114	3.07E-04	0.00E+00	1.14E-04	3.07E-04	0.00E+00	1.85E-05	4.64E-05	0.00E+00	9.67E-06	1.77E-05	0.00E+00
840	599857.4	4176750	0.000158	4.25E-04	0.00E+00	1.58E-04	4.25E-04	0.00E+00	2.56E-05	6.43E-05	0.00E+00	1.34E-05	2.45E-05	0.00E+00
841	599848.5	4176753	0.000159	4.29E-04	0.00E+00	1.59E-04	4.29E-04	0.00E+00	2.59E-05	6.48E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
842	599839.7	4176755	0.000159	4.29E-04	0.00E+00	1.59E-04	4.29E-04	0.00E+00	2.59E-05	6.49E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
843	599830.8	4176758	0.000158	4.27E-04	0.00E+00	1.58E-04	4.27E-04	0.00E+00	2.57E-05	6.45E-05	0.00E+00	1.34E-05	2.46E-05	0.00E+00
844	599821.9	4176761	0.000157	4.24E-04	0.00E+00	1.57E-04	4.24E-04	0.00E+00	2.56E-05	6.42E-05	0.00E+00	1.34E-05	2.45E-05	0.00E+00
845	599813.1	4176763	0.000157	4.23E-04	0.00E+00	1.57E-04	4.23E-04	0.00E+00	2.55E-05	6.39E-05	0.00E+00	1.33E-05	2.44E-05	0.00E+00
846	599804.2	4176766	0.000157	4.22E-04	0.00E+00	1.57E-04	4.22E-04	0.00E+00	2.55E-05	6.38E-05	0.00E+00	1.33E-05	2.43E-05	0.00E+00
847	599795.3	4176768	0.000156	4.21E-04	0.00E+00	1.56E-04	4.21E-04	0.00E+00	2.54E-05	6.36E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
848	599786.5	4176771	0.000156	4.20E-04	0.00E+00	1.56E-04	4.20E-04	0.00E+00	2.53E-05	6.35E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
849	599777.6	4176774	0.000155	4.17E-04	0.00E+00	1.55E-04	4.17E-04	0.00E+00	2.51E-05	6.30E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
850	599768.7	4176776	0.000153	4.14E-04	0.00E+00	1.53E-04	4.14E-04	0.00E+00	2.50E-05	6.26E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
851	599759.9	4176779	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.48E-05	6.22E-05	0.00E+00	1.30E-05	2.37E-05	0.00E+00
852	599751	4176781	0.000152	4.10E-04	0.00E+00	1.52E-04	4.10E-04	0.00E+00	2.47E-05	6.20E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
853	599742.1	4176784	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.46E-05	6.16E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
854	599733.2	4176786	0.000151	4.06E-04	0.00E+00	1.51E-04	4.06E-04	0.00E+00	2.45E-05	6.15E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
855	599724.4	4176789	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.46E-05	6.16E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
856	599715.5	4176792	0.000149	4.01E-04	0.00E+00	1.49E-04	4.01E-04	0.00E+00	2.42E-05	6.07E-05	0.00E+00	1.26E-05	2.31E-05	0.00E+00
857	599706.6	4176794	0.000146	3.94E-04	0.00E+00	1.46E-04	3.94E-04	0.00E+00	2.38E-05	5.96E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
858	600398.4	4176115	0.000101	2.73E-04	0.00E+00	1.01E-04	2.73E-04	0.00E+00	1.65E-05	4.13E-05	0.00E+00	8.60E-06	1.57E-05	0.00E+00
859	600398	4176105	0.000104	2.80E-04	0.00E+00	1.04E-04	2.80E-04	0.00E+00	1.69E-05	4.24E-05	0.00E+00	8.83E-06	1.62E-05	0.00E+00
860	600397.6	4176096	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.74E-05	4.37E-05	0.00E+00	9.11E-06	1.67E-05	0.00E+00
861	600397.3	4176087	0.000111	2.98E-04	0.00E+00	1.11E-04	2.98E-04	0.00E+00	1.80E-05	4.51E-05	0.00E+00	9.40E-06	1.72E-05	0.00E+00
862	600396.9	4176077	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.71E-06	1.78E-05	0.00E+00
863	600396.5	4176068	0.000114	3.07E-04	0.00E+00	1.14E-04	3.07E-04	0.00E+00	1.85E-05	4.65E-05	0.00E+00	9.68E-06	1.77E-05	0.00E+00
864	600414.8	4176123	9.42E-05	2.54E-04	0.00E+00	9.42E-05	2.54E-04	0.00E+00	1.53E-05	3.84E-05	0.00E+00	8.00E-06	1.46E-05	0.00E+00
865	600411.1	4176131	9.34E-05	2.52E-04	0.00E+00	9.34E-05	2.52E-04	0.00E+00	1.52E-05	3.81E-05	0.00E+00	7.93E-06	1.45E-05	0.00E+00
866	600407.5	4176140	9.25E-05	2.49E-04	0.00E+00	9.25E-05	2.49E-04	0.00E+00	1.50E-05	3.77E-05	0.00E+00	7.85E-06	1.44E-05	0.00E+00
867	600403.8	4176148	9.14E-05	2.46E-04	0.00E+00	9.14E-05	2.46E-04	0.00E+00	1.49E-05	3.73E-05	0.00E+00	7.76E-06	1.42E-05	0.00E+00
868	600400.2	4176157	9.03E-05	2.43E-04	0.00E+00	9.03E-05	2.43E-04	0.00E+00	1.47E-05	3.68E-05	0.00E+00	7.67E-06	1.40E-05	0.00E+00
869	600396.5	4176166	8.92E-05	2.40E-04	0.00E+00	8.92E-05	2.40E-04	0.00E+00	1.45E-05	3.63E-05	0.00E+00	7.57E-06	1.39E-05	0.00E+00
870	600392.9	4176174	8.78E-05	2.37E-04	0.00E+00	8.78E-05	2.37E-04	0.00E+00	1.43E-05	3.58E-05	0.00E+00	7.46E-06	1.36E-05	0.00E+00
871	600028.4	4176719	7.47E-05	2.01E-04	0.00E+00	7.47E-05	2.01E-04	0.00E+00	1.22E-05	3.05E-05	0.00E+00	6.34E-06	1.16E-05	0.00E+00
872	600019.4	4176722	7.62E-05	2.05E-04	0.00E+00	7.62E-05	2.05E-04	0.00E+00	1.24E-05	3.11E-05	0.00E+00	6.47E-06	1.18E-05	0.00E+00
873	600010.4	4176724	7.79E-05	2.10E-04	0.00E+00	7.79E-05	2.10E-04	0.00E+00	1.27E-05	3.18E-05	0.00E+00	6.62E-06	1.21E-05	0.00E+00
874	600001.4	4176727	8E-05	2.16E-04	0.00E+00	8.00E-05	2.16E-04	0.00E+00	1.30E-05	3.26E-05	0.00E+00	6.79E-06	1.24E-05	0.00E+00
875	599992.4	4176730	8.22E-05	2.22E-04	0.00E+00	8.22E-05	2.22E-04	0.00E+00	1.34E-05	3.35E-05	0.00E+00	6.98E-06	1.28E-05	0.00E+00
876	599983.5	4176732	8.48E-05	2.29E-04	0.00E+00	8.48E-05	2.29E-04	0.00E+00	1.38E-05	3.46E-05	0.00E+00	7.20E-06	1.32E-05	0.00E+00
877	599974.5	4176735	8.8E-05	2.37E-04	0.00E+00	8.80E-05	2.37E-04	0.00E+00	1.43E-05	3.59E-05	0.00E+00	7.47E-06	1.37E-05	0.00E+00
878	599965.5	4176737	9.25E-05	2.49E-04	0.00E+00	9.25E-05	2.49E-04	0.00E+00	1.50E-05	3.77E-05	0.00E+00	7.86E-06	1.44E-05	0.00E+00
879	599956.5	4176740	9.73E-05	2.62E-04	0.00E+00	9.73E-05	2.62E-04	0.00E+00	1.58E-05	3.97E-05	0.00E+00	8.26E-06	1.51E-05	0.00E+00
880	599947.5	4176743	0.000102	2.75E-04	0.00E+00	1.02E-04	2.75E-04	0.00E+00	1.66E-05	4.16E-05	0.00E+00	8.67E-06	1.59E-05	0.00E+00
881	599938.5	4176745	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.74E-05	4.36E-05	0.00E+00	9.09E-06	1.66E-05	0.00E+00
882	599929.5	4176748	0.000112	3.01E-04	0.00E+00	1.12E-04	3.01E-04	0.00E+00	1.82E-05	4.56E-05	0.00E+00	9.49E-06	1.74E-05	0.00E+00
883	599920.6	4176751	0.000116	3.14E-04	0.00E+00	1.16E-04	3.14E-04	0.00E+00	1.89E-05	4.75E-05	0.00E+00	9.89E-06	1.81E-05	0.00E+00
884	599911.6	4176753	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.94E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
885	599839.7	4176774	0.000133	3.60E-04	0.00E+00	1.33E-04	3.60E-04	0.00E+00	2.17E-05	5.44E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
886	599830.7	4176777	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00
887	599821.7	4176779	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.39E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
888	599812.7	4176782	0.000134	3.60E-04	0.00E+00	1.34E-04	3.60E-04	0.00E+00	2.18E-05	5.45E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
889	599803.7	4176785	0.000133	3.59E-04	0.00E+00	1.33E-04	3.59E-04	0.00E+00	2.17E-05	5.43E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
890	599794.7	4176787	0.000133	3.58E-04	0.00E+00	1.33E-04	3.58E-04	0.00E+00	2.16E-05	5.42E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
891	599785.8	4176790	0.000133	3.58E-04	0.00E+00	1.33E-04	3.58E-04	0.00E+00	2.16E-05	5.42E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
892	599776.8	4176793	0.000133	3.58E-04	0.00E+00	1.33E-04	3.58E-04	0.00E+00	2.16E-05	5.41E-05	0.00E+00	1.13E-05	2.06E-05	0.00E+00
893	599767.8	4176795	0.000133	3.59E-04	0.00E+00	1.33E-04	3.59E-04	0.00E+00	2.16E-05	5.42E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
894	599758.8	4176798	0.000135	3.65E-04	0.00E+00	1.35E-04	3.65E-04	0.00E+00	2.20E-05	5.52E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
895	599749.8	4176800	0.000138	3.73E-04	0.00E+00	1.38E-04	3.73E-04	0.00E+00	2.25E-05	5.64E-05	0.00E+00	1.17E-05	2.15E-05	0.00E+00
896	599740.8	4176803	0.000141	3.79E-04	0.00E+00	1.41E-04	3.79E-04	0.00E+00	2.29E-05	5.73E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
897	599731.8	4176806	0.000142	3.84E-04	0.00E+00	1.42E-04	3.84E-04	0.00E+00	2.32E-05	5.80E-05	0.00E+00	1.21E-05	2.21E-05	0.00E+00
898	600418.4	4176114	9.49E-05	2.56E-04	0.00E+00	9.49E-05	2.56E-04	0.00E+00	1.54E-05	3.87E-05	0.00E+00	8.06E-06	1.48E-05	0.00E+00
899	600418	4176105	9.72E-05	2.62E-04	0.00E+00	9.72E-05	2.62E-04	0.00E+00	1.58E-05	3.96E-05	0.00E+00	8.25E-06	1.51E-05	0.00E+00
900	600417.6	4176095	9.98E-05	2.69E-04	0.00E+00	9.98E-05	2.69E-04	0.00E+00	1.62E-05	4.07E-05	0.00E+00	8.47E-06	1.55E-05	0.00E+00
901	600417.2	4176086	0.000103	2.76E-04	0.00E+00	1.03E-04	2.76E-04	0.00E+00	1.67E-05	4.18E-05	0.00E+00	8.71E-06	1.59E-05	0.00E+00
902	600416.8	4176076	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.30E-05	0.00E+00	8.96E-06	1.64E-05	0.00E+00
903	600416.4	4176067	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.30E-05	0.00E+00	8.95E-06	1.64E-05	0.00E+00
904	600434.8	4176122	8.85E-05	2.39E-04	0.00E+00	8.85E-05	2.39E-04	0.00E+00	1.44E-05	3.61E-05	0.00E+00	7.51E-06	1.37E-05	0.00E+00
905	600431.1	4176130	8.79E-05	2.37E-04	0.00E+00	8.79E-05	2.37E-04	0.00E+00	1.43E-05	3.59E-05	0.00E+00	7.47E-06	1.37E-05	0.00E+00
906	600427.5	4176139	8.73E-05	2.35E-04	0.00E+00	8.73E-05	2.35E-04	0.00E+00	1.42E-05	3.56E-05	0.00E+00	7.41E-06	1.36E-05	0.00E+00
907	600423.8	4176147	8.64E-05	2.33E-04	0.00E+00	8.64E-05	2.33E-04	0.00E+00	1.40E-05	3.52E-05	0.00E+00	7.33E-06	1.34E-05	0.00E+00

908	600420.2	4176156	8.53E-05	2.30E-04	0.00E+00	8.53E-05	2.30E-04	0.00E+00	1.39E-05	3.48E-05	0.00E+00	7.25E-06	1.33E-05	0.00E+00
909	600416.6	4176165	8.43E-05	2.27E-04	0.00E+00	8.43E-05	2.27E-04	0.00E+00	1.37E-05	3.44E-05	0.00E+00	7.16E-06	1.31E-05	0.00E+00
910	600015.2	4176742	7.01E-05	1.89E-04	0.00E+00	7.01E-05	1.89E-04	0.00E+00	1.14E-05	2.86E-05	0.00E+00	5.95E-06	1.09E-05	0.00E+00
911	600006.2	4176744	7.26E-05	1.96E-04	0.00E+00	7.26E-05	1.96E-04	0.00E+00	1.18E-05	2.96E-05	0.00E+00	6.16E-06	1.13E-05	0.00E+00
912	599997.3	4176747	7.54E-05	2.03E-04	0.00E+00	7.54E-05	2.03E-04	0.00E+00	1.23E-05	3.07E-05	0.00E+00	6.40E-06	1.17E-05	0.00E+00
913	599988.3	4176750	7.87E-05	2.12E-04	0.00E+00	7.87E-05	2.12E-04	0.00E+00	1.28E-05	3.21E-05	0.00E+00	6.68E-06	1.22E-05	0.00E+00
914	599979.3	4176752	8.25E-05	2.23E-04	0.00E+00	8.25E-05	2.23E-04	0.00E+00	1.34E-05	3.36E-05	0.00E+00	7.01E-06	1.28E-05	0.00E+00
915	599970.4	4176755	8.7E-05	2.35E-04	0.00E+00	8.70E-05	2.35E-04	0.00E+00	1.42E-05	3.55E-05	0.00E+00	7.39E-06	1.35E-05	0.00E+00
916	599961.4	4176757	9.17E-05	2.47E-04	0.00E+00	9.17E-05	2.47E-04	0.00E+00	1.49E-05	3.74E-05	0.00E+00	7.79E-06	1.42E-05	0.00E+00
917	599952.4	4176760	9.49E-05	2.56E-04	0.00E+00	9.49E-05	2.56E-04	0.00E+00	1.54E-05	3.87E-05	0.00E+00	8.06E-06	1.48E-05	0.00E+00
918	599943.5	4176763	9.81E-05	2.64E-04	0.00E+00	9.81E-05	2.64E-04	0.00E+00	1.60E-05	4.00E-05	0.00E+00	8.33E-06	1.52E-05	0.00E+00
919	599934.5	4176765	0.000101	2.72E-04	0.00E+00	1.01E-04	2.72E-04	0.00E+00	1.64E-05	4.11E-05	0.00E+00	8.57E-06	1.57E-05	0.00E+00
920	599925.5	4176768	0.000103	2.79E-04	0.00E+00	1.03E-04	2.79E-04	0.00E+00	1.68E-05	4.21E-05	0.00E+00	8.78E-06	1.61E-05	0.00E+00
921	599916.6	4176771	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.30E-05	0.00E+00	8.95E-06	1.64E-05	0.00E+00
922	599907.6	4176773	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.36E-05	0.00E+00	9.08E-06	1.66E-05	0.00E+00
923	599898.7	4176776	0.000108	2.90E-04	0.00E+00	1.08E-04	2.90E-04	0.00E+00	1.75E-05	4.39E-05	0.00E+00	9.14E-06	1.67E-05	0.00E+00
924	599889.7	4176778	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.41E-05	0.00E+00	9.18E-06	1.68E-05	0.00E+00
925	599880.7	4176781	0.000109	2.93E-04	0.00E+00	1.09E-04	2.93E-04	0.00E+00	1.77E-05	4.43E-05	0.00E+00	9.22E-06	1.69E-05	0.00E+00
926	599818	4176799	0.000113	3.03E-04	0.00E+00	1.13E-04	3.03E-04	0.00E+00	1.83E-05	4.59E-05	0.00E+00	9.56E-06	1.75E-05	0.00E+00
927	599809	4176802	0.000116	3.12E-04	0.00E+00	1.16E-04	3.12E-04	0.00E+00	1.88E-05	4.71E-05	0.00E+00	9.81E-06	1.80E-05	0.00E+00
928	599800.1	4176805	0.000117	3.15E-04	0.00E+00	1.17E-04	3.15E-04	0.00E+00	1.90E-05	4.77E-05	0.00E+00	9.92E-06	1.82E-05	0.00E+00
929	599791.1	4176807	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
930	599782.1	4176810	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.95E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
931	599773.2	4176812	0.000125	3.37E-04	0.00E+00	1.25E-04	3.37E-04	0.00E+00	2.04E-05	5.10E-05	0.00E+00	1.06E-05	1.95E-05	0.00E+00
932	599764.2	4176815	0.00013	3.50E-04	0.00E+00	1.30E-04	3.50E-04	0.00E+00	2.11E-05	5.29E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
933	599755.2	4176818	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.19E-05	5.50E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
934	600438.4	4176113	8.89E-05	2.40E-04	0.00E+00	8.89E-05	2.40E-04	0.00E+00	1.45E-05	3.63E-05	0.00E+00	7.55E-06	1.38E-05	0.00E+00
935	600438	4176104	9.07E-05	2.45E-04	0.00E+00	9.07E-05	2.45E-04	0.00E+00	1.48E-05	3.70E-05	0.00E+00	7.70E-06	1.41E-05	0.00E+00
936	600437.6	4176094	9.26E-05	2.50E-04	0.00E+00	9.26E-05	2.50E-04	0.00E+00	1.51E-05	3.78E-05	0.00E+00	7.86E-06	1.44E-05	0.00E+00
937	600437.2	4176085	9.46E-05	2.55E-04	0.00E+00	9.46E-05	2.55E-04	0.00E+00	1.54E-05	3.86E-05	0.00E+00	8.03E-06	1.47E-05	0.00E+00
938	600436.8	4176076	9.66E-05	2.60E-04	0.00E+00	9.66E-05	2.60E-04	0.00E+00	1.57E-05	3.94E-05	0.00E+00	8.20E-06	1.50E-05	0.00E+00
939	600436.4	4176066	9.69E-05	2.61E-04	0.00E+00	9.69E-05	2.61E-04	0.00E+00	1.58E-05	3.95E-05	0.00E+00	8.23E-06	1.51E-05	0.00E+00
940	600454.8	4176121	8.36E-05	2.25E-04	0.00E+00	8.36E-05	2.25E-04	0.00E+00	1.36E-05	3.41E-05	0.00E+00	7.10E-06	1.30E-05	0.00E+00
941	600451.1	4176129	8.29E-05	2.23E-04	0.00E+00	8.29E-05	2.23E-04	0.00E+00	1.35E-05	3.38E-05	0.00E+00	7.04E-06	1.29E-05	0.00E+00
942	600447.5	4176138	8.23E-05	2.22E-04	0.00E+00	8.23E-05	2.22E-04	0.00E+00	1.34E-05	3.36E-05	0.00E+00	6.99E-06	1.28E-05	0.00E+00
943	600443.9	4176147	8.17E-05	2.20E-04	0.00E+00	8.17E-05	2.20E-04	0.00E+00	1.33E-05	3.33E-05	0.00E+00	6.94E-06	1.27E-05	0.00E+00
944	600046.8	4176751	6.19E-05	1.67E-04	0.00E+00	6.19E-05	1.67E-04	0.00E+00	1.01E-05	2.52E-05	0.00E+00	5.26E-06	9.62E-06	0.00E+00
945	600037.8	4176754	6.33E-05	1.71E-04	0.00E+00	6.33E-05	1.71E-04	0.00E+00	1.03E-05	2.58E-05	0.00E+00	5.37E-06	9.83E-06	0.00E+00
946	600028.9	4176757	6.48E-05	1.75E-04	0.00E+00	6.48E-05	1.75E-04	0.00E+00	1.05E-05	2.64E-05	0.00E+00	5.50E-06	1.01E-05	0.00E+00
947	599993.1	4176767	7.42E-05	2.00E-04	0.00E+00	7.42E-05	2.00E-04	0.00E+00	1.21E-05	3.02E-05	0.00E+00	6.30E-06	1.15E-05	0.00E+00
948	599984.2	4176770	7.66E-05	2.07E-04	0.00E+00	7.66E-05	2.07E-04	0.00E+00	1.25E-05	3.12E-05	0.00E+00	6.51E-06	1.19E-05	0.00E+00
949	599975.3	4176772	7.9E-05	2.13E-04	0.00E+00	7.90E-05	2.13E-04	0.00E+00	1.29E-05	3.22E-05	0.00E+00	6.71E-06	1.23E-05	0.00E+00
950	599966.3	4176775	8.14E-05	2.19E-04	0.00E+00	8.14E-05	2.19E-04	0.00E+00	1.32E-05	3.32E-05	0.00E+00	6.91E-06	1.26E-05	0.00E+00
951	599957.4	4176777	8.26E-05	2.23E-04	0.00E+00	8.26E-05	2.23E-04	0.00E+00	1.34E-05	3.37E-05	0.00E+00	7.02E-06	1.28E-05	0.00E+00
952	599948.4	4176780	8.36E-05	2.26E-04	0.00E+00	8.36E-05	2.26E-04	0.00E+00	1.36E-05	3.41E-05	0.00E+00	7.10E-06	1.30E-05	0.00E+00
953	599939.5	4176783	8.48E-05	2.29E-04	0.00E+00	8.48E-05	2.29E-04	0.00E+00	1.38E-05	3.46E-05	0.00E+00	7.20E-06	1.32E-05	0.00E+00
954	599930.5	4176785	8.59E-05	2.31E-04	0.00E+00	8.59E-05	2.31E-04	0.00E+00	1.40E-05	3.50E-05	0.00E+00	7.29E-06	1.33E-05	0.00E+00
955	599921.6	4176788	8.66E-05	2.33E-04	0.00E+00	8.66E-05	2.33E-04	0.00E+00	1.41E-05	3.53E-05	0.00E+00	7.35E-06	1.35E-05	0.00E+00
956	599912.7	4176791	8.7E-05	2.35E-04	0.00E+00	8.70E-05	2.35E-04	0.00E+00	1.42E-05	3.55E-05	0.00E+00	7.39E-06	1.35E-05	0.00E+00
957	599903.7	4176793	8.7E-05	2.35E-04	0.00E+00	8.70E-05	2.35E-04	0.00E+00	1.42E-05	3.55E-05	0.00E+00	7.39E-06	1.35E-05	0.00E+00
958	599894.8	4176796	8.76E-05	2.36E-04	0.00E+00	8.76E-05	2.36E-04	0.00E+00	1.43E-05	3.57E-05	0.00E+00	7.44E-06	1.36E-05	0.00E+00
959	599885.8	4176798	8.97E-05	2.42E-04	0.00E+00	8.97E-05	2.42E-04	0.00E+00	1.46E-05	3.66E-05	0.00E+00	7.61E-06	1.39E-05	0.00E+00
960	599876.9	4176801	9.18E-05	2.48E-04	0.00E+00	9.18E-05	2.48E-04	0.00E+00	1.49E-05	3.74E-05	0.00E+00	7.80E-06	1.43E-05	0.00E+00
961	599867.9	4176804	9.25E-05	2.49E-04	0.00E+00	9.25E-05	2.49E-04	0.00E+00	1.51E-05	3.77E-05	0.00E+00	7.86E-06	1.44E-05	0.00E+00
962	599859	4176806	9.24E-05	2.49E-04	0.00E+00	9.24E-05	2.49E-04	0.00E+00	1.50E-05	3.77E-05	0.00E+00	7.85E-06	1.44E-05	0.00E+00
963	599796.4	4176825	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.41E-05	0.00E+00	9.19E-06	1.68E-05	0.00E+00
964	599787.5	4176827	0.000113	3.05E-04	0.00E+00	1.13E-04	3.05E-04	0.00E+00	1.84E-05	4.60E-05	0.00E+00	9.59E-06	1.75E-05	0.00E+00
965	599778.5	4176830	0.00012	3.24E-04	0.00E+00	1.20E-04	3.24E-04	0.00E+00	1.96E-05	4.90E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
966	600458.4	4176112	8.43E-05	2.27E-04	0.00E+00	8.43E-05	2.27E-04	0.00E+00	1.37E-05	3.44E-05	0.00E+00	7.16E-06	1.31E-05	0.00E+00
967	600458	4176103	8.6E-05	2.32E-04	0.00E+00	8.60E-05	2.32E-04	0.00E+00	1.40E-05	3.51E-05	0.00E+00	7.30E-06	1.34E-05	0.00E+00
968	600457.6	4176093	8.79E-05	2.37E-04	0.00E+00	8.79E-05	2.37E-04	0.00E+00	1.43E-05	3.58E-05	0.00E+00	7.47E-06	1.37E-05	0.00E+00
969	600457.2	4176084	8.99E-05	2.42E-04	0.00E+00	8.99E-05	2.42E-04	0.00E+00	1.46E-05	3.66E-05	0.00E+00	7.63E-06	1.40E-05	0.00E+00
970	600456.8	4176075	9.17E-05	2.47E-04	0.00E+00	9.17E-05	2.47E-04	0.00E+00	1.49E-05	3.74E-05	0.00E+00	7.78E-06	1.42E-05	0.00E+00
971	600456.4	4176065	9.24E-05	2.49E-04	0.00E+00	9.24E-05	2.49E-04	0.00E+00	1.50E-05	3.77E-05	0.00E+00	7.85E-06	1.44E-05	0.00E+00
972	600474.7	4176120	7.96E-05	2.15E-04	0.00E+00	7.96E-05	2.15E-04	0.00E+00	1.30E-05	3.25E-05	0.00E+00	6.76E-06	1.24E-05	0.00E+00
973	600471.1	4176129	7.87E-05	2.12E-04	0.00E+00	7.87E-05	2.12E-04	0.00E+00	1.28E-05	3.21E-05	0.00E+00	6.68E-06	1.22E-05	0.00E+00
974	600051.5	4176769	5.91E-05	1.59E-04	0.00E+00	5.91E-05	1.59E-04	0.00E+00	9.61E-06	2.41E-05	0.00E+00	5.02E-06	9.18E-06	0.00E+00
975	600042.6	4176771	6.02E-05	1.62E-04	0.00E+00	6.02E-05	1.62E-04	0.00E+00	9.79E-06	2.45E-05	0.00E+00	5.11E-06	9.35E-06	0.00E+00
976	600033.7	4176774	6.14E-05	1.66E-04	0.00E+00	6.14E-05	1.66E-04	0.00E+00	9.99E-06	2.50E-05	0.00E+00	5.22E-06	9.55E-06	0.00E+00
977	600024.8	4176777	6.29E-05	1.70E-04	0.00E+00	6.29E-05	1.70E-04	0.00E+00	1.02E-05	2.56E-05	0.00E+00	5.34E-06	9.77E-06	0.00E+00
978	600015.8	4176779	6.43E-05	1.73E-04	0.00E+00	6.43E-05	1.73E-04	0.00E+00	1.05E-05	2.62E-05	0.00E+00	5.46E-06	9.99E-06	0.00E+00
979	600006.9	4176782	6.56E-05	1.77E-04	0.00E+00	6.56E-05	1.77E-04	0.00E+00	1.07E-05	2.68E-05	0.00E+00	5.57E-06	1.02E-05	0.00E+00
980	599980.2	4176790	6.91E-05	1.86E-04	0.00E+00	6.91E-05	1.86E-04	0.00E+00	1.12E-05	2.82E-05	0.00E+00	5.87E-06	1.07E-05	0.00E+00
981	599971.2	4176792	6.99E-05	1.88E-04	0.00E+00	6.99E-05	1.88E-04	0.00E+00	1.14E-05	2.85E-05	0.00E+00	5.93E-06	1.09E-05	0.00E+00
982	599962.3	4176795	7.05E-05	1.90E-04	0.00E+00	7.05E-05	1.90E-04	0.00E+00	1.15E-05	2.87E-05	0.00E+00	5.98E-06	1.09E-05	0.00E+00
983	599953.4	4176797	7.17E-05	1.93E-04	0.00E+00	7.17E-05	1.93E-04	0.00E+00	1.17E-05	2.92E-05	0.00E+00	6.09E-06	1.11E-05	0.00E+00
984	599944.5	4176800	7.32E-05	1.97E-04	0.00E+00	7.32E-05	1.97E-04	0.00E+00	1.19E-05	2.98E-05	0.00E+00	6.21E-06	1.14E-05	0.00E+00
985	599935.5	4176803	7.48E-05	2.02E-04	0.00E+00	7.48E-05	2.02E-04	0.00E+00	1.22E-05	3.05E-05	0.00E+00	6.35E-06	1.16E-05	0.00E+00
986	599926.6	4176805	7.62E-05	2.05E-04	0.00E+00	7.62E-05	2.05E-04	0.00E+00	1.24E-05	3.11E-05	0.00E+00	6.47E-06	1.18E-05	0.00E+00
987	599917.7	4176808	7.76E-05	2.09E-04	0.00E+00	7.76E-05	2.09E-04	0.00E+00	1.26E-05	3.16E-05	0.00E+00	6.59E-06	1.21E-05	0.00E+00
988	599908.8	4176810	7.93E-05	2.14E-04	0.00E+00	7.93E-05	2.14E-04	0.00E+00	1.29E-05	3.23E-05	0.00E+00	6.73E-06	1.23E-05	0.00E+00
989	599899.9	4176813	8.1E-05	2.18E-04	0.00E+00	8.10E-05	2.18E-04	0.00E+00	1.32E-05	3.30E-05	0.00E+00	6.88E-06	1.26E-05	0.00E+00
990	599890.9	4176816	8.28E-05	2.23E-04	0.00E+00	8.28E-05	2.23E-04	0.00E+00	1.35E-05	3.37E-05	0.00E+00	7.03E-06	1.29E-05	0.00E+00
991	599882	4176818	8.45E-05	2.28E-04	0.00E+00	8.45E-05	2.28E-04	0.00E+00	1.37E-05	3.45E-05	0.00E+00	7.18E-06	1.31E-05	0.00E+00
992	599873.1	4176821	8.62E-05	2.32E-04	0.00E+00	8.62E-05	2.32E-04	0.00E+00	1.40E-05	3.51E-05	0.00E+00	7.32E-06	1.34E-05	0.00E+00
993	599864.2	4176824	8.61E-05	2.32E-04	0.00E+00	8.61E-05	2.32E-04	0.00E+00	1.40E-05	3.51E-05	0.00E+00	7.31E-06	1.34E-05	0.00E+00
994	599855.2	4176826	8.62E-05	2.32E-04	0.00E+00	8.62E-05	2.32E-04	0.00E+00	1.40E-05	3.51E-05	0.00E+00	7.32E-06	1.34E-05	0.00E+00
995	599846.3	4176829	8.87E-05	2.39E-04	0.00E+00	8.87E-05	2.39E-04	0.00E+00	1.44E-05	3.62E-05	0.00E+00	7.53E-06	1.38E-05	0.00E+00
996	599837.4	4176831	9.33E-05	2.52E-04	0.00E+00	9.33E-05	2.52E-04	0.00E+00	1.52E-05	3.80E-05	0.00E+00	7.92E-06	1.45E-05	0.00E+00
997	600478.4	4176111	8.1E-05	2.18E-04	0.00E+00	8.10E-05	2.18E-04	0.00E+00	1.32E-05	3.30E-05	0.00E+00	6.88E-06	1.26E-05	0.00E+00
998	600478	4176102	8.29E-05	2.23E-04	0.00E+00	8.29E-05	2.23E-04	0.00E+00	1.35E-05	3.38E-05	0.00E+00	7.04E-06	1.29E-05	0.00E+00

999	600477.6	4176093	8.48E-05	2.29E-04	0.00E+00	8.48E-05	2.29E-04	0.00E+00	1.38E-05	3.46E-05	0.00E+00	7.20E-06	1.32E-05	0.00E+00
1000	600477.2	4176083	8.68E-05	2.34E-04	0.00E+00	8.68E-05	2.34E-04	0.00E+00	1.41E-05	3.54E-05	0.00E+00	7.37E-06	1.35E-05	0.00E+00
1001	600476.8	4176074	8.87E-05	2.39E-04	0.00E+00	8.87E-05	2.39E-04	0.00E+00	1.44E-05	3.62E-05	0.00E+00	7.54E-06	1.38E-05	0.00E+00
1002	600476.4	4176064	8.99E-05	2.42E-04	0.00E+00	8.99E-05	2.42E-04	0.00E+00	1.46E-05	3.67E-05	0.00E+00	7.64E-06	1.40E-05	0.00E+00
1003	600038.5	4176791	5.78E-05	1.56E-04	0.00E+00	5.78E-05	1.56E-04	0.00E+00	9.41E-06	2.36E-05	0.00E+00	4.91E-06	8.99E-06	0.00E+00
1004	600029.6	4176794	5.92E-05	1.60E-04	0.00E+00	5.92E-05	1.60E-04	0.00E+00	9.63E-06	2.41E-05	0.00E+00	5.03E-06	9.20E-06	0.00E+00
1005	600020.7	4176797	6.04E-05	1.63E-04	0.00E+00	6.04E-05	1.63E-04	0.00E+00	9.82E-06	2.46E-05	0.00E+00	5.13E-06	9.38E-06	0.00E+00
1006	600011.8	4176799	6.07E-05	1.64E-04	0.00E+00	6.07E-05	1.64E-04	0.00E+00	9.88E-06	2.47E-05	0.00E+00	5.15E-06	9.43E-06	0.00E+00
1007	600002.9	4176802	6.12E-05	1.65E-04	0.00E+00	6.12E-05	1.65E-04	0.00E+00	9.95E-06	2.49E-05	0.00E+00	5.19E-06	9.50E-06	0.00E+00
1008	599976.2	4176810	6.29E-05	1.70E-04	0.00E+00	6.29E-05	1.70E-04	0.00E+00	1.02E-05	2.57E-05	0.00E+00	5.34E-06	9.78E-06	0.00E+00
1009	599967.3	4176812	6.35E-05	1.71E-04	0.00E+00	6.35E-05	1.71E-04	0.00E+00	1.03E-05	2.59E-05	0.00E+00	5.39E-06	9.87E-06	0.00E+00
1010	599958.4	4176815	6.45E-05	1.74E-04	0.00E+00	6.45E-05	1.74E-04	0.00E+00	1.05E-05	2.63E-05	0.00E+00	5.48E-06	1.00E-05	0.00E+00
1011	599949.4	4176817	6.61E-05	1.78E-04	0.00E+00	6.61E-05	1.78E-04	0.00E+00	1.08E-05	2.70E-05	0.00E+00	5.61E-06	1.03E-05	0.00E+00
1012	599940.5	4176820	6.76E-05	1.82E-04	0.00E+00	6.76E-05	1.82E-04	0.00E+00	1.10E-05	2.76E-05	0.00E+00	5.74E-06	1.05E-05	0.00E+00
1013	599931.6	4176823	6.92E-05	1.87E-04	0.00E+00	6.92E-05	1.87E-04	0.00E+00	1.13E-05	2.82E-05	0.00E+00	5.88E-06	1.08E-05	0.00E+00
1014	599922.7	4176825	7.09E-05	1.91E-04	0.00E+00	7.09E-05	1.91E-04	0.00E+00	1.15E-05	2.89E-05	0.00E+00	6.02E-06	1.10E-05	0.00E+00
1015	599913.8	4176828	7.42E-05	2.00E-04	0.00E+00	7.42E-05	2.00E-04	0.00E+00	1.21E-05	3.02E-05	0.00E+00	6.30E-06	1.15E-05	0.00E+00
1016	599904.9	4176830	7.85E-05	2.12E-04	0.00E+00	7.85E-05	2.12E-04	0.00E+00	1.28E-05	3.20E-05	0.00E+00	6.67E-06	1.22E-05	0.00E+00
1017	599896	4176833	8.25E-05	2.22E-04	0.00E+00	8.25E-05	2.22E-04	0.00E+00	1.34E-05	3.36E-05	0.00E+00	7.00E-06	1.28E-05	0.00E+00
1018	599887.1	4176836	8.65E-05	2.33E-04	0.00E+00	8.65E-05	2.33E-04	0.00E+00	1.41E-05	3.53E-05	0.00E+00	7.35E-06	1.34E-05	0.00E+00
1019	599878.2	4176838	9.09E-05	2.45E-04	0.00E+00	9.09E-05	2.45E-04	0.00E+00	1.48E-05	3.71E-05	0.00E+00	7.72E-06	1.41E-05	0.00E+00
1020	599869.3	4176841	9.47E-05	2.55E-04	0.00E+00	9.47E-05	2.55E-04	0.00E+00	1.54E-05	3.86E-05	0.00E+00	8.04E-06	1.47E-05	0.00E+00
1021	599860.4	4176843	9.79E-05	2.64E-04	0.00E+00	9.79E-05	2.64E-04	0.00E+00	1.59E-05	3.99E-05	0.00E+00	8.31E-06	1.52E-05	0.00E+00
1022	599851.5	4176846	0.000102	2.74E-04	0.00E+00	1.02E-04	2.74E-04	0.00E+00	1.65E-05	4.14E-05	0.00E+00	8.62E-06	1.58E-05	0.00E+00
1023	599842.6	4176849	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.31E-05	0.00E+00	8.98E-06	1.64E-05	0.00E+00
1024	599833.7	4176851	0.000112	3.02E-04	0.00E+00	1.12E-04	3.02E-04	0.00E+00	1.82E-05	4.57E-05	0.00E+00	9.52E-06	1.74E-05	0.00E+00
1025	599824.8	4176854	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.84E-05	0.00E+00
1026	600498.4	4176111	8.03E-05	2.17E-04	0.00E+00	8.03E-05	2.17E-04	0.00E+00	1.31E-05	3.28E-05	0.00E+00	6.82E-06	1.25E-05	0.00E+00
1027	600498	4176101	8.21E-05	2.21E-04	0.00E+00	8.21E-05	2.21E-04	0.00E+00	1.34E-05	3.35E-05	0.00E+00	6.97E-06	1.28E-05	0.00E+00
1028	600497.6	4176092	8.39E-05	2.26E-04	0.00E+00	8.39E-05	2.26E-04	0.00E+00	1.36E-05	3.42E-05	0.00E+00	7.12E-06	1.30E-05	0.00E+00
1029	600497.2	4176082	8.57E-05	2.31E-04	0.00E+00	8.57E-05	2.31E-04	0.00E+00	1.39E-05	3.49E-05	0.00E+00	7.27E-06	1.33E-05	0.00E+00
1030	600496.8	4176073	8.75E-05	2.36E-04	0.00E+00	8.75E-05	2.36E-04	0.00E+00	1.42E-05	3.57E-05	0.00E+00	7.43E-06	1.36E-05	0.00E+00
1031	600496.4	4176064	8.92E-05	2.40E-04	0.00E+00	8.92E-05	2.40E-04	0.00E+00	1.45E-05	3.64E-05	0.00E+00	7.57E-06	1.39E-05	0.00E+00
1032	600031.5	4176812	5.41E-05	1.46E-04	0.00E+00	5.41E-05	1.46E-04	0.00E+00	8.80E-06	2.21E-05	0.00E+00	4.59E-06	8.41E-06	0.00E+00
1033	600022.5	4176815	5.48E-05	1.48E-04	0.00E+00	5.48E-05	1.48E-04	0.00E+00	8.91E-06	2.23E-05	0.00E+00	4.65E-06	8.51E-06	0.00E+00
1034	600013.5	4176817	5.53E-05	1.49E-04	0.00E+00	5.53E-05	1.49E-04	0.00E+00	8.99E-06	2.25E-05	0.00E+00	4.69E-06	8.59E-06	0.00E+00
1035	600004.5	4176820	5.59E-05	1.51E-04	0.00E+00	5.59E-05	1.51E-04	0.00E+00	9.10E-06	2.28E-05	0.00E+00	4.75E-06	8.69E-06	0.00E+00
1036	599995.5	4176823	5.68E-05	1.53E-04	0.00E+00	5.68E-05	1.53E-04	0.00E+00	9.24E-06	2.31E-05	0.00E+00	4.82E-06	8.82E-06	0.00E+00
1037	599977.5	4176828	5.85E-05	1.58E-04	0.00E+00	5.85E-05	1.58E-04	0.00E+00	9.52E-06	2.39E-05	0.00E+00	4.97E-06	9.09E-06	0.00E+00
1038	599968.5	4176831	6.03E-05	1.63E-04	0.00E+00	6.03E-05	1.63E-04	0.00E+00	9.82E-06	2.46E-05	0.00E+00	5.12E-06	9.38E-06	0.00E+00
1039	599959.5	4176833	6.27E-05	1.69E-04	0.00E+00	6.27E-05	1.69E-04	0.00E+00	1.02E-05	2.56E-05	0.00E+00	5.32E-06	9.74E-06	0.00E+00
1040	599950.5	4176836	6.59E-05	1.78E-04	0.00E+00	6.59E-05	1.78E-04	0.00E+00	1.07E-05	2.69E-05	0.00E+00	5.60E-06	1.02E-05	0.00E+00
1041	599941.5	4176839	6.94E-05	1.87E-04	0.00E+00	6.94E-05	1.87E-04	0.00E+00	1.13E-05	2.83E-05	0.00E+00	5.89E-06	1.08E-05	0.00E+00
1042	599932.5	4176841	7.32E-05	1.97E-04	0.00E+00	7.32E-05	1.97E-04	0.00E+00	1.19E-05	2.99E-05	0.00E+00	6.22E-06	1.14E-05	0.00E+00
1043	599923.5	4176844	7.81E-05	2.11E-04	0.00E+00	7.81E-05	2.11E-04	0.00E+00	1.27E-05	3.18E-05	0.00E+00	6.63E-06	1.21E-05	0.00E+00
1044	599914.5	4176846	8.38E-05	2.26E-04	0.00E+00	8.38E-05	2.26E-04	0.00E+00	1.36E-05	3.42E-05	0.00E+00	7.12E-06	1.30E-05	0.00E+00
1045	599905.5	4176849	9.06E-05	2.44E-04	0.00E+00	9.06E-05	2.44E-04	0.00E+00	1.47E-05	3.69E-05	0.00E+00	7.70E-06	1.41E-05	0.00E+00
1046	599896.4	4176852	9.6E-05	2.59E-04	0.00E+00	9.60E-05	2.59E-04	0.00E+00	1.56E-05	3.91E-05	0.00E+00	8.15E-06	1.49E-05	0.00E+00
1047	599887.4	4176854	0.000101	2.72E-04	0.00E+00	1.01E-04	2.72E-04	0.00E+00	1.64E-05	4.11E-05	0.00E+00	8.57E-06	1.57E-05	0.00E+00
1048	599878.4	4176857	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.94E-06	1.64E-05	0.00E+00
1049	599869.4	4176860	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.41E-05	0.00E+00	9.19E-06	1.68E-05	0.00E+00
1050	599860.4	4176862	0.000111	2.99E-04	0.00E+00	1.11E-04	2.99E-04	0.00E+00	1.80E-05	4.52E-05	0.00E+00	9.42E-06	1.72E-05	0.00E+00
1051	599851.4	4176865	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.65E-05	0.00E+00	9.69E-06	1.77E-05	0.00E+00
1052	599842.4	4176868	0.000118	3.18E-04	0.00E+00	1.18E-04	3.18E-04	0.00E+00	1.92E-05	4.81E-05	0.00E+00	1.00E-05	1.83E-05	0.00E+00
1053	599833.4	4176870	0.000122	3.30E-04	0.00E+00	1.22E-04	3.30E-04	0.00E+00	1.99E-05	4.99E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
1054	599824.4	4176873	0.000126	3.41E-04	0.00E+00	1.26E-04	3.41E-04	0.00E+00	2.06E-05	5.16E-05	0.00E+00	1.07E-05	1.97E-05	0.00E+00
1055	599815.4	4176875	0.00013	3.52E-04	0.00E+00	1.30E-04	3.52E-04	0.00E+00	2.12E-05	5.32E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
1056	599806.4	4176878	0.000133	3.59E-04	0.00E+00	1.33E-04	3.59E-04	0.00E+00	2.16E-05	5.42E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
1057	600517.9	4176100	8.37E-05	2.26E-04	0.00E+00	8.37E-05	2.26E-04	0.00E+00	1.36E-05	3.41E-05	0.00E+00	7.11E-06	1.30E-05	0.00E+00
1058	600517.5	4176091	8.54E-05	2.30E-04	0.00E+00	8.54E-05	2.30E-04	0.00E+00	1.39E-05	3.48E-05	0.00E+00	7.25E-06	1.33E-05	0.00E+00
1059	600517.1	4176082	8.7E-05	2.35E-04	0.00E+00	8.70E-05	2.35E-04	0.00E+00	1.42E-05	3.55E-05	0.00E+00	7.39E-06	1.35E-05	0.00E+00
1060	600516.7	4176072	8.88E-05	2.39E-04	0.00E+00	8.88E-05	2.39E-04	0.00E+00	1.44E-05	3.62E-05	0.00E+00	7.54E-06	1.38E-05	0.00E+00
1061	600516.3	4176063	9.04E-05	2.44E-04	0.00E+00	9.04E-05	2.44E-04	0.00E+00	1.47E-05	3.69E-05	0.00E+00	7.68E-06	1.41E-05	0.00E+00
1062	600027.3	4176832	5.15E-05	1.39E-04	0.00E+00	5.15E-05	1.39E-04	0.00E+00	8.38E-06	2.10E-05	0.00E+00	4.38E-06	8.01E-06	0.00E+00
1063	600018.4	4176835	5.29E-05	1.43E-04	0.00E+00	5.29E-05	1.43E-04	0.00E+00	8.60E-06	2.16E-05	0.00E+00	4.49E-06	8.22E-06	0.00E+00
1064	600009.4	4176838	5.44E-05	1.47E-04	0.00E+00	5.44E-05	1.47E-04	0.00E+00	8.86E-06	2.22E-05	0.00E+00	4.62E-06	8.46E-06	0.00E+00
1065	600000.4	4176840	5.63E-05	1.52E-04	0.00E+00	5.63E-05	1.52E-04	0.00E+00	9.15E-06	2.29E-05	0.00E+00	4.78E-06	8.74E-06	0.00E+00
1066	599982.4	4176845	6.06E-05	1.63E-04	0.00E+00	6.06E-05	1.63E-04	0.00E+00	9.85E-06	2.47E-05	0.00E+00	5.14E-06	9.41E-06	0.00E+00
1067	599973.4	4176848	6.33E-05	1.71E-04	0.00E+00	6.33E-05	1.71E-04	0.00E+00	1.03E-05	2.58E-05	0.00E+00	5.38E-06	9.84E-06	0.00E+00
1068	599964.5	4176851	6.64E-05	1.79E-04	0.00E+00	6.64E-05	1.79E-04	0.00E+00	1.08E-05	2.71E-05	0.00E+00	5.64E-06	1.03E-05	0.00E+00
1069	599955.5	4176853	7.02E-05	1.89E-04	0.00E+00	7.02E-05	1.89E-04	0.00E+00	1.14E-05	2.86E-05	0.00E+00	5.96E-06	1.09E-05	0.00E+00
1070	599946.5	4176856	7.44E-05	2.01E-04	0.00E+00	7.44E-05	2.01E-04	0.00E+00	1.21E-05	3.03E-05	0.00E+00	6.32E-06	1.16E-05	0.00E+00
1071	599937.5	4176859	7.87E-05	2.12E-04	0.00E+00	7.87E-05	2.12E-04	0.00E+00	1.28E-05	3.21E-05	0.00E+00	6.69E-06	1.22E-05	0.00E+00
1072	599928.5	4176861	8.4E-05	2.26E-04	0.00E+00	8.40E-05	2.26E-04	0.00E+00	1.37E-05	3.42E-05	0.00E+00	7.13E-06	1.30E-05	0.00E+00
1073	599919.5	4176864	9.01E-05	2.43E-04	0.00E+00	9.01E-05	2.43E-04	0.00E+00	1.47E-05	3.67E-05	0.00E+00	7.65E-06	1.40E-05	0.00E+00
1074	599910.5	4176866	9.68E-05	2.61E-04	0.00E+00	9.68E-05	2.61E-04	0.00E+00	1.57E-05	3.94E-05	0.00E+00	8.22E-06	1.50E-05	0.00E+00
1075	599901.6	4176869	0.000103	2.77E-04	0.00E+00	1.03E-04	2.77E-04	0.00E+00	1.67E-05	4.19E-05	0.00E+00	8.73E-06	1.60E-05	0.00E+00
1076	599892.6	4176872	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.31E-05	0.00E+00	8.99E-06	1.64E-05	0.00E+00
1077	599883.6	4176874	0.000109	2.93E-04	0.00E+00	1.09E-04	2.93E-04	0.00E+00	1.77E-05	4.43E-05	0.00E+00	9.23E-06	1.69E-05	0.00E+00
1078	599874.6	4176877	0.000111	3.00E-04	0.00E+00	1.11E-04	3.00E-04	0.00E+00	1.81E-05	4.54E-05	0.00E+00	9.46E-06	1.73E-05	0.00E+00
1079	599865.6	4176880	0.000115	3.10E-04	0.00E+00	1.15E-04	3.10E-04	0.00E+00	1.87E-05	4.68E-05	0.00E+00	9.75E-06	1.79E-05	0.00E+00
1080	599856.6	4176882	0.000119	3.21E-04	0.00E+00	1.19E-04	3.21E-04	0.00E+00	1.93E-05	4.85E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
1081	599847.6	4176885	0.000123	3.32E-04	0.00E+00	1.23E-04	3.32E-04	0.00E+00	2.01E-05	5.03E-05	0.00E+00	1.05E-05	1.92E-05	0.00E+00
1082	599838.7	4176887	0.000125	3.37E-04	0.00E+00	1.25E-04	3.37E-04	0.00E+00	2.04E-05	5.10E-05	0.00E+00	1.06E-05	1.94E-05	0.00E+00
1083	599829.7	4176890	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.04E-05	5.12E-05	0.00E+00	1.07E-05	1.95E-05	0.00E+00
1084	599820.7	4176893	0.000127	3.42E-04	0.00E+00	1.27E-04	3.42E-04	0.00E+00	2.06E-05	5.17E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
1085	599811.7	4176895	0.000128	3.46E-04	0.00E+00	1.28E-04	3.46E-04	0.00E+00	2.09E-05	5.24E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
1086	599802.7	4176898	0.000129	3.48E-04	0.00E+00	1.29E-04	3.48E-04	0.00E+00	2.10E-05	5.27E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
1087	599793.7	4176901	0.00013	3.51E-04	0.00E+00	1.30E-04	3.51E-04	0.00E+00	2.12E-05	5.31E-05	0.00E+00	1.11E-05	2.02E-05	0.00E+00
1088	600537.5	4176090	8.91E-05	2.40E-04	0.00E+00	8.91E-05	2.40E-04	0.00E+00	1.45E-05	3.63E-05	0.00E+00	7.57E-06	1.39E-05	0.00E+00
1089	600537.1	4176081	9.07E-05	2.45E-04	0.00E+00	9.07E-05	2.45E-04	0.00E+00	1.48E-05	3.70E-05	0.00E+00	7.70E-06	1.41E-05	0.00E+00

1090	600536.7	4176071	9.22E-05	2.49E-04	0.00E+00	9.22E-05	2.49E-04	0.00E+00	1.50E-05	3.76E-05	0.00E+00	7.83E-06	1.43E-05	0.00E+00
1091	600536.3	4176062	9.35E-05	2.52E-04	0.00E+00	9.35E-05	2.52E-04	0.00E+00	1.52E-05	3.81E-05	0.00E+00	7.94E-06	1.45E-05	0.00E+00
1092	600032.2	4176850	5.16E-05	1.39E-04	0.00E+00	5.16E-05	1.39E-04	0.00E+00	8.39E-06	2.10E-05	0.00E+00	4.38E-06	8.02E-06	0.00E+00
1093	600023.2	4176852	5.32E-05	1.43E-04	0.00E+00	5.32E-05	1.43E-04	0.00E+00	8.65E-06	2.17E-05	0.00E+00	4.51E-06	8.26E-06	0.00E+00
1094	600014.3	4176855	5.5E-05	1.48E-04	0.00E+00	5.50E-05	1.48E-04	0.00E+00	8.94E-06	2.24E-05	0.00E+00	4.67E-06	8.54E-06	0.00E+00
1095	599987.4	4176863	6.26E-05	1.69E-04	0.00E+00	6.26E-05	1.69E-04	0.00E+00	1.02E-05	2.55E-05	0.00E+00	5.32E-06	9.73E-06	0.00E+00
1096	599978.4	4176865	6.58E-05	1.77E-04	0.00E+00	6.58E-05	1.77E-04	0.00E+00	1.07E-05	2.68E-05	0.00E+00	5.59E-06	1.02E-05	0.00E+00
1097	599969.4	4176868	6.93E-05	1.87E-04	0.00E+00	6.93E-05	1.87E-04	0.00E+00	1.13E-05	2.83E-05	0.00E+00	5.89E-06	1.08E-05	0.00E+00
1098	599960.5	4176871	7.33E-05	1.98E-04	0.00E+00	7.33E-05	1.98E-04	0.00E+00	1.19E-05	2.99E-05	0.00E+00	6.22E-06	1.14E-05	0.00E+00
1099	599951.5	4176873	7.77E-05	2.10E-04	0.00E+00	7.77E-05	2.10E-04	0.00E+00	1.26E-05	3.17E-05	0.00E+00	6.60E-06	1.21E-05	0.00E+00
1100	599942.5	4176876	8.26E-05	2.23E-04	0.00E+00	8.26E-05	2.23E-04	0.00E+00	1.34E-05	3.37E-05	0.00E+00	7.02E-06	1.28E-05	0.00E+00
1101	599933.6	4176879	8.8E-05	2.37E-04	0.00E+00	8.80E-05	2.37E-04	0.00E+00	1.43E-05	3.59E-05	0.00E+00	7.47E-06	1.37E-05	0.00E+00
1102	599924.6	4176881	9.42E-05	2.54E-04	0.00E+00	9.42E-05	2.54E-04	0.00E+00	1.53E-05	3.84E-05	0.00E+00	7.99E-06	1.46E-05	0.00E+00
1103	599915.6	4176884	0.000101	2.71E-04	0.00E+00	1.01E-04	2.71E-04	0.00E+00	1.64E-05	4.10E-05	0.00E+00	8.54E-06	1.56E-05	0.00E+00
1104	599906.7	4176886	0.000106	2.86E-04	0.00E+00	1.06E-04	2.86E-04	0.00E+00	1.73E-05	4.33E-05	0.00E+00	9.02E-06	1.65E-05	0.00E+00
1105	599897.7	4176889	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.72E-05	4.30E-05	0.00E+00	8.95E-06	1.64E-05	0.00E+00
1106	599888.7	4176892	0.000103	2.79E-04	0.00E+00	1.03E-04	2.79E-04	0.00E+00	1.68E-05	4.21E-05	0.00E+00	8.78E-06	1.61E-05	0.00E+00
1107	599879.8	4176894	0.000101	2.73E-04	0.00E+00	1.01E-04	2.73E-04	0.00E+00	1.65E-05	4.14E-05	0.00E+00	8.61E-06	1.58E-05	0.00E+00
1108	599870.8	4176897	0.0001	2.71E-04	0.00E+00	1.00E-04	2.71E-04	0.00E+00	1.63E-05	4.09E-05	0.00E+00	8.53E-06	1.56E-05	0.00E+00
1109	599861.8	4176900	0.000102	2.74E-04	0.00E+00	1.02E-04	2.74E-04	0.00E+00	1.65E-05	4.14E-05	0.00E+00	8.62E-06	1.58E-05	0.00E+00
1110	599852.9	4176902	0.000103	2.79E-04	0.00E+00	1.03E-04	2.79E-04	0.00E+00	1.68E-05	4.21E-05	0.00E+00	8.77E-06	1.61E-05	0.00E+00
1111	599843.9	4176905	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.32E-05	0.00E+00	8.99E-06	1.65E-05	0.00E+00
1112	599834.9	4176907	0.000109	2.93E-04	0.00E+00	1.09E-04	2.93E-04	0.00E+00	1.77E-05	4.43E-05	0.00E+00	9.23E-06	1.69E-05	0.00E+00
1113	599826	4176910	0.000112	3.03E-04	0.00E+00	1.12E-04	3.03E-04	0.00E+00	1.83E-05	4.58E-05	0.00E+00	9.54E-06	1.75E-05	0.00E+00
1114	599817	4176913	0.000117	3.15E-04	0.00E+00	1.17E-04	3.15E-04	0.00E+00	1.90E-05	4.76E-05	0.00E+00	9.90E-06	1.81E-05	0.00E+00
1115	599808	4176915	0.00012	3.23E-04	0.00E+00	1.20E-04	3.23E-04	0.00E+00	1.95E-05	4.89E-05	0.00E+00	1.02E-05	1.86E-05	0.00E+00
1116	599799.1	4176918	0.000123	3.31E-04	0.00E+00	1.23E-04	3.31E-04	0.00E+00	2.00E-05	5.01E-05	0.00E+00	1.04E-05	1.91E-05	0.00E+00
1117	599790.1	4176920	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.04E-05	5.12E-05	0.00E+00	1.07E-05	1.95E-05	0.00E+00
1118	600046	4176864	4.96E-05	1.34E-04	0.00E+00	4.96E-05	1.34E-04	0.00E+00	8.07E-06	2.02E-05	0.00E+00	4.21E-06	7.70E-06	0.00E+00
1119	600037	4176867	5.09E-05	1.37E-04	0.00E+00	5.09E-05	1.37E-04	0.00E+00	8.29E-06	2.08E-05	0.00E+00	4.33E-06	7.92E-06	0.00E+00
1120	600028.1	4176870	5.26E-05	1.42E-04	0.00E+00	5.26E-05	1.42E-04	0.00E+00	8.56E-06	2.15E-05	0.00E+00	4.47E-06	8.18E-06	0.00E+00
1121	599992.3	4176880	6.46E-05	1.74E-04	0.00E+00	6.46E-05	1.74E-04	0.00E+00	1.05E-05	2.63E-05	0.00E+00	5.48E-06	1.00E-05	0.00E+00
1122	599983.4	4176883	6.81E-05	1.84E-04	0.00E+00	6.81E-05	1.84E-04	0.00E+00	1.11E-05	2.78E-05	0.00E+00	5.79E-06	1.06E-05	0.00E+00
1123	599974.4	4176885	7.22E-05	1.95E-04	0.00E+00	7.22E-05	1.95E-04	0.00E+00	1.17E-05	2.94E-05	0.00E+00	6.13E-06	1.12E-05	0.00E+00
1124	599965.5	4176888	7.53E-05	2.03E-04	0.00E+00	7.53E-05	2.03E-04	0.00E+00	1.22E-05	3.07E-05	0.00E+00	6.39E-06	1.17E-05	0.00E+00
1125	599956.5	4176891	7.79E-05	2.10E-04	0.00E+00	7.79E-05	2.10E-04	0.00E+00	1.27E-05	3.18E-05	0.00E+00	6.61E-06	1.21E-05	0.00E+00
1126	599947.6	4176893	8E-05	2.16E-04	0.00E+00	8.00E-05	2.16E-04	0.00E+00	1.30E-05	3.26E-05	0.00E+00	6.80E-06	1.24E-05	0.00E+00
1127	599938.6	4176896	8.16E-05	2.20E-04	0.00E+00	8.16E-05	2.20E-04	0.00E+00	1.33E-05	3.33E-05	0.00E+00	6.93E-06	1.27E-05	0.00E+00
1128	599929.7	4176898	8.28E-05	2.23E-04	0.00E+00	8.28E-05	2.23E-04	0.00E+00	1.35E-05	3.37E-05	0.00E+00	7.03E-06	1.29E-05	0.00E+00
1129	599920.7	4176901	8.37E-05	2.26E-04	0.00E+00	8.37E-05	2.26E-04	0.00E+00	1.36E-05	3.41E-05	0.00E+00	7.11E-06	1.30E-05	0.00E+00
1130	599911.8	4176904	8.42E-05	2.27E-04	0.00E+00	8.42E-05	2.27E-04	0.00E+00	1.37E-05	3.43E-05	0.00E+00	7.15E-06	1.31E-05	0.00E+00
1131	599902.8	4176906	8.42E-05	2.27E-04	0.00E+00	8.42E-05	2.27E-04	0.00E+00	1.37E-05	3.43E-05	0.00E+00	7.15E-06	1.31E-05	0.00E+00
1132	599893.9	4176909	8.25E-05	2.22E-04	0.00E+00	8.25E-05	2.22E-04	0.00E+00	1.34E-05	3.36E-05	0.00E+00	7.01E-06	1.28E-05	0.00E+00
1133	599884.9	4176912	8.09E-05	2.18E-04	0.00E+00	8.09E-05	2.18E-04	0.00E+00	1.32E-05	3.30E-05	0.00E+00	6.87E-06	1.26E-05	0.00E+00
1134	599876	4176914	7.94E-05	2.14E-04	0.00E+00	7.94E-05	2.14E-04	0.00E+00	1.29E-05	3.24E-05	0.00E+00	6.74E-06	1.23E-05	0.00E+00
1135	599867	4176917	8.11E-05	2.19E-04	0.00E+00	8.11E-05	2.19E-04	0.00E+00	1.32E-05	3.31E-05	0.00E+00	6.89E-06	1.26E-05	0.00E+00
1136	599858.1	4176919	8.57E-05	2.31E-04	0.00E+00	8.57E-05	2.31E-04	0.00E+00	1.39E-05	3.49E-05	0.00E+00	7.28E-06	1.33E-05	0.00E+00
1137	599849.1	4176922	9.13E-05	2.46E-04	0.00E+00	9.13E-05	2.46E-04	0.00E+00	1.49E-05	3.72E-05	0.00E+00	7.76E-06	1.42E-05	0.00E+00
1138	599840.2	4176925	9.77E-05	2.63E-04	0.00E+00	9.77E-05	2.63E-04	0.00E+00	1.59E-05	3.98E-05	0.00E+00	8.29E-06	1.52E-05	0.00E+00
1139	599831.3	4176927	0.000104	2.80E-04	0.00E+00	1.04E-04	2.80E-04	0.00E+00	1.69E-05	4.24E-05	0.00E+00	8.83E-06	1.62E-05	0.00E+00
1140	599822.3	4176930	0.00011	2.98E-04	0.00E+00	1.10E-04	2.98E-04	0.00E+00	1.80E-05	4.50E-05	0.00E+00	9.37E-06	1.71E-05	0.00E+00
1141	599813.4	4176933	0.000116	3.14E-04	0.00E+00	1.16E-04	3.14E-04	0.00E+00	1.89E-05	4.74E-05	0.00E+00	9.88E-06	1.81E-05	0.00E+00
1142	599804.4	4176935	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
1143	599795.5	4176938	0.000121	3.26E-04	0.00E+00	1.21E-04	3.26E-04	0.00E+00	1.97E-05	4.92E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
1144	599786.5	4176940	0.000122	3.30E-04	0.00E+00	1.22E-04	3.30E-04	0.00E+00	1.99E-05	4.99E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
1145	600059.8	4176879	4.67E-05	1.26E-04	0.00E+00	4.67E-05	1.26E-04	0.00E+00	7.60E-06	1.90E-05	0.00E+00	3.97E-06	7.26E-06	0.00E+00
1146	600050.8	4176882	4.8E-05	1.29E-04	0.00E+00	4.80E-05	1.29E-04	0.00E+00	7.80E-06	1.96E-05	0.00E+00	4.07E-06	7.45E-06	0.00E+00
1147	600041.9	4176885	4.96E-05	1.34E-04	0.00E+00	4.96E-05	1.34E-04	0.00E+00	8.07E-06	2.02E-05	0.00E+00	4.21E-06	7.71E-06	0.00E+00
1148	600033	4176887	5.14E-05	1.39E-04	0.00E+00	5.14E-05	1.39E-04	0.00E+00	8.37E-06	2.10E-05	0.00E+00	4.37E-06	7.99E-06	0.00E+00
1149	600006.2	4176895	5.84E-05	1.58E-04	0.00E+00	5.84E-05	1.58E-04	0.00E+00	9.51E-06	2.38E-05	0.00E+00	4.96E-06	9.08E-06	0.00E+00
1150	599997.2	4176898	6.13E-05	1.65E-04	0.00E+00	6.13E-05	1.65E-04	0.00E+00	9.98E-06	2.50E-05	0.00E+00	5.21E-06	9.53E-06	0.00E+00
1151	599988.3	4176900	6.38E-05	1.72E-04	0.00E+00	6.38E-05	1.72E-04	0.00E+00	1.04E-05	2.60E-05	0.00E+00	5.42E-06	9.92E-06	0.00E+00
1152	599979.4	4176903	6.6E-05	1.78E-04	0.00E+00	6.60E-05	1.78E-04	0.00E+00	1.07E-05	2.69E-05	0.00E+00	5.61E-06	1.03E-05	0.00E+00
1153	599970.5	4176905	6.83E-05	1.84E-04	0.00E+00	6.83E-05	1.84E-04	0.00E+00	1.11E-05	2.79E-05	0.00E+00	5.80E-06	1.06E-05	0.00E+00
1154	599961.5	4176908	7.03E-05	1.90E-04	0.00E+00	7.03E-05	1.90E-04	0.00E+00	1.14E-05	2.87E-05	0.00E+00	5.97E-06	1.09E-05	0.00E+00
1155	599952.6	4176911	7.07E-05	1.91E-04	0.00E+00	7.07E-05	1.91E-04	0.00E+00	1.15E-05	2.88E-05	0.00E+00	6.01E-06	1.10E-05	0.00E+00
1156	599943.7	4176913	7.06E-05	1.90E-04	0.00E+00	7.06E-05	1.90E-04	0.00E+00	1.15E-05	2.88E-05	0.00E+00	6.00E-06	1.10E-05	0.00E+00
1157	599934.7	4176916	7E-05	1.89E-04	0.00E+00	7.00E-05	1.89E-04	0.00E+00	1.14E-05	2.86E-05	0.00E+00	5.95E-06	1.09E-05	0.00E+00
1158	599925.8	4176918	6.99E-05	1.88E-04	0.00E+00	6.99E-05	1.88E-04	0.00E+00	1.14E-05	2.85E-05	0.00E+00	5.94E-06	1.09E-05	0.00E+00
1159	599916.9	4176921	7.01E-05	1.89E-04	0.00E+00	7.01E-05	1.89E-04	0.00E+00	1.14E-05	2.86E-05	0.00E+00	5.95E-06	1.09E-05	0.00E+00
1160	599908	4176924	7.06E-05	1.90E-04	0.00E+00	7.06E-05	1.90E-04	0.00E+00	1.15E-05	2.88E-05	0.00E+00	5.99E-06	1.10E-05	0.00E+00
1161	599899	4176926	7.1E-05	1.91E-04	0.00E+00	7.10E-05	1.91E-04	0.00E+00	1.16E-05	2.90E-05	0.00E+00	6.03E-06	1.10E-05	0.00E+00
1162	599890.1	4176929	7.15E-05	1.93E-04	0.00E+00	7.15E-05	1.93E-04	0.00E+00	1.16E-05	2.91E-05	0.00E+00	6.07E-06	1.11E-05	0.00E+00
1163	599881.2	4176932	7.23E-05	1.95E-04	0.00E+00	7.23E-05	1.95E-04	0.00E+00	1.18E-05	2.95E-05	0.00E+00	6.14E-06	1.12E-05	0.00E+00
1164	599872.2	4176934	7.42E-05	2.00E-04	0.00E+00	7.42E-05	2.00E-04	0.00E+00	1.21E-05	3.03E-05	0.00E+00	6.30E-06	1.15E-05	0.00E+00
1165	599863.3	4176937	7.94E-05	2.14E-04	0.00E+00	7.94E-05	2.14E-04	0.00E+00	1.29E-05	3.24E-05	0.00E+00	6.74E-06	1.23E-05	0.00E+00
1166	599854.4	4176939	8.58E-05	2.31E-04	0.00E+00	8.58E-05	2.31E-04	0.00E+00	1.40E-05	3.50E-05	0.00E+00	7.28E-06	1.33E-05	0.00E+00
1167	599845.4	4176942	9.34E-05	2.52E-04	0.00E+00	9.34E-05	2.52E-04	0.00E+00	1.52E-05	3.81E-05	0.00E+00	7.93E-06	1.45E-05	0.00E+00
1168	599836.5	4176945	9.99E-05	2.69E-04	0.00E+00	9.99E-05	2.69E-04	0.00E+00	1.63E-05	4.07E-05	0.00E+00	8.48E-06	1.55E-05	0.00E+00
1169	599827.6	4176947	0.000106	2.86E-04	0.00E+00	1.06E-04	2.86E-04	0.00E+00	1.73E-05	4.33E-05	0.00E+00	9.02E-06	1.65E-05	0.00E+00
1170	599818.7	4176950	0.000112	3.02E-04	0.00E+00	1.12E-04	3.02E-04	0.00E+00	1.82E-05	4.57E-05	0.00E+00	9.52E-06	1.74E-05	0.00E+00
1171	599809.7	4176952	0.000116	3.12E-04	0.00E+00	1.16E-04	3.12E-04	0.00E+00	1.88E-05	4.72E-05	0.00E+00	9.84E-06	1.80E-05	0.00E+00
1172	599800.8	4176955	0.000118	3.17E-04	0.00E+00	1.18E-04	3.17E-04	0.00E+00	1.91E-05	4.79E-05	0.00E+00	9.98E-06	1.83E-05	0.00E+00
1173	599791.9	4176958	0.000119	3.21E-04	0.00E+00	1.19E-04	3.21E-04	0.00E+00	1.94E-05	4.85E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
1174	599782.9	4176960	0.00012	3.24E-04	0.00E+00	1.20E-04	3.24E-04	0.00E+00	1.96E-05	4.90E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
1175	599649	4176999	9.83E-05	2.65E-04	0.00E+00	9.83E-05	2.65E-04	0.00E+00	1.60E-05	4.01E-05	0.00E+00	8.35E-06	1.53E-05	0.00E+00
1176	599640.1	4177002	9.81E-05	2.64E-04	0.00E+00	9.81E-05	2.64E-04	0.00E+00	1.60E-05	4.00E-05	0.00E+00	8.33E-06	1.52E-05	0.00E+00
1177	599631.1	4177005	9.81E-05	2.64E-04	0.00E+00	9.81E-05	2.64E-04	0.00E+00	1.60E-05	4.00E-05	0.00E+00	8.33E-06	1.52E-05	0.00E+00
1178	599622.2	4177007	9.75E-05	2.63E-04	0.00E+00	9.75E-05	2.63E-04	0.00E+00	1.59E-05	3.97E-05	0.00E+00	8.28E-06	1.51E-05	0.00E+00
1179	600073.5	4176894	4.38E-05	1.18E-04	0.00E+00	4.38E-05	1.18E-04	0.00E+00	7.12E-06	1.79E-05	0.00E+00	3.72E-06	6.80E-06	0.00E+00
1180	600064.6	4176897	4.48E-05	1.21E-04	0.00E+00	4.48E-05	1.21E-04	0.00E+00	7.28E-06	1.82E-05	0.00E+00	3.80E-06	6.95E-06	0.00E+00

1181	600055.7	4176899	4.57E-05	1.23E-04	0.00E+00		4.57E-05	1.23E-04	0.00E+00		7.43E-06	1.86E-05	0.00E+00		3.88E-06	7.09E-06	0.00E+00
1182	600046.8	4176902	4.68E-05	1.26E-04	0.00E+00		4.68E-05	1.26E-04	0.00E+00		7.61E-06	1.91E-05	0.00E+00		3.97E-06	7.27E-06	0.00E+00
1183	600028.9	4176907	4.96E-05	1.34E-04	0.00E+00		4.96E-05	1.34E-04	0.00E+00		8.07E-06	2.02E-05	0.00E+00		4.21E-06	7.71E-06	0.00E+00
1184	600020	4176910	5.14E-05	1.38E-04	0.00E+00		5.14E-05	1.38E-04	0.00E+00		8.36E-06	2.09E-05	0.00E+00		4.36E-06	7.98E-06	0.00E+00
1185	600011.1	4176912	5.36E-05	1.44E-04	0.00E+00		5.36E-05	1.44E-04	0.00E+00		8.71E-06	2.18E-05	0.00E+00		4.55E-06	8.32E-06	0.00E+00
1186	600002.2	4176915	5.61E-05	1.51E-04	0.00E+00		5.61E-05	1.51E-04	0.00E+00		9.13E-06	2.29E-05	0.00E+00		4.77E-06	8.72E-06	0.00E+00
1187	599993.3	4176918	5.85E-05	1.58E-04	0.00E+00		5.85E-05	1.58E-04	0.00E+00		9.52E-06	2.39E-05	0.00E+00		4.97E-06	9.09E-06	0.00E+00
1188	599984.4	4176920	5.98E-05	1.61E-04	0.00E+00		5.98E-05	1.61E-04	0.00E+00		9.72E-06	2.44E-05	0.00E+00		5.08E-06	9.29E-06	0.00E+00
1189	599975.5	4176923	6.07E-05	1.64E-04	0.00E+00		6.07E-05	1.64E-04	0.00E+00		9.88E-06	2.48E-05	0.00E+00		5.16E-06	9.43E-06	0.00E+00
1190	599966.6	4176925	6.13E-05	1.65E-04	0.00E+00		6.13E-05	1.65E-04	0.00E+00		9.97E-06	2.50E-05	0.00E+00		5.20E-06	9.52E-06	0.00E+00
1191	599957.6	4176928	6.11E-05	1.65E-04	0.00E+00		6.11E-05	1.65E-04	0.00E+00		9.94E-06	2.49E-05	0.00E+00		5.19E-06	9.49E-06	0.00E+00
1192	599948.7	4176931	6.07E-05	1.64E-04	0.00E+00		6.07E-05	1.64E-04	0.00E+00		9.87E-06	2.47E-05	0.00E+00		5.15E-06	9.43E-06	0.00E+00
1193	599939.8	4176933	6.04E-05	1.63E-04	0.00E+00		6.04E-05	1.63E-04	0.00E+00		9.82E-06	2.46E-05	0.00E+00		5.13E-06	9.38E-06	0.00E+00
1194	599930.9	4176936	6.04E-05	1.63E-04	0.00E+00		6.04E-05	1.63E-04	0.00E+00		9.82E-06	2.46E-05	0.00E+00		5.13E-06	9.38E-06	0.00E+00
1195	599922	4176938	6.12E-05	1.65E-04	0.00E+00		6.12E-05	1.65E-04	0.00E+00		9.95E-06	2.49E-05	0.00E+00		5.19E-06	9.50E-06	0.00E+00
1196	599913.1	4176941	6.21E-05	1.67E-04	0.00E+00		6.21E-05	1.67E-04	0.00E+00		1.01E-05	2.53E-05	0.00E+00		5.27E-06	9.65E-06	0.00E+00
1197	599904.2	4176944	6.34E-05	1.71E-04	0.00E+00		6.34E-05	1.71E-04	0.00E+00		1.03E-05	2.58E-05	0.00E+00		5.38E-06	9.85E-06	0.00E+00
1198	599895.3	4176946	6.46E-05	1.74E-04	0.00E+00		6.46E-05	1.74E-04	0.00E+00		1.05E-05	2.64E-05	0.00E+00		5.49E-06	1.00E-05	0.00E+00
1199	599886.3	4176949	6.77E-05	1.83E-04	0.00E+00		6.77E-05	1.83E-04	0.00E+00		1.10E-05	2.76E-05	0.00E+00		5.75E-06	1.05E-05	0.00E+00
1200	599877.4	4176951	7.18E-05	1.94E-04	0.00E+00		7.18E-05	1.94E-04	0.00E+00		1.17E-05	2.93E-05	0.00E+00		6.10E-06	1.12E-05	0.00E+00
1201	599868.5	4176954	7.8E-05	2.10E-04	0.00E+00		7.80E-05	2.10E-04	0.00E+00		1.27E-05	3.18E-05	0.00E+00		6.62E-06	1.21E-05	0.00E+00
1202	599859.6	4176957	8.55E-05	2.31E-04	0.00E+00		8.55E-05	2.31E-04	0.00E+00		1.39E-05	3.49E-05	0.00E+00		7.26E-06	1.33E-05	0.00E+00
1203	599850.7	4176959	9.32E-05	2.51E-04	0.00E+00		9.32E-05	2.51E-04	0.00E+00		1.52E-05	3.80E-05	0.00E+00		7.92E-06	1.45E-05	0.00E+00
1204	599841.8	4176962	0.0001	2.70E-04	0.00E+00		1.00E-04	2.70E-04	0.00E+00		1.63E-05	4.09E-05	0.00E+00		8.51E-06	1.56E-05	0.00E+00
1205	599832.9	4176964	0.000105	2.84E-04	0.00E+00		1.05E-04	2.84E-04	0.00E+00		1.71E-05	4.29E-05	0.00E+00		8.94E-06	1.64E-05	0.00E+00
1206	599823.9	4176967	0.00011	2.95E-04	0.00E+00		1.10E-04	2.95E-04	0.00E+00		1.78E-05	4.47E-05	0.00E+00		9.30E-06	1.70E-05	0.00E+00
1207	599815	4176970	0.000113	3.05E-04	0.00E+00		1.13E-04	3.05E-04	0.00E+00		1.84E-05	4.61E-05	0.00E+00		9.61E-06	1.76E-05	0.00E+00
1208	599806.1	4176972	0.000115	3.10E-04	0.00E+00		1.15E-04	3.10E-04	0.00E+00		1.87E-05	4.69E-05	0.00E+00		9.76E-06	1.79E-05	0.00E+00
1209	599797.2	4176975	0.000116	3.13E-04	0.00E+00		1.16E-04	3.13E-04	0.00E+00		1.89E-05	4.74E-05	0.00E+00		9.87E-06	1.81E-05	0.00E+00
1210	599788.3	4176977	0.000117	3.17E-04	0.00E+00		1.17E-04	3.17E-04	0.00E+00		1.91E-05	4.79E-05	0.00E+00		9.97E-06	1.82E-05	0.00E+00
1211	599779.4	4176980	0.000118	3.19E-04	0.00E+00		1.18E-04	3.19E-04	0.00E+00		1.92E-05	4.82E-05	0.00E+00		1.00E-05	1.84E-05	0.00E+00
1212	599690.3	4177006	0.000102	2.76E-04	0.00E+00		1.02E-04	2.76E-04	0.00E+00		1.66E-05	4.17E-05	0.00E+00		8.68E-06	1.59E-05	0.00E+00
1213	599681.3	4177009	9.67E-05	2.61E-04	0.00E+00		9.67E-05	2.61E-04	0.00E+00		1.57E-05	3.94E-05	0.00E+00		8.21E-06	1.50E-05	0.00E+00
1214	599672.4	4177011	9.06E-05	2.44E-04	0.00E+00		9.06E-05	2.44E-04	0.00E+00		1.47E-05	3.69E-05	0.00E+00		7.69E-06	1.41E-05	0.00E+00
1215	599663.5	4177014	8.42E-05	2.27E-04	0.00E+00		8.42E-05	2.27E-04	0.00E+00		1.37E-05	3.43E-05	0.00E+00		7.15E-06	1.31E-05	0.00E+00
1216	599654.6	4177017	8.41E-05	2.27E-04	0.00E+00		8.41E-05	2.27E-04	0.00E+00		1.37E-05	3.43E-05	0.00E+00		7.14E-06	1.31E-05	0.00E+00
1217	599645.7	4177019	8.43E-05	2.27E-04	0.00E+00		8.43E-05	2.27E-04	0.00E+00		1.37E-05	3.44E-05	0.00E+00		7.16E-06	1.31E-05	0.00E+00
1218	599636.8	4177022	8.46E-05	2.28E-04	0.00E+00		8.46E-05	2.28E-04	0.00E+00		1.38E-05	3.45E-05	0.00E+00		7.19E-06	1.32E-05	0.00E+00
1219	599627.9	4177024	8.62E-05	2.32E-04	0.00E+00		8.62E-05	2.32E-04	0.00E+00		1.40E-05	3.52E-05	0.00E+00		7.32E-06	1.34E-05	0.00E+00
1220	599619	4177027	8.91E-05	2.40E-04	0.00E+00		8.91E-05	2.40E-04	0.00E+00		1.45E-05	3.63E-05	0.00E+00		7.56E-06	1.38E-05	0.00E+00
1221	599610	4177030	9.25E-05	2.49E-04	0.00E+00		9.25E-05	2.49E-04	0.00E+00		1.51E-05	3.77E-05	0.00E+00		7.86E-06	1.44E-05	0.00E+00
1222	599601.1	4177032	9.55E-05	2.58E-04	0.00E+00		9.55E-05	2.58E-04	0.00E+00		1.55E-05	3.89E-05	0.00E+00		8.11E-06	1.48E-05	0.00E+00
1223	599592.2	4177035	9.64E-05	2.60E-04	0.00E+00		9.64E-05	2.60E-04	0.00E+00		1.57E-05	3.93E-05	0.00E+00		8.18E-06	1.50E-05	0.00E+00
1224	600093.4	4176907	4.11E-05	1.11E-04	0.00E+00		4.11E-05	1.11E-04	0.00E+00		6.69E-06	1.68E-05	0.00E+00		3.49E-06	6.39E-06	0.00E+00
1225	600084.4	4176910	4.15E-05	1.12E-04	0.00E+00		4.15E-05	1.12E-04	0.00E+00		6.75E-06	1.69E-05	0.00E+00		3.52E-06	6.44E-06	0.00E+00
1226	600075.4	4176912	4.21E-05	1.13E-04	0.00E+00		4.21E-05	1.13E-04	0.00E+00		6.84E-06	1.71E-05	0.00E+00		3.57E-06	6.53E-06	0.00E+00
1227	600066.4	4176915	4.3E-05	1.16E-04	0.00E+00		4.30E-05	1.16E-04	0.00E+00		7.00E-06	1.75E-05	0.00E+00		3.65E-06	6.68E-06	0.00E+00
1228	600039.4	4176923	4.67E-05	1.26E-04	0.00E+00		4.67E-05	1.26E-04	0.00E+00		7.59E-06	1.90E-05	0.00E+00		3.96E-06	7.25E-06	0.00E+00
1229	600030.4	4176926	4.81E-05	1.30E-04	0.00E+00		4.81E-05	1.30E-04	0.00E+00		7.82E-06	1.96E-05	0.00E+00		4.08E-06	7.47E-06	0.00E+00
1230	600021.4	4176928	4.94E-05	1.33E-04	0.00E+00		4.94E-05	1.33E-04	0.00E+00		8.04E-06	2.02E-05	0.00E+00		4.20E-06	7.68E-06	0.00E+00
1231	600012.4	4176931	5.08E-05	1.37E-04	0.00E+00		5.08E-05	1.37E-04	0.00E+00		8.27E-06	2.07E-05	0.00E+00		4.31E-06	7.90E-06	0.00E+00
1232	600003.4	4176933	5.21E-05	1.40E-04	0.00E+00		5.21E-05	1.40E-04	0.00E+00		8.47E-06	2.12E-05	0.00E+00		4.42E-06	8.09E-06	0.00E+00
1233	599994.4	4176936	5.29E-05	1.43E-04	0.00E+00		5.29E-05	1.43E-04	0.00E+00		8.60E-06	2.15E-05	0.00E+00		4.49E-06	8.21E-06	0.00E+00
1234	599985.4	4176939	5.33E-05	1.44E-04	0.00E+00		5.33E-05	1.44E-04	0.00E+00		8.66E-06	2.17E-05	0.00E+00		4.52E-06	8.27E-06	0.00E+00
1235	599976.4	4176941	5.31E-05	1.43E-04	0.00E+00		5.31E-05	1.43E-04	0.00E+00		8.64E-06	2.16E-05	0.00E+00		4.51E-06	8.25E-06	0.00E+00
1236	599967.4	4176944	5.26E-05	1.42E-04	0.00E+00		5.26E-05	1.42E-04	0.00E+00		8.56E-06	2.15E-05	0.00E+00		4.47E-06	8.18E-06	0.00E+00
1237	599958.4	4176947	5.26E-05	1.42E-04	0.00E+00		5.26E-05	1.42E-04	0.00E+00		8.56E-06	2.15E-05	0.00E+00		4.47E-06	8.18E-06	0.00E+00
1238	599949.4	4176949	5.38E-05	1.45E-04	0.00E+00		5.38E-05	1.45E-04	0.00E+00		8.75E-06	2.19E-05	0.00E+00		4.57E-06	8.36E-06	0.00E+00
1239	599940.4	4176952	5.5E-05	1.48E-04	0.00E+00		5.50E-05	1.48E-04	0.00E+00		8.96E-06	2.24E-05	0.00E+00		4.67E-06	8.55E-06	0.00E+00
1240	599931.4	4176954	5.65E-05	1.52E-04	0.00E+00		5.65E-05	1.52E-04	0.00E+00		9.19E-06	2.30E-05	0.00E+00		4.80E-06	8.78E-06	0.00E+00
1241	599922.4	4176957	5.88E-05	1.59E-04	0.00E+00		5.88E-05	1.59E-04	0.00E+00		9.56E-06	2.40E-05	0.00E+00		4.99E-06	9.14E-06	0.00E+00
1242	599913.4	4176960	6.13E-05	1.65E-04	0.00E+00		6.13E-05	1.65E-04	0.00E+00		9.97E-06	2.50E-05	0.00E+00		5.21E-06	9.53E-06	0.00E+00
1243	599904.4	4176962	6.43E-05	1.73E-04	0.00E+00		6.43E-05	1.73E-04	0.00E+00		1.05E-05	2.62E-05	0.00E+00		5.46E-06	9.99E-06	0.00E+00
1244	599895.4	4176965	6.85E-05	1.85E-04	0.00E+00		6.85E-05	1.85E-04	0.00E+00		1.11E-05	2.79E-05	0.00E+00		5.82E-06	1.06E-05	0.00E+00
1245	599886.4	4176968	7.41E-05	2.00E-04	0.00E+00		7.41E-05	2.00E-04	0.00E+00		1.21E-05	3.02E-05	0.00E+00		6.30E-06	1.15E-05	0.00E+00
1246	599877.4	4176970	8.14E-05	2.19E-04	0.00E+00		8.14E-05	2.19E-04	0.00E+00		1.32E-05	3.32E-05	0.00E+00		6.91E-06	1.26E-05	0.00E+00
1247	599868.4	4176973	8.85E-05	2.39E-04	0.00E+00		8.85E-05	2.39E-04	0.00E+00		1.44E-05	3.61E-05	0.00E+00		7.51E-06	1.37E-05	0.00E+00
1248	599859.4	4176976	9.46E-05	2.55E-04	0.00E+00		9.46E-05	2.55E-04	0.00E+00		1.54E-05	3.86E-05	0.00E+00		8.03E-06	1.47E-05	0.00E+00
1249	599850.4	4176978	9.99E-05	2.69E-04	0.00E+00		9.99E-05	2.69E-04	0.00E+00		1.62E-05	4.07E-05	0.00E+00		8.48E-06	1.55E-05	0.00E+00
1250	599841.4	4176981	0.000105	2.82E-04	0.00E+00		1.05E-04	2.82E-04	0.00E+00		1.70E-05	4.26E-05	0.00E+00		8.87E-06	1.62E-05	0.00E+00
1251	599832.4	4176983	0.000108	2.90E-04	0.00E+00		1.08E-04	2.90E-04	0.00E+00		1.75E-05	4.39E-05	0.00E+00		9.14E-06	1.67E-05	0.00E+00
1252	599823.4	4176986	0.00011	2.97E-04	0.00E+00		1.10E-04	2.97E-04	0.00E+00		1.79E-05	4.49E-05	0.00E+00		9.35E-06	1.71E-05	0.00E+00
1253	599814.4	4176989	0.000112	3.02E-04	0.00E+00		1.12E-04	3.02E-04	0.00E+00		1.82E-05	4.56E-05	0.00E+00		9.51E-06	1.74E-05	0.00E+00
1254	599805.4	4176991	0.000113	3.05E-04	0.00E+00		1.13E-04	3.05E-04	0.00E+00		1.84E-05	4.62E-05	0.00E+00		9.62E-06	1.76E-05	0.00E+00
1255	599796.4	4176994	0.000114	3.08E-04	0.00E+00		1.14E-04	3.08E-04	0.00E+00		1.86E-05	4.66E-05	0.00E+00		9.71E-06	1.78E-05	0.00E+00
1256	599787.4	4176997	0.000115	3.11E-04	0.00E+00		1.15E-04	3.11E-04	0.00E+00		1.87E-05	4.70E-05	0.00E+00		9.79E-06	1.79E-05	0.00E+00
1257	599778.4	4176999	0.000116	3.13E-04	0.00E+00		1.16E-04	3.13E-04	0.00E+00		1.89E-05	4.73E-05	0.00E+00		9.84E-06	1.80E-05	0.00E+00
1258	599769.4	4177002	0.000116	3.14E-04	0.00E+00		1.16E-04	3.14E-04	0.00E+00		1.89E-05	4.75E-05	0.00E+00		9.89E-06	1.81E-05	0.00E+00
1259	599706.4	4177020	0.000102	2.75E-04	0.00E+00		1.02E-04	2.75E-04	0.00E+00		1.66E-05	4.17E-05	0.00E+00		8.68E-06	1.59E-05	0.00E+00
1260	599697.3	4177023	9.41E-05	2.54E-04	0.00E+00		9.41E-05	2.54E-04	0.00E+00		1.53E-05	3.83E-05	0.00E+00		7.99E-06	1.46E-05	0.00E+00
1261	599688.3	4177026	8.65E-05	2.33E-04	0.00E+00		8.65E-05	2.33E-04	0.00E+00		1.41E-05	3.53E-05	0.00E+00		7.34E-06	1.34E-05	0.00E+00
1262	599679.3	4177028	7.97E-05	2.15E-04	0.00E+00		7.97E-05	2.15E-04	0.00E+00		1.30E-05	3.25E-05	0.00E+00		6.76E-06	1.24E-05	0.00E+00
1263	599670.3	4177031	7.27E-05	1.96E-04	0.00E+00		7.27E-05	1.96E-04	0.00E+00		1.18E-05	2.96E-05	0.00E+00		6.17E-06	1.13E-05	0.00E+00
1264	599661.3	4177033	6.75E-05	1.82E-04	0.00E+00		6.75E-05	1.82E-04	0.00E+00		1.10E-05	2.75E-05	0.00E+00		5.73E-06	1.05E-05	0.00E+00
1265	599652.3	4177036	6.83E-05	1.84E-04	0.00E+00		6.83E-05	1.84E-04	0.00E+00		1.11E-05	2.79E-05	0.00E+00		5.80E-06	1.06E-05	0.00E+00
1266	599643.3	4177039	6.98E-05	1.88E-04	0.00E+00		6.98E-05	1.88E-04	0.00E+00		1.14E-05	2.85E-05	0.00E+00		5.93E-06	1.08E-05	0.00E+00
1267	599634.3	4177041	7.19E-05	1.94E-04	0.00E+00		7.19E-05	1.94E-04	0.00E+00		1.17E-05	2.93E-05	0.00E+00		6.10E-06	1.12E-05	0.00E+00
1268	599625.3	4177044	7.71E-05	2.08E-04	0.00E+00		7.71E-05	2.08E-04	0.00E+00		1.25E-05	3.14E-05	0.00E+00		6.55E-06	1.20E-05	0.00E+00
1269	599616.3	4177047	8.25E-05	2.23E-04	0.00E+00		8.25E-05	2.23E-04	0.00E+00		1.34E-05	3.36E-05	0.00E+00		7.01E-06	1.28E-05	0.00E+00
1270	599607.3	4177049	8.77E-05	2.36E-04	0.00E+00		8.77E-05	2.36E-04	0.00E+00		1.43E-05	3.57E-05	0.00E+00		7.44E-06	1.36E-05	0.00E+00
1271	599598.3	4177052	9.02E-05	2.43E-04	0.00E+00		9.02E-05	2.43E-04	0.00E+00		1.47E-05	3.68E-05	0.00E+00		7.66E-06	1.40E-05	0.00E+00

1272	599589.3	4177054	9.13E-05	2.46E-04	0.00E+00	9.13E-05	2.46E-04	0.00E+00	1.49E-05	3.72E-05	0.00E+00	7.75E-06	1.42E-05	0.00E+00
1273	599580.3	4177057	9.24E-05	2.49E-04	0.00E+00	9.24E-05	2.49E-04	0.00E+00	1.50E-05	3.77E-05	0.00E+00	7.85E-06	1.44E-05	0.00E+00
1274	599718.5	4176021	0.001838	4.95E-03	0.00E+00	1.84E-03	4.95E-03	0.00E+00	2.99E-04	7.49E-04	0.00E+00	1.56E-04	2.86E-04	0.00E+00
1275	599701.4	4176017	0.001984	5.35E-03	0.00E+00	1.98E-03	5.35E-03	0.00E+00	3.23E-04	8.09E-04	0.00E+00	1.68E-04	3.08E-04	0.00E+00
1276	599719.9	4176011	0.001722	4.64E-03	0.00E+00	1.72E-03	4.64E-03	0.00E+00	2.80E-04	7.02E-04	0.00E+00	1.46E-04	2.68E-04	0.00E+00
1277	599728.4	4176015	0.001682	4.53E-03	0.00E+00	1.68E-03	4.53E-03	0.00E+00	2.74E-04	6.86E-04	0.00E+00	1.43E-04	2.61E-04	0.00E+00
1278	599736.9	4176019	0.00166	4.47E-03	0.00E+00	1.66E-03	4.47E-03	0.00E+00	2.70E-04	6.77E-04	0.00E+00	1.41E-04	2.58E-04	0.00E+00
1279	599711.4	4176007	0.001776	4.79E-03	0.00E+00	1.78E-03	4.79E-03	0.00E+00	2.89E-04	7.24E-04	0.00E+00	1.51E-04	2.76E-04	0.00E+00
1280	599701.9	4176007	0.001879	5.07E-03	0.00E+00	1.88E-03	5.07E-03	0.00E+00	3.06E-04	7.66E-04	0.00E+00	1.60E-04	2.92E-04	0.00E+00
1281	599692.3	4176006	0.001992	5.37E-03	0.00E+00	1.99E-03	5.37E-03	0.00E+00	3.24E-04	8.12E-04	0.00E+00	1.69E-04	3.09E-04	0.00E+00
1282	599682.8	4176006	0.00213	5.74E-03	0.00E+00	2.13E-03	5.74E-03	0.00E+00	3.47E-04	8.68E-04	0.00E+00	1.81E-04	3.31E-04	0.00E+00
1283	599673.3	4176005	0.002275	6.13E-03	0.00E+00	2.27E-03	6.13E-03	0.00E+00	3.70E-04	9.27E-04	0.00E+00	1.93E-04	3.53E-04	0.00E+00
1284	599720.1	4176001	0.001621	4.37E-03	0.00E+00	1.62E-03	4.37E-03	0.00E+00	2.64E-04	6.61E-04	0.00E+00	1.38E-04	2.52E-04	0.00E+00
1285	599736.7	4176008	0.001551	4.18E-03	0.00E+00	1.55E-03	4.18E-03	0.00E+00	2.52E-04	6.32E-04	0.00E+00	1.32E-04	2.41E-04	0.00E+00
1286	599744.9	4176012	0.00153	4.12E-03	0.00E+00	1.53E-03	4.12E-03	0.00E+00	2.49E-04	6.24E-04	0.00E+00	1.30E-04	2.38E-04	0.00E+00
1287	599711.9	4175997	0.001668	4.50E-03	0.00E+00	1.67E-03	4.50E-03	0.00E+00	2.71E-04	6.80E-04	0.00E+00	1.42E-04	2.59E-04	0.00E+00
1288	599702.3	4175997	0.001765	4.76E-03	0.00E+00	1.76E-03	4.76E-03	0.00E+00	2.87E-04	7.19E-04	0.00E+00	1.50E-04	2.74E-04	0.00E+00
1289	599692.8	4175996	0.001866	5.03E-03	0.00E+00	1.87E-03	5.03E-03	0.00E+00	3.04E-04	7.61E-04	0.00E+00	1.58E-04	2.90E-04	0.00E+00
1290	599683.3	4175996	0.001985	5.35E-03	0.00E+00	1.98E-03	5.35E-03	0.00E+00	3.23E-04	8.09E-04	0.00E+00	1.69E-04	3.08E-04	0.00E+00
1291	599673.8	4175995	0.002105	5.68E-03	0.00E+00	2.11E-03	5.68E-03	0.00E+00	3.42E-04	8.58E-04	0.00E+00	1.79E-04	3.27E-04	0.00E+00
1292	599720.4	4175991	0.001516	4.09E-03	0.00E+00	1.52E-03	4.09E-03	0.00E+00	2.47E-04	6.18E-04	0.00E+00	1.29E-04	2.35E-04	0.00E+00
1293	599736.6	4175998	0.00145	3.91E-03	0.00E+00	1.45E-03	3.91E-03	0.00E+00	2.36E-04	5.91E-04	0.00E+00	1.23E-04	2.25E-04	0.00E+00
1294	599752.7	4176005	0.001402	3.78E-03	0.00E+00	1.40E-03	3.78E-03	0.00E+00	2.28E-04	5.71E-04	0.00E+00	1.19E-04	2.18E-04	0.00E+00
1295	599768.9	4176012	0.001471	3.96E-03	0.00E+00	1.47E-03	3.96E-03	0.00E+00	2.39E-04	6.00E-04	0.00E+00	1.25E-04	2.29E-04	0.00E+00
1296	599702.8	4175987	0.001639	4.42E-03	0.00E+00	1.64E-03	4.42E-03	0.00E+00	2.67E-04	6.68E-04	0.00E+00	1.39E-04	2.55E-04	0.00E+00
1297	599693.3	4175986	0.001726	4.65E-03	0.00E+00	1.73E-03	4.65E-03	0.00E+00	2.81E-04	7.04E-04	0.00E+00	1.47E-04	2.68E-04	0.00E+00
1298	599683.8	4175986	0.001823	4.91E-03	0.00E+00	1.82E-03	4.91E-03	0.00E+00	2.97E-04	7.43E-04	0.00E+00	1.55E-04	2.83E-04	0.00E+00
1299	599674.3	4175985	0.001918	5.17E-03	0.00E+00	1.92E-03	5.17E-03	0.00E+00	3.12E-04	7.82E-04	0.00E+00	1.63E-04	2.98E-04	0.00E+00
1300	599720.8	4175981	0.001417	3.82E-03	0.00E+00	1.42E-03	3.82E-03	0.00E+00	2.31E-04	5.78E-04	0.00E+00	1.20E-04	2.20E-04	0.00E+00
1301	599736.6	4175988	0.001352	3.64E-03	0.00E+00	1.35E-03	3.64E-03	0.00E+00	2.20E-04	5.51E-04	0.00E+00	1.15E-04	2.10E-04	0.00E+00
1302	599752.5	4175995	0.0013	3.50E-03	0.00E+00	1.30E-03	3.50E-03	0.00E+00	2.11E-04	5.30E-04	0.00E+00	1.10E-04	2.02E-04	0.00E+00
1303	599768.4	4176002	0.001343	3.62E-03	0.00E+00	1.34E-03	3.62E-03	0.00E+00	2.18E-04	5.47E-04	0.00E+00	1.14E-04	2.09E-04	0.00E+00
1304	599784.2	4176009	0.001442	3.89E-03	0.00E+00	1.44E-03	3.89E-03	0.00E+00	2.35E-04	5.88E-04	0.00E+00	1.22E-04	2.24E-04	0.00E+00
1305	599703.3	4175977	0.001528	4.12E-03	0.00E+00	1.53E-03	4.12E-03	0.00E+00	2.49E-04	6.23E-04	0.00E+00	1.30E-04	2.37E-04	0.00E+00
1306	599693.8	4175976	0.001603	4.32E-03	0.00E+00	1.60E-03	4.32E-03	0.00E+00	2.61E-04	6.53E-04	0.00E+00	1.36E-04	2.49E-04	0.00E+00
1307	599684.3	4175976	0.001678	4.53E-03	0.00E+00	1.68E-03	4.53E-03	0.00E+00	2.73E-04	6.84E-04	0.00E+00	1.43E-04	2.61E-04	0.00E+00
1308	599674.7	4175975	0.001749	4.71E-03	0.00E+00	1.75E-03	4.71E-03	0.00E+00	2.84E-04	7.13E-04	0.00E+00	1.48E-04	2.72E-04	0.00E+00
1309	599721.9	4175971	0.001319	3.56E-03	0.00E+00	1.32E-03	3.56E-03	0.00E+00	2.15E-04	5.38E-04	0.00E+00	1.12E-04	2.05E-04	0.00E+00
1310	599730.5	4175975	0.00129	3.48E-03	0.00E+00	1.29E-03	3.48E-03	0.00E+00	2.10E-04	5.26E-04	0.00E+00	1.10E-04	2.00E-04	0.00E+00
1311	599739.1	4175979	0.001259	3.39E-03	0.00E+00	1.26E-03	3.39E-03	0.00E+00	2.05E-04	5.13E-04	0.00E+00	1.07E-04	1.96E-04	0.00E+00
1312	599747.7	4175983	0.001227	3.31E-03	0.00E+00	1.23E-03	3.31E-03	0.00E+00	2.00E-04	5.00E-04	0.00E+00	1.04E-04	1.91E-04	0.00E+00
1313	599756.3	4175986	0.001209	3.26E-03	0.00E+00	1.21E-03	3.26E-03	0.00E+00	1.97E-04	4.93E-04	0.00E+00	1.03E-04	1.88E-04	0.00E+00
1314	599764.9	4175990	0.001228	3.31E-03	0.00E+00	1.23E-03	3.31E-03	0.00E+00	2.00E-04	5.01E-04	0.00E+00	1.04E-04	1.91E-04	0.00E+00
1315	599773.5	4175994	0.001258	3.39E-03	0.00E+00	1.26E-03	3.39E-03	0.00E+00	2.05E-04	5.13E-04	0.00E+00	1.07E-04	1.95E-04	0.00E+00
1316	599782.1	4175998	0.001302	3.51E-03	0.00E+00	1.30E-03	3.51E-03	0.00E+00	2.12E-04	5.31E-04	0.00E+00	1.11E-04	2.02E-04	0.00E+00
1317	599790.7	4176002	0.001312	3.54E-03	0.00E+00	1.31E-03	3.54E-03	0.00E+00	2.13E-04	5.35E-04	0.00E+00	1.11E-04	2.04E-04	0.00E+00
1318	599713.3	4175967	0.001344	3.62E-03	0.00E+00	1.34E-03	3.62E-03	0.00E+00	2.19E-04	5.48E-04	0.00E+00	1.14E-04	2.09E-04	0.00E+00
1319	599703.8	4175967	0.001408	3.80E-03	0.00E+00	1.41E-03	3.80E-03	0.00E+00	2.29E-04	5.74E-04	0.00E+00	1.20E-04	2.19E-04	0.00E+00
1320	599694.3	4175966	0.00147	3.96E-03	0.00E+00	1.47E-03	3.96E-03	0.00E+00	2.39E-04	5.99E-04	0.00E+00	1.25E-04	2.28E-04	0.00E+00
1321	599684.7	4175966	0.001525	4.11E-03	0.00E+00	1.52E-03	4.11E-03	0.00E+00	2.48E-04	6.22E-04	0.00E+00	1.29E-04	2.37E-04	0.00E+00
1322	599675.2	4175965	0.001572	4.24E-03	0.00E+00	1.57E-03	4.24E-03	0.00E+00	2.56E-04	6.41E-04	0.00E+00	1.33E-04	2.44E-04	0.00E+00
1323	599722.2	4175961	0.001217	3.28E-03	0.00E+00	1.22E-03	3.28E-03	0.00E+00	1.98E-04	4.96E-04	0.00E+00	1.03E-04	1.89E-04	0.00E+00
1324	599730.6	4175965	0.001198	3.23E-03	0.00E+00	1.20E-03	3.23E-03	0.00E+00	1.95E-04	4.88E-04	0.00E+00	1.02E-04	1.86E-04	0.00E+00
1325	599739	4175969	0.001175	3.17E-03	0.00E+00	1.17E-03	3.17E-03	0.00E+00	1.91E-04	4.79E-04	0.00E+00	9.97E-05	1.83E-04	0.00E+00
1326	599747.4	4175972	0.001149	3.10E-03	0.00E+00	1.15E-03	3.10E-03	0.00E+00	1.87E-04	4.68E-04	0.00E+00	9.75E-05	1.78E-04	0.00E+00
1327	599755.9	4175976	0.001131	3.05E-03	0.00E+00	1.13E-03	3.05E-03	0.00E+00	1.84E-04	4.61E-04	0.00E+00	9.60E-05	1.76E-04	0.00E+00
1328	599764.3	4175980	0.001142	3.08E-03	0.00E+00	1.14E-03	3.08E-03	0.00E+00	1.86E-04	4.66E-04	0.00E+00	9.70E-05	1.77E-04	0.00E+00
1329	599772.7	4175983	0.001161	3.13E-03	0.00E+00	1.16E-03	3.13E-03	0.00E+00	1.89E-04	4.73E-04	0.00E+00	9.86E-05	1.80E-04	0.00E+00
1330	599781.1	4175987	0.001192	3.21E-03	0.00E+00	1.19E-03	3.21E-03	0.00E+00	1.94E-04	4.86E-04	0.00E+00	1.01E-04	1.85E-04	0.00E+00
1331	599789.5	4175991	0.001211	3.27E-03	0.00E+00	1.21E-03	3.27E-03	0.00E+00	1.97E-04	4.94E-04	0.00E+00	1.03E-04	1.88E-04	0.00E+00
1332	599797.9	4175995	0.001218	3.28E-03	0.00E+00	1.22E-03	3.28E-03	0.00E+00	1.98E-04	4.96E-04	0.00E+00	1.03E-04	1.89E-04	0.00E+00
1333	599810	4176007	0.001257	3.39E-03	0.00E+00	1.26E-03	3.39E-03	0.00E+00	2.05E-04	5.13E-04	0.00E+00	1.07E-04	1.95E-04	0.00E+00
1334	599813.7	4176015	0.001285	3.46E-03	0.00E+00	1.29E-03	3.46E-03	0.00E+00	2.09E-04	5.24E-04	0.00E+00	1.09E-04	2.00E-04	0.00E+00
1335	599713.8	4175957	0.00123	3.32E-03	0.00E+00	1.23E-03	3.32E-03	0.00E+00	2.00E-04	5.01E-04	0.00E+00	1.04E-04	1.91E-04	0.00E+00
1336	599704.3	4175957	0.001282	3.46E-03	0.00E+00	1.28E-03	3.46E-03	0.00E+00	2.09E-04	5.23E-04	0.00E+00	1.09E-04	1.99E-04	0.00E+00
1337	599694.7	4175956	0.001331	3.59E-03	0.00E+00	1.33E-03	3.59E-03	0.00E+00	2.17E-04	5.43E-04	0.00E+00	1.13E-04	2.07E-04	0.00E+00
1338	599685.2	4175956	0.001368	3.69E-03	0.00E+00	1.37E-03	3.69E-03	0.00E+00	2.23E-04	5.58E-04	0.00E+00	1.16E-04	2.13E-04	0.00E+00
1339	599675.7	4175955	0.001396	3.76E-03	0.00E+00	1.40E-03	3.76E-03	0.00E+00	2.27E-04	5.69E-04	0.00E+00	1.19E-04	2.17E-04	0.00E+00
1340	599722.5	4175951	0.001113	3.00E-03	0.00E+00	1.11E-03	3.00E-03	0.00E+00	1.81E-04	4.54E-04	0.00E+00	9.45E-05	1.73E-04	0.00E+00
1341	599730.8	4175955	0.001102	2.97E-03	0.00E+00	1.10E-03	2.97E-03	0.00E+00	1.79E-04	4.49E-04	0.00E+00	9.36E-05	1.71E-04	0.00E+00
1342	599747.3	4175962	0.001075	2.90E-03	0.00E+00	1.07E-03	2.90E-03	0.00E+00	1.75E-04	4.38E-04	0.00E+00	9.12E-05	1.67E-04	0.00E+00
1343	599755.6	4175966	0.001058	2.85E-03	0.00E+00	1.06E-03	2.85E-03	0.00E+00	1.72E-04	4.31E-04	0.00E+00	8.98E-05	1.64E-04	0.00E+00
1344	599772.1	4175973	0.001076	2.90E-03	0.00E+00	1.08E-03	2.90E-03	0.00E+00	1.75E-04	4.39E-04	0.00E+00	9.14E-05	1.67E-04	0.00E+00
1345	599780.4	4175977	0.001095	2.95E-03	0.00E+00	1.09E-03	2.95E-03	0.00E+00	1.78E-04	4.46E-04	0.00E+00	9.30E-05	1.70E-04	0.00E+00
1346	599796.9	4175984	0.001132	3.05E-03	0.00E+00	1.13E-03	3.05E-03	0.00E+00	1.84E-04	4.61E-04	0.00E+00	9.61E-05	1.76E-04	0.00E+00
1347	599805.2	4175988	0.001147	3.09E-03	0.00E+00	1.15E-03	3.09E-03	0.00E+00	1.87E-04	4.68E-04	0.00E+00	9.74E-05	1.78E-04	0.00E+00
1348	599817.1	4176000	0.001135	3.06E-03	0.00E+00	1.14E-03	3.06E-03	0.00E+00	1.85E-04	4.63E-04	0.00E+00	9.64E-05	1.76E-04	0.00E+00
1349	599820.7	4176008	0.001104	2.98E-03	0.00E+00	1.10E-03	2.98E-03	0.00E+00	1.80E-04	4.50E-04	0.00E+00	9.37E-05	1.71E-04	0.00E+00
1350	599824.3	4176016	0.001064	2.87E-03	0.00E+00	1.06E-03	2.87E-03	0.00E+00	1.73E-04	4.34E-04	0.00E+00	9.03E-05	1.65E-04	0.00E+00
1351	599714.3	4175947	0.001115	3.01E-03	0.00E+00	1.11E-03	3.01E-03	0.00E+00	1.81E-04	4.54E-04	0.00E+00	9.46E-05	1.73E-04	0.00E+00
1352	599704.7	4175947	0.001151	3.10E-03	0.00E+00	1.15E-03	3.10E-03	0.00E+00	1.87E-04	4.69E-04	0.00E+00	9.78E-05	1.79E-04	0.00E+00
1353	599695.2	4175946	0.001184	3.19E-03	0.00E+00	1.18E-03	3.19E-03	0.00E+00	1.93E-04	4.83E-04	0.00E+00	1.01E-04	1.84E-04	0.00E+00
1354	599685.7	4175946	0.001209	3.26E-03	0.00E+00	1.21E-03	3.26E-03	0.00E+00	1.97E-04	4.93E-04	0.00E+00	1.03E-04	1.88E-04	0.00E+00
1355	599676.2	4175945	0.001228	3.31E-03	0.00E+00	1.23E-03	3.31E-03	0.00E+00	2.00E-04	5.01E-04	0.00E+00	1.04E-04	1.91E-04	0.00E+00
1356	599666.6	4175945	0.001241	3.34E-03	0.00E+00	1.24E-03	3.34E-03	0.00E+00	2.02E-04	5.06E-04	0.00E+00	1.05E-04	1.93E-04	0.00E+00
1357	599722.9	4175941	0.001009	2.72E-03	0.00E+00	1.01E-03	2.72E-03	0.00E+00	1.64E-04	4.11E-04	0.00E+00	8.57E-05	1.57E-04	0.00E+00
1358	599739.2	4175948	0.001007	2.71E-03	0.00E+00	1.01E-03	2.71E-03	0.00E+00	1.64E-04	4.10E-04	0.00E+00	8.55E-05	1.56E-04	0.00E+00
1359	599755.4	4175955	0.001001	2.70E-03	0.00E+00	1.00E-03	2.70E-03	0.00E+00	1.63E-04	4.08E-04	0.00E+00	8.50E-05	1.56E-04	0.00E+00
1360	599771.7	4175963	0.000998	2.69E-03	0.00E+00	9.98E-04	2.69E-03	0.00E+00	1.62E-04	4.07E-04	0.00E+00	8.47E-05	1.55E-04	0.00E+00
1361	599788	4175970	0.001024	2.76E-03	0.00E+00	1.02E-03	2.76E-03	0.00E+00	1.67E-04	4.18E-04	0.00E+00	8.70E-05	1.59E-04	0.00E+00
1362	599804.2	4175977	0.001055	2.84E-03	0.00E+00	1.05E-03	2.84E-03	0.00E+00	1.72E-04	4.30E-04	0.00E+00	8.95E-05	1.64E-04	0.00E+00

1363	599824.1	4175992	0.001006	2.71E-03	0.00E+00	1.01E-03	2.71E-03	0.00E+00	1.64E-04	4.10E-04	0.00E+00	8.55E-05	1.56E-04	0.00E+00
1364	599827.7	4176001	0.00098	2.64E-03	0.00E+00	9.80E-04	2.64E-03	0.00E+00	1.59E-04	3.99E-04	0.00E+00	8.32E-05	1.52E-04	0.00E+00
1365	599834.8	4176017	0.000909	2.45E-03	0.00E+00	9.09E-04	2.45E-03	0.00E+00	1.48E-04	3.71E-04	0.00E+00	7.72E-05	1.41E-04	0.00E+00
1366	599705.2	4175937	0.001022	2.76E-03	0.00E+00	1.02E-03	2.76E-03	0.00E+00	1.66E-04	4.17E-04	0.00E+00	8.68E-05	1.59E-04	0.00E+00
1367	599695.7	4175936	0.001041	2.81E-03	0.00E+00	1.04E-03	2.81E-03	0.00E+00	1.69E-04	4.24E-04	0.00E+00	8.84E-05	1.62E-04	0.00E+00
1368	599686.2	4175936	0.001056	2.85E-03	0.00E+00	1.06E-03	2.85E-03	0.00E+00	1.72E-04	4.31E-04	0.00E+00	8.97E-05	1.64E-04	0.00E+00
1369	599676.6	4175936	0.001069	2.88E-03	0.00E+00	1.07E-03	2.88E-03	0.00E+00	1.74E-04	4.36E-04	0.00E+00	9.08E-05	1.66E-04	0.00E+00
1370	599667.1	4175935	0.001079	2.91E-03	0.00E+00	1.08E-03	2.91E-03	0.00E+00	1.76E-04	4.40E-04	0.00E+00	9.16E-05	1.68E-04	0.00E+00
1371	599723.9	4175931	0.000906	2.44E-03	0.00E+00	9.06E-04	2.44E-03	0.00E+00	1.47E-04	3.69E-04	0.00E+00	7.69E-05	1.41E-04	0.00E+00
1372	599732.5	4175935	0.000922	2.49E-03	0.00E+00	9.22E-04	2.49E-03	0.00E+00	1.50E-04	3.76E-04	0.00E+00	7.83E-05	1.43E-04	0.00E+00
1373	599741.2	4175939	0.000934	2.52E-03	0.00E+00	9.34E-04	2.52E-03	0.00E+00	1.52E-04	3.81E-04	0.00E+00	7.93E-05	1.45E-04	0.00E+00
1374	599749.8	4175943	0.000949	2.56E-03	0.00E+00	9.49E-04	2.56E-03	0.00E+00	1.54E-04	3.87E-04	0.00E+00	8.06E-05	1.47E-04	0.00E+00
1375	599758.4	4175947	0.000948	2.56E-03	0.00E+00	9.48E-04	2.56E-03	0.00E+00	1.54E-04	3.87E-04	0.00E+00	8.05E-05	1.47E-04	0.00E+00
1376	599767.1	4175950	0.000955	2.57E-03	0.00E+00	9.55E-04	2.57E-03	0.00E+00	1.55E-04	3.89E-04	0.00E+00	8.11E-05	1.48E-04	0.00E+00
1377	599775.7	4175954	0.000932	2.51E-03	0.00E+00	9.32E-04	2.51E-03	0.00E+00	1.52E-04	3.80E-04	0.00E+00	7.91E-05	1.45E-04	0.00E+00
1378	599784.4	4175958	0.000941	2.54E-03	0.00E+00	9.41E-04	2.54E-03	0.00E+00	1.53E-04	3.83E-04	0.00E+00	7.99E-05	1.46E-04	0.00E+00
1379	599793	4175962	0.000953	2.57E-03	0.00E+00	9.53E-04	2.57E-03	0.00E+00	1.55E-04	3.89E-04	0.00E+00	8.09E-05	1.48E-04	0.00E+00
1380	599801.7	4175966	0.000967	2.61E-03	0.00E+00	9.67E-04	2.61E-03	0.00E+00	1.57E-04	3.94E-04	0.00E+00	8.21E-05	1.50E-04	0.00E+00
1381	599810.3	4175970	0.000984	2.65E-03	0.00E+00	9.84E-04	2.65E-03	0.00E+00	1.60E-04	4.01E-04	0.00E+00	8.35E-05	1.53E-04	0.00E+00
1382	599819	4175973	0.000965	2.60E-03	0.00E+00	9.65E-04	2.60E-03	0.00E+00	1.57E-04	3.94E-04	0.00E+00	8.20E-05	1.50E-04	0.00E+00
1383	599831.4	4175986	0.00091	2.45E-03	0.00E+00	9.10E-04	2.45E-03	0.00E+00	1.48E-04	3.71E-04	0.00E+00	7.73E-05	1.41E-04	0.00E+00
1384	599835.2	4175995	0.000885	2.38E-03	0.00E+00	8.85E-04	2.38E-03	0.00E+00	1.44E-04	3.61E-04	0.00E+00	7.51E-05	1.37E-04	0.00E+00
1385	599839	4176003	0.000853	2.30E-03	0.00E+00	8.53E-04	2.30E-03	0.00E+00	1.39E-04	3.48E-04	0.00E+00	7.24E-05	1.32E-04	0.00E+00
1386	599842.8	4176012	0.000816	2.20E-03	0.00E+00	8.16E-04	2.20E-03	0.00E+00	1.33E-04	3.33E-04	0.00E+00	6.93E-05	1.27E-04	0.00E+00
1387	599846.6	4176021	0.000798	2.15E-03	0.00E+00	7.98E-04	2.15E-03	0.00E+00	1.30E-04	3.25E-04	0.00E+00	6.78E-05	1.24E-04	0.00E+00
1388	599850.4	4176029	0.000795	2.14E-03	0.00E+00	7.95E-04	2.14E-03	0.00E+00	1.29E-04	3.24E-04	0.00E+00	6.75E-05	1.24E-04	0.00E+00
1389	599715.2	4175927	0.000885	2.39E-03	0.00E+00	8.85E-04	2.39E-03	0.00E+00	1.44E-04	3.61E-04	0.00E+00	7.52E-05	1.38E-04	0.00E+00
1390	599705.7	4175927	0.000897	2.42E-03	0.00E+00	8.97E-04	2.42E-03	0.00E+00	1.46E-04	3.66E-04	0.00E+00	7.62E-05	1.39E-04	0.00E+00
1391	599696.2	4175926	0.000905	2.44E-03	0.00E+00	9.05E-04	2.44E-03	0.00E+00	1.47E-04	3.69E-04	0.00E+00	7.69E-05	1.41E-04	0.00E+00
1392	599686.6	4175926	0.000914	2.46E-03	0.00E+00	9.14E-04	2.46E-03	0.00E+00	1.49E-04	3.73E-04	0.00E+00	7.76E-05	1.42E-04	0.00E+00
1393	599677.1	4175926	0.000922	2.49E-03	0.00E+00	9.22E-04	2.49E-03	0.00E+00	1.50E-04	3.76E-04	0.00E+00	7.83E-05	1.43E-04	0.00E+00
1394	599667.6	4175925	0.000929	2.51E-03	0.00E+00	9.29E-04	2.51E-03	0.00E+00	1.51E-04	3.79E-04	0.00E+00	7.89E-05	1.44E-04	0.00E+00
1395	599724.2	4175921	0.000804	2.17E-03	0.00E+00	8.04E-04	2.17E-03	0.00E+00	1.31E-04	3.28E-04	0.00E+00	6.83E-05	1.25E-04	0.00E+00
1396	599732.7	4175925	0.000834	2.25E-03	0.00E+00	8.34E-04	2.25E-03	0.00E+00	1.36E-04	3.40E-04	0.00E+00	7.08E-05	1.30E-04	0.00E+00
1397	599741.2	4175929	0.000858	2.31E-03	0.00E+00	8.58E-04	2.31E-03	0.00E+00	1.40E-04	3.50E-04	0.00E+00	7.28E-05	1.33E-04	0.00E+00
1398	599749.7	4175932	0.000872	2.35E-03	0.00E+00	8.72E-04	2.35E-03	0.00E+00	1.42E-04	3.56E-04	0.00E+00	7.40E-05	1.36E-04	0.00E+00
1399	599758.2	4175936	0.000886	2.39E-03	0.00E+00	8.86E-04	2.39E-03	0.00E+00	1.44E-04	3.61E-04	0.00E+00	7.52E-05	1.38E-04	0.00E+00
1400	599766.7	4175940	0.000897	2.42E-03	0.00E+00	8.97E-04	2.42E-03	0.00E+00	1.46E-04	3.66E-04	0.00E+00	7.62E-05	1.39E-04	0.00E+00
1401	599775.2	4175944	0.000904	2.44E-03	0.00E+00	9.04E-04	2.44E-03	0.00E+00	1.47E-04	3.69E-04	0.00E+00	7.68E-05	1.41E-04	0.00E+00
1402	599783.7	4175948	0.000884	2.38E-03	0.00E+00	8.84E-04	2.38E-03	0.00E+00	1.44E-04	3.60E-04	0.00E+00	7.50E-05	1.37E-04	0.00E+00
1403	599792.2	4175951	0.000889	2.40E-03	0.00E+00	8.89E-04	2.40E-03	0.00E+00	1.45E-04	3.62E-04	0.00E+00	7.55E-05	1.38E-04	0.00E+00
1404	599800.7	4175955	0.000895	2.41E-03	0.00E+00	8.95E-04	2.41E-03	0.00E+00	1.46E-04	3.65E-04	0.00E+00	7.60E-05	1.39E-04	0.00E+00
1405	599809.2	4175959	0.000908	2.45E-03	0.00E+00	9.08E-04	2.45E-03	0.00E+00	1.48E-04	3.70E-04	0.00E+00	7.71E-05	1.41E-04	0.00E+00
1406	599817.7	4175963	0.000906	2.44E-03	0.00E+00	9.06E-04	2.44E-03	0.00E+00	1.47E-04	3.69E-04	0.00E+00	7.70E-05	1.41E-04	0.00E+00
1407	599826.2	4175966	0.000879	2.37E-03	0.00E+00	8.79E-04	2.37E-03	0.00E+00	1.43E-04	3.58E-04	0.00E+00	7.46E-05	1.37E-04	0.00E+00
1408	599838.4	4175979	0.000834	2.25E-03	0.00E+00	8.34E-04	2.25E-03	0.00E+00	1.36E-04	3.40E-04	0.00E+00	7.08E-05	1.30E-04	0.00E+00
1409	599842.2	4175987	0.000815	2.20E-03	0.00E+00	8.15E-04	2.20E-03	0.00E+00	1.33E-04	3.32E-04	0.00E+00	6.92E-05	1.27E-04	0.00E+00
1410	599845.9	4175996	0.000789	2.13E-03	0.00E+00	7.89E-04	2.13E-03	0.00E+00	1.28E-04	3.22E-04	0.00E+00	6.70E-05	1.23E-04	0.00E+00
1411	599849.6	4176004	0.000764	2.06E-03	0.00E+00	7.64E-04	2.06E-03	0.00E+00	1.24E-04	3.12E-04	0.00E+00	6.49E-05	1.19E-04	0.00E+00
1412	599853.4	4176013	0.000742	2.00E-03	0.00E+00	7.42E-04	2.00E-03	0.00E+00	1.21E-04	3.02E-04	0.00E+00	6.30E-05	1.15E-04	0.00E+00
1413	599857.1	4176021	0.000732	1.97E-03	0.00E+00	7.32E-04	1.97E-03	0.00E+00	1.19E-04	2.98E-04	0.00E+00	6.21E-05	1.14E-04	0.00E+00
1414	599860.8	4176030	0.000729	1.96E-03	0.00E+00	7.29E-04	1.96E-03	0.00E+00	1.19E-04	2.97E-04	0.00E+00	6.19E-05	1.13E-04	0.00E+00
1415	599864.5	4176038	0.000727	1.96E-03	0.00E+00	7.27E-04	1.96E-03	0.00E+00	1.18E-04	2.96E-04	0.00E+00	6.17E-05	1.13E-04	0.00E+00
1416	599715.7	4175917	0.000774	2.09E-03	0.00E+00	7.74E-04	2.09E-03	0.00E+00	1.26E-04	3.16E-04	0.00E+00	6.58E-05	1.20E-04	0.00E+00
1417	599706.2	4175917	0.000774	2.09E-03	0.00E+00	7.74E-04	2.09E-03	0.00E+00	1.26E-04	3.16E-04	0.00E+00	6.58E-05	1.20E-04	0.00E+00
1418	599696.6	4175916	0.00077	2.08E-03	0.00E+00	7.70E-04	2.08E-03	0.00E+00	1.25E-04	3.14E-04	0.00E+00	6.54E-05	1.20E-04	0.00E+00
1419	599687.1	4175916	0.000766	2.07E-03	0.00E+00	7.66E-04	2.07E-03	0.00E+00	1.25E-04	3.12E-04	0.00E+00	6.51E-05	1.19E-04	0.00E+00
1420	599677.6	4175916	0.000763	2.06E-03	0.00E+00	7.63E-04	2.06E-03	0.00E+00	1.24E-04	3.11E-04	0.00E+00	6.48E-05	1.19E-04	0.00E+00
1421	599668.1	4175915	0.000759	2.05E-03	0.00E+00	7.59E-04	2.05E-03	0.00E+00	1.23E-04	3.09E-04	0.00E+00	6.45E-05	1.18E-04	0.00E+00
1422	599724.6	4175911	0.000737	1.99E-03	0.00E+00	7.37E-04	1.99E-03	0.00E+00	1.20E-04	3.00E-04	0.00E+00	6.26E-05	1.15E-04	0.00E+00
1423	599732.9	4175915	0.000749	2.02E-03	0.00E+00	7.49E-04	2.02E-03	0.00E+00	1.22E-04	3.05E-04	0.00E+00	6.36E-05	1.16E-04	0.00E+00
1424	599741.3	4175919	0.000781	2.11E-03	0.00E+00	7.81E-04	2.11E-03	0.00E+00	1.27E-04	3.18E-04	0.00E+00	6.63E-05	1.21E-04	0.00E+00
1425	599749.7	4175922	0.000803	2.17E-03	0.00E+00	8.03E-04	2.17E-03	0.00E+00	1.31E-04	3.28E-04	0.00E+00	6.82E-05	1.25E-04	0.00E+00
1426	599758	4175926	0.00082	2.21E-03	0.00E+00	8.20E-04	2.21E-03	0.00E+00	1.33E-04	3.34E-04	0.00E+00	6.96E-05	1.27E-04	0.00E+00
1427	599766.4	4175930	0.000835	2.25E-03	0.00E+00	8.35E-04	2.25E-03	0.00E+00	1.36E-04	3.40E-04	0.00E+00	7.09E-05	1.30E-04	0.00E+00
1428	599774.8	4175933	0.000846	2.28E-03	0.00E+00	8.46E-04	2.28E-03	0.00E+00	1.38E-04	3.45E-04	0.00E+00	7.18E-05	1.31E-04	0.00E+00
1429	599783.2	4175937	0.000841	2.27E-03	0.00E+00	8.41E-04	2.27E-03	0.00E+00	1.37E-04	3.43E-04	0.00E+00	7.14E-05	1.31E-04	0.00E+00
1430	599791.5	4175941	0.000838	2.26E-03	0.00E+00	8.38E-04	2.26E-03	0.00E+00	1.36E-04	3.42E-04	0.00E+00	7.12E-05	1.30E-04	0.00E+00
1431	599799.9	4175945	0.000843	2.27E-03	0.00E+00	8.43E-04	2.27E-03	0.00E+00	1.37E-04	3.43E-04	0.00E+00	7.15E-05	1.31E-04	0.00E+00
1432	599808.3	4175948	0.000849	2.29E-03	0.00E+00	8.49E-04	2.29E-03	0.00E+00	1.38E-04	3.46E-04	0.00E+00	7.21E-05	1.32E-04	0.00E+00
1433	599816.7	4175952	0.000851	2.29E-03	0.00E+00	8.51E-04	2.29E-03	0.00E+00	1.38E-04	3.47E-04	0.00E+00	7.22E-05	1.32E-04	0.00E+00
1434	599825	4175956	0.000837	2.26E-03	0.00E+00	8.37E-04	2.26E-03	0.00E+00	1.36E-04	3.41E-04	0.00E+00	7.11E-05	1.30E-04	0.00E+00
1435	599833.4	4175959	0.000818	2.21E-03	0.00E+00	8.18E-04	2.21E-03	0.00E+00	1.33E-04	3.33E-04	0.00E+00	6.94E-05	1.27E-04	0.00E+00
1436	599845.5	4175972	0.000778	2.10E-03	0.00E+00	7.78E-04	2.10E-03	0.00E+00	1.27E-04	3.17E-04	0.00E+00	6.61E-05	1.21E-04	0.00E+00
1437	599849.1	4175980	0.000757	2.04E-03	0.00E+00	7.57E-04	2.04E-03	0.00E+00	1.23E-04	3.09E-04	0.00E+00	6.43E-05	1.18E-04	0.00E+00
1438	599852.8	4175988	0.000734	1.98E-03	0.00E+00	7.34E-04	1.98E-03	0.00E+00	1.19E-04	2.99E-04	0.00E+00	6.23E-05	1.14E-04	0.00E+00
1439	599856.5	4175997	0.000715	1.93E-03	0.00E+00	7.15E-04	1.93E-03	0.00E+00	1.16E-04	2.92E-04	0.00E+00	6.07E-05	1.11E-04	0.00E+00
1440	599860.2	4176005	0.000697	1.88E-03	0.00E+00	6.97E-04	1.88E-03	0.00E+00	1.13E-04	2.84E-04	0.00E+00	5.92E-05	1.08E-04	0.00E+00
1441	599863.8	4176014	0.000681	1.84E-03	0.00E+00	6.81E-04	1.84E-03	0.00E+00	1.11E-04	2.78E-04	0.00E+00	5.78E-05	1.06E-04	0.00E+00
1442	599867.5	4176022	0.000674	1.82E-03	0.00E+00	6.74E-04	1.82E-03	0.00E+00	1.10E-04	2.75E-04	0.00E+00	5.72E-05	1.05E-04	0.00E+00
1443	599871.2	4176030	0.000671	1.81E-03	0.00E+00	6.71E-04	1.81E-03	0.00E+00	1.09E-04	2.74E-04	0.00E+00	5.70E-05	1.04E-04	0.00E+00
1444	599874.9	4176039	0.000671	1.81E-03	0.00E+00	6.71E-04	1.81E-03	0.00E+00	1.09E-04	2.73E-04	0.00E+00	5.69E-05	1.04E-04	0.00E+00
1445	599716.2	4175907	0.00068	1.83E-03	0.00E+00	6.80E-04	1.83E-03	0.00E+00	1.11E-04	2.77E-04	0.00E+00	5.77E-05	1.06E-04	0.00E+00
1446	599706.7	4175907	0.000662	1.78E-03	0.00E+00	6.62E-04	1.78E-03	0.00E+00	1.08E-04	2.70E-04	0.00E+00	5.62E-05	1.03E-04	0.00E+00
1447	599697.1	4175906	0.000649	1.75E-03	0.00E+00	6.49E-04	1.75E-03	0.00E+00	1.06E-04	2.64E-04	0.00E+00	5.51E-05	1.01E-04	0.00E+00
1448	599687.6	4175906	0.000637	1.72E-03	0.00E+00	6.37E-04	1.72E-03	0.00E+00	1.04E-04	2.60E-04	0.00E+00	5.41E-05	9.90E-05	0.00E+00
1449	599678.1	4175906	0.000627	1.69E-03	0.00E+00	6.27E-04	1.69E-03	0.00E+00	1.02E-04	2.56E-04	0.00E+00	5.32E-05	9.74E-05	0.00E+00
1450	599668.6	4175905	0.000617	1.66E-03	0.00E+00	6.17E-04	1.66E-03	0.00E+00	1.00E-04	2.51E-04	0.00E+00	5.24E-05	9.58E-05	0.00E+00
1451	599724.9	4175901	0.000643	1.73E-03	0.00E+00	6.43E-04	1.73E-03	0.00E+00	1.05E-04	2.62E-04	0.00E+00	5.46E-05	1.00E-04	0.00E+00
1452	599733.2	4175905	0.000688	1.85E-03	0.00E+00	6.88E-04	1.85E-03	0.00E+00	1.12E-04	2.80E-04	0.00E+00	5.84E-05	1.07E-04	0.00E+00
1453	599741.4	4175908	0.000721	1.95E-03	0.00E+00	7.21E-04	1.95E-03	0.00E+00	1.17E-04	2.94E-04	0.00E+00	6.13E-05	1.12E-04	0.00E+00

1454	599758	4175916	0.000764	2.06E-03	0.00E+00	7.64E-04	2.06E-03	0.00E+00	1.24E-04	3.11E-04	0.00E+00	6.48E-05	1.19E-04	0.00E+00
1455	599766.2	4175919	0.00078	2.10E-03	0.00E+00	7.80E-04	2.10E-03	0.00E+00	1.27E-04	3.18E-04	0.00E+00	6.62E-05	1.21E-04	0.00E+00
1456	599782.8	4175927	0.000795	2.14E-03	0.00E+00	7.95E-04	2.14E-03	0.00E+00	1.29E-04	3.24E-04	0.00E+00	6.75E-05	1.23E-04	0.00E+00
1457	599791	4175930	0.000795	2.14E-03	0.00E+00	7.95E-04	2.14E-03	0.00E+00	1.29E-04	3.24E-04	0.00E+00	6.75E-05	1.24E-04	0.00E+00
1458	599799.3	4175934	0.000794	2.14E-03	0.00E+00	7.94E-04	2.14E-03	0.00E+00	1.29E-04	3.24E-04	0.00E+00	6.74E-05	1.23E-04	0.00E+00
1459	599807.6	4175938	0.000796	2.15E-03	0.00E+00	7.96E-04	2.15E-03	0.00E+00	1.30E-04	3.25E-04	0.00E+00	6.76E-05	1.24E-04	0.00E+00
1460	599815.8	4175941	0.0008	2.16E-03	0.00E+00	8.00E-04	2.16E-03	0.00E+00	1.30E-04	3.26E-04	0.00E+00	6.79E-05	1.24E-04	0.00E+00
1461	599832.4	4175949	0.000784	2.11E-03	0.00E+00	7.84E-04	2.11E-03	0.00E+00	1.27E-04	3.19E-04	0.00E+00	6.65E-05	1.22E-04	0.00E+00
1462	599840.6	4175952	0.00077	2.08E-03	0.00E+00	7.70E-04	2.08E-03	0.00E+00	1.25E-04	3.14E-04	0.00E+00	6.54E-05	1.20E-04	0.00E+00
1463	599852.5	4175964	0.000728	1.96E-03	0.00E+00	7.28E-04	1.96E-03	0.00E+00	1.18E-04	2.97E-04	0.00E+00	6.18E-05	1.13E-04	0.00E+00
1464	599856.1	4175973	0.00071	1.91E-03	0.00E+00	7.10E-04	1.91E-03	0.00E+00	1.15E-04	2.89E-04	0.00E+00	6.03E-05	1.10E-04	0.00E+00
1465	599859.8	4175981	0.000688	1.85E-03	0.00E+00	6.88E-04	1.85E-03	0.00E+00	1.12E-04	2.80E-04	0.00E+00	5.84E-05	1.07E-04	0.00E+00
1466	599863.4	4175989	0.000668	1.80E-03	0.00E+00	6.68E-04	1.80E-03	0.00E+00	1.09E-04	2.72E-04	0.00E+00	5.67E-05	1.04E-04	0.00E+00
1467	599867	4175998	0.000654	1.76E-03	0.00E+00	6.54E-04	1.76E-03	0.00E+00	1.06E-04	2.66E-04	0.00E+00	5.55E-05	1.02E-04	0.00E+00
1468	599870.6	4176006	0.00064	1.73E-03	0.00E+00	6.40E-04	1.73E-03	0.00E+00	1.04E-04	2.61E-04	0.00E+00	5.44E-05	9.95E-05	0.00E+00
1469	599874.3	4176014	0.000628	1.69E-03	0.00E+00	6.28E-04	1.69E-03	0.00E+00	1.02E-04	2.56E-04	0.00E+00	5.34E-05	9.76E-05	0.00E+00
1470	599877.9	4176022	0.000625	1.68E-03	0.00E+00	6.25E-04	1.68E-03	0.00E+00	1.02E-04	2.55E-04	0.00E+00	5.31E-05	9.71E-05	0.00E+00
1471	599881.5	4176031	0.000625	1.69E-03	0.00E+00	6.25E-04	1.69E-03	0.00E+00	1.02E-04	2.55E-04	0.00E+00	5.31E-05	9.71E-05	0.00E+00
1472	599885.1	4176039	0.000628	1.69E-03	0.00E+00	6.28E-04	1.69E-03	0.00E+00	1.02E-04	2.56E-04	0.00E+00	5.33E-05	9.75E-05	0.00E+00
1473	599716.7	4175897	0.000591	1.59E-03	0.00E+00	5.91E-04	1.59E-03	0.00E+00	9.62E-05	2.41E-04	0.00E+00	5.02E-05	9.19E-05	0.00E+00
1474	599707.1	4175897	0.000562	1.52E-03	0.00E+00	5.62E-04	1.52E-03	0.00E+00	9.15E-05	2.29E-04	0.00E+00	4.78E-05	8.74E-05	0.00E+00
1475	599697.6	4175896	0.000542	1.46E-03	0.00E+00	5.42E-04	1.46E-03	0.00E+00	8.82E-05	2.21E-04	0.00E+00	4.60E-05	8.42E-05	0.00E+00
1476	599688.1	4175896	0.000526	1.42E-03	0.00E+00	5.26E-04	1.42E-03	0.00E+00	8.55E-05	2.14E-04	0.00E+00	4.46E-05	8.17E-05	0.00E+00
1477	599678.6	4175896	0.000513	1.38E-03	0.00E+00	5.13E-04	1.38E-03	0.00E+00	8.34E-05	2.09E-04	0.00E+00	4.35E-05	7.97E-05	0.00E+00
1478	599669	4175895	0.0005	1.35E-03	0.00E+00	5.00E-04	1.35E-03	0.00E+00	8.14E-05	2.04E-04	0.00E+00	4.25E-05	7.77E-05	0.00E+00
1479	599725.8	4175891	0.000565	1.52E-03	0.00E+00	5.65E-04	1.52E-03	0.00E+00	9.19E-05	2.30E-04	0.00E+00	4.80E-05	8.78E-05	0.00E+00
1480	599734.5	4175895	0.000614	1.65E-03	0.00E+00	6.14E-04	1.65E-03	0.00E+00	9.98E-05	2.50E-04	0.00E+00	5.21E-05	9.53E-05	0.00E+00
1481	599743.2	4175899	0.000654	1.76E-03	0.00E+00	6.54E-04	1.76E-03	0.00E+00	1.06E-04	2.67E-04	0.00E+00	5.56E-05	1.02E-04	0.00E+00
1482	599751.8	4175903	0.000686	1.85E-03	0.00E+00	6.86E-04	1.85E-03	0.00E+00	1.12E-04	2.80E-04	0.00E+00	5.83E-05	1.07E-04	0.00E+00
1483	599760.5	4175907	0.000713	1.92E-03	0.00E+00	7.13E-04	1.92E-03	0.00E+00	1.16E-04	2.91E-04	0.00E+00	6.06E-05	1.11E-04	0.00E+00
1484	599769.2	4175911	0.000734	1.98E-03	0.00E+00	7.34E-04	1.98E-03	0.00E+00	1.19E-04	2.99E-04	0.00E+00	6.24E-05	1.14E-04	0.00E+00
1485	599777.9	4175914	0.000749	2.02E-03	0.00E+00	7.49E-04	2.02E-03	0.00E+00	1.22E-04	3.05E-04	0.00E+00	6.36E-05	1.16E-04	0.00E+00
1486	599786.6	4175918	0.000756	2.04E-03	0.00E+00	7.56E-04	2.04E-03	0.00E+00	1.23E-04	3.08E-04	0.00E+00	6.42E-05	1.18E-04	0.00E+00
1487	599795.2	4175922	0.000761	2.05E-03	0.00E+00	7.61E-04	2.05E-03	0.00E+00	1.24E-04	3.10E-04	0.00E+00	6.46E-05	1.18E-04	0.00E+00
1488	599803.9	4175926	0.000763	2.06E-03	0.00E+00	7.63E-04	2.06E-03	0.00E+00	1.24E-04	3.11E-04	0.00E+00	6.48E-05	1.19E-04	0.00E+00
1489	599812.6	4175930	0.000748	2.02E-03	0.00E+00	7.48E-04	2.02E-03	0.00E+00	1.22E-04	3.05E-04	0.00E+00	6.36E-05	1.16E-04	0.00E+00
1490	599821.3	4175934	0.000749	2.02E-03	0.00E+00	7.49E-04	2.02E-03	0.00E+00	1.22E-04	3.06E-04	0.00E+00	6.36E-05	1.16E-04	0.00E+00
1491	599829.9	4175937	0.000746	2.01E-03	0.00E+00	7.46E-04	2.01E-03	0.00E+00	1.21E-04	3.04E-04	0.00E+00	6.33E-05	1.16E-04	0.00E+00
1492	599838.6	4175941	0.000738	1.99E-03	0.00E+00	7.38E-04	1.99E-03	0.00E+00	1.20E-04	3.01E-04	0.00E+00	6.27E-05	1.15E-04	0.00E+00
1493	599847.3	4175945	0.000721	1.94E-03	0.00E+00	7.21E-04	1.94E-03	0.00E+00	1.17E-04	2.94E-04	0.00E+00	6.12E-05	1.12E-04	0.00E+00
1494	599859.8	4175958	0.000685	1.85E-03	0.00E+00	6.85E-04	1.85E-03	0.00E+00	1.11E-04	2.79E-04	0.00E+00	5.82E-05	1.06E-04	0.00E+00
1495	599863.6	4175966	0.000668	1.80E-03	0.00E+00	6.68E-04	1.80E-03	0.00E+00	1.09E-04	2.72E-04	0.00E+00	5.67E-05	1.04E-04	0.00E+00
1496	599867.4	4175975	0.000647	1.74E-03	0.00E+00	6.47E-04	1.74E-03	0.00E+00	1.05E-04	2.64E-04	0.00E+00	5.49E-05	1.00E-04	0.00E+00
1497	599871.2	4175984	0.000623	1.68E-03	0.00E+00	6.23E-04	1.68E-03	0.00E+00	1.01E-04	2.54E-04	0.00E+00	5.29E-05	9.68E-05	0.00E+00
1498	599875	4175993	0.00061	1.64E-03	0.00E+00	6.10E-04	1.64E-03	0.00E+00	9.92E-05	2.49E-04	0.00E+00	5.18E-05	9.47E-05	0.00E+00
1499	599878.8	4176001	0.000601	1.62E-03	0.00E+00	6.01E-04	1.62E-03	0.00E+00	9.78E-05	2.45E-04	0.00E+00	5.10E-05	9.34E-05	0.00E+00
1500	599882.6	4176010	0.000591	1.59E-03	0.00E+00	5.91E-04	1.59E-03	0.00E+00	9.62E-05	2.41E-04	0.00E+00	5.02E-05	9.19E-05	0.00E+00
1501	599886.4	4176019	0.000584	1.57E-03	0.00E+00	5.84E-04	1.57E-03	0.00E+00	9.50E-05	2.38E-04	0.00E+00	4.96E-05	9.07E-05	0.00E+00
1502	599890.2	4176027	0.000584	1.57E-03	0.00E+00	5.84E-04	1.57E-03	0.00E+00	9.50E-05	2.38E-04	0.00E+00	4.96E-05	9.08E-05	0.00E+00
1503	599894	4176036	0.000587	1.58E-03	0.00E+00	5.87E-04	1.58E-03	0.00E+00	9.55E-05	2.39E-04	0.00E+00	4.98E-05	9.12E-05	0.00E+00
1504	599897.9	4176045	0.000593	1.60E-03	0.00E+00	5.93E-04	1.60E-03	0.00E+00	9.65E-05	2.42E-04	0.00E+00	5.04E-05	9.22E-05	0.00E+00
1505	599717.1	4175887	0.000514	1.39E-03	0.00E+00	5.14E-04	1.39E-03	0.00E+00	8.37E-05	2.10E-04	0.00E+00	4.37E-05	7.99E-05	0.00E+00
1506	599707.6	4175887	0.000487	1.31E-03	0.00E+00	4.87E-04	1.31E-03	0.00E+00	7.92E-05	1.98E-04	0.00E+00	4.13E-05	7.56E-05	0.00E+00
1507	599698.1	4175886	0.000465	1.25E-03	0.00E+00	4.65E-04	1.25E-03	0.00E+00	7.57E-05	1.90E-04	0.00E+00	3.95E-05	7.23E-05	0.00E+00
1508	599688.6	4175886	0.000446	1.20E-03	0.00E+00	4.46E-04	1.20E-03	0.00E+00	7.25E-05	1.82E-04	0.00E+00	3.79E-05	6.93E-05	0.00E+00
1509	599679	4175886	0.000431	1.16E-03	0.00E+00	4.31E-04	1.16E-03	0.00E+00	7.00E-05	1.76E-04	0.00E+00	3.66E-05	6.69E-05	0.00E+00
1510	599669.5	4175885	0.000416	1.12E-03	0.00E+00	4.16E-04	1.12E-03	0.00E+00	6.77E-05	1.70E-04	0.00E+00	3.53E-05	6.46E-05	0.00E+00
1511	599726.2	4175881	0.000494	1.33E-03	0.00E+00	4.94E-04	1.33E-03	0.00E+00	8.04E-05	2.02E-04	0.00E+00	4.20E-05	7.68E-05	0.00E+00
1512	599734.7	4175885	0.000542	1.46E-03	0.00E+00	5.42E-04	1.46E-03	0.00E+00	8.82E-05	2.21E-04	0.00E+00	4.60E-05	8.42E-05	0.00E+00
1513	599743.3	4175889	0.000585	1.58E-03	0.00E+00	5.85E-04	1.58E-03	0.00E+00	9.52E-05	2.39E-04	0.00E+00	4.97E-05	9.09E-05	0.00E+00
1514	599751.8	4175893	0.000623	1.68E-03	0.00E+00	6.23E-04	1.68E-03	0.00E+00	1.01E-04	2.54E-04	0.00E+00	5.29E-05	9.68E-05	0.00E+00
1515	599760.4	4175896	0.000656	1.77E-03	0.00E+00	6.56E-04	1.77E-03	0.00E+00	1.07E-04	2.67E-04	0.00E+00	5.57E-05	1.02E-04	0.00E+00
1516	599768.9	4175900	0.000682	1.84E-03	0.00E+00	6.82E-04	1.84E-03	0.00E+00	1.11E-04	2.78E-04	0.00E+00	5.79E-05	1.06E-04	0.00E+00
1517	599777.5	4175904	0.000702	1.89E-03	0.00E+00	7.02E-04	1.89E-03	0.00E+00	1.14E-04	2.86E-04	0.00E+00	5.96E-05	1.09E-04	0.00E+00
1518	599786.1	4175908	0.000715	1.93E-03	0.00E+00	7.15E-04	1.93E-03	0.00E+00	1.16E-04	2.92E-04	0.00E+00	6.07E-05	1.11E-04	0.00E+00
1519	599794.6	4175912	0.000722	1.95E-03	0.00E+00	7.22E-04	1.95E-03	0.00E+00	1.17E-04	2.94E-04	0.00E+00	6.13E-05	1.12E-04	0.00E+00
1520	599803.2	4175915	0.000726	1.96E-03	0.00E+00	7.26E-04	1.96E-03	0.00E+00	1.18E-04	2.96E-04	0.00E+00	6.17E-05	1.13E-04	0.00E+00
1521	599811.7	4175919	0.000729	1.96E-03	0.00E+00	7.29E-04	1.96E-03	0.00E+00	1.19E-04	2.97E-04	0.00E+00	6.19E-05	1.13E-04	0.00E+00
1522	599820.3	4175923	0.000707	1.91E-03	0.00E+00	7.07E-04	1.91E-03	0.00E+00	1.15E-04	2.88E-04	0.00E+00	6.00E-05	1.10E-04	0.00E+00
1523	599828.8	4175927	0.000704	1.90E-03	0.00E+00	7.04E-04	1.90E-03	0.00E+00	1.15E-04	2.87E-04	0.00E+00	5.98E-05	1.09E-04	0.00E+00
1524	599837.4	4175931	0.000703	1.90E-03	0.00E+00	7.03E-04	1.90E-03	0.00E+00	1.14E-04	2.87E-04	0.00E+00	5.97E-05	1.09E-04	0.00E+00
1525	599846	4175934	0.000695	1.87E-03	0.00E+00	6.95E-04	1.87E-03	0.00E+00	1.13E-04	2.83E-04	0.00E+00	5.90E-05	1.08E-04	0.00E+00
1526	599854.5	4175938	0.000674	1.82E-03	0.00E+00	6.74E-04	1.82E-03	0.00E+00	1.10E-04	2.75E-04	0.00E+00	5.72E-05	1.05E-04	0.00E+00
1527	599866.8	4175951	0.000646	1.74E-03	0.00E+00	6.46E-04	1.74E-03	0.00E+00	1.05E-04	2.63E-04	0.00E+00	5.48E-05	1.00E-04	0.00E+00
1528	599870.6	4175959	0.000634	1.71E-03	0.00E+00	6.34E-04	1.71E-03	0.00E+00	1.03E-04	2.59E-04	0.00E+00	5.39E-05	9.86E-05	0.00E+00
1529	599874.3	4175968	0.000616	1.66E-03	0.00E+00	6.16E-04	1.66E-03	0.00E+00	1.00E-04	2.51E-04	0.00E+00	5.23E-05	9.57E-05	0.00E+00
1530	599878.1	4175976	0.000598	1.61E-03	0.00E+00	5.98E-04	1.61E-03	0.00E+00	9.73E-05	2.44E-04	0.00E+00	5.08E-05	9.29E-05	0.00E+00
1531	599881.8	4175985	0.000579	1.56E-03	0.00E+00	5.79E-04	1.56E-03	0.00E+00	9.42E-05	2.36E-04	0.00E+00	4.92E-05	8.99E-05	0.00E+00
1532	599885.6	4175993	0.00057	1.54E-03	0.00E+00	5.70E-04	1.54E-03	0.00E+00	9.27E-05	2.32E-04	0.00E+00	4.84E-05	8.86E-05	0.00E+00
1533	599889.3	4176002	0.000562	1.51E-03	0.00E+00	5.62E-04	1.51E-03	0.00E+00	9.14E-05	2.29E-04	0.00E+00	4.77E-05	8.73E-05	0.00E+00
1534	599893.1	4176011	0.000552	1.49E-03	0.00E+00	5.52E-04	1.49E-03	0.00E+00	8.99E-05	2.25E-04	0.00E+00	4.69E-05	8.58E-05	0.00E+00
1535	599896.8	4176019	0.000546	1.47E-03	0.00E+00	5.46E-04	1.47E-03	0.00E+00	8.89E-05	2.23E-04	0.00E+00	4.64E-05	8.49E-05	0.00E+00
1536	599900.6	4176028	0.000548	1.48E-03	0.00E+00	5.48E-04	1.48E-03	0.00E+00	8.91E-05	2.23E-04	0.00E+00	4.65E-05	8.51E-05	0.00E+00
1537	599717.6	4175877	0.000446	1.20E-03	0.00E+00	4.46E-04	1.20E-03	0.00E+00	7.26E-05	1.82E-04	0.00E+00	3.79E-05	6.93E-05	0.00E+00
1538	599708.1	4175877	0.000424	1.14E-03	0.00E+00	4.24E-04	1.14E-03	0.00E+00	6.90E-05	1.73E-04	0.00E+00	3.60E-05	6.59E-05	0.00E+00
1539	599698.6	4175876	0.0004	1.08E-03	0.00E+00	4.00E-04	1.08E-03	0.00E+00	6.50E-05	1.63E-04	0.00E+00	3.39E-05	6.21E-05	0.00E+00
1540	599689	4175876	0.000379	1.02E-03	0.00E+00	3.79E-04	1.02E-03	0.00E+00	6.16E-05	1.54E-04	0.00E+00	3.21E-05	5.88E-05	0.00E+00
1541	599679.5	4175876	0.000362	9.77E-04	0.00E+00	3.62E-04	9.77E-04	0.00E+00	5.90E-05	1.48E-04	0.00E+00	3.08E-05	5.63E-05	0.00E+00
1542	599670	4175875	0.000347	9.36E-04	0.00E+00	3.47E-04	9.36E-04	0.00E+00	5.65E-05	1.42E-04	0.00E+00	2.95E-05	5.40E-05	0.00E+00
1543	599726.5	4175871	0.000434	1.17E-03	0.00E+00	4.34E-04	1.17E-03	0.00E+00	7.07E-05	1.77E-04	0.00E+00	3.69E-05	6.75E-05	0.00E+00
1544	599735	4175875	0.000479	1.29E-03	0.00E+00	4.79E-04	1.29E-03	0.00E+00	7.80E-05	1.95E-04	0.00E+00	4.07E-05	7.45E-05	0.00E+00

1545	599743.4	4175879	0.000521	1.40E-03	0.00E+00	5.21E-04	1.40E-03	0.00E+00	8.47E-05	2.12E-04	0.00E+00	4.42E-05	8.09E-05	0.00E+00
1546	599751.9	4175882	0.000557	1.50E-03	0.00E+00	5.57E-04	1.50E-03	0.00E+00	9.06E-05	2.27E-04	0.00E+00	4.73E-05	8.65E-05	0.00E+00
1547	599760.3	4175886	0.000587	1.58E-03	0.00E+00	5.87E-04	1.58E-03	0.00E+00	9.55E-05	2.39E-04	0.00E+00	4.98E-05	9.12E-05	0.00E+00
1548	599768.8	4175890	0.000637	1.72E-03	0.00E+00	6.37E-04	1.72E-03	0.00E+00	1.04E-04	2.60E-04	0.00E+00	5.41E-05	9.90E-05	0.00E+00
1549	599777.2	4175894	0.000656	1.77E-03	0.00E+00	6.56E-04	1.77E-03	0.00E+00	1.07E-04	2.68E-04	0.00E+00	5.57E-05	1.02E-04	0.00E+00
1550	599785.7	4175897	0.000671	1.81E-03	0.00E+00	6.71E-04	1.81E-03	0.00E+00	1.09E-04	2.74E-04	0.00E+00	5.70E-05	1.04E-04	0.00E+00
1551	599794.1	4175901	0.00068	1.83E-03	0.00E+00	6.80E-04	1.83E-03	0.00E+00	1.11E-04	2.77E-04	0.00E+00	5.78E-05	1.06E-04	0.00E+00
1552	599802.6	4175905	0.000687	1.85E-03	0.00E+00	6.87E-04	1.85E-03	0.00E+00	1.12E-04	2.80E-04	0.00E+00	5.83E-05	1.07E-04	0.00E+00
1553	599811	4175909	0.000691	1.86E-03	0.00E+00	6.91E-04	1.86E-03	0.00E+00	1.12E-04	2.82E-04	0.00E+00	5.87E-05	1.07E-04	0.00E+00
1554	599819.5	4175912	0.000673	1.81E-03	0.00E+00	6.73E-04	1.81E-03	0.00E+00	1.09E-04	2.74E-04	0.00E+00	5.71E-05	1.05E-04	0.00E+00
1555	599827.9	4175916	0.000673	1.81E-03	0.00E+00	6.73E-04	1.81E-03	0.00E+00	1.09E-04	2.74E-04	0.00E+00	5.71E-05	1.05E-04	0.00E+00
1556	599836.4	4175920	0.000671	1.81E-03	0.00E+00	6.71E-04	1.81E-03	0.00E+00	1.09E-04	2.73E-04	0.00E+00	5.69E-05	1.04E-04	0.00E+00
1557	599844.8	4175924	0.000666	1.80E-03	0.00E+00	6.66E-04	1.80E-03	0.00E+00	1.08E-04	2.71E-04	0.00E+00	5.65E-05	1.03E-04	0.00E+00
1558	599853.3	4175927	0.000652	1.76E-03	0.00E+00	6.52E-04	1.76E-03	0.00E+00	1.06E-04	2.66E-04	0.00E+00	5.54E-05	1.01E-04	0.00E+00
1559	599861.7	4175931	0.000636	1.71E-03	0.00E+00	6.36E-04	1.71E-03	0.00E+00	1.03E-04	2.59E-04	0.00E+00	5.40E-05	9.88E-05	0.00E+00
1560	599873.9	4175943	0.000612	1.65E-03	0.00E+00	6.12E-04	1.65E-03	0.00E+00	9.96E-05	2.50E-04	0.00E+00	5.20E-05	9.51E-05	0.00E+00
1561	599877.6	4175952	0.000604	1.63E-03	0.00E+00	6.04E-04	1.63E-03	0.00E+00	9.83E-05	2.46E-04	0.00E+00	5.13E-05	9.39E-05	0.00E+00
1562	599881.3	4175960	0.000592	1.60E-03	0.00E+00	5.92E-04	1.60E-03	0.00E+00	9.63E-05	2.41E-04	0.00E+00	5.02E-05	9.19E-05	0.00E+00
1563	599885	4175969	0.000576	1.55E-03	0.00E+00	5.76E-04	1.55E-03	0.00E+00	9.37E-05	2.35E-04	0.00E+00	4.89E-05	8.95E-05	0.00E+00
1564	599888.7	4175977	0.000559	1.51E-03	0.00E+00	5.59E-04	1.51E-03	0.00E+00	9.10E-05	2.28E-04	0.00E+00	4.75E-05	8.69E-05	0.00E+00
1565	599892.4	4175986	0.000542	1.46E-03	0.00E+00	5.42E-04	1.46E-03	0.00E+00	8.81E-05	2.21E-04	0.00E+00	4.60E-05	8.42E-05	0.00E+00
1566	599896.1	4175994	0.000534	1.44E-03	0.00E+00	5.34E-04	1.44E-03	0.00E+00	8.69E-05	2.18E-04	0.00E+00	4.54E-05	8.30E-05	0.00E+00
1567	599899.8	4176003	0.000526	1.42E-03	0.00E+00	5.26E-04	1.42E-03	0.00E+00	8.56E-05	2.15E-04	0.00E+00	4.47E-05	8.18E-05	0.00E+00
1568	599903.5	4176011	0.000517	1.40E-03	0.00E+00	5.17E-04	1.40E-03	0.00E+00	8.42E-05	2.11E-04	0.00E+00	4.39E-05	8.04E-05	0.00E+00
1569	599718.1	4175867	0.000394	1.06E-03	0.00E+00	3.94E-04	1.06E-03	0.00E+00	6.41E-05	1.61E-04	0.00E+00	3.35E-05	6.12E-05	0.00E+00
1570	599708.6	4175867	0.00037	9.97E-04	0.00E+00	3.70E-04	9.97E-04	0.00E+00	6.02E-05	1.51E-04	0.00E+00	3.14E-05	5.75E-05	0.00E+00
1571	599699	4175866	0.000344	9.29E-04	0.00E+00	3.44E-04	9.29E-04	0.00E+00	5.60E-05	1.40E-04	0.00E+00	2.92E-05	5.35E-05	0.00E+00
1572	599689.5	4175866	0.000322	8.69E-04	0.00E+00	3.22E-04	8.69E-04	0.00E+00	5.25E-05	1.31E-04	0.00E+00	2.74E-05	5.01E-05	0.00E+00
1573	599680	4175866	0.000307	8.28E-04	0.00E+00	3.07E-04	8.28E-04	0.00E+00	4.99E-05	1.25E-04	0.00E+00	2.61E-05	4.77E-05	0.00E+00
1574	599670.5	4175865	0.000293	7.90E-04	0.00E+00	2.93E-04	7.90E-04	0.00E+00	4.77E-05	1.19E-04	0.00E+00	2.49E-05	4.55E-05	0.00E+00
1575	599726.9	4175861	0.000393	1.06E-03	0.00E+00	3.93E-04	1.06E-03	0.00E+00	6.40E-05	1.60E-04	0.00E+00	3.34E-05	6.11E-05	0.00E+00
1576	599735.3	4175865	0.000434	1.17E-03	0.00E+00	4.34E-04	1.17E-03	0.00E+00	7.06E-05	1.77E-04	0.00E+00	3.69E-05	6.75E-05	0.00E+00
1577	599743.6	4175869	0.000476	1.28E-03	0.00E+00	4.76E-04	1.28E-03	0.00E+00	7.75E-05	1.94E-04	0.00E+00	4.04E-05	7.40E-05	0.00E+00
1578	599752	4175872	0.000515	1.39E-03	0.00E+00	5.15E-04	1.39E-03	0.00E+00	8.37E-05	2.10E-04	0.00E+00	4.37E-05	8.00E-05	0.00E+00
1579	599760.3	4175876	0.000546	1.47E-03	0.00E+00	5.46E-04	1.47E-03	0.00E+00	8.88E-05	2.22E-04	0.00E+00	4.63E-05	8.48E-05	0.00E+00
1580	599768.7	4175880	0.000572	1.54E-03	0.00E+00	5.72E-04	1.54E-03	0.00E+00	9.31E-05	2.33E-04	0.00E+00	4.86E-05	8.89E-05	0.00E+00
1581	599777	4175883	0.000595	1.60E-03	0.00E+00	5.95E-04	1.60E-03	0.00E+00	9.68E-05	2.43E-04	0.00E+00	5.05E-05	9.25E-05	0.00E+00
1582	599785.4	4175887	0.000625	1.68E-03	0.00E+00	6.25E-04	1.68E-03	0.00E+00	1.02E-04	2.55E-04	0.00E+00	5.31E-05	9.71E-05	0.00E+00
1583	599793.7	4175891	0.000643	1.73E-03	0.00E+00	6.43E-04	1.73E-03	0.00E+00	1.05E-04	2.62E-04	0.00E+00	5.46E-05	1.00E-04	0.00E+00
1584	599802.1	4175895	0.000647	1.74E-03	0.00E+00	6.47E-04	1.74E-03	0.00E+00	1.05E-04	2.64E-04	0.00E+00	5.49E-05	1.01E-04	0.00E+00
1585	599810.4	4175898	0.000651	1.75E-03	0.00E+00	6.51E-04	1.75E-03	0.00E+00	1.06E-04	2.65E-04	0.00E+00	5.52E-05	1.01E-04	0.00E+00
1586	599818.8	4175902	0.000656	1.77E-03	0.00E+00	6.56E-04	1.77E-03	0.00E+00	1.07E-04	2.67E-04	0.00E+00	5.57E-05	1.02E-04	0.00E+00
1587	599827.1	4175906	0.000639	1.72E-03	0.00E+00	6.39E-04	1.72E-03	0.00E+00	1.04E-04	2.61E-04	0.00E+00	5.43E-05	9.93E-05	0.00E+00
1588	599835.5	4175909	0.00064	1.73E-03	0.00E+00	6.40E-04	1.73E-03	0.00E+00	1.04E-04	2.61E-04	0.00E+00	5.43E-05	9.94E-05	0.00E+00
1589	599843.8	4175913	0.000639	1.72E-03	0.00E+00	6.39E-04	1.72E-03	0.00E+00	1.04E-04	2.60E-04	0.00E+00	5.42E-05	9.92E-05	0.00E+00
1590	599852.2	4175917	0.000629	1.70E-03	0.00E+00	6.29E-04	1.70E-03	0.00E+00	1.02E-04	2.57E-04	0.00E+00	5.34E-05	9.78E-05	0.00E+00
1591	599860.5	4175920	0.000618	1.67E-03	0.00E+00	6.18E-04	1.67E-03	0.00E+00	1.01E-04	2.52E-04	0.00E+00	5.25E-05	9.60E-05	0.00E+00
1592	599868.9	4175924	0.000604	1.63E-03	0.00E+00	6.04E-04	1.63E-03	0.00E+00	9.83E-05	2.46E-04	0.00E+00	5.13E-05	9.39E-05	0.00E+00
1593	599880.9	4175936	0.000584	1.57E-03	0.00E+00	5.84E-04	1.57E-03	0.00E+00	9.49E-05	2.38E-04	0.00E+00	4.96E-05	9.07E-05	0.00E+00
1594	599884.6	4175945	0.000577	1.56E-03	0.00E+00	5.77E-04	1.56E-03	0.00E+00	9.39E-05	2.35E-04	0.00E+00	4.90E-05	8.97E-05	0.00E+00
1595	599888.2	4175953	0.000568	1.53E-03	0.00E+00	5.68E-04	1.53E-03	0.00E+00	9.23E-05	2.31E-04	0.00E+00	4.82E-05	8.82E-05	0.00E+00
1596	599891.9	4175961	0.000554	1.49E-03	0.00E+00	5.54E-04	1.49E-03	0.00E+00	9.02E-05	2.26E-04	0.00E+00	4.71E-05	8.62E-05	0.00E+00
1597	599895.6	4175970	0.00054	1.46E-03	0.00E+00	5.40E-04	1.46E-03	0.00E+00	8.78E-05	2.20E-04	0.00E+00	4.58E-05	8.39E-05	0.00E+00
1598	599899.2	4175978	0.000524	1.41E-03	0.00E+00	5.24E-04	1.41E-03	0.00E+00	8.53E-05	2.14E-04	0.00E+00	4.45E-05	8.14E-05	0.00E+00
1599	599902.9	4175987	0.000509	1.37E-03	0.00E+00	5.09E-04	1.37E-03	0.00E+00	8.28E-05	2.07E-04	0.00E+00	4.32E-05	7.90E-05	0.00E+00
1600	599906.6	4175995	0.000502	1.35E-03	0.00E+00	5.02E-04	1.35E-03	0.00E+00	8.17E-05	2.05E-04	0.00E+00	4.27E-05	7.81E-05	0.00E+00
1601	599718.6	4175857	0.000359	9.68E-04	0.00E+00	3.59E-04	9.68E-04	0.00E+00	5.84E-05	1.46E-04	0.00E+00	3.05E-05	5.58E-05	0.00E+00
1602	599709	4175857	0.000336	9.06E-04	0.00E+00	3.36E-04	9.06E-04	0.00E+00	5.47E-05	1.37E-04	0.00E+00	2.85E-05	5.22E-05	0.00E+00
1603	599699.5	4175857	0.000312	8.42E-04	0.00E+00	3.12E-04	8.42E-04	0.00E+00	5.08E-05	1.27E-04	0.00E+00	2.65E-05	4.85E-05	0.00E+00
1604	599690	4175856	0.000292	7.87E-04	0.00E+00	2.92E-04	7.87E-04	0.00E+00	4.75E-05	1.19E-04	0.00E+00	2.48E-05	4.54E-05	0.00E+00
1605	599680.5	4175856	0.000277	7.48E-04	0.00E+00	2.77E-04	7.48E-04	0.00E+00	4.51E-05	1.13E-04	0.00E+00	2.35E-05	4.31E-05	0.00E+00
1606	599671	4175855	0.000264	7.12E-04	0.00E+00	2.64E-04	7.12E-04	0.00E+00	4.29E-05	1.08E-04	0.00E+00	2.24E-05	4.10E-05	0.00E+00
1607	599727.7	4175851	0.000365	9.85E-04	0.00E+00	3.65E-04	9.85E-04	0.00E+00	5.94E-05	1.49E-04	0.00E+00	3.10E-05	5.67E-05	0.00E+00
1608	599736.4	4175855	0.000403	1.09E-03	0.00E+00	4.03E-04	1.09E-03	0.00E+00	6.55E-05	1.64E-04	0.00E+00	3.42E-05	6.26E-05	0.00E+00
1609	599745.1	4175859	0.000442	1.19E-03	0.00E+00	4.42E-04	1.19E-03	0.00E+00	7.20E-05	1.80E-04	0.00E+00	3.76E-05	6.87E-05	0.00E+00
1610	599753.8	4175863	0.000483	1.30E-03	0.00E+00	4.83E-04	1.30E-03	0.00E+00	7.86E-05	1.97E-04	0.00E+00	4.10E-05	7.50E-05	0.00E+00
1611	599762.5	4175867	0.000516	1.39E-03	0.00E+00	5.16E-04	1.39E-03	0.00E+00	8.39E-05	2.10E-04	0.00E+00	4.38E-05	8.01E-05	0.00E+00
1612	599771.2	4175871	0.000543	1.46E-03	0.00E+00	5.43E-04	1.46E-03	0.00E+00	8.83E-05	2.21E-04	0.00E+00	4.61E-05	8.44E-05	0.00E+00
1613	599779.9	4175874	0.000567	1.53E-03	0.00E+00	5.67E-04	1.53E-03	0.00E+00	9.22E-05	2.31E-04	0.00E+00	4.81E-05	8.81E-05	0.00E+00
1614	599788.6	4175878	0.000583	1.57E-03	0.00E+00	5.83E-04	1.57E-03	0.00E+00	9.48E-05	2.38E-04	0.00E+00	4.95E-05	9.06E-05	0.00E+00
1615	599797.3	4175882	0.000596	1.61E-03	0.00E+00	5.96E-04	1.61E-03	0.00E+00	9.69E-05	2.43E-04	0.00E+00	5.06E-05	9.26E-05	0.00E+00
1616	599806	4175886	0.000608	1.64E-03	0.00E+00	6.08E-04	1.64E-03	0.00E+00	9.90E-05	2.48E-04	0.00E+00	5.16E-05	9.45E-05	0.00E+00
1617	599814.7	4175890	0.000617	1.66E-03	0.00E+00	6.17E-04	1.66E-03	0.00E+00	1.00E-04	2.51E-04	0.00E+00	5.24E-05	9.58E-05	0.00E+00
1618	599823.4	4175894	0.000623	1.68E-03	0.00E+00	6.23E-04	1.68E-03	0.00E+00	1.01E-04	2.54E-04	0.00E+00	5.29E-05	9.68E-05	0.00E+00
1619	599832.1	4175898	0.000606	1.63E-03	0.00E+00	6.06E-04	1.63E-03	0.00E+00	9.85E-05	2.47E-04	0.00E+00	5.14E-05	9.41E-05	0.00E+00
1620	599840.8	4175902	0.000608	1.64E-03	0.00E+00	6.08E-04	1.64E-03	0.00E+00	9.89E-05	2.48E-04	0.00E+00	5.16E-05	9.45E-05	0.00E+00
1621	599849.5	4175905	0.000605	1.63E-03	0.00E+00	6.05E-04	1.63E-03	0.00E+00	9.84E-05	2.47E-04	0.00E+00	5.14E-05	9.40E-05	0.00E+00
1622	599858.2	4175909	0.000598	1.61E-03	0.00E+00	5.98E-04	1.61E-03	0.00E+00	9.73E-05	2.44E-04	0.00E+00	5.08E-05	9.29E-05	0.00E+00
1623	599866.9	4175913	0.000588	1.59E-03	0.00E+00	5.88E-04	1.59E-03	0.00E+00	9.57E-05	2.40E-04	0.00E+00	4.99E-05	9.14E-05	0.00E+00
1624	599875.6	4175917	0.000576	1.55E-03	0.00E+00	5.76E-04	1.55E-03	0.00E+00	9.37E-05	2.35E-04	0.00E+00	4.89E-05	8.95E-05	0.00E+00
1625	599888.2	4175930	0.000558	1.51E-03	0.00E+00	5.58E-04	1.51E-03	0.00E+00	9.08E-05	2.28E-04	0.00E+00	4.74E-05	8.67E-05	0.00E+00
1626	599892	4175938	0.000552	1.49E-03	0.00E+00	5.52E-04	1.49E-03	0.00E+00	8.98E-05	2.25E-04	0.00E+00	4.69E-05	8.58E-05	0.00E+00
1627	599895.8	4175947	0.000543	1.46E-03	0.00E+00	5.43E-04	1.46E-03	0.00E+00	8.83E-05	2.21E-04	0.00E+00	4.61E-05	8.43E-05	0.00E+00
1628	599899.6	4175956	0.000531	1.43E-03	0.00E+00	5.31E-04	1.43E-03	0.00E+00	8.64E-05	2.16E-04	0.00E+00	4.51E-05	8.25E-05	0.00E+00
1629	599903.4	4175964	0.000517	1.39E-03	0.00E+00	5.17E-04	1.39E-03	0.00E+00	8.41E-05	2.11E-04	0.00E+00	4.39E-05	8.03E-05	0.00E+00
1630	599907.2	4175973	0.000504	1.36E-03	0.00E+00	5.04E-04	1.36E-03	0.00E+00	8.19E-05	2.05E-04	0.00E+00	4.28E-05	7.83E-05	0.00E+00
1631	599911.1	4175982	0.000489	1.32E-03	0.00E+00	4.89E-04	1.32E-03	0.00E+00	7.95E-05	1.99E-04	0.00E+00	4.15E-05	7.59E-05	0.00E+00
1632	599719	4175847	0.000334	9.00E-04	0.00E+00	3.34E-04	9.00E-04	0.00E+00	5.43E-05	1.36E-04	0.00E+00	2.83E-05	5.19E-05	0.00E+00
1633	599709.5	4175847	0.000312	8.40E-04	0.00E+00	3.12E-04	8.40E-04	0.00E+00	5.07E-05	1.27E-04	0.00E+00	2.65E-05	4.84E-05	0.00E+00
1634	599700	4175847	0.00029	7.81E-04	0.00E+00	2.90E-04	7.81E-04	0.00E+00	4.71E-05	1.18E-04	0.00E+00	2.46E-05	4.50E-05	0.00E+00
1635	599690.5	4175846	0.00027	7.28E-04	0.00E+00	2.70E-04	7.28E-04	0.00E+00	4.39E-05	1.10E-04	0.00E+00	2.29E-05	4.20E-05	0.00E+00

1636	599681	4175846	0.000256	6.89E-04	0.00E+00	2.56E-04	6.89E-04	0.00E+00	4.16E-05	1.04E-04	0.00E+00	2.17E-05	3.97E-05	0.00E+00
1637	599671.4	4175845	0.000243	6.55E-04	0.00E+00	2.43E-04	6.55E-04	0.00E+00	3.95E-05	9.90E-05	0.00E+00	2.06E-05	3.77E-05	0.00E+00
1638	599728.1	4175841	0.000343	9.25E-04	0.00E+00	3.43E-04	9.25E-04	0.00E+00	5.58E-05	1.40E-04	0.00E+00	2.91E-05	5.33E-05	0.00E+00
1639	599736.7	4175845	0.000373	1.01E-03	0.00E+00	3.73E-04	1.01E-03	0.00E+00	6.07E-05	1.52E-04	0.00E+00	3.17E-05	5.80E-05	0.00E+00
1640	599745.3	4175849	0.000407	1.10E-03	0.00E+00	4.07E-04	1.10E-03	0.00E+00	6.62E-05	1.66E-04	0.00E+00	3.45E-05	6.32E-05	0.00E+00
1641	599753.9	4175853	0.000443	1.19E-03	0.00E+00	4.43E-04	1.19E-03	0.00E+00	7.20E-05	1.80E-04	0.00E+00	3.76E-05	6.88E-05	0.00E+00
1642	599762.5	4175857	0.000475	1.28E-03	0.00E+00	4.75E-04	1.28E-03	0.00E+00	7.74E-05	1.94E-04	0.00E+00	4.04E-05	7.39E-05	0.00E+00
1643	599771.1	4175860	0.000506	1.36E-03	0.00E+00	5.06E-04	1.36E-03	0.00E+00	8.23E-05	2.06E-04	0.00E+00	4.29E-05	7.86E-05	0.00E+00
1644	599779.7	4175864	0.000532	1.44E-03	0.00E+00	5.32E-04	1.44E-03	0.00E+00	8.66E-05	2.17E-04	0.00E+00	4.52E-05	8.27E-05	0.00E+00
1645	599788.3	4175868	0.00055	1.48E-03	0.00E+00	5.50E-04	1.48E-03	0.00E+00	8.95E-05	2.24E-04	0.00E+00	4.67E-05	8.55E-05	0.00E+00
1646	599796.9	4175872	0.000562	1.51E-03	0.00E+00	5.62E-04	1.51E-03	0.00E+00	9.14E-05	2.29E-04	0.00E+00	4.77E-05	8.73E-05	0.00E+00
1647	599805.5	4175876	0.00057	1.54E-03	0.00E+00	5.70E-04	1.54E-03	0.00E+00	9.27E-05	2.32E-04	0.00E+00	4.84E-05	8.85E-05	0.00E+00
1648	599814.1	4175879	0.000575	1.55E-03	0.00E+00	5.75E-04	1.55E-03	0.00E+00	9.36E-05	2.34E-04	0.00E+00	4.88E-05	8.94E-05	0.00E+00
1649	599822.7	4175883	0.000579	1.56E-03	0.00E+00	5.79E-04	1.56E-03	0.00E+00	9.42E-05	2.36E-04	0.00E+00	4.92E-05	8.99E-05	0.00E+00
1650	599831.3	4175887	0.000581	1.57E-03	0.00E+00	5.81E-04	1.57E-03	0.00E+00	9.45E-05	2.37E-04	0.00E+00	4.93E-05	9.02E-05	0.00E+00
1651	599839.9	4175891	0.00058	1.56E-03	0.00E+00	5.80E-04	1.56E-03	0.00E+00	9.44E-05	2.37E-04	0.00E+00	4.93E-05	9.02E-05	0.00E+00
1652	599848.5	4175895	0.000577	1.56E-03	0.00E+00	5.77E-04	1.56E-03	0.00E+00	9.39E-05	2.35E-04	0.00E+00	4.90E-05	8.97E-05	0.00E+00
1653	599857	4175899	0.000573	1.55E-03	0.00E+00	5.73E-04	1.55E-03	0.00E+00	9.33E-05	2.34E-04	0.00E+00	4.87E-05	8.91E-05	0.00E+00
1654	599865.6	4175902	0.000568	1.53E-03	0.00E+00	5.68E-04	1.53E-03	0.00E+00	9.24E-05	2.32E-04	0.00E+00	4.82E-05	8.83E-05	0.00E+00
1655	599874.2	4175906	0.00056	1.51E-03	0.00E+00	5.60E-04	1.51E-03	0.00E+00	9.11E-05	2.28E-04	0.00E+00	4.76E-05	8.70E-05	0.00E+00
1656	599882.8	4175910	0.00055	1.48E-03	0.00E+00	5.50E-04	1.48E-03	0.00E+00	8.95E-05	2.24E-04	0.00E+00	4.67E-05	8.55E-05	0.00E+00
1657	599895.2	4175922	0.000536	1.44E-03	0.00E+00	5.36E-04	1.44E-03	0.00E+00	8.72E-05	2.18E-04	0.00E+00	4.55E-05	8.33E-05	0.00E+00
1658	599899	4175931	0.00053	1.43E-03	0.00E+00	5.30E-04	1.43E-03	0.00E+00	8.63E-05	2.16E-04	0.00E+00	4.50E-05	8.24E-05	0.00E+00
1659	599902.7	4175940	0.000522	1.41E-03	0.00E+00	5.22E-04	1.41E-03	0.00E+00	8.50E-05	2.13E-04	0.00E+00	4.43E-05	8.11E-05	0.00E+00
1660	599906.5	4175948	0.000513	1.38E-03	0.00E+00	5.13E-04	1.38E-03	0.00E+00	8.35E-05	2.09E-04	0.00E+00	4.36E-05	7.98E-05	0.00E+00
1661	599910.3	4175957	0.000503	1.36E-03	0.00E+00	5.03E-04	1.36E-03	0.00E+00	8.18E-05	2.05E-04	0.00E+00	4.27E-05	7.82E-05	0.00E+00
1662	599914.1	4175965	0.000491	1.32E-03	0.00E+00	4.91E-04	1.32E-03	0.00E+00	7.98E-05	2.00E-04	0.00E+00	4.17E-05	7.63E-05	0.00E+00
1663	599719.5	4175837	0.000317	8.56E-04	0.00E+00	3.17E-04	8.56E-04	0.00E+00	5.16E-05	1.29E-04	0.00E+00	2.69E-05	4.93E-05	0.00E+00
1664	599710	4175837	0.000296	7.98E-04	0.00E+00	2.96E-04	7.98E-04	0.00E+00	4.82E-05	1.21E-04	0.00E+00	2.51E-05	4.60E-05	0.00E+00
1665	599700.5	4175837	0.000275	7.42E-04	0.00E+00	2.75E-04	7.42E-04	0.00E+00	4.48E-05	1.12E-04	0.00E+00	2.34E-05	4.28E-05	0.00E+00
1666	599691	4175836	0.000256	6.91E-04	0.00E+00	2.56E-04	6.91E-04	0.00E+00	4.17E-05	1.05E-04	0.00E+00	2.18E-05	3.98E-05	0.00E+00
1667	599681.4	4175836	0.000242	6.51E-04	0.00E+00	2.42E-04	6.51E-04	0.00E+00	3.93E-05	9.85E-05	0.00E+00	2.05E-05	3.75E-05	0.00E+00
1668	599671.9	4175835	0.000228	6.15E-04	0.00E+00	2.28E-04	6.15E-04	0.00E+00	3.71E-05	9.30E-05	0.00E+00	1.94E-05	3.54E-05	0.00E+00
1669	599728.5	4175831	0.000322	8.67E-04	0.00E+00	3.22E-04	8.67E-04	0.00E+00	5.23E-05	1.31E-04	0.00E+00	2.73E-05	5.00E-05	0.00E+00
1670	599737	4175835	0.000351	9.45E-04	0.00E+00	3.51E-04	9.45E-04	0.00E+00	5.70E-05	1.43E-04	0.00E+00	2.98E-05	5.45E-05	0.00E+00
1671	599745.5	4175839	0.000378	1.02E-03	0.00E+00	3.78E-04	1.02E-03	0.00E+00	6.15E-05	1.54E-04	0.00E+00	3.21E-05	5.87E-05	0.00E+00
1672	599754	4175843	0.000408	1.10E-03	0.00E+00	4.08E-04	1.10E-03	0.00E+00	6.63E-05	1.66E-04	0.00E+00	3.46E-05	6.33E-05	0.00E+00
1673	599762.5	4175846	0.000439	1.18E-03	0.00E+00	4.39E-04	1.18E-03	0.00E+00	7.15E-05	1.79E-04	0.00E+00	3.73E-05	6.83E-05	0.00E+00
1674	599771	4175850	0.000469	1.27E-03	0.00E+00	4.69E-04	1.27E-03	0.00E+00	7.63E-05	1.91E-04	0.00E+00	3.98E-05	7.29E-05	0.00E+00
1675	599779.5	4175854	0.000497	1.34E-03	0.00E+00	4.97E-04	1.34E-03	0.00E+00	8.08E-05	2.02E-04	0.00E+00	4.22E-05	7.72E-05	0.00E+00
1676	599788	4175858	0.000518	1.40E-03	0.00E+00	5.18E-04	1.40E-03	0.00E+00	8.42E-05	2.11E-04	0.00E+00	4.39E-05	8.04E-05	0.00E+00
1677	599796.5	4175861	0.000531	1.43E-03	0.00E+00	5.31E-04	1.43E-03	0.00E+00	8.64E-05	2.17E-04	0.00E+00	4.51E-05	8.26E-05	0.00E+00
1678	599805	4175865	0.000541	1.46E-03	0.00E+00	5.41E-04	1.46E-03	0.00E+00	8.80E-05	2.21E-04	0.00E+00	4.59E-05	8.41E-05	0.00E+00
1679	599813.5	4175869	0.000548	1.48E-03	0.00E+00	5.48E-04	1.48E-03	0.00E+00	8.91E-05	2.23E-04	0.00E+00	4.65E-05	8.51E-05	0.00E+00
1680	599822	4175873	0.000553	1.49E-03	0.00E+00	5.53E-04	1.49E-03	0.00E+00	8.99E-05	2.25E-04	0.00E+00	4.69E-05	8.59E-05	0.00E+00
1681	599830.5	4175877	0.000556	1.50E-03	0.00E+00	5.56E-04	1.50E-03	0.00E+00	9.04E-05	2.27E-04	0.00E+00	4.72E-05	8.64E-05	0.00E+00
1682	599839	4175880	0.000557	1.50E-03	0.00E+00	5.57E-04	1.50E-03	0.00E+00	9.07E-05	2.27E-04	0.00E+00	4.73E-05	8.66E-05	0.00E+00
1683	599847.5	4175884	0.000557	1.50E-03	0.00E+00	5.57E-04	1.50E-03	0.00E+00	9.06E-05	2.27E-04	0.00E+00	4.73E-05	8.65E-05	0.00E+00
1684	599856	4175888	0.000554	1.49E-03	0.00E+00	5.54E-04	1.49E-03	0.00E+00	9.01E-05	2.26E-04	0.00E+00	4.70E-05	8.61E-05	0.00E+00
1685	599864.5	4175892	0.000549	1.48E-03	0.00E+00	5.49E-04	1.48E-03	0.00E+00	8.92E-05	2.24E-04	0.00E+00	4.66E-05	8.52E-05	0.00E+00
1686	599873	4175895	0.000541	1.46E-03	0.00E+00	5.41E-04	1.46E-03	0.00E+00	8.80E-05	2.21E-04	0.00E+00	4.60E-05	8.41E-05	0.00E+00
1687	599881.5	4175899	0.000536	1.45E-03	0.00E+00	5.36E-04	1.45E-03	0.00E+00	8.72E-05	2.19E-04	0.00E+00	4.55E-05	8.33E-05	0.00E+00
1688	599890	4175903	0.000528	1.42E-03	0.00E+00	5.28E-04	1.42E-03	0.00E+00	8.60E-05	2.15E-04	0.00E+00	4.49E-05	8.21E-05	0.00E+00
1689	599902.2	4175915	0.000516	1.39E-03	0.00E+00	5.16E-04	1.39E-03	0.00E+00	8.40E-05	2.10E-04	0.00E+00	4.38E-05	8.02E-05	0.00E+00
1690	599906	4175924	0.000513	1.38E-03	0.00E+00	5.13E-04	1.38E-03	0.00E+00	8.34E-05	2.09E-04	0.00E+00	4.36E-05	7.97E-05	0.00E+00
1691	599909.7	4175932	0.000508	1.37E-03	0.00E+00	5.08E-04	1.37E-03	0.00E+00	8.26E-05	2.07E-04	0.00E+00	4.31E-05	7.89E-05	0.00E+00
1692	599913.4	4175941	0.0005	1.35E-03	0.00E+00	5.00E-04	1.35E-03	0.00E+00	8.14E-05	2.04E-04	0.00E+00	4.25E-05	7.77E-05	0.00E+00
1693	599917.2	4175949	0.000491	1.32E-03	0.00E+00	4.91E-04	1.32E-03	0.00E+00	7.98E-05	2.00E-04	0.00E+00	4.17E-05	7.62E-05	0.00E+00
1694	599720	4175827	0.000294	7.92E-04	0.00E+00	2.94E-04	7.92E-04	0.00E+00	4.78E-05	1.20E-04	0.00E+00	2.49E-05	4.56E-05	0.00E+00
1695	599710.5	4175827	0.000274	7.38E-04	0.00E+00	2.74E-04	7.38E-04	0.00E+00	4.45E-05	1.12E-04	0.00E+00	2.32E-05	4.25E-05	0.00E+00
1696	599701	4175827	0.000255	6.87E-04	0.00E+00	2.55E-04	6.87E-04	0.00E+00	4.14E-05	1.04E-04	0.00E+00	2.16E-05	3.96E-05	0.00E+00
1697	599691.4	4175826	0.000237	6.40E-04	0.00E+00	2.37E-04	6.40E-04	0.00E+00	3.86E-05	9.68E-05	0.00E+00	2.02E-05	3.69E-05	0.00E+00
1698	599681.9	4175826	0.000224	6.04E-04	0.00E+00	2.24E-04	6.04E-04	0.00E+00	3.64E-05	9.13E-05	0.00E+00	1.90E-05	3.48E-05	0.00E+00
1699	599672.4	4175825	0.000212	5.72E-04	0.00E+00	2.12E-04	5.72E-04	0.00E+00	3.45E-05	8.65E-05	0.00E+00	1.80E-05	3.30E-05	0.00E+00
1700	599728.9	4175821	0.000297	8.01E-04	0.00E+00	2.97E-04	8.01E-04	0.00E+00	4.84E-05	1.21E-04	0.00E+00	2.52E-05	4.62E-05	0.00E+00
1701	599737.3	4175825	0.000324	8.73E-04	0.00E+00	3.24E-04	8.73E-04	0.00E+00	5.27E-05	1.32E-04	0.00E+00	2.75E-05	5.03E-05	0.00E+00
1702	599745.7	4175829	0.000351	9.47E-04	0.00E+00	3.51E-04	9.47E-04	0.00E+00	5.71E-05	1.43E-04	0.00E+00	2.98E-05	5.46E-05	0.00E+00
1703	599754.1	4175832	0.000378	1.02E-03	0.00E+00	3.78E-04	1.02E-03	0.00E+00	6.15E-05	1.54E-04	0.00E+00	3.21E-05	5.88E-05	0.00E+00
1704	599762.6	4175836	0.000408	1.10E-03	0.00E+00	4.08E-04	1.10E-03	0.00E+00	6.64E-05	1.66E-04	0.00E+00	3.47E-05	6.34E-05	0.00E+00
1705	599771	4175840	0.000437	1.18E-03	0.00E+00	4.37E-04	1.18E-03	0.00E+00	7.11E-05	1.78E-04	0.00E+00	3.71E-05	6.79E-05	0.00E+00
1706	599779.4	4175844	0.000465	1.25E-03	0.00E+00	4.65E-04	1.25E-03	0.00E+00	7.56E-05	1.89E-04	0.00E+00	3.94E-05	7.22E-05	0.00E+00
1707	599787.8	4175847	0.000487	1.31E-03	0.00E+00	4.87E-04	1.31E-03	0.00E+00	7.92E-05	1.98E-04	0.00E+00	4.13E-05	7.56E-05	0.00E+00
1708	599796.2	4175851	0.000503	1.36E-03	0.00E+00	5.03E-04	1.36E-03	0.00E+00	8.18E-05	2.05E-04	0.00E+00	4.27E-05	7.81E-05	0.00E+00
1709	599804.6	4175855	0.000515	1.39E-03	0.00E+00	5.15E-04	1.39E-03	0.00E+00	8.38E-05	2.10E-04	0.00E+00	4.37E-05	8.00E-05	0.00E+00
1710	599813	4175859	0.000523	1.41E-03	0.00E+00	5.23E-04	1.41E-03	0.00E+00	8.52E-05	2.13E-04	0.00E+00	4.44E-05	8.13E-05	0.00E+00
1711	599821.5	4175862	0.000528	1.42E-03	0.00E+00	5.28E-04	1.42E-03	0.00E+00	8.60E-05	2.15E-04	0.00E+00	4.49E-05	8.21E-05	0.00E+00
1712	599829.9	4175866	0.00053	1.43E-03	0.00E+00	5.30E-04	1.43E-03	0.00E+00	8.62E-05	2.16E-04	0.00E+00	4.50E-05	8.24E-05	0.00E+00
1713	599838.3	4175870	0.000533	1.44E-03	0.00E+00	5.33E-04	1.44E-03	0.00E+00	8.67E-05	2.17E-04	0.00E+00	4.52E-05	8.28E-05	0.00E+00
1714	599846.7	4175874	0.000534	1.44E-03	0.00E+00	5.34E-04	1.44E-03	0.00E+00	8.69E-05	2.18E-04	0.00E+00	4.54E-05	8.30E-05	0.00E+00
1715	599855.1	4175877	0.000534	1.44E-03	0.00E+00	5.34E-04	1.44E-03	0.00E+00	8.69E-05	2.18E-04	0.00E+00	4.54E-05	8.30E-05	0.00E+00
1716	599863.5	4175881	0.000532	1.43E-03	0.00E+00	5.32E-04	1.43E-03	0.00E+00	8.66E-05	2.17E-04	0.00E+00	4.52E-05	8.27E-05	0.00E+00
1717	599872	4175885	0.000528	1.42E-03	0.00E+00	5.28E-04	1.42E-03	0.00E+00	8.58E-05	2.15E-04	0.00E+00	4.48E-05	8.20E-05	0.00E+00
1718	599880.4	4175888	0.000524	1.41E-03	0.00E+00	5.24E-04	1.41E-03	0.00E+00	8.52E-05	2.13E-04	0.00E+00	4.45E-05	8.13E-05	0.00E+00
1719	599888.8	4175892	0.000518	1.40E-03	0.00E+00	5.18E-04	1.40E-03	0.00E+00	8.42E-05	2.11E-04	0.00E+00	4.40E-05	8.05E-05	0.00E+00
1720	599897.2	4175896	0.00051	1.38E-03	0.00E+00	5.10E-04	1.38E-03	0.00E+00	8.30E-05	2.08E-04	0.00E+00	4.33E-05	7.93E-05	0.00E+00
1721	599909.3	4175908	0.000502	1.35E-03	0.00E+00	5.02E-04	1.35E-03	0.00E+00	8.17E-05	2.05E-04	0.00E+00	4.27E-05	7.81E-05	0.00E+00
1722	599913	4175917	0.0005	1.35E-03	0.00E+00	5.00E-04	1.35E-03	0.00E+00	8.14E-05	2.04E-04	0.00E+00	4.25E-05	7.77E-05	0.00E+00
1723	599916.7	4175925	0.000496	1.34E-03	0.00E+00	4.96E-04	1.34E-03	0.00E+00	8.07E-05	2.02E-04	0.00E+00	4.21E-05	7.71E-05	0.00E+00
1724	599920.4	4175933	0.000489	1.32E-03	0.00E+00	4.89E-04	1.32E-03	0.00E+00	7.95E-05	1.99E-04	0.00E+00	4.15E-05	7.60E-05	0.00E+00
1725	599720.5	4175817	0.000272	7.34E-04	0.00E+00	2.72E-04	7.34E-04	0.00E+00	4.43E-05	1.11E-04	0.00E+00	2.31E-05	4.23E-05	0.00E+00
1726	599711	4175817	0.000255	6.87E-04	0.00E+00	2.55E-04	6.87E-04	0.00E+00	4.14E-05	1.04E-04	0.00E+00	2.16E-05	3.96E-05	0.00E+00

1727	599701.4	4175817	0.000238	6.42E-04	0.00E+00		2.38E-04	6.42E-04	0.00E+00		3.87E-05	9.71E-05	0.00E+00		2.02E-05	3.70E-05	0.00E+00
1728	599691.9	4175816	0.000223	6.02E-04	0.00E+00		2.23E-04	6.02E-04	0.00E+00		3.63E-05	9.10E-05	0.00E+00		1.90E-05	3.47E-05	0.00E+00
1729	599682.4	4175816	0.000211	5.69E-04	0.00E+00		2.11E-04	5.69E-04	0.00E+00		3.43E-05	8.61E-05	0.00E+00		1.79E-05	3.28E-05	0.00E+00
1730	599672.9	4175815	0.000201	5.41E-04	0.00E+00		2.01E-04	5.41E-04	0.00E+00		3.27E-05	8.18E-05	0.00E+00		1.70E-05	3.12E-05	0.00E+00
1731	599729.3	4175811	0.000278	7.50E-04	0.00E+00		2.78E-04	7.50E-04	0.00E+00		4.53E-05	1.13E-04	0.00E+00		2.36E-05	4.32E-05	0.00E+00
1732	599737.6	4175815	0.000303	8.16E-04	0.00E+00		3.03E-04	8.16E-04	0.00E+00		4.93E-05	1.23E-04	0.00E+00		2.57E-05	4.71E-05	0.00E+00
1733	599746	4175819	0.000328	8.85E-04	0.00E+00		3.28E-04	8.85E-04	0.00E+00		5.34E-05	1.34E-04	0.00E+00		2.79E-05	5.10E-05	0.00E+00
1734	599754.3	4175822	0.000354	9.53E-04	0.00E+00		3.54E-04	9.53E-04	0.00E+00		5.75E-05	1.44E-04	0.00E+00		3.00E-05	5.50E-05	0.00E+00
1735	599762.6	4175826	0.00038	1.02E-03	0.00E+00		3.80E-04	1.02E-03	0.00E+00		6.18E-05	1.55E-04	0.00E+00		3.23E-05	5.91E-05	0.00E+00
1736	599771	4175830	0.000407	1.10E-03	0.00E+00		4.07E-04	1.10E-03	0.00E+00		6.63E-05	1.66E-04	0.00E+00		3.46E-05	6.33E-05	0.00E+00
1737	599779.3	4175833	0.000435	1.17E-03	0.00E+00		4.35E-04	1.17E-03	0.00E+00		7.07E-05	1.77E-04	0.00E+00		3.69E-05	6.76E-05	0.00E+00
1738	599787.7	4175837	0.000459	1.24E-03	0.00E+00		4.59E-04	1.24E-03	0.00E+00		7.47E-05	1.87E-04	0.00E+00		3.90E-05	7.13E-05	0.00E+00
1739	599796	4175841	0.000477	1.28E-03	0.00E+00		4.77E-04	1.28E-03	0.00E+00		7.75E-05	1.94E-04	0.00E+00		4.05E-05	7.40E-05	0.00E+00
1740	599804.3	4175845	0.000491	1.32E-03	0.00E+00		4.91E-04	1.32E-03	0.00E+00		7.99E-05	2.00E-04	0.00E+00		4.17E-05	7.63E-05	0.00E+00
1741	599812.7	4175848	0.000502	1.35E-03	0.00E+00		5.02E-04	1.35E-03	0.00E+00		8.16E-05	2.05E-04	0.00E+00		4.26E-05	7.80E-05	0.00E+00
1742	599821	4175852	0.000509	1.37E-03	0.00E+00		5.09E-04	1.37E-03	0.00E+00		8.28E-05	2.08E-04	0.00E+00		4.32E-05	7.91E-05	0.00E+00
1743	599829.3	4175856	0.000513	1.38E-03	0.00E+00		5.13E-04	1.38E-03	0.00E+00		8.35E-05	2.09E-04	0.00E+00		4.36E-05	7.97E-05	0.00E+00
1744	599837.7	4175859	0.000514	1.39E-03	0.00E+00		5.14E-04	1.39E-03	0.00E+00		8.37E-05	2.10E-04	0.00E+00		4.37E-05	7.99E-05	0.00E+00
1745	599846	4175863	0.000513	1.38E-03	0.00E+00		5.13E-04	1.38E-03	0.00E+00		8.35E-05	2.09E-04	0.00E+00		4.36E-05	7.98E-05	0.00E+00
1746	599854.3	4175867	0.000513	1.38E-03	0.00E+00		5.13E-04	1.38E-03	0.00E+00		8.34E-05	2.09E-04	0.00E+00		4.35E-05	7.97E-05	0.00E+00
1747	599862.7	4175870	0.000513	1.38E-03	0.00E+00		5.13E-04	1.38E-03	0.00E+00		8.35E-05	2.09E-04	0.00E+00		4.36E-05	7.98E-05	0.00E+00
1748	599871	4175874	0.000512	1.38E-03	0.00E+00		5.12E-04	1.38E-03	0.00E+00		8.32E-05	2.09E-04	0.00E+00		4.34E-05	7.95E-05	0.00E+00
1749	599879.4	4175878	0.00051	1.38E-03	0.00E+00		5.10E-04	1.38E-03	0.00E+00		8.30E-05	2.08E-04	0.00E+00		4.33E-05	7.93E-05	0.00E+00
1750	599887.7	4175882	0.000508	1.37E-03	0.00E+00		5.08E-04	1.37E-03	0.00E+00		8.27E-05	2.07E-04	0.00E+00		4.31E-05	7.90E-05	0.00E+00
1751	599896	4175885	0.000504	1.36E-03	0.00E+00		5.04E-04	1.36E-03	0.00E+00		8.19E-05	2.05E-04	0.00E+00		4.28E-05	7.83E-05	0.00E+00
1752	599904.4	4175889	0.000497	1.34E-03	0.00E+00		4.97E-04	1.34E-03	0.00E+00		8.09E-05	2.03E-04	0.00E+00		4.22E-05	7.73E-05	0.00E+00
1753	599916.4	4175901	0.000491	1.32E-03	0.00E+00		4.91E-04	1.32E-03	0.00E+00		7.98E-05	2.00E-04	0.00E+00		4.17E-05	7.62E-05	0.00E+00
1754	599920	4175909	0.000489	1.32E-03	0.00E+00		4.89E-04	1.32E-03	0.00E+00		7.95E-05	1.99E-04	0.00E+00		4.15E-05	7.59E-05	0.00E+00
1755	599923.7	4175918	0.000485	1.31E-03	0.00E+00		4.85E-04	1.31E-03	0.00E+00		7.89E-05	1.98E-04	0.00E+00		4.12E-05	7.54E-05	0.00E+00
1756	599927.3	4175926	0.000479	1.29E-03	0.00E+00		4.79E-04	1.29E-03	0.00E+00		7.80E-05	1.95E-04	0.00E+00		4.07E-05	7.45E-05	0.00E+00
1757	599721	4175807	0.000256	6.89E-04	0.00E+00		2.56E-04	6.89E-04	0.00E+00		4.16E-05	1.04E-04	0.00E+00		2.17E-05	3.97E-05	0.00E+00
1758	599711.4	4175807	0.00024	6.48E-04	0.00E+00		2.40E-04	6.48E-04	0.00E+00		3.91E-05	9.80E-05	0.00E+00		2.04E-05	3.73E-05	0.00E+00
1759	599701.9	4175807	0.000226	6.10E-04	0.00E+00		2.26E-04	6.10E-04	0.00E+00		3.68E-05	9.22E-05	0.00E+00		1.92E-05	3.52E-05	0.00E+00
1760	599692.4	4175806	0.000213	5.75E-04	0.00E+00		2.13E-04	5.75E-04	0.00E+00		3.47E-05	8.70E-05	0.00E+00		1.81E-05	3.32E-05	0.00E+00
1761	599682.9	4175806	0.000202	5.44E-04	0.00E+00		2.02E-04	5.44E-04	0.00E+00		3.28E-05	8.23E-05	0.00E+00		1.71E-05	3.14E-05	0.00E+00
1762	599673.3	4175805	0.000192	5.17E-04	0.00E+00		1.92E-04	5.17E-04	0.00E+00		3.12E-05	7.81E-05	0.00E+00		1.63E-05	2.98E-05	0.00E+00
1763	599730.1	4175801	0.000258	6.96E-04	0.00E+00		2.58E-04	6.96E-04	0.00E+00		4.20E-05	1.05E-04	0.00E+00		2.19E-05	4.01E-05	0.00E+00
1764	599738.7	4175805	0.000288	7.76E-04	0.00E+00		2.88E-04	7.76E-04	0.00E+00		4.68E-05	1.17E-04	0.00E+00		2.44E-05	4.47E-05	0.00E+00
1765	599747.3	4175809	0.000314	8.46E-04	0.00E+00		3.14E-04	8.46E-04	0.00E+00		5.10E-05	1.28E-04	0.00E+00		2.66E-05	4.87E-05	0.00E+00
1766	599755.9	4175813	0.000338	9.12E-04	0.00E+00		3.38E-04	9.12E-04	0.00E+00		5.50E-05	1.38E-04	0.00E+00		2.87E-05	5.25E-05	0.00E+00
1767	599764.6	4175817	0.000362	9.76E-04	0.00E+00		3.62E-04	9.76E-04	0.00E+00		5.89E-05	1.48E-04	0.00E+00		3.07E-05	5.62E-05	0.00E+00
1768	599773.2	4175820	0.000387	1.04E-03	0.00E+00		3.87E-04	1.04E-03	0.00E+00		6.30E-05	1.58E-04	0.00E+00		3.29E-05	6.01E-05	0.00E+00
1769	599781.8	4175824	0.000413	1.11E-03	0.00E+00		4.13E-04	1.11E-03	0.00E+00		6.72E-05	1.68E-04	0.00E+00		3.51E-05	6.42E-05	0.00E+00
1770	599790.4	4175828	0.000436	1.18E-03	0.00E+00		4.36E-04	1.18E-03	0.00E+00		7.10E-05	1.78E-04	0.00E+00		3.70E-05	6.78E-05	0.00E+00
1771	599799.1	4175832	0.000457	1.23E-03	0.00E+00		4.57E-04	1.23E-03	0.00E+00		7.44E-05	1.86E-04	0.00E+00		3.88E-05	7.10E-05	0.00E+00
1772	599807.7	4175836	0.000475	1.28E-03	0.00E+00		4.75E-04	1.28E-03	0.00E+00		7.73E-05	1.94E-04	0.00E+00		4.04E-05	7.39E-05	0.00E+00
1773	599816.3	4175840	0.000487	1.31E-03	0.00E+00		4.87E-04	1.31E-03	0.00E+00		7.93E-05	1.99E-04	0.00E+00		4.14E-05	7.57E-05	0.00E+00
1774	599824.9	4175843	0.000496	1.34E-03	0.00E+00		4.96E-04	1.34E-03	0.00E+00		8.06E-05	2.02E-04	0.00E+00		4.21E-05	7.70E-05	0.00E+00
1775	599833.6	4175847	0.0005	1.35E-03	0.00E+00		5.00E-04	1.35E-03	0.00E+00		8.14E-05	2.04E-04	0.00E+00		4.25E-05	7.77E-05	0.00E+00
1776	599842.2	4175851	0.000502	1.35E-03	0.00E+00		5.02E-04	1.35E-03	0.00E+00		8.17E-05	2.05E-04	0.00E+00		4.26E-05	7.80E-05	0.00E+00
1777	599850.8	4175855	0.000501	1.35E-03	0.00E+00		5.01E-04	1.35E-03	0.00E+00		8.16E-05	2.04E-04	0.00E+00		4.26E-05	7.79E-05	0.00E+00
1778	599859.4	4175859	0.0005	1.35E-03	0.00E+00		5.00E-04	1.35E-03	0.00E+00		8.13E-05	2.04E-04	0.00E+00		4.24E-05	7.76E-05	0.00E+00
1779	599868	4175863	0.000497	1.34E-03	0.00E+00		4.97E-04	1.34E-03	0.00E+00		8.08E-05	2.02E-04	0.00E+00		4.22E-05	7.72E-05	0.00E+00
1780	599876.7	4175866	0.000495	1.33E-03	0.00E+00		4.95E-04	1.33E-03	0.00E+00		8.05E-05	2.02E-04	0.00E+00		4.20E-05	7.69E-05	0.00E+00
1781	599885.3	4175870	0.000496	1.34E-03	0.00E+00		4.96E-04	1.34E-03	0.00E+00		8.07E-05	2.02E-04	0.00E+00		4.21E-05	7.71E-05	0.00E+00
1782	599893.9	4175874	0.000495	1.33E-03	0.00E+00		4.95E-04	1.33E-03	0.00E+00		8.05E-05	2.02E-04	0.00E+00		4.20E-05	7.69E-05	0.00E+00
1783	599902.5	4175878	0.000492	1.33E-03	0.00E+00		4.92E-04	1.33E-03	0.00E+00		8.00E-05	2.00E-04	0.00E+00		4.17E-05	7.64E-05	0.00E+00
1784	599911.2	4175882	0.000487	1.31E-03	0.00E+00		4.87E-04	1.31E-03	0.00E+00		7.93E-05	1.99E-04	0.00E+00		4.14E-05	7.57E-05	0.00E+00
1785	599923.6	4175894	0.000481	1.30E-03	0.00E+00		4.81E-04	1.30E-03	0.00E+00		7.82E-05	1.96E-04	0.00E+00		4.08E-05	7.47E-05	0.00E+00
1786	599927.4	4175903	0.000479	1.29E-03	0.00E+00		4.79E-04	1.29E-03	0.00E+00		7.79E-05	1.95E-04	0.00E+00		4.06E-05	7.44E-05	0.00E+00
1787	599931.1	4175912	0.000475	1.28E-03	0.00E+00		4.75E-04	1.28E-03	0.00E+00		7.72E-05	1.94E-04	0.00E+00		4.03E-05	7.38E-05	0.00E+00
1788	599721.4	4175797	0.000231	6.22E-04	0.00E+00		2.31E-04	6.22E-04	0.00E+00		3.75E-05	9.41E-05	0.00E+00		1.96E-05	3.59E-05	0.00E+00
1789	599711.9	4175797	0.000216	5.81E-04	0.00E+00		2.16E-04	5.81E-04	0.00E+00		3.51E-05	8.79E-05	0.00E+00		1.83E-05	3.35E-05	0.00E+00
1790	599702.4	4175797	0.000202	5.44E-04	0.00E+00		2.02E-04	5.44E-04	0.00E+00		3.28E-05	8.23E-05	0.00E+00		1.71E-05	3.14E-05	0.00E+00
1791	599692.9	4175796	0.000189	5.10E-04	0.00E+00		1.89E-04	5.10E-04	0.00E+00		3.08E-05	7.72E-05	0.00E+00		1.61E-05	2.94E-05	0.00E+00
1792	599683.4	4175796	0.000178	4.81E-04	0.00E+00		1.78E-04	4.81E-04	0.00E+00		2.90E-05	7.27E-05	0.00E+00		1.51E-05	2.77E-05	0.00E+00
1793	599673.8	4175795	0.000169	4.56E-04	0.00E+00		1.69E-04	4.56E-04	0.00E+00		2.75E-05	6.90E-05	0.00E+00		1.44E-05	2.63E-05	0.00E+00
1794	599730.5	4175791	0.000234	6.31E-04	0.00E+00		2.34E-04	6.31E-04	0.00E+00		3.80E-05	9.53E-05	0.00E+00		1.99E-05	3.63E-05	0.00E+00
1795	599739	4175795	0.000263	7.08E-04	0.00E+00		2.63E-04	7.08E-04	0.00E+00		4.27E-05	1.07E-04	0.00E+00		2.23E-05	4.08E-05	0.00E+00
1796	599747.5	4175799	0.000292	7.87E-04	0.00E+00		2.92E-04	7.87E-04	0.00E+00		4.75E-05	1.19E-04	0.00E+00		2.48E-05	4.54E-05	0.00E+00
1797	599756.1	4175803	0.000319	8.61E-04	0.00E+00		3.19E-04	8.61E-04	0.00E+00		5.19E-05	1.30E-04	0.00E+00		2.71E-05	4.96E-05	0.00E+00
1798	599764.6	4175806	0.000342	9.23E-04	0.00E+00		3.42E-04	9.23E-04	0.00E+00		5.57E-05	1.40E-04	0.00E+00		2.91E-05	5.32E-05	0.00E+00
1799	599773.2	4175810	0.000364	9.80E-04	0.00E+00		3.64E-04	9.80E-04	0.00E+00		5.92E-05	1.48E-04	0.00E+00		3.09E-05	5.65E-05	0.00E+00
1800	599781.7	4175814	0.000386	1.04E-03	0.00E+00		3.86E-04	1.04E-03	0.00E+00		6.28E-05	1.57E-04	0.00E+00		3.28E-05	6.00E-05	0.00E+00
1801	599790.2	4175818	0.000408	1.10E-03	0.00E+00		4.08E-04	1.10E-03	0.00E+00		6.64E-05	1.66E-04	0.00E+00		3.47E-05	6.34E-05	0.00E+00
1802	599798.8	4175822	0.000429	1.16E-03	0.00E+00		4.29E-04	1.16E-03	0.00E+00		6.97E-05	1.75E-04	0.00E+00		3.64E-05	6.66E-05	0.00E+00
1803	599807.3	4175825	0.000448	1.21E-03	0.00E+00		4.48E-04	1.21E-03	0.00E+00		7.28E-05	1.82E-04	0.00E+00		3.80E-05	6.95E-05	0.00E+00
1804	599815.9	4175829	0.000464	1.25E-03	0.00E+00		4.64E-04	1.25E-03	0.00E+00		7.54E-05	1.89E-04	0.00E+00		3.94E-05	7.21E-05	0.00E+00
1805	599824.4	4175833	0.000478	1.29E-03	0.00E+00		4.78E-04	1.29E-03	0.00E+00		7.77E-05	1.95E-04	0.00E+00		4.06E-05	7.42E-05	0.00E+00
1806	599832.9	4175837	0.000488	1.32E-03	0.00E+00		4.88E-04	1.32E-03	0.00E+00		7.95E-05	1.99E-04	0.00E+00		4.15E-05	7.59E-05	0.00E+00
1807	599841.5	4175841	0.000492	1.33E-03	0.00E+00		4.92E-04	1.33E-03	0.00E+00		8.01E-05	2.01E-04	0.00E+00		4.18E-05	7.65E-05	0.00E+00
1808	599850	4175844	0.000492	1.33E-03	0.00E+00		4.92E-04	1.33E-03	0.00E+00		8.00E-05	2.01E-04	0.00E+00		4.18E-05	7.64E-05	0.00E+00
1809	599858.6	4175848	0.00049	1.32E-03	0.00E+00		4.90E-04	1.32E-03	0.00E+00		7.98E-05	2.00E-04	0.00E+00		4.16E-05	7.62E-05	0.00E+00
1810	599867.1	4175852	0.000488	1.31E-03	0.00E+00		4.88E-04	1.31E-03	0.00E+00		7.93E-05	1.99E-04	0.00E+00		4.14E-05	7.58E-05	0.00E+00
1811	599875.6	4175856	0.000485	1.31E-03	0.00E+00		4.85E-04	1.31E-03	0.00E+00		7.90E-05	1.98E-04	0.00E+00		4.12E-05	7.54E-05	0.00E+00
1812	599884.2	4175860	0.000486	1.31E-03	0.00E+00		4.86E-04	1.31E-03	0.00E+00		7.90E-05	1.98E-04	0.00E+00		4.13E-05	7.55E-05	0.00E+00
1813	599892.7	4175863	0.000485	1.31E-03	0.00E+00		4.85E-04	1.31E-03	0.00E+00		7.89E-05	1.98E-04	0.00E+00		4.12E-05	7.54E-05	0.00E+00
1814	599901.3	4175867	0.000484	1.30E-03	0.00E+00		4.84E-04	1.30E-03	0.00E+00		7.87E-05	1.97E-04	0.00E+00		4.11E-05	7.52E-05	0.00E+00
1815	599909.8	4175871	0.000482	1.30E-03	0.00E+00		4.82E-04	1.30E-03	0.00E+00		7.83E-05	1.96E-04	0.00E+00		4.09E-05	7.48E-05	0.00E+00
1816	599918.3	4175875	0.000478	1.29E-03	0.00E+00		4.78E-04	1.29E-03	0.00E+00		7.78E-05	1.95E-04	0.00E+00		4.06E-05	7.43E-05	0.00E+00
1817	599930.6	4175887	0.000473	1.27E-03	0.00E+00		4.73E-04	1.27E-03	0.00E+00		7.69E-05	1.93E-04	0.00E+00		4.01E-05	7.34E-05	0.00E+00

1818	599934.4	4175896	0.00047	1.27E-03	0.00E+00	4.70E-04	1.27E-03	0.00E+00	7.65E-05	1.92E-04	0.00E+00	3.99E-05	7.31E-05	0.00E+00
1819	599721.9	4175788	0.000208	5.60E-04	0.00E+00	2.08E-04	5.60E-04	0.00E+00	3.38E-05	8.46E-05	0.00E+00	1.76E-05	3.23E-05	0.00E+00
1820	599712.4	4175787	0.000193	5.22E-04	0.00E+00	1.93E-04	5.22E-04	0.00E+00	3.15E-05	7.89E-05	0.00E+00	1.64E-05	3.01E-05	0.00E+00
1821	599702.9	4175787	0.000181	4.87E-04	0.00E+00	1.81E-04	4.87E-04	0.00E+00	2.94E-05	7.36E-05	0.00E+00	1.53E-05	2.81E-05	0.00E+00
1822	599693.4	4175786	0.000169	4.55E-04	0.00E+00	1.69E-04	4.55E-04	0.00E+00	2.75E-05	6.89E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
1823	599683.8	4175786	0.000159	4.28E-04	0.00E+00	1.59E-04	4.28E-04	0.00E+00	2.59E-05	6.48E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
1824	599731.3	4175771	0.000195	5.27E-04	0.00E+00	1.95E-04	5.27E-04	0.00E+00	3.18E-05	7.97E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
1825	599739.7	4175775	0.000224	6.03E-04	0.00E+00	2.24E-04	6.03E-04	0.00E+00	3.64E-05	9.12E-05	0.00E+00	1.90E-05	3.47E-05	0.00E+00
1826	599748.1	4175779	0.000253	6.83E-04	0.00E+00	2.53E-04	6.83E-04	0.00E+00	4.12E-05	1.03E-04	0.00E+00	2.15E-05	3.94E-05	0.00E+00
1827	599756.4	4175782	0.000279	7.52E-04	0.00E+00	2.79E-04	7.52E-04	0.00E+00	4.54E-05	1.14E-04	0.00E+00	2.37E-05	4.33E-05	0.00E+00
1828	599764.8	4175786	0.000297	8.01E-04	0.00E+00	2.97E-04	8.01E-04	0.00E+00	4.83E-05	1.21E-04	0.00E+00	2.52E-05	4.61E-05	0.00E+00
1829	599773.2	4175790	0.000316	8.53E-04	0.00E+00	3.16E-04	8.53E-04	0.00E+00	5.15E-05	1.29E-04	0.00E+00	2.69E-05	4.92E-05	0.00E+00
1830	599781.6	4175794	0.000337	9.07E-04	0.00E+00	3.37E-04	9.07E-04	0.00E+00	5.48E-05	1.37E-04	0.00E+00	2.86E-05	5.23E-05	0.00E+00
1831	599790	4175797	0.000357	9.64E-04	0.00E+00	3.57E-04	9.64E-04	0.00E+00	5.81E-05	1.46E-04	0.00E+00	3.03E-05	5.55E-05	0.00E+00
1832	599798.4	4175801	0.000378	1.02E-03	0.00E+00	3.78E-04	1.02E-03	0.00E+00	6.15E-05	1.54E-04	0.00E+00	3.21E-05	5.87E-05	0.00E+00
1833	599806.8	4175805	0.000398	1.07E-03	0.00E+00	3.98E-04	1.07E-03	0.00E+00	6.47E-05	1.62E-04	0.00E+00	3.38E-05	6.18E-05	0.00E+00
1834	599815.2	4175809	0.000415	1.12E-03	0.00E+00	4.15E-04	1.12E-03	0.00E+00	6.75E-05	1.69E-04	0.00E+00	3.52E-05	6.44E-05	0.00E+00
1835	599823.6	4175812	0.000427	1.15E-03	0.00E+00	4.27E-04	1.15E-03	0.00E+00	6.94E-05	1.74E-04	0.00E+00	3.62E-05	6.63E-05	0.00E+00
1836	599832	4175816	0.000438	1.18E-03	0.00E+00	4.38E-04	1.18E-03	0.00E+00	7.13E-05	1.79E-04	0.00E+00	3.72E-05	6.81E-05	0.00E+00
1837	599840.4	4175820	0.000449	1.21E-03	0.00E+00	4.49E-04	1.21E-03	0.00E+00	7.30E-05	1.83E-04	0.00E+00	3.81E-05	6.97E-05	0.00E+00
1838	599848.8	4175823	0.000458	1.23E-03	0.00E+00	4.58E-04	1.23E-03	0.00E+00	7.45E-05	1.87E-04	0.00E+00	3.89E-05	7.11E-05	0.00E+00
1839	599857.1	4175827	0.000464	1.25E-03	0.00E+00	4.64E-04	1.25E-03	0.00E+00	7.55E-05	1.89E-04	0.00E+00	3.94E-05	7.21E-05	0.00E+00
1840	599865.5	4175831	0.000467	1.26E-03	0.00E+00	4.67E-04	1.26E-03	0.00E+00	7.60E-05	1.90E-04	0.00E+00	3.97E-05	7.26E-05	0.00E+00
1841	599873.9	4175835	0.000468	1.26E-03	0.00E+00	4.68E-04	1.26E-03	0.00E+00	7.61E-05	1.91E-04	0.00E+00	3.97E-05	7.27E-05	0.00E+00
1842	599882.3	4175838	0.000471	1.27E-03	0.00E+00	4.71E-04	1.27E-03	0.00E+00	7.66E-05	1.92E-04	0.00E+00	4.00E-05	7.32E-05	0.00E+00
1843	599890.7	4175842	0.000472	1.27E-03	0.00E+00	4.72E-04	1.27E-03	0.00E+00	7.67E-05	1.92E-04	0.00E+00	4.01E-05	7.33E-05	0.00E+00
1844	599899.1	4175846	0.000472	1.27E-03	0.00E+00	4.72E-04	1.27E-03	0.00E+00	7.67E-05	1.92E-04	0.00E+00	4.00E-05	7.33E-05	0.00E+00
1845	599907.5	4175850	0.000471	1.27E-03	0.00E+00	4.71E-04	1.27E-03	0.00E+00	7.67E-05	1.92E-04	0.00E+00	4.00E-05	7.32E-05	0.00E+00
1846	599915.9	4175853	0.00047	1.27E-03	0.00E+00	4.70E-04	1.27E-03	0.00E+00	7.65E-05	1.92E-04	0.00E+00	3.99E-05	7.31E-05	0.00E+00
1847	599924.3	4175857	0.000468	1.26E-03	0.00E+00	4.68E-04	1.26E-03	0.00E+00	7.62E-05	1.91E-04	0.00E+00	3.98E-05	7.28E-05	0.00E+00
1848	599932.7	4175861	0.000465	1.25E-03	0.00E+00	4.65E-04	1.25E-03	0.00E+00	7.56E-05	1.89E-04	0.00E+00	3.95E-05	7.22E-05	0.00E+00
1849	599722.9	4175768	0.000172	4.63E-04	0.00E+00	1.72E-04	4.63E-04	0.00E+00	2.79E-05	7.00E-05	0.00E+00	1.46E-05	2.67E-05	0.00E+00
1850	599713.4	4175767	0.000159	4.28E-04	0.00E+00	1.59E-04	4.28E-04	0.00E+00	2.59E-05	6.48E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
1851	599732.4	4175751	0.000166	4.47E-04	0.00E+00	1.66E-04	4.47E-04	0.00E+00	2.70E-05	6.76E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
1852	599741	4175755	0.000189	5.09E-04	0.00E+00	1.89E-04	5.09E-04	0.00E+00	3.07E-05	7.70E-05	0.00E+00	1.60E-05	2.94E-05	0.00E+00
1853	599749.6	4175759	0.000216	5.81E-04	0.00E+00	2.16E-04	5.81E-04	0.00E+00	3.51E-05	8.79E-05	0.00E+00	1.83E-05	3.35E-05	0.00E+00
1854	599758.1	4175763	0.000242	6.53E-04	0.00E+00	2.42E-04	6.53E-04	0.00E+00	3.94E-05	9.87E-05	0.00E+00	2.06E-05	3.76E-05	0.00E+00
1855	599766.7	4175767	0.000264	7.12E-04	0.00E+00	2.64E-04	7.12E-04	0.00E+00	4.30E-05	1.08E-04	0.00E+00	2.24E-05	4.10E-05	0.00E+00
1856	599775.3	4175770	0.000284	7.66E-04	0.00E+00	2.84E-04	7.66E-04	0.00E+00	4.62E-05	1.16E-04	0.00E+00	2.41E-05	4.41E-05	0.00E+00
1857	599783.8	4175774	0.000301	8.12E-04	0.00E+00	3.01E-04	8.12E-04	0.00E+00	4.90E-05	1.23E-04	0.00E+00	2.56E-05	4.68E-05	0.00E+00
1858	599792.4	4175778	0.000318	8.57E-04	0.00E+00	3.18E-04	8.57E-04	0.00E+00	5.17E-05	1.30E-04	0.00E+00	2.70E-05	4.94E-05	0.00E+00
1859	599801	4175782	0.000336	9.06E-04	0.00E+00	3.36E-04	9.06E-04	0.00E+00	5.47E-05	1.37E-04	0.00E+00	2.85E-05	5.22E-05	0.00E+00
1860	599809.5	4175786	0.000355	9.56E-04	0.00E+00	3.55E-04	9.56E-04	0.00E+00	5.77E-05	1.45E-04	0.00E+00	3.01E-05	5.51E-05	0.00E+00
1861	599818.1	4175789	0.000371	1.00E-03	0.00E+00	3.71E-04	1.00E-03	0.00E+00	6.04E-05	1.51E-04	0.00E+00	3.15E-05	5.77E-05	0.00E+00
1862	599826.7	4175793	0.000386	1.04E-03	0.00E+00	3.86E-04	1.04E-03	0.00E+00	6.27E-05	1.57E-04	0.00E+00	3.27E-05	5.99E-05	0.00E+00
1863	599835.3	4175797	0.000398	1.07E-03	0.00E+00	3.98E-04	1.07E-03	0.00E+00	6.47E-05	1.62E-04	0.00E+00	3.38E-05	6.18E-05	0.00E+00
1864	599843.8	4175801	0.000407	1.10E-03	0.00E+00	4.07E-04	1.10E-03	0.00E+00	6.63E-05	1.66E-04	0.00E+00	3.46E-05	6.33E-05	0.00E+00
1865	599852.4	4175805	0.000418	1.13E-03	0.00E+00	4.18E-04	1.13E-03	0.00E+00	6.81E-05	1.71E-04	0.00E+00	3.55E-05	6.50E-05	0.00E+00
1866	599861	4175808	0.000428	1.15E-03	0.00E+00	4.28E-04	1.15E-03	0.00E+00	6.96E-05	1.74E-04	0.00E+00	3.63E-05	6.65E-05	0.00E+00
1867	599869.5	4175812	0.000435	1.17E-03	0.00E+00	4.35E-04	1.17E-03	0.00E+00	7.08E-05	1.77E-04	0.00E+00	3.69E-05	6.76E-05	0.00E+00
1868	599878.1	4175816	0.000442	1.19E-03	0.00E+00	4.42E-04	1.19E-03	0.00E+00	7.19E-05	1.80E-04	0.00E+00	3.75E-05	6.86E-05	0.00E+00
1869	599886.7	4175820	0.000449	1.21E-03	0.00E+00	4.49E-04	1.21E-03	0.00E+00	7.30E-05	1.83E-04	0.00E+00	3.81E-05	6.97E-05	0.00E+00
1870	599895.2	4175824	0.000453	1.22E-03	0.00E+00	4.53E-04	1.22E-03	0.00E+00	7.37E-05	1.85E-04	0.00E+00	3.85E-05	7.04E-05	0.00E+00
1871	599903.8	4175827	0.000456	1.23E-03	0.00E+00	4.56E-04	1.23E-03	0.00E+00	7.42E-05	1.86E-04	0.00E+00	3.87E-05	7.09E-05	0.00E+00
1872	599912.4	4175831	0.00046	1.24E-03	0.00E+00	4.60E-04	1.24E-03	0.00E+00	7.48E-05	1.87E-04	0.00E+00	3.90E-05	7.14E-05	0.00E+00
1873	599921	4175835	0.000463	1.25E-03	0.00E+00	4.63E-04	1.25E-03	0.00E+00	7.54E-05	1.89E-04	0.00E+00	3.93E-05	7.20E-05	0.00E+00
1874	599929.5	4175839	0.000464	1.25E-03	0.00E+00	4.64E-04	1.25E-03	0.00E+00	7.54E-05	1.89E-04	0.00E+00	3.94E-05	7.20E-05	0.00E+00
1875	599938.1	4175843	0.000452	1.22E-03	0.00E+00	4.52E-04	1.22E-03	0.00E+00	7.35E-05	1.84E-04	0.00E+00	3.84E-05	7.02E-05	0.00E+00
1876	599946.7	4175847	0.000434	1.17E-03	0.00E+00	4.34E-04	1.17E-03	0.00E+00	7.07E-05	1.77E-04	0.00E+00	3.69E-05	6.75E-05	0.00E+00
1877	599723.8	4175748	0.000165	4.44E-04	0.00E+00	1.65E-04	4.44E-04	0.00E+00	2.68E-05	6.71E-05	0.00E+00	1.40E-05	2.56E-05	0.00E+00
1878	599714.3	4175747	0.000152	4.11E-04	0.00E+00	1.52E-04	4.11E-04	0.00E+00	2.48E-05	6.21E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
1879	599733.2	4175731	0.000154	4.15E-04	0.00E+00	1.54E-04	4.15E-04	0.00E+00	2.50E-05	6.27E-05	0.00E+00	1.31E-05	2.39E-05	0.00E+00
1880	599741.7	4175735	0.000173	4.67E-04	0.00E+00	1.73E-04	4.67E-04	0.00E+00	2.82E-05	7.06E-05	0.00E+00	1.47E-05	2.69E-05	0.00E+00
1881	599750.1	4175739	0.000177	4.77E-04	0.00E+00	1.77E-04	4.77E-04	0.00E+00	2.88E-05	7.21E-05	0.00E+00	1.50E-05	2.75E-05	0.00E+00
1882	599758.5	4175743	0.000204	5.51E-04	0.00E+00	2.04E-04	5.51E-04	0.00E+00	3.33E-05	8.34E-05	0.00E+00	1.74E-05	3.18E-05	0.00E+00
1883	599767	4175746	0.000235	6.34E-04	0.00E+00	2.35E-04	6.34E-04	0.00E+00	3.83E-05	9.59E-05	0.00E+00	2.00E-05	3.65E-05	0.00E+00
1884	599775.4	4175750	0.000261	7.04E-04	0.00E+00	2.61E-04	7.04E-04	0.00E+00	4.25E-05	1.07E-04	0.00E+00	2.22E-05	4.06E-05	0.00E+00
1885	599783.8	4175754	0.000285	7.69E-04	0.00E+00	2.85E-04	7.69E-04	0.00E+00	4.64E-05	1.16E-04	0.00E+00	2.42E-05	4.43E-05	0.00E+00
1886	599792.3	4175758	0.000296	7.98E-04	0.00E+00	2.96E-04	7.98E-04	0.00E+00	4.82E-05	1.21E-04	0.00E+00	2.51E-05	4.60E-05	0.00E+00
1887	599800.7	4175761	0.000308	8.30E-04	0.00E+00	3.08E-04	8.30E-04	0.00E+00	5.01E-05	1.26E-04	0.00E+00	2.61E-05	4.79E-05	0.00E+00
1888	599809.2	4175765	0.000321	8.65E-04	0.00E+00	3.21E-04	8.65E-04	0.00E+00	5.22E-05	1.31E-04	0.00E+00	2.72E-05	4.98E-05	0.00E+00
1889	599817.6	4175769	0.000334	9.01E-04	0.00E+00	3.34E-04	9.01E-04	0.00E+00	5.43E-05	1.36E-04	0.00E+00	2.84E-05	5.19E-05	0.00E+00
1890	599826	4175773	0.000347	9.37E-04	0.00E+00	3.47E-04	9.37E-04	0.00E+00	5.65E-05	1.42E-04	0.00E+00	2.95E-05	5.40E-05	0.00E+00
1891	599834.5	4175776	0.000361	9.72E-04	0.00E+00	3.61E-04	9.72E-04	0.00E+00	5.87E-05	1.47E-04	0.00E+00	3.06E-05	5.60E-05	0.00E+00
1892	599842.9	4175780	0.000373	1.01E-03	0.00E+00	3.73E-04	1.01E-03	0.00E+00	6.07E-05	1.52E-04	0.00E+00	3.17E-05	5.80E-05	0.00E+00
1893	599851.3	4175784	0.000388	1.05E-03	0.00E+00	3.88E-04	1.05E-03	0.00E+00	6.31E-05	1.58E-04	0.00E+00	3.29E-05	6.02E-05	0.00E+00
1894	599859.8	4175788	0.0004	1.08E-03	0.00E+00	4.00E-04	1.08E-03	0.00E+00	6.51E-05	1.63E-04	0.00E+00	3.40E-05	6.22E-05	0.00E+00
1895	599868.2	4175791	0.00041	1.10E-03	0.00E+00	4.10E-04	1.10E-03	0.00E+00	6.67E-05	1.67E-04	0.00E+00	3.48E-05	6.37E-05	0.00E+00
1896	599876.6	4175795	0.000418	1.13E-03	0.00E+00	4.18E-04	1.13E-03	0.00E+00	6.81E-05	1.71E-04	0.00E+00	3.55E-05	6.50E-05	0.00E+00
1897	599885.1	4175799	0.000427	1.15E-03	0.00E+00	4.27E-04	1.15E-03	0.00E+00	6.94E-05	1.74E-04	0.00E+00	3.62E-05	6.63E-05	0.00E+00
1898	599893.5	4175803	0.000432	1.17E-03	0.00E+00	4.32E-04	1.17E-03	0.00E+00	7.03E-05	1.76E-04	0.00E+00	3.67E-05	6.72E-05	0.00E+00
1899	599901.9	4175806	0.000435	1.17E-03	0.00E+00	4.35E-04	1.17E-03	0.00E+00	7.08E-05	1.78E-04	0.00E+00	3.70E-05	6.77E-05	0.00E+00
1900	599910.4	4175810	0.000437	1.18E-03	0.00E+00	4.37E-04	1.18E-03	0.00E+00	7.12E-05	1.78E-04	0.00E+00	3.71E-05	6.80E-05	0.00E+00
1901	599918.8	4175814	0.000439	1.18E-03	0.00E+00	4.39E-04	1.18E-03	0.00E+00	7.14E-05	1.79E-04	0.00E+00	3.73E-05	6.82E-05	0.00E+00
1902	599927.2	4175818	0.000441	1.19E-03	0.00E+00	4.41E-04	1.19E-03	0.00E+00	7.17E-05	1.80E-04	0.00E+00	3.74E-05	6.85E-05	0.00E+00
1903	599935.7	4175821	0.00044	1.19E-03	0.00E+00	4.40E-04	1.19E-03	0.00E+00	7.16E-05	1.79E-04	0.00E+00	3.73E-05	6.83E-05	0.00E+00
1904	599944.1	4175825	0.000427	1.15E-03	0.00E+00	4.27E-04	1.15E-03	0.00E+00	6.94E-05	1.74E-04	0.00E+00	3.62E-05	6.63E-05	0.00E+00
1905	599952.6	4175829	0.000411	1.11E-03	0.00E+00	4.11E-04	1.11E-03	0.00E+00	6.69E-05	1.68E-04	0.00E+00	3.49E-05	6.39E-05	0.00E+00
1906	599724.8	4175728	0.000138	3.72E-04	0.00E+00	1.38E-04	3.72E-04	0.00E+00	2.24E-05	5.62E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
1907	599715.3	4175727	0.000129	3.46E-04	0.00E+00	1.29E-04	3.46E-04	0.00E+00	2.09E-05	5.24E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
1908	599734.3	4175711	0.000127	3.42E-04	0.00E+00	1.27E-04	3.42E-04	0.00E+00	2.06E-05	5.17E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00

1909	599742.9	4175715	0.000141	3.80E-04	0.00E+00		1.41E-04	3.80E-04	0.00E+00		2.29E-05	5.74E-05	0.00E+00		1.20E-05	2.19E-05	0.00E+00
1910	599751.5	4175719	0.000157	4.24E-04	0.00E+00		1.57E-04	4.24E-04	0.00E+00		2.56E-05	6.41E-05	0.00E+00		1.33E-05	2.44E-05	0.00E+00
1911	599760.1	4175723	0.000165	4.45E-04	0.00E+00		1.65E-04	4.45E-04	0.00E+00		2.68E-05	6.73E-05	0.00E+00		1.40E-05	2.56E-05	0.00E+00
1912	599768.7	4175727	0.000195	5.26E-04	0.00E+00		1.95E-04	5.26E-04	0.00E+00		3.17E-05	7.96E-05	0.00E+00		1.66E-05	3.03E-05	0.00E+00
1913	599777.3	4175731	0.000229	6.17E-04	0.00E+00		2.29E-04	6.17E-04	0.00E+00		3.72E-05	9.33E-05	0.00E+00		1.94E-05	3.56E-05	0.00E+00
1914	599785.9	4175734	0.000261	7.03E-04	0.00E+00		2.61E-04	7.03E-04	0.00E+00		4.24E-05	1.06E-04	0.00E+00		2.21E-05	4.05E-05	0.00E+00
1915	599794.5	4175738	0.00028	7.56E-04	0.00E+00		2.80E-04	7.56E-04	0.00E+00		4.56E-05	1.14E-04	0.00E+00		2.38E-05	4.36E-05	0.00E+00
1916	599803.1	4175742	0.000296	7.99E-04	0.00E+00		2.96E-04	7.99E-04	0.00E+00		4.82E-05	1.21E-04	0.00E+00		2.52E-05	4.61E-05	0.00E+00
1917	599811.7	4175746	0.000309	8.32E-04	0.00E+00		3.09E-04	8.32E-04	0.00E+00		5.02E-05	1.26E-04	0.00E+00		2.62E-05	4.79E-05	0.00E+00
1918	599820.3	4175750	0.000319	8.60E-04	0.00E+00		3.19E-04	8.60E-04	0.00E+00		5.19E-05	1.30E-04	0.00E+00		2.71E-05	4.96E-05	0.00E+00
1919	599828.9	4175753	0.00033	8.89E-04	0.00E+00		3.30E-04	8.89E-04	0.00E+00		5.36E-05	1.34E-04	0.00E+00		2.80E-05	5.12E-05	0.00E+00
1920	599837.5	4175757	0.000341	9.19E-04	0.00E+00		3.41E-04	9.19E-04	0.00E+00		5.55E-05	1.39E-04	0.00E+00		2.89E-05	5.30E-05	0.00E+00
1921	599846.1	4175761	0.000353	9.53E-04	0.00E+00		3.53E-04	9.53E-04	0.00E+00		5.75E-05	1.44E-04	0.00E+00		3.00E-05	5.49E-05	0.00E+00
1922	599854.7	4175765	0.000369	9.96E-04	0.00E+00		3.69E-04	9.96E-04	0.00E+00		6.01E-05	1.51E-04	0.00E+00		3.14E-05	5.74E-05	0.00E+00
1923	599863.3	4175769	0.000384	1.04E-03	0.00E+00		3.84E-04	1.04E-03	0.00E+00		6.25E-05	1.57E-04	0.00E+00		3.26E-05	5.97E-05	0.00E+00
1924	599871.9	4175772	0.000398	1.07E-03	0.00E+00		3.98E-04	1.07E-03	0.00E+00		6.47E-05	1.62E-04	0.00E+00		3.38E-05	6.18E-05	0.00E+00
1925	599880.5	4175776	0.000414	1.12E-03	0.00E+00		4.14E-04	1.12E-03	0.00E+00		6.73E-05	1.69E-04	0.00E+00		3.51E-05	6.43E-05	0.00E+00
1926	599889.1	4175780	0.000425	1.15E-03	0.00E+00		4.25E-04	1.15E-03	0.00E+00		6.92E-05	1.73E-04	0.00E+00		3.61E-05	6.61E-05	0.00E+00
1927	599897.7	4175784	0.000434	1.17E-03	0.00E+00		4.34E-04	1.17E-03	0.00E+00		7.06E-05	1.77E-04	0.00E+00		3.69E-05	6.75E-05	0.00E+00
1928	599906.2	4175788	0.000436	1.18E-03	0.00E+00		4.36E-04	1.18E-03	0.00E+00		7.09E-05	1.78E-04	0.00E+00		3.70E-05	6.77E-05	0.00E+00
1929	599914.8	4175792	0.000429	1.16E-03	0.00E+00		4.29E-04	1.16E-03	0.00E+00		6.97E-05	1.75E-04	0.00E+00		3.64E-05	6.66E-05	0.00E+00
1930	599923.4	4175795	0.000423	1.14E-03	0.00E+00		4.23E-04	1.14E-03	0.00E+00		6.89E-05	1.73E-04	0.00E+00		3.59E-05	6.58E-05	0.00E+00
1931	599932	4175799	0.000419	1.13E-03	0.00E+00		4.19E-04	1.13E-03	0.00E+00		6.82E-05	1.71E-04	0.00E+00		3.56E-05	6.52E-05	0.00E+00
1932	599940.6	4175803	0.000415	1.12E-03	0.00E+00		4.15E-04	1.12E-03	0.00E+00		6.74E-05	1.69E-04	0.00E+00		3.52E-05	6.44E-05	0.00E+00
1933	599949.2	4175807	0.000408	1.10E-03	0.00E+00		4.08E-04	1.10E-03	0.00E+00		6.64E-05	1.66E-04	0.00E+00		3.46E-05	6.34E-05	0.00E+00
1934	599957.8	4175811	0.000399	1.08E-03	0.00E+00		3.99E-04	1.08E-03	0.00E+00		6.50E-05	1.63E-04	0.00E+00		3.39E-05	6.21E-05	0.00E+00
1935	599725.8	4175708	0.000115	3.10E-04	0.00E+00		1.15E-04	3.10E-04	0.00E+00		1.87E-05	4.69E-05	0.00E+00		9.77E-06	1.79E-05	0.00E+00
1936	599716.2	4175707	0.00011	2.96E-04	0.00E+00		1.10E-04	2.96E-04	0.00E+00		1.79E-05	4.48E-05	0.00E+00		9.32E-06	1.71E-05	0.00E+00
1937	599706.7	4175707	0.000106	2.86E-04	0.00E+00		1.06E-04	2.86E-04	0.00E+00		1.73E-05	4.32E-05	0.00E+00		9.01E-06	1.65E-05	0.00E+00
1938	599697.2	4175706	0.000104	2.79E-04	0.00E+00		1.04E-04	2.79E-04	0.00E+00		1.68E-05	4.22E-05	0.00E+00		8.79E-06	1.61E-05	0.00E+00
1939	599743.7	4175695	0.000114	3.07E-04	0.00E+00		1.14E-04	3.07E-04	0.00E+00		1.85E-05	4.64E-05	0.00E+00		9.66E-06	1.77E-05	0.00E+00
1940	599752.1	4175699	0.000126	3.39E-04	0.00E+00		1.26E-04	3.39E-04	0.00E+00		2.04E-05	5.12E-05	0.00E+00		1.07E-05	1.95E-05	0.00E+00
1941	599760.6	4175703	0.000135	3.65E-04	0.00E+00		1.35E-04	3.65E-04	0.00E+00		2.20E-05	5.52E-05	0.00E+00		1.15E-05	2.10E-05	0.00E+00
1942	599769.1	4175706	0.000155	4.17E-04	0.00E+00		1.55E-04	4.17E-04	0.00E+00		2.52E-05	6.31E-05	0.00E+00		1.31E-05	2.40E-05	0.00E+00
1943	599777.5	4175710	0.000186	5.01E-04	0.00E+00		1.86E-04	5.01E-04	0.00E+00		3.02E-05	7.58E-05	0.00E+00		1.58E-05	2.89E-05	0.00E+00
1944	599786	4175714	0.000223	6.01E-04	0.00E+00		2.23E-04	6.01E-04	0.00E+00		3.63E-05	9.09E-05	0.00E+00		1.89E-05	3.46E-05	0.00E+00
1945	599794.5	4175718	0.000254	6.84E-04	0.00E+00		2.54E-04	6.84E-04	0.00E+00		4.13E-05	1.03E-04	0.00E+00		2.15E-05	3.94E-05	0.00E+00
1946	599803	4175721	0.000279	7.52E-04	0.00E+00		2.79E-04	7.52E-04	0.00E+00		4.54E-05	1.14E-04	0.00E+00		2.37E-05	4.33E-05	0.00E+00
1947	599811.4	4175725	0.000301	8.12E-04	0.00E+00		3.01E-04	8.12E-04	0.00E+00		4.90E-05	1.23E-04	0.00E+00		2.56E-05	4.68E-05	0.00E+00
1948	599819.9	4175729	0.000311	8.39E-04	0.00E+00		3.11E-04	8.39E-04	0.00E+00		5.06E-05	1.27E-04	0.00E+00		2.64E-05	4.83E-05	0.00E+00
1949	599828.4	4175733	0.000318	8.58E-04	0.00E+00		3.18E-04	8.58E-04	0.00E+00		5.18E-05	1.30E-04	0.00E+00		2.70E-05	4.95E-05	0.00E+00
1950	599836.8	4175737	0.000326	8.80E-04	0.00E+00		3.26E-04	8.80E-04	0.00E+00		5.31E-05	1.33E-04	0.00E+00		2.77E-05	5.07E-05	0.00E+00
1951	599845.3	4175740	0.000336	9.06E-04	0.00E+00		3.36E-04	9.06E-04	0.00E+00		5.47E-05	1.37E-04	0.00E+00		2.85E-05	5.22E-05	0.00E+00
1952	599853.8	4175744	0.00035	9.45E-04	0.00E+00		3.50E-04	9.45E-04	0.00E+00		5.70E-05	1.43E-04	0.00E+00		2.98E-05	5.44E-05	0.00E+00
1953	599862.2	4175748	0.000365	9.83E-04	0.00E+00		3.65E-04	9.83E-04	0.00E+00		5.93E-05	1.49E-04	0.00E+00		3.10E-05	5.67E-05	0.00E+00
1954	599870.7	4175752	0.000378	1.02E-03	0.00E+00		3.78E-04	1.02E-03	0.00E+00		6.15E-05	1.54E-04	0.00E+00		3.21E-05	5.88E-05	0.00E+00
1955	599879.2	4175755	0.000389	1.05E-03	0.00E+00		3.89E-04	1.05E-03	0.00E+00		6.33E-05	1.59E-04	0.00E+00		3.31E-05	6.05E-05	0.00E+00
1956	599887.7	4175759	0.000401	1.08E-03	0.00E+00		4.01E-04	1.08E-03	0.00E+00		6.52E-05	1.63E-04	0.00E+00		3.40E-05	6.23E-05	0.00E+00
1957	599896.1	4175763	0.000414	1.12E-03	0.00E+00		4.14E-04	1.12E-03	0.00E+00		6.73E-05	1.69E-04	0.00E+00		3.51E-05	6.43E-05	0.00E+00
1958	599904.6	4175767	0.000426	1.15E-03	0.00E+00		4.26E-04	1.15E-03	0.00E+00		6.93E-05	1.74E-04	0.00E+00		3.62E-05	6.62E-05	0.00E+00
1959	599913.1	4175770	0.000422	1.14E-03	0.00E+00		4.22E-04	1.14E-03	0.00E+00		6.86E-05	1.72E-04	0.00E+00		3.58E-05	6.56E-05	0.00E+00
1960	599921.5	4175774	0.000417	1.13E-03	0.00E+00		4.17E-04	1.13E-03	0.00E+00		6.79E-05	1.70E-04	0.00E+00		3.54E-05	6.49E-05	0.00E+00
1961	599930	4175778	0.00041	1.11E-03	0.00E+00		4.10E-04	1.11E-03	0.00E+00		6.68E-05	1.67E-04	0.00E+00		3.48E-05	6.38E-05	0.00E+00
1962	599938.5	4175782	0.000406	1.10E-03	0.00E+00		4.06E-04	1.10E-03	0.00E+00		6.61E-05	1.66E-04	0.00E+00		3.45E-05	6.31E-05	0.00E+00
1963	599947	4175785	0.000403	1.09E-03	0.00E+00		4.03E-04	1.09E-03	0.00E+00		6.56E-05	1.64E-04	0.00E+00		3.42E-05	6.27E-05	0.00E+00
1964	599955.4	4175789	0.000399	1.08E-03	0.00E+00		3.99E-04	1.08E-03	0.00E+00		6.49E-05	1.63E-04	0.00E+00		3.39E-05	6.20E-05	0.00E+00
1965	599963.9	4175793	0.000393	1.06E-03	0.00E+00		3.93E-04	1.06E-03	0.00E+00		6.39E-05	1.60E-04	0.00E+00		3.34E-05	6.11E-05	0.00E+00
1966	599972.4	4175797	0.000393	1.06E-03	0.00E+00		3.93E-04	1.06E-03	0.00E+00		6.40E-05	1.60E-04	0.00E+00		3.34E-05	6.11E-05	0.00E+00
1967	599779.4	4175691	0.000144	3.89E-04	0.00E+00		1.44E-04	3.89E-04	0.00E+00		2.34E-05	5.88E-05	0.00E+00		1.22E-05	2.24E-05	0.00E+00
1968	599788	4175694	0.000172	4.64E-04	0.00E+00		1.72E-04	4.64E-04	0.00E+00		2.80E-05	7.01E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
1969	599796.6	4175698	0.000205	5.52E-04	0.00E+00		2.05E-04	5.52E-04	0.00E+00		3.33E-05	8.35E-05	0.00E+00		1.74E-05	3.18E-05	0.00E+00
1970	599805.2	4175702	0.000241	6.50E-04	0.00E+00		2.41E-04	6.50E-04	0.00E+00		3.92E-05	9.83E-05	0.00E+00		2.05E-05	3.75E-05	0.00E+00
1971	599813.8	4175706	0.000279	7.54E-04	0.00E+00		2.79E-04	7.54E-04	0.00E+00		4.55E-05	1.14E-04	0.00E+00		2.37E-05	4.34E-05	0.00E+00
1972	599822.4	4175710	0.000298	8.04E-04	0.00E+00		2.98E-04	8.04E-04	0.00E+00		4.85E-05	1.22E-04	0.00E+00		2.53E-05	4.63E-05	0.00E+00
1973	599831.1	4175714	0.000314	8.48E-04	0.00E+00		3.14E-04	8.48E-04	0.00E+00		5.12E-05	1.28E-04	0.00E+00		2.67E-05	4.89E-05	0.00E+00
1974	599839.7	4175717	0.000325	8.76E-04	0.00E+00		3.25E-04	8.76E-04	0.00E+00		5.29E-05	1.32E-04	0.00E+00		2.76E-05	5.05E-05	0.00E+00
1975	599848.3	4175721	0.000335	9.02E-04	0.00E+00		3.35E-04	9.02E-04	0.00E+00		5.44E-05	1.36E-04	0.00E+00		2.84E-05	5.20E-05	0.00E+00
1976	599856.9	4175725	0.000347	9.36E-04	0.00E+00		3.47E-04	9.36E-04	0.00E+00		5.65E-05	1.42E-04	0.00E+00		2.95E-05	5.40E-05	0.00E+00
1977	599865.5	4175729	0.00036	9.71E-04	0.00E+00		3.60E-04	9.71E-04	0.00E+00		5.86E-05	1.47E-04	0.00E+00		3.06E-05	5.60E-05	0.00E+00
1978	599874.1	4175733	0.000372	1.00E-03	0.00E+00		3.72E-04	1.00E-03	0.00E+00		6.06E-05	1.52E-04	0.00E+00		3.16E-05	5.78E-05	0.00E+00
1979	599882.7	4175737	0.000374	1.01E-03	0.00E+00		3.74E-04	1.01E-03	0.00E+00		6.08E-05	1.52E-04	0.00E+00		3.17E-05	5.81E-05	0.00E+00
1980	599891.4	4175740	0.000378	1.02E-03	0.00E+00		3.78E-04	1.02E-03	0.00E+00		6.16E-05	1.54E-04	0.00E+00		3.21E-05	5.88E-05	0.00E+00
1981	599900	4175744	0.000385	1.04E-03	0.00E+00		3.85E-04	1.04E-03	0.00E+00		6.27E-05	1.57E-04	0.00E+00		3.27E-05	5.99E-05	0.00E+00
1982	599908.6	4175748	0.000388	1.04E-03	0.00E+00		3.88E-04	1.04E-03	0.00E+00		6.30E-05	1.58E-04	0.00E+00		3.29E-05	6.02E-05	0.00E+00
1983	599917.2	4175752	0.000385	1.04E-03	0.00E+00		3.85E-04	1.04E-03	0.00E+00		6.26E-05	1.57E-04	0.00E+00		3.27E-05	5.98E-05	0.00E+00
1984	599925.8	4175756	0.000382	1.03E-03	0.00E+00		3.82E-04	1.03E-03	0.00E+00		6.22E-05	1.56E-04	0.00E+00		3.24E-05	5.94E-05	0.00E+00
1985	599934.4	4175759	0.00038	1.03E-03	0.00E+00		3.80E-04	1.03E-03	0.00E+00		6.19E-05	1.55E-04	0.00E+00		3.23E-05	5.91E-05	0.00E+00
1986	599943	4175763	0.000388	1.05E-03	0.00E+00		3.88E-04	1.05E-03	0.00E+00		6.31E-05	1.58E-04	0.00E+00		3.30E-05	6.03E-05	0.00E+00
1987	599951.7	4175767	0.000392	1.06E-03	0.00E+00		3.92E-04	1.06E-03	0.00E+00		6.38E-05	1.60E-04	0.00E+00		3.33E-05	6.10E-05	0.00E+00
1988	599960.3	4175771	0.000393	1.06E-03	0.00E+00		3.93E-04	1.06E-03	0.00E+00		6.40E-05	1.60E-04	0.00E+00		3.34E-05	6.11E-05	0.00E+00
1989	599968.9	4175775	0.000394	1.06E-03	0.00E+00		3.94E-04	1.06E-03	0.00E+00		6.40E-05	1.60E-04	0.00E+00		3.34E-05	6.12E-05	0.00E+00
1990	599977.5	4175779	0.000393	1.06E-03	0.00E+00		3.93E-04	1.06E-03	0.00E+00		6.40E-05	1.60E-04	0.00E+00		3.34E-05	6.11E-05	0.00E+00
1991	599986.1	4175782	0.000392	1.06E-03	0.00E+00		3.92E-04	1.06E-03	0.00E+00		6.38E-05	1.60E-04	0.00E+00		3.33E-05	6.10E-05	0.00E+00
1992	599796.6	4175678	0.000167	4.50E-04	0.00E+00		1.67E-04	4.50E-04	0.00E+00		2.71E-05	6.80E-05	0.00E+00		1.42E-05	2.59E-05	0.00E+00
1993	599805.1	4175682	0.000196	5.28E-04	0.00E+00		1.96E-04	5.28E-04	0.00E+00		3.19E-05	7.99E-05	0.00E+00		1.66E-05	3.04E-05	0.00E+00
1994	599813.6	4175685	0.00023	6.20E-04	0.00E+00		2.30E-04	6.20E-04	0.00E+00		3.74E-05	9.38E-05	0.00E+00		1.95E-05	3.58E-05	0.00E+00
1995	599822.1	4175689	0.000252	6.81E-04	0.00E+00		2.52E-04	6.81E-04	0.00E+00		4.11E-05	1.03E-04	0.00E+00		2.14E-05	3.92E-05	0.00E+00
1996	599830.6	4175693	0.000274	7.39E-04	0.00E+00		2.74E-04	7.39E-04	0.00E+00		4.46E-05	1.12E-04	0.00E+00		2.33E-05	4.26E-05	0.00E+00
1997	599839.1	4175697	0.000294	7.92E-04	0.00E+00		2.94E-04	7.92E-04	0.00E+00		4.78E-05	1.20E-04	0.00E+00		2.49E-05	4.56E-05	0.00E+00
1998	599847.6	4175701	0.000311	8.38E-04	0.00E+00		3.11E-04	8.38E-04	0.00E+00		5.05E-05	1.27E-04	0.00E+00		2.64E-05	4.83E-05	0.00E+00
1999	599856.1	4175704	0.000328	8.84E-04	0.00E+00		3.28E-04	8.84E-04	0.00E+00		5.33E-05	1.34E-04	0.00E+00		2.78E-05	5.09E-05	0.00E+00

2000	599864.6	4175708	0.000345	9.30E-04	0.00E+00	3.45E-04	9.30E-04	0.00E+00	5.61E-05	1.41E-04	0.00E+00	2.93E-05	5.36E-05	0.00E+00
2001	599873.1	4175712	0.000362	9.77E-04	0.00E+00	3.62E-04	9.77E-04	0.00E+00	5.90E-05	1.48E-04	0.00E+00	3.08E-05	5.63E-05	0.00E+00
2002	599881.6	4175716	0.00036	9.71E-04	0.00E+00	3.60E-04	9.71E-04	0.00E+00	5.86E-05	1.47E-04	0.00E+00	3.06E-05	5.60E-05	0.00E+00
2003	599890.1	4175719	0.000355	9.57E-04	0.00E+00	3.55E-04	9.57E-04	0.00E+00	5.77E-05	1.45E-04	0.00E+00	3.01E-05	5.51E-05	0.00E+00
2004	599898.6	4175723	0.000353	9.52E-04	0.00E+00	3.53E-04	9.52E-04	0.00E+00	5.75E-05	1.44E-04	0.00E+00	3.00E-05	5.49E-05	0.00E+00
2005	599907.1	4175727	0.000355	9.56E-04	0.00E+00	3.55E-04	9.56E-04	0.00E+00	5.77E-05	1.45E-04	0.00E+00	3.01E-05	5.51E-05	0.00E+00
2006	599915.6	4175731	0.000355	9.57E-04	0.00E+00	3.55E-04	9.57E-04	0.00E+00	5.78E-05	1.45E-04	0.00E+00	3.01E-05	5.52E-05	0.00E+00
2007	599924.1	4175735	0.000354	9.55E-04	0.00E+00	3.54E-04	9.55E-04	0.00E+00	5.76E-05	1.44E-04	0.00E+00	3.01E-05	5.50E-05	0.00E+00
2008	599932.6	4175738	0.000352	9.49E-04	0.00E+00	3.52E-04	9.49E-04	0.00E+00	5.73E-05	1.44E-04	0.00E+00	2.99E-05	5.47E-05	0.00E+00
2009	599941.1	4175742	0.000363	9.79E-04	0.00E+00	3.63E-04	9.79E-04	0.00E+00	5.91E-05	1.48E-04	0.00E+00	3.08E-05	5.64E-05	0.00E+00
2010	599949.6	4175746	0.000375	1.01E-03	0.00E+00	3.75E-04	1.01E-03	0.00E+00	6.09E-05	1.53E-04	0.00E+00	3.18E-05	5.82E-05	0.00E+00
2011	599958.1	4175750	0.000384	1.03E-03	0.00E+00	3.84E-04	1.03E-03	0.00E+00	6.24E-05	1.56E-04	0.00E+00	3.26E-05	5.96E-05	0.00E+00
2012	599966.6	4175753	0.000389	1.05E-03	0.00E+00	3.89E-04	1.05E-03	0.00E+00	6.32E-05	1.58E-04	0.00E+00	3.30E-05	6.04E-05	0.00E+00
2013	599975.1	4175757	0.00039	1.05E-03	0.00E+00	3.90E-04	1.05E-03	0.00E+00	6.35E-05	1.59E-04	0.00E+00	3.31E-05	6.06E-05	0.00E+00
2014	599983.6	4175761	0.000391	1.05E-03	0.00E+00	3.91E-04	1.05E-03	0.00E+00	6.36E-05	1.59E-04	0.00E+00	3.32E-05	6.07E-05	0.00E+00
2015	599992.1	4175765	0.000391	1.05E-03	0.00E+00	3.91E-04	1.05E-03	0.00E+00	6.36E-05	1.59E-04	0.00E+00	3.32E-05	6.07E-05	0.00E+00
2016	599790	4175655	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.34E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
2017	599798.6	4175658	0.000153	4.13E-04	0.00E+00	1.53E-04	4.13E-04	0.00E+00	2.49E-05	6.25E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
2018	599807.3	4175662	0.00018	4.86E-04	0.00E+00	1.80E-04	4.86E-04	0.00E+00	2.93E-05	7.35E-05	0.00E+00	1.53E-05	2.80E-05	0.00E+00
2019	599815.9	4175666	0.000209	5.62E-04	0.00E+00	2.09E-04	5.62E-04	0.00E+00	3.39E-05	8.50E-05	0.00E+00	1.77E-05	3.24E-05	0.00E+00
2020	599824.5	4175670	0.00023	6.20E-04	0.00E+00	2.30E-04	6.20E-04	0.00E+00	3.74E-05	9.38E-05	0.00E+00	1.95E-05	3.58E-05	0.00E+00
2021	599833.2	4175674	0.000252	6.80E-04	0.00E+00	2.52E-04	6.80E-04	0.00E+00	4.10E-05	1.03E-04	0.00E+00	2.14E-05	3.92E-05	0.00E+00
2022	599841.8	4175678	0.000274	7.40E-04	0.00E+00	2.74E-04	7.40E-04	0.00E+00	4.46E-05	1.12E-04	0.00E+00	2.33E-05	4.26E-05	0.00E+00
2023	599850.4	4175681	0.00029	7.82E-04	0.00E+00	2.90E-04	7.82E-04	0.00E+00	4.72E-05	1.18E-04	0.00E+00	2.46E-05	4.50E-05	0.00E+00
2024	599859.1	4175685	0.000305	8.24E-04	0.00E+00	3.05E-04	8.24E-04	0.00E+00	4.97E-05	1.25E-04	0.00E+00	2.59E-05	4.75E-05	0.00E+00
2025	599867.7	4175689	0.000322	8.67E-04	0.00E+00	3.22E-04	8.67E-04	0.00E+00	5.23E-05	1.31E-04	0.00E+00	2.73E-05	5.00E-05	0.00E+00
2026	599876.3	4175693	0.000333	8.98E-04	0.00E+00	3.33E-04	8.98E-04	0.00E+00	5.42E-05	1.36E-04	0.00E+00	2.83E-05	5.17E-05	0.00E+00
2027	599885	4175697	0.000333	8.98E-04	0.00E+00	3.33E-04	8.98E-04	0.00E+00	5.42E-05	1.36E-04	0.00E+00	2.83E-05	5.17E-05	0.00E+00
2028	599893.6	4175701	0.000331	8.94E-04	0.00E+00	3.31E-04	8.94E-04	0.00E+00	5.39E-05	1.35E-04	0.00E+00	2.81E-05	5.15E-05	0.00E+00
2029	599902.2	4175704	0.000329	8.88E-04	0.00E+00	3.29E-04	8.88E-04	0.00E+00	5.36E-05	1.34E-04	0.00E+00	2.80E-05	5.12E-05	0.00E+00
2030	599910.9	4175708	0.000332	8.95E-04	0.00E+00	3.32E-04	8.95E-04	0.00E+00	5.40E-05	1.35E-04	0.00E+00	2.82E-05	5.16E-05	0.00E+00
2031	599919.5	4175712	0.000333	8.98E-04	0.00E+00	3.33E-04	8.98E-04	0.00E+00	5.42E-05	1.36E-04	0.00E+00	2.83E-05	5.18E-05	0.00E+00
2032	599928.1	4175716	0.000332	8.94E-04	0.00E+00	3.32E-04	8.94E-04	0.00E+00	5.40E-05	1.35E-04	0.00E+00	2.82E-05	5.16E-05	0.00E+00
2033	599936.7	4175720	0.000337	9.10E-04	0.00E+00	3.37E-04	9.10E-04	0.00E+00	5.49E-05	1.38E-04	0.00E+00	2.87E-05	5.24E-05	0.00E+00
2034	599945.4	4175724	0.000351	9.47E-04	0.00E+00	3.51E-04	9.47E-04	0.00E+00	5.71E-05	1.43E-04	0.00E+00	2.98E-05	5.46E-05	0.00E+00
2035	599954	4175727	0.000364	9.81E-04	0.00E+00	3.64E-04	9.81E-04	0.00E+00	5.92E-05	1.48E-04	0.00E+00	3.09E-05	5.65E-05	0.00E+00
2036	599962.6	4175731	0.000375	1.01E-03	0.00E+00	3.75E-04	1.01E-03	0.00E+00	6.11E-05	1.53E-04	0.00E+00	3.19E-05	5.83E-05	0.00E+00
2037	599971.3	4175735	0.00038	1.02E-03	0.00E+00	3.80E-04	1.02E-03	0.00E+00	6.18E-05	1.55E-04	0.00E+00	3.23E-05	5.90E-05	0.00E+00
2038	599979.9	4175739	0.000384	1.03E-03	0.00E+00	3.84E-04	1.03E-03	0.00E+00	6.24E-05	1.56E-04	0.00E+00	3.26E-05	5.96E-05	0.00E+00
2039	599988.5	4175743	0.000388	1.05E-03	0.00E+00	3.88E-04	1.05E-03	0.00E+00	6.31E-05	1.58E-04	0.00E+00	3.29E-05	6.02E-05	0.00E+00
2040	599997.2	4175747	0.000382	1.03E-03	0.00E+00	3.82E-04	1.03E-03	0.00E+00	6.22E-05	1.56E-04	0.00E+00	3.24E-05	5.94E-05	0.00E+00
2041	599781.7	4175630	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.65E-05	0.00E+00	9.69E-06	1.77E-05	0.00E+00
2042	599790.2	4175634	0.000122	3.28E-04	0.00E+00	1.22E-04	3.28E-04	0.00E+00	1.98E-05	4.96E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
2043	599798.7	4175638	0.000145	3.92E-04	0.00E+00	1.45E-04	3.92E-04	0.00E+00	2.37E-05	5.93E-05	0.00E+00	1.23E-05	2.26E-05	0.00E+00
2044	599807.3	4175642	0.000172	4.64E-04	0.00E+00	1.72E-04	4.64E-04	0.00E+00	2.80E-05	7.02E-05	0.00E+00	1.46E-05	2.68E-05	0.00E+00
2045	599815.8	4175646	0.000199	5.37E-04	0.00E+00	1.99E-04	5.37E-04	0.00E+00	3.24E-05	8.12E-05	0.00E+00	1.69E-05	3.09E-05	0.00E+00
2046	599824.3	4175649	0.000219	5.91E-04	0.00E+00	2.19E-04	5.91E-04	0.00E+00	3.57E-05	8.94E-05	0.00E+00	1.86E-05	3.41E-05	0.00E+00
2047	599832.8	4175653	0.000237	6.39E-04	0.00E+00	2.37E-04	6.39E-04	0.00E+00	3.85E-05	9.66E-05	0.00E+00	2.01E-05	3.68E-05	0.00E+00
2048	599841.4	4175657	0.000254	6.86E-04	0.00E+00	2.54E-04	6.86E-04	0.00E+00	4.14E-05	1.04E-04	0.00E+00	2.16E-05	3.95E-05	0.00E+00
2049	599849.9	4175661	0.000266	7.16E-04	0.00E+00	2.66E-04	7.16E-04	0.00E+00	4.32E-05	1.08E-04	0.00E+00	2.25E-05	4.13E-05	0.00E+00
2050	599858.4	4175665	0.000274	7.40E-04	0.00E+00	2.74E-04	7.40E-04	0.00E+00	4.46E-05	1.12E-04	0.00E+00	2.33E-05	4.26E-05	0.00E+00
2051	599867	4175668	0.000285	7.70E-04	0.00E+00	2.85E-04	7.70E-04	0.00E+00	4.64E-05	1.16E-04	0.00E+00	2.42E-05	4.44E-05	0.00E+00
2052	599875.5	4175672	0.000297	8.01E-04	0.00E+00	2.97E-04	8.01E-04	0.00E+00	4.83E-05	1.21E-04	0.00E+00	2.52E-05	4.62E-05	0.00E+00
2053	599884	4175676	0.000304	8.18E-04	0.00E+00	3.04E-04	8.18E-04	0.00E+00	4.94E-05	1.24E-04	0.00E+00	2.58E-05	4.72E-05	0.00E+00
2054	599892.5	4175680	0.000309	8.32E-04	0.00E+00	3.09E-04	8.32E-04	0.00E+00	5.02E-05	1.26E-04	0.00E+00	2.62E-05	4.80E-05	0.00E+00
2055	599901.1	4175683	0.000312	8.42E-04	0.00E+00	3.12E-04	8.42E-04	0.00E+00	5.08E-05	1.27E-04	0.00E+00	2.65E-05	4.85E-05	0.00E+00
2056	599909.6	4175687	0.000322	8.68E-04	0.00E+00	3.22E-04	8.68E-04	0.00E+00	5.24E-05	1.31E-04	0.00E+00	2.73E-05	5.00E-05	0.00E+00
2057	599918.1	4175691	0.00033	8.91E-04	0.00E+00	3.30E-04	8.91E-04	0.00E+00	5.38E-05	1.35E-04	0.00E+00	2.81E-05	5.13E-05	0.00E+00
2058	599926.6	4175695	0.000335	9.04E-04	0.00E+00	3.35E-04	9.04E-04	0.00E+00	5.46E-05	1.37E-04	0.00E+00	2.85E-05	5.21E-05	0.00E+00
2059	599935.2	4175699	0.00034	9.16E-04	0.00E+00	3.40E-04	9.16E-04	0.00E+00	5.53E-05	1.38E-04	0.00E+00	2.88E-05	5.28E-05	0.00E+00
2060	599943.7	4175702	0.000352	9.49E-04	0.00E+00	3.52E-04	9.49E-04	0.00E+00	5.73E-05	1.44E-04	0.00E+00	2.99E-05	5.47E-05	0.00E+00
2061	599952.2	4175706	0.000362	9.77E-04	0.00E+00	3.62E-04	9.77E-04	0.00E+00	5.89E-05	1.48E-04	0.00E+00	3.08E-05	5.63E-05	0.00E+00
2062	599960.7	4175710	0.00037	9.97E-04	0.00E+00	3.70E-04	9.97E-04	0.00E+00	6.02E-05	1.51E-04	0.00E+00	3.14E-05	5.75E-05	0.00E+00
2063	599969.3	4175714	0.000368	9.91E-04	0.00E+00	3.68E-04	9.91E-04	0.00E+00	5.98E-05	1.50E-04	0.00E+00	3.12E-05	5.71E-05	0.00E+00
2064	599977.8	4175718	0.000366	9.86E-04	0.00E+00	3.66E-04	9.86E-04	0.00E+00	5.95E-05	1.49E-04	0.00E+00	3.10E-05	5.68E-05	0.00E+00
2065	599986.3	4175721	0.000368	9.91E-04	0.00E+00	3.68E-04	9.91E-04	0.00E+00	5.98E-05	1.50E-04	0.00E+00	3.12E-05	5.71E-05	0.00E+00
2066	599994.8	4175725	0.000368	9.93E-04	0.00E+00	3.68E-04	9.93E-04	0.00E+00	5.99E-05	1.50E-04	0.00E+00	3.13E-05	5.73E-05	0.00E+00
2067	600003.4	4175729	0.000359	9.68E-04	0.00E+00	3.59E-04	9.68E-04	0.00E+00	5.84E-05	1.46E-04	0.00E+00	3.05E-05	5.58E-05	0.00E+00
2068	600125.6	4175914	0.000229	6.18E-04	0.00E+00	2.29E-04	6.18E-04	0.00E+00	3.73E-05	9.35E-05	0.00E+00	1.95E-05	3.56E-05	0.00E+00
2069	600129.3	4175923	0.000222	5.98E-04	0.00E+00	2.22E-04	5.98E-04	0.00E+00	3.61E-05	9.05E-05	0.00E+00	1.88E-05	3.45E-05	0.00E+00
2070	600133.1	4175931	0.000215	5.81E-04	0.00E+00	2.15E-04	5.81E-04	0.00E+00	3.50E-05	8.78E-05	0.00E+00	1.83E-05	3.35E-05	0.00E+00
2071	600136.8	4175940	0.000209	5.64E-04	0.00E+00	2.09E-04	5.64E-04	0.00E+00	3.40E-05	8.52E-05	0.00E+00	1.78E-05	3.25E-05	0.00E+00
2072	600140.5	4175948	0.000203	5.47E-04	0.00E+00	2.03E-04	5.47E-04	0.00E+00	3.30E-05	8.28E-05	0.00E+00	1.72E-05	3.15E-05	0.00E+00
2073	600144.3	4175957	0.000197	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.04E-05	0.00E+00	1.67E-05	3.06E-05	0.00E+00
2074	600148	4175965	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.86E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
2075	600151.8	4175974	0.000189	5.10E-04	0.00E+00	1.89E-04	5.10E-04	0.00E+00	3.08E-05	7.71E-05	0.00E+00	1.61E-05	2.94E-05	0.00E+00
2076	600155.5	4175982	0.000186	5.03E-04	0.00E+00	1.86E-04	5.03E-04	0.00E+00	3.03E-05	7.60E-05	0.00E+00	1.58E-05	2.90E-05	0.00E+00
2077	600159.2	4175991	0.000183	4.94E-04	0.00E+00	1.83E-04	4.94E-04	0.00E+00	2.98E-05	7.46E-05	0.00E+00	1.55E-05	2.84E-05	0.00E+00
2078	600163	4175999	0.000182	4.91E-04	0.00E+00	1.82E-04	4.91E-04	0.00E+00	2.96E-05	7.43E-05	0.00E+00	1.55E-05	2.83E-05	0.00E+00
2079	600166.7	4176008	0.000183	4.92E-04	0.00E+00	1.83E-04	4.92E-04	0.00E+00	2.97E-05	7.44E-05	0.00E+00	1.55E-05	2.84E-05	0.00E+00
2080	600170.5	4176017	0.000183	4.94E-04	0.00E+00	1.83E-04	4.94E-04	0.00E+00	2.98E-05	7.47E-05	0.00E+00	1.56E-05	2.85E-05	0.00E+00
2081	599774.7	4175607	9.37E-05	2.53E-04	0.00E+00	9.37E-05	2.53E-04	0.00E+00	1.52E-05	3.82E-05	0.00E+00	7.96E-06	1.46E-05	0.00E+00
2082	599783.4	4175611	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.31E-05	0.00E+00	8.98E-06	1.64E-05	0.00E+00
2083	599792	4175615	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.05E-05	5.13E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
2084	599800.7	4175618	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.45E-05	6.15E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
2085	599809.3	4175622	0.000181	4.88E-04	0.00E+00	1.81E-04	4.88E-04	0.00E+00	2.94E-05	7.38E-05	0.00E+00	1.54E-05	2.81E-05	0.00E+00
2086	599818	4175626	0.000213	5.75E-04	0.00E+00	2.13E-04	5.75E-04	0.00E+00	3.47E-05	8.70E-05	0.00E+00	1.81E-05	3.32E-05	0.00E+00
2087	599826.6	4175630	0.000244	6.57E-04	0.00E+00	2.44E-04	6.57E-04	0.00E+00	3.96E-05	9.93E-05	0.00E+00	2.07E-05	3.79E-05	0.00E+00
2088	599835.3	4175634	0.000272	7.34E-04	0.00E+00	2.72E-04	7.34E-04	0.00E+00	4.43E-05	1.11E-04	0.00E+00	2.31E-05	4.23E-05	0.00E+00
2089	599843.9	4175638	0.000297	8.00E-04	0.00E+00	2.97E-04	8.00E-04	0.00E+00	4.83E-05	1.21E-04	0.00E+00	2.52E-05	4.61E-05	0.00E+00
2090	599852.5	4175641	0.000288	7.77E-04	0.00E+00	2.88E-04	7.77E-04	0.00E+00	4.69E-05	1.17E-04	0.00E+00	2.45E-05	4.48E-05	0.00E+00

2091	599861.2	4175645	0.000281	7.58E-04	0.00E+00	2.81E-04	7.58E-04	0.00E+00	4.57E-05	1.15E-04	0.00E+00	2.39E-05	4.37E-05	0.00E+00
2092	599869.8	4175649	0.000276	7.45E-04	0.00E+00	2.76E-04	7.45E-04	0.00E+00	4.49E-05	1.13E-04	0.00E+00	2.34E-05	4.29E-05	0.00E+00
2093	599878.5	4175653	0.000274	7.38E-04	0.00E+00	2.74E-04	7.38E-04	0.00E+00	4.45E-05	1.12E-04	0.00E+00	2.32E-05	4.25E-05	0.00E+00
2094	599887.1	4175657	0.000275	7.41E-04	0.00E+00	2.75E-04	7.41E-04	0.00E+00	4.47E-05	1.12E-04	0.00E+00	2.33E-05	4.27E-05	0.00E+00
2095	599895.8	4175661	0.000282	7.61E-04	0.00E+00	2.82E-04	7.61E-04	0.00E+00	4.59E-05	1.15E-04	0.00E+00	2.40E-05	4.39E-05	0.00E+00
2096	599904.4	4175665	0.00029	7.82E-04	0.00E+00	2.90E-04	7.82E-04	0.00E+00	4.72E-05	1.18E-04	0.00E+00	2.46E-05	4.51E-05	0.00E+00
2097	599913.1	4175668	0.000307	8.28E-04	0.00E+00	3.07E-04	8.28E-04	0.00E+00	5.00E-05	1.25E-04	0.00E+00	2.61E-05	4.77E-05	0.00E+00
2098	599921.7	4175672	0.000323	8.70E-04	0.00E+00	3.23E-04	8.70E-04	0.00E+00	5.25E-05	1.32E-04	0.00E+00	2.74E-05	5.02E-05	0.00E+00
2099	599930.4	4175676	0.000337	9.07E-04	0.00E+00	3.37E-04	9.07E-04	0.00E+00	5.48E-05	1.37E-04	0.00E+00	2.86E-05	5.23E-05	0.00E+00
2100	599939	4175680	0.000355	9.56E-04	0.00E+00	3.55E-04	9.56E-04	0.00E+00	5.77E-05	1.45E-04	0.00E+00	3.01E-05	5.51E-05	0.00E+00
2101	599947.6	4175684	0.000377	1.02E-03	0.00E+00	3.77E-04	1.02E-03	0.00E+00	6.14E-05	1.54E-04	0.00E+00	3.20E-05	5.86E-05	0.00E+00
2102	599956.3	4175688	0.000396	1.07E-03	0.00E+00	3.96E-04	1.07E-03	0.00E+00	6.44E-05	1.61E-04	0.00E+00	3.36E-05	6.15E-05	0.00E+00
2103	599964.9	4175691	0.000403	1.09E-03	0.00E+00	4.03E-04	1.09E-03	0.00E+00	6.55E-05	1.64E-04	0.00E+00	3.42E-05	6.26E-05	0.00E+00
2104	599973.6	4175695	0.000386	1.04E-03	0.00E+00	3.86E-04	1.04E-03	0.00E+00	6.28E-05	1.57E-04	0.00E+00	3.28E-05	5.99E-05	0.00E+00
2105	599982.2	4175699	0.000373	1.01E-03	0.00E+00	3.73E-04	1.01E-03	0.00E+00	6.07E-05	1.52E-04	0.00E+00	3.17E-05	5.80E-05	0.00E+00
2106	599990.9	4175703	0.000364	9.82E-04	0.00E+00	3.64E-04	9.82E-04	0.00E+00	5.92E-05	1.48E-04	0.00E+00	3.09E-05	5.66E-05	0.00E+00
2107	599999.5	4175707	0.000354	9.54E-04	0.00E+00	3.54E-04	9.54E-04	0.00E+00	5.76E-05	1.44E-04	0.00E+00	3.01E-05	5.50E-05	0.00E+00
2108	600008.2	4175711	0.000346	9.32E-04	0.00E+00	3.46E-04	9.32E-04	0.00E+00	5.62E-05	1.41E-04	0.00E+00	2.94E-05	5.37E-05	0.00E+00
2109	600016.8	4175714	0.000341	9.19E-04	0.00E+00	3.41E-04	9.19E-04	0.00E+00	5.55E-05	1.39E-04	0.00E+00	2.89E-05	5.30E-05	0.00E+00
2110	600129.4	4175876	0.000247	6.67E-04	0.00E+00	2.47E-04	6.67E-04	0.00E+00	4.02E-05	1.01E-04	0.00E+00	2.10E-05	3.84E-05	0.00E+00
2111	600133.2	4175885	0.00024	6.47E-04	0.00E+00	2.40E-04	6.47E-04	0.00E+00	3.90E-05	9.78E-05	0.00E+00	2.04E-05	3.73E-05	0.00E+00
2112	600137	4175894	0.000233	6.29E-04	0.00E+00	2.33E-04	6.29E-04	0.00E+00	3.80E-05	9.51E-05	0.00E+00	1.98E-05	3.63E-05	0.00E+00
2113	600140.8	4175902	0.000226	6.09E-04	0.00E+00	2.26E-04	6.09E-04	0.00E+00	3.68E-05	9.21E-05	0.00E+00	1.92E-05	3.51E-05	0.00E+00
2114	600144.5	4175911	0.000219	5.89E-04	0.00E+00	2.19E-04	5.89E-04	0.00E+00	3.56E-05	8.91E-05	0.00E+00	1.86E-05	3.40E-05	0.00E+00
2115	600148.3	4175920	0.000212	5.71E-04	0.00E+00	2.12E-04	5.71E-04	0.00E+00	3.44E-05	8.63E-05	0.00E+00	1.80E-05	3.29E-05	0.00E+00
2116	600152.1	4175928	0.000205	5.53E-04	0.00E+00	2.05E-04	5.53E-04	0.00E+00	3.34E-05	8.37E-05	0.00E+00	1.74E-05	3.19E-05	0.00E+00
2117	600155.9	4175937	0.000199	5.37E-04	0.00E+00	1.99E-04	5.37E-04	0.00E+00	3.24E-05	8.11E-05	0.00E+00	1.69E-05	3.09E-05	0.00E+00
2118	600159.7	4175946	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.86E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
2119	600163.5	4175954	0.000189	5.09E-04	0.00E+00	1.89E-04	5.09E-04	0.00E+00	3.07E-05	7.70E-05	0.00E+00	1.60E-05	2.94E-05	0.00E+00
2120	600167.3	4175963	0.000186	5.00E-04	0.00E+00	1.86E-04	5.00E-04	0.00E+00	3.02E-05	7.57E-05	0.00E+00	1.58E-05	2.88E-05	0.00E+00
2121	600171.1	4175972	0.000182	4.91E-04	0.00E+00	1.82E-04	4.91E-04	0.00E+00	2.96E-05	7.42E-05	0.00E+00	1.55E-05	2.83E-05	0.00E+00
2122	600174.9	4175980	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.29E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
2123	600178.7	4175989	0.000176	4.75E-04	0.00E+00	1.76E-04	4.75E-04	0.00E+00	2.87E-05	7.19E-05	0.00E+00	1.50E-05	2.74E-05	0.00E+00
2124	600182.5	4175998	0.000176	4.74E-04	0.00E+00	1.76E-04	4.74E-04	0.00E+00	2.86E-05	7.17E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
2125	600186.3	4176006	0.000177	4.78E-04	0.00E+00	1.77E-04	4.78E-04	0.00E+00	2.89E-05	7.23E-05	0.00E+00	1.51E-05	2.76E-05	0.00E+00
2126	600190.1	4176015	0.000179	4.84E-04	0.00E+00	1.79E-04	4.84E-04	0.00E+00	2.92E-05	7.31E-05	0.00E+00	1.52E-05	2.79E-05	0.00E+00
2127	600193.9	4176024	0.000182	4.89E-04	0.00E+00	1.82E-04	4.89E-04	0.00E+00	2.95E-05	7.40E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
2128	600197.7	4176032	0.000184	4.97E-04	0.00E+00	1.84E-04	4.97E-04	0.00E+00	3.00E-05	7.52E-05	0.00E+00	1.57E-05	2.87E-05	0.00E+00
2129	600201.4	4176041	0.000187	5.05E-04	0.00E+00	1.87E-04	5.05E-04	0.00E+00	3.05E-05	7.64E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
2130	600205.2	4176050	0.000192	5.19E-04	0.00E+00	1.92E-04	5.19E-04	0.00E+00	3.13E-05	7.84E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
2131	600209	4176058	0.000201	5.41E-04	0.00E+00	2.01E-04	5.41E-04	0.00E+00	3.26E-05	8.18E-05	0.00E+00	1.70E-05	3.12E-05	0.00E+00
2132	599775.2	4175587	0.000102	2.76E-04	0.00E+00	1.02E-04	2.76E-04	0.00E+00	1.67E-05	4.18E-05	0.00E+00	8.70E-06	1.59E-05	0.00E+00
2133	599783.7	4175591	0.000115	3.10E-04	0.00E+00	1.15E-04	3.10E-04	0.00E+00	1.87E-05	4.69E-05	0.00E+00	9.77E-06	1.79E-05	0.00E+00
2134	599792.3	4175594	0.000134	3.62E-04	0.00E+00	1.34E-04	3.62E-04	0.00E+00	2.18E-05	5.47E-05	0.00E+00	1.14E-05	2.09E-05	0.00E+00
2135	599800.8	4175598	0.000159	4.29E-04	0.00E+00	1.59E-04	4.29E-04	0.00E+00	2.59E-05	6.48E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
2136	599809.4	4175602	0.000188	5.07E-04	0.00E+00	1.88E-04	5.07E-04	0.00E+00	3.06E-05	7.66E-05	0.00E+00	1.60E-05	2.92E-05	0.00E+00
2137	599817.9	4175606	0.000217	5.84E-04	0.00E+00	2.17E-04	5.84E-04	0.00E+00	3.52E-05	8.83E-05	0.00E+00	1.84E-05	3.37E-05	0.00E+00
2138	599826.5	4175610	0.000245	6.59E-04	0.00E+00	2.45E-04	6.59E-04	0.00E+00	3.98E-05	9.97E-05	0.00E+00	2.08E-05	3.80E-05	0.00E+00
2139	599835	4175613	0.000276	7.45E-04	0.00E+00	2.76E-04	7.45E-04	0.00E+00	4.49E-05	1.13E-04	0.00E+00	2.35E-05	4.29E-05	0.00E+00
2140	599843.6	4175617	0.000311	8.38E-04	0.00E+00	3.11E-04	8.38E-04	0.00E+00	5.06E-05	1.27E-04	0.00E+00	2.64E-05	4.83E-05	0.00E+00
2141	599852.1	4175621	0.000313	8.43E-04	0.00E+00	3.13E-04	8.43E-04	0.00E+00	5.09E-05	1.27E-04	0.00E+00	2.65E-05	4.86E-05	0.00E+00
2142	599860.7	4175625	0.000311	8.40E-04	0.00E+00	3.11E-04	8.40E-04	0.00E+00	5.07E-05	1.27E-04	0.00E+00	2.64E-05	4.84E-05	0.00E+00
2143	599869.2	4175628	0.000304	8.20E-04	0.00E+00	3.04E-04	8.20E-04	0.00E+00	4.95E-05	1.24E-04	0.00E+00	2.58E-05	4.73E-05	0.00E+00
2144	599877.8	4175632	0.000299	8.06E-04	0.00E+00	2.99E-04	8.06E-04	0.00E+00	4.86E-05	1.22E-04	0.00E+00	2.54E-05	4.65E-05	0.00E+00
2145	599886.3	4175636	0.000297	8.00E-04	0.00E+00	2.97E-04	8.00E-04	0.00E+00	4.82E-05	1.21E-04	0.00E+00	2.52E-05	4.61E-05	0.00E+00
2146	599894.8	4175640	0.000294	7.94E-04	0.00E+00	2.94E-04	7.94E-04	0.00E+00	4.79E-05	1.20E-04	0.00E+00	2.50E-05	4.57E-05	0.00E+00
2147	599903.4	4175644	0.000292	7.88E-04	0.00E+00	2.92E-04	7.88E-04	0.00E+00	4.75E-05	1.19E-04	0.00E+00	2.48E-05	4.54E-05	0.00E+00
2148	599911.9	4175647	0.000301	8.11E-04	0.00E+00	3.01E-04	8.11E-04	0.00E+00	4.89E-05	1.23E-04	0.00E+00	2.55E-05	4.67E-05	0.00E+00
2149	599920.5	4175651	0.000311	8.40E-04	0.00E+00	3.11E-04	8.40E-04	0.00E+00	5.07E-05	1.27E-04	0.00E+00	2.64E-05	4.84E-05	0.00E+00
2150	599929	4175655	0.000324	8.72E-04	0.00E+00	3.24E-04	8.72E-04	0.00E+00	5.26E-05	1.32E-04	0.00E+00	2.75E-05	5.03E-05	0.00E+00
2151	599937.6	4175659	0.000339	9.15E-04	0.00E+00	3.39E-04	9.15E-04	0.00E+00	5.52E-05	1.38E-04	0.00E+00	2.88E-05	5.27E-05	0.00E+00
2152	599946.1	4175663	0.000357	9.63E-04	0.00E+00	3.57E-04	9.63E-04	0.00E+00	5.81E-05	1.46E-04	0.00E+00	3.03E-05	5.55E-05	0.00E+00
2153	599954.7	4175666	0.000376	1.01E-03	0.00E+00	3.76E-04	1.01E-03	0.00E+00	6.12E-05	1.53E-04	0.00E+00	3.20E-05	5.85E-05	0.00E+00
2154	599963.2	4175670	0.000396	1.07E-03	0.00E+00	3.96E-04	1.07E-03	0.00E+00	6.45E-05	1.62E-04	0.00E+00	3.36E-05	6.16E-05	0.00E+00
2155	599971.8	4175674	0.000388	1.05E-03	0.00E+00	3.88E-04	1.05E-03	0.00E+00	6.31E-05	1.58E-04	0.00E+00	3.29E-05	6.03E-05	0.00E+00
2156	599980.3	4175678	0.000378	1.02E-03	0.00E+00	3.78E-04	1.02E-03	0.00E+00	6.16E-05	1.54E-04	0.00E+00	3.21E-05	5.88E-05	0.00E+00
2157	599988.9	4175682	0.000369	9.95E-04	0.00E+00	3.69E-04	9.95E-04	0.00E+00	6.00E-05	1.50E-04	0.00E+00	3.13E-05	5.73E-05	0.00E+00
2158	599997.4	4175685	0.000355	9.58E-04	0.00E+00	3.55E-04	9.58E-04	0.00E+00	5.78E-05	1.45E-04	0.00E+00	3.02E-05	5.52E-05	0.00E+00
2159	600006	4175689	0.000336	9.06E-04	0.00E+00	3.36E-04	9.06E-04	0.00E+00	5.47E-05	1.37E-04	0.00E+00	2.85E-05	5.22E-05	0.00E+00
2160	600014.5	4175693	0.000323	8.70E-04	0.00E+00	3.23E-04	8.70E-04	0.00E+00	5.25E-05	1.32E-04	0.00E+00	2.74E-05	5.01E-05	0.00E+00
2161	600023	4175697	0.000313	8.45E-04	0.00E+00	3.13E-04	8.45E-04	0.00E+00	5.10E-05	1.28E-04	0.00E+00	2.66E-05	4.87E-05	0.00E+00
2162	600139.1	4175852	0.000234	6.32E-04	0.00E+00	2.34E-04	6.32E-04	0.00E+00	3.81E-05	9.56E-05	0.00E+00	1.99E-05	3.64E-05	0.00E+00
2163	600142.9	4175860	0.000235	6.34E-04	0.00E+00	2.35E-04	6.34E-04	0.00E+00	3.82E-05	9.58E-05	0.00E+00	2.00E-05	3.65E-05	0.00E+00
2164	600146.6	4175869	0.000232	6.26E-04	0.00E+00	2.32E-04	6.26E-04	0.00E+00	3.78E-05	9.47E-05	0.00E+00	1.97E-05	3.61E-05	0.00E+00
2165	600150.4	4175878	0.000226	6.11E-04	0.00E+00	2.26E-04	6.11E-04	0.00E+00	3.68E-05	9.23E-05	0.00E+00	1.92E-05	3.52E-05	0.00E+00
2166	600154.1	4175886	0.000222	5.98E-04	0.00E+00	2.22E-04	5.98E-04	0.00E+00	3.61E-05	9.04E-05	0.00E+00	1.88E-05	3.44E-05	0.00E+00
2167	600157.9	4175895	0.000218	5.87E-04	0.00E+00	2.18E-04	5.87E-04	0.00E+00	3.54E-05	8.88E-05	0.00E+00	1.85E-05	3.39E-05	0.00E+00
2168	600161.6	4175903	0.000212	5.71E-04	0.00E+00	2.12E-04	5.71E-04	0.00E+00	3.44E-05	8.63E-05	0.00E+00	1.80E-05	3.29E-05	0.00E+00
2169	600165.4	4175912	0.000205	5.54E-04	0.00E+00	2.05E-04	5.54E-04	0.00E+00	3.34E-05	8.37E-05	0.00E+00	1.74E-05	3.19E-05	0.00E+00
2170	600169.1	4175920	0.000199	5.37E-04	0.00E+00	1.99E-04	5.37E-04	0.00E+00	3.24E-05	8.13E-05	0.00E+00	1.69E-05	3.10E-05	0.00E+00
2171	600172.9	4175929	0.000193	5.21E-04	0.00E+00	1.93E-04	5.21E-04	0.00E+00	3.14E-05	7.88E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
2172	600176.6	4175938	0.000187	5.03E-04	0.00E+00	1.87E-04	5.03E-04	0.00E+00	3.04E-05	7.61E-05	0.00E+00	1.59E-05	2.90E-05	0.00E+00
2173	600180.4	4175946	0.000181	4.87E-04	0.00E+00	1.81E-04	4.87E-04	0.00E+00	2.94E-05	7.37E-05	0.00E+00	1.54E-05	2.81E-05	0.00E+00
2174	600184.1	4175955	0.000178	4.81E-04	0.00E+00	1.78E-04	4.81E-04	0.00E+00	2.90E-05	7.27E-05	0.00E+00	1.51E-05	2.77E-05	0.00E+00
2175	600187.9	4175963	0.000176	4.74E-04	0.00E+00	1.76E-04	4.74E-04	0.00E+00	2.86E-05	7.16E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
2176	600191.6	4175972	0.000172	4.64E-04	0.00E+00	1.72E-04	4.64E-04	0.00E+00	2.80E-05	7.01E-05	0.00E+00	1.46E-05	2.67E-05	0.00E+00
2177	600195.4	4175980	0.00017	4.59E-04	0.00E+00	1.70E-04	4.59E-04	0.00E+00	2.77E-05	6.94E-05	0.00E+00	1.44E-05	2.64E-05	0.00E+00
2178	600199.1	4175989	0.00017	4.59E-04	0.00E+00	1.70E-04	4.59E-04	0.00E+00	2.77E-05	6.94E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
2179	600202.9	4175998	0.000172	4.64E-04	0.00E+00	1.72E-04	4.64E-04	0.00E+00	2.80E-05	7.02E-05	0.00E+00	1.46E-05	2.67E-05	0.00E+00
2180	600206.6	4176006	0.000174	4.70E-04	0.00E+00	1.74E-04	4.70E-04	0.00E+00	2.84E-05	7.11E-05	0.00E+00	1.48E-05	2.71E-05	0.00E+00
2181	600210.4	4176015	0.000177	4.77E-04	0.00E+00	1.77E-04	4.77E-04	0.00E+00	2.88E-05	7.21E-05	0.00E+00	1.50E-05	2.75E-05	0.00E+00

2182	600214.1	4176023	0.00018	4.85E-04	0.00E+00		1.80E-04	4.85E-04	0.00E+00		2.93E-05	7.33E-05	0.00E+00		1.53E-05	2.79E-05	0.00E+00
2183	600217.9	4176032	0.000183	4.94E-04	0.00E+00		1.83E-04	4.94E-04	0.00E+00		2.98E-05	7.47E-05	0.00E+00		1.56E-05	2.85E-05	0.00E+00
2184	600221.6	4176040	0.000188	5.06E-04	0.00E+00		1.88E-04	5.06E-04	0.00E+00		3.05E-05	7.65E-05	0.00E+00		1.59E-05	2.92E-05	0.00E+00
2185	600225.4	4176049	0.000193	5.22E-04	0.00E+00		1.93E-04	5.22E-04	0.00E+00		3.15E-05	7.89E-05	0.00E+00		1.64E-05	3.01E-05	0.00E+00
2186	600229.1	4176058	0.000201	5.43E-04	0.00E+00		2.01E-04	5.43E-04	0.00E+00		3.28E-05	8.21E-05	0.00E+00		1.71E-05	3.13E-05	0.00E+00
2187	600232.8	4176066	0.000211	5.68E-04	0.00E+00		2.11E-04	5.68E-04	0.00E+00		3.43E-05	8.59E-05	0.00E+00		1.79E-05	3.27E-05	0.00E+00
2188	599768.1	4175563	0.000113	3.05E-04	0.00E+00		1.13E-04	3.05E-04	0.00E+00		1.84E-05	4.61E-05	0.00E+00		9.59E-06	1.76E-05	0.00E+00
2189	599776.7	4175567	0.000124	3.34E-04	0.00E+00		1.24E-04	3.34E-04	0.00E+00		2.01E-05	5.04E-05	0.00E+00		1.05E-05	1.92E-05	0.00E+00
2190	599785.4	4175571	0.000136	3.66E-04	0.00E+00		1.36E-04	3.66E-04	0.00E+00		2.21E-05	5.54E-05	0.00E+00		1.15E-05	2.11E-05	0.00E+00
2191	599794	4175575	0.000152	4.09E-04	0.00E+00		1.52E-04	4.09E-04	0.00E+00		2.47E-05	6.18E-05	0.00E+00		1.29E-05	2.36E-05	0.00E+00
2192	599802.7	4175579	0.000172	4.63E-04	0.00E+00		1.72E-04	4.63E-04	0.00E+00		2.80E-05	7.01E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
2193	599811.3	4175582	0.000197	5.30E-04	0.00E+00		1.97E-04	5.30E-04	0.00E+00		3.20E-05	8.02E-05	0.00E+00		1.67E-05	3.06E-05	0.00E+00
2194	599820	4175586	0.00022	5.94E-04	0.00E+00		2.20E-04	5.94E-04	0.00E+00		3.58E-05	8.98E-05	0.00E+00		1.87E-05	3.42E-05	0.00E+00
2195	599828.7	4175590	0.000245	6.60E-04	0.00E+00		2.45E-04	6.60E-04	0.00E+00		3.98E-05	9.99E-05	0.00E+00		2.08E-05	3.81E-05	0.00E+00
2196	599837.3	4175594	0.000273	7.35E-04	0.00E+00		2.73E-04	7.35E-04	0.00E+00		4.44E-05	1.11E-04	0.00E+00		2.31E-05	4.24E-05	0.00E+00
2197	599846	4175598	0.000296	7.98E-04	0.00E+00		2.96E-04	7.98E-04	0.00E+00		4.81E-05	1.21E-04	0.00E+00		2.51E-05	4.60E-05	0.00E+00
2198	599854.6	4175602	0.000303	8.18E-04	0.00E+00		3.03E-04	8.18E-04	0.00E+00		4.93E-05	1.24E-04	0.00E+00		2.58E-05	4.71E-05	0.00E+00
2199	599863.3	4175605	0.000309	8.32E-04	0.00E+00		3.09E-04	8.32E-04	0.00E+00		5.02E-05	1.26E-04	0.00E+00		2.62E-05	4.80E-05	0.00E+00
2200	599871.9	4175609	0.000312	8.40E-04	0.00E+00		3.12E-04	8.40E-04	0.00E+00		5.07E-05	1.27E-04	0.00E+00		2.65E-05	4.84E-05	0.00E+00
2201	599880.6	4175613	0.000312	8.42E-04	0.00E+00		3.12E-04	8.42E-04	0.00E+00		5.08E-05	1.27E-04	0.00E+00		2.65E-05	4.86E-05	0.00E+00
2202	599889.3	4175617	0.000313	8.44E-04	0.00E+00		3.13E-04	8.44E-04	0.00E+00		5.09E-05	1.28E-04	0.00E+00		2.66E-05	4.87E-05	0.00E+00
2203	599897.9	4175621	0.000313	8.45E-04	0.00E+00		3.13E-04	8.45E-04	0.00E+00		5.10E-05	1.28E-04	0.00E+00		2.66E-05	4.87E-05	0.00E+00
2204	599906.6	4175625	0.000316	8.51E-04	0.00E+00		3.16E-04	8.51E-04	0.00E+00		5.14E-05	1.29E-04	0.00E+00		2.68E-05	4.91E-05	0.00E+00
2205	599915.2	4175629	0.000322	8.67E-04	0.00E+00		3.22E-04	8.67E-04	0.00E+00		5.23E-05	1.31E-04	0.00E+00		2.73E-05	5.00E-05	0.00E+00
2206	599923.9	4175632	0.000328	8.85E-04	0.00E+00		3.28E-04	8.85E-04	0.00E+00		5.34E-05	1.34E-04	0.00E+00		2.79E-05	5.10E-05	0.00E+00
2207	599932.6	4175636	0.000337	9.07E-04	0.00E+00		3.37E-04	9.07E-04	0.00E+00		5.47E-05	1.37E-04	0.00E+00		2.86E-05	5.23E-05	0.00E+00
2208	599941.2	4175640	0.00034	9.18E-04	0.00E+00		3.40E-04	9.18E-04	0.00E+00		5.54E-05	1.39E-04	0.00E+00		2.89E-05	5.29E-05	0.00E+00
2209	599949.9	4175644	0.000348	9.38E-04	0.00E+00		3.48E-04	9.38E-04	0.00E+00		5.66E-05	1.42E-04	0.00E+00		2.95E-05	5.41E-05	0.00E+00
2210	599958.5	4175648	0.00036	9.71E-04	0.00E+00		3.60E-04	9.71E-04	0.00E+00		5.86E-05	1.47E-04	0.00E+00		3.06E-05	5.59E-05	0.00E+00
2211	599967.2	4175652	0.000368	9.92E-04	0.00E+00		3.68E-04	9.92E-04	0.00E+00		5.99E-05	1.50E-04	0.00E+00		3.12E-05	5.72E-05	0.00E+00
2212	599975.8	4175655	0.000361	9.75E-04	0.00E+00		3.61E-04	9.75E-04	0.00E+00		5.88E-05	1.47E-04	0.00E+00		3.07E-05	5.62E-05	0.00E+00
2213	599984.5	4175659	0.000353	9.51E-04	0.00E+00		3.53E-04	9.51E-04	0.00E+00		5.74E-05	1.44E-04	0.00E+00		3.00E-05	5.48E-05	0.00E+00
2214	599993.2	4175663	0.000344	9.28E-04	0.00E+00		3.44E-04	9.28E-04	0.00E+00		5.60E-05	1.40E-04	0.00E+00		2.92E-05	5.35E-05	0.00E+00
2215	600001.8	4175667	0.00033	8.89E-04	0.00E+00		3.30E-04	8.89E-04	0.00E+00		5.36E-05	1.34E-04	0.00E+00		2.80E-05	5.12E-05	0.00E+00
2216	600010.5	4175671	0.000315	8.49E-04	0.00E+00		3.15E-04	8.49E-04	0.00E+00		5.12E-05	1.28E-04	0.00E+00		2.67E-05	4.89E-05	0.00E+00
2217	600019.1	4175675	0.000301	8.12E-04	0.00E+00		3.01E-04	8.12E-04	0.00E+00		4.90E-05	1.23E-04	0.00E+00		2.56E-05	4.68E-05	0.00E+00
2218	600027.8	4175679	0.000289	7.79E-04	0.00E+00		2.89E-04	7.79E-04	0.00E+00		4.70E-05	1.18E-04	0.00E+00		2.45E-05	4.49E-05	0.00E+00
2219	600154	4175839	0.000212	5.73E-04	0.00E+00		2.12E-04	5.73E-04	0.00E+00		3.46E-05	8.66E-05	0.00E+00		1.80E-05	3.30E-05	0.00E+00
2220	600157.8	4175848	0.000212	5.73E-04	0.00E+00		2.12E-04	5.73E-04	0.00E+00		3.45E-05	8.66E-05	0.00E+00		1.80E-05	3.30E-05	0.00E+00
2221	600161.6	4175857	0.000212	5.71E-04	0.00E+00		2.12E-04	5.71E-04	0.00E+00		3.45E-05	8.63E-05	0.00E+00		1.80E-05	3.29E-05	0.00E+00
2222	600165.4	4175866	0.000211	5.68E-04	0.00E+00		2.11E-04	5.68E-04	0.00E+00		3.43E-05	8.59E-05	0.00E+00		1.79E-05	3.28E-05	0.00E+00
2223	600169.2	4175874	0.000208	5.61E-04	0.00E+00		2.08E-04	5.61E-04	0.00E+00		3.39E-05	8.49E-05	0.00E+00		1.77E-05	3.23E-05	0.00E+00
2224	600173	4175883	0.000206	5.56E-04	0.00E+00		2.06E-04	5.56E-04	0.00E+00		3.35E-05	8.41E-05	0.00E+00		1.75E-05	3.20E-05	0.00E+00
2225	600176.8	4175892	0.000204	5.49E-04	0.00E+00		2.04E-04	5.49E-04	0.00E+00		3.31E-05	8.30E-05	0.00E+00		1.73E-05	3.16E-05	0.00E+00
2226	600180.6	4175900	0.000198	5.35E-04	0.00E+00		1.98E-04	5.35E-04	0.00E+00		3.23E-05	8.09E-05	0.00E+00		1.68E-05	3.08E-05	0.00E+00
2227	600184.4	4175909	0.000192	5.17E-04	0.00E+00		1.92E-04	5.17E-04	0.00E+00		3.12E-05	7.82E-05	0.00E+00		1.63E-05	2.98E-05	0.00E+00
2228	600188.2	4175918	0.000186	5.00E-04	0.00E+00		1.86E-04	5.00E-04	0.00E+00		3.02E-05	7.57E-05	0.00E+00		1.58E-05	2.88E-05	0.00E+00
2229	600192	4175926	0.00018	4.85E-04	0.00E+00		1.80E-04	4.85E-04	0.00E+00		2.93E-05	7.34E-05	0.00E+00		1.53E-05	2.80E-05	0.00E+00
2230	600195.8	4175935	0.000175	4.72E-04	0.00E+00		1.75E-04	4.72E-04	0.00E+00		2.85E-05	7.13E-05	0.00E+00		1.49E-05	2.72E-05	0.00E+00
2231	600199.6	4175944	0.000172	4.63E-04	0.00E+00		1.72E-04	4.63E-04	0.00E+00		2.79E-05	6.99E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
2232	600203.4	4175952	0.000169	4.55E-04	0.00E+00		1.69E-04	4.55E-04	0.00E+00		2.74E-05	6.88E-05	0.00E+00		1.43E-05	2.62E-05	0.00E+00
2233	600207.2	4175961	0.000166	4.49E-04	0.00E+00		1.66E-04	4.49E-04	0.00E+00		2.71E-05	6.79E-05	0.00E+00		1.41E-05	2.59E-05	0.00E+00
2234	600211	4175970	0.000165	4.44E-04	0.00E+00		1.65E-04	4.44E-04	0.00E+00		2.68E-05	6.72E-05	0.00E+00		1.40E-05	2.56E-05	0.00E+00
2235	600214.8	4175978	0.000165	4.45E-04	0.00E+00		1.65E-04	4.45E-04	0.00E+00		2.69E-05	6.73E-05	0.00E+00		1.40E-05	2.56E-05	0.00E+00
2236	600218.6	4175987	0.000166	4.47E-04	0.00E+00		1.66E-04	4.47E-04	0.00E+00		2.70E-05	6.77E-05	0.00E+00		1.41E-05	2.58E-05	0.00E+00
2237	600222.4	4175996	0.000168	4.54E-04	0.00E+00		1.68E-04	4.54E-04	0.00E+00		2.74E-05	6.86E-05	0.00E+00		1.43E-05	2.61E-05	0.00E+00
2238	600226.2	4176004	0.000171	4.60E-04	0.00E+00		1.71E-04	4.60E-04	0.00E+00		2.78E-05	6.96E-05	0.00E+00		1.45E-05	2.65E-05	0.00E+00
2239	600230	4176013	0.000174	4.69E-04	0.00E+00		1.74E-04	4.69E-04	0.00E+00		2.83E-05	7.08E-05	0.00E+00		1.48E-05	2.70E-05	0.00E+00
2240	600233.8	4176022	0.000178	4.79E-04	0.00E+00		1.78E-04	4.79E-04	0.00E+00		2.89E-05	7.25E-05	0.00E+00		1.51E-05	2.76E-05	0.00E+00
2241	600237.6	4176030	0.00018	4.86E-04	0.00E+00		1.80E-04	4.86E-04	0.00E+00		2.93E-05	7.35E-05	0.00E+00		1.53E-05	2.80E-05	0.00E+00
2242	600241.4	4176039	0.000183	4.94E-04	0.00E+00		1.83E-04	4.94E-04	0.00E+00		2.98E-05	7.48E-05	0.00E+00		1.56E-05	2.85E-05	0.00E+00
2243	600245.2	4176048	0.000187	5.03E-04	0.00E+00		1.87E-04	5.03E-04	0.00E+00		3.04E-05	7.61E-05	0.00E+00		1.59E-05	2.90E-05	0.00E+00
2244	600249	4176056	0.00019	5.14E-04	0.00E+00		1.90E-04	5.14E-04	0.00E+00		3.10E-05	7.77E-05	0.00E+00		1.62E-05	2.96E-05	0.00E+00
2245	600252.8	4176065	0.000195	5.25E-04	0.00E+00		1.95E-04	5.25E-04	0.00E+00		3.17E-05	7.94E-05	0.00E+00		1.65E-05	3.03E-05	0.00E+00
2246	599760.1	4175539	0.000129	3.49E-04	0.00E+00		1.29E-04	3.49E-04	0.00E+00		2.10E-05	5.27E-05	0.00E+00		1.10E-05	2.01E-05	0.00E+00
2247	599768.6	4175543	0.00013	3.51E-04	0.00E+00		1.30E-04	3.51E-04	0.00E+00		2.12E-05	5.31E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
2248	599777.2	4175547	0.000135	3.63E-04	0.00E+00		1.35E-04	3.63E-04	0.00E+00		2.19E-05	5.48E-05	0.00E+00		1.14E-05	2.09E-05	0.00E+00
2249	599785.8	4175551	0.000144	3.87E-04	0.00E+00		1.44E-04	3.87E-04	0.00E+00		2.34E-05	5.86E-05	0.00E+00		1.22E-05	2.23E-05	0.00E+00
2250	599794.3	4175554	0.00016	4.30E-04	0.00E+00		1.60E-04	4.30E-04	0.00E+00		2.60E-05	6.50E-05	0.00E+00		1.35E-05	2.48E-05	0.00E+00
2251	599802.9	4175558	0.000177	4.77E-04	0.00E+00		1.77E-04	4.77E-04	0.00E+00		2.88E-05	7.22E-05	0.00E+00		1.50E-05	2.75E-05	0.00E+00
2252	599811.5	4175562	0.000196	5.28E-04	0.00E+00		1.96E-04	5.28E-04	0.00E+00		3.19E-05	7.99E-05	0.00E+00		1.66E-05	3.04E-05	0.00E+00
2253	599820	4175566	0.000213	5.74E-04	0.00E+00		2.13E-04	5.74E-04	0.00E+00		3.46E-05	8.68E-05	0.00E+00		1.81E-05	3.31E-05	0.00E+00
2254	599828.6	4175570	0.000231	6.24E-04	0.00E+00		2.31E-04	6.24E-04	0.00E+00		3.76E-05	9.43E-05	0.00E+00		1.96E-05	3.59E-05	0.00E+00
2255	599837.2	4175573	0.000252	6.79E-04	0.00E+00		2.52E-04	6.79E-04	0.00E+00		4.10E-05	1.03E-04	0.00E+00		2.14E-05	3.91E-05	0.00E+00
2256	599845.7	4175577	0.00027	7.29E-04	0.00E+00		2.70E-04	7.29E-04	0.00E+00		4.40E-05	1.10E-04	0.00E+00		2.30E-05	4.20E-05	0.00E+00
2257	599854.3	4175581	0.000278	7.49E-04	0.00E+00		2.78E-04	7.49E-04	0.00E+00		4.52E-05	1.13E-04	0.00E+00		2.36E-05	4.32E-05	0.00E+00
2258	599862.9	4175585	0.000287	7.75E-04	0.00E+00		2.87E-04	7.75E-04	0.00E+00		4.68E-05	1.17E-04	0.00E+00		2.44E-05	4.47E-05	0.00E+00
2259	599871.4	4175589	0.000299	8.06E-04	0.00E+00		2.99E-04	8.06E-04	0.00E+00		4.86E-05	1.22E-04	0.00E+00		2.54E-05	4.65E-05	0.00E+00
2260	599880	4175592	0.000308	8.31E-04	0.00E+00		3.08E-04	8.31E-04	0.00E+00		5.01E-05	1.26E-04	0.00E+00		2.62E-05	4.79E-05	0.00E+00
2261	599888.5	4175596	0.000318	8.58E-04	0.00E+00		3.18E-04	8.58E-04	0.00E+00		5.18E-05	1.30E-04	0.00E+00		2.70E-05	4.95E-05	0.00E+00
2262	599897.1	4175600	0.00032	8.62E-04	0.00E+00		3.20E-04	8.62E-04	0.00E+00		5.20E-05	1.30E-04	0.00E+00		2.72E-05	4.97E-05	0.00E+00
2263	599905.7	4175604	0.000317	8.56E-04	0.00E+00		3.17E-04	8.56E-04	0.00E+00		5.16E-05	1.29E-04	0.00E+00		2.70E-05	4.93E-05	0.00E+00
2264	599914.2	4175608	0.000307	8.29E-04	0.00E+00		3.07E-04	8.29E-04	0.00E+00		5.00E-05	1.25E-04	0.00E+00		2.61E-05	4.78E-05	0.00E+00
2265	599922.8	4175612	0.000304	8.21E-04	0.00E+00		3.04E-04	8.21E-04	0.00E+00		4.95E-05	1.24E-04	0.00E+00		2.58E-05	4.73E-05	0.00E+00
2266	599931.4	4175615	0.000309	8.32E-04	0.00E+00		3.09E-04	8.32E-04	0.00E+00		5.02E-05	1.26E-04	0.00E+00		2.62E-05	4.80E-05	0.00E+00
2267	599939.9	4175619	0.000318	8.56E-04	0.00E+00		3.18E-04	8.56E-04	0.00E+00		5.17E-05	1.29E-04	0.00E+00		2.70E-05	4.93E-05	0.00E+00
2268	599948.5	4175623	0.000325	8.77E-04	0.00E+00		3.25E-04	8.77E-04	0.00E+00		5.29E-05	1.33E-04	0.00E+00		2.76E-05	5.05E-05	0.00E+00
2269	599957.1	4175627	0.00033	8.90E-04	0.00E+00		3.30E-04	8.90E-04	0.00E+00		5.37E-05	1.35E-04	0.00E+00		2.80E-05	5.13E-05	0.00E+00
2270	599965.6	4175631	0.000335	9.02E-04	0.00E+00		3.35E-04	9.02E-04	0.00E+00		5.44E-05	1.36E-04	0.00E+00		2.84E-05	5.20E-05	0.00E+00
2271	599974.2	4175634	0.000342	9.23E-04	0.00E+00		3.42E-04	9.23E-04	0.00E+00		5.57E-05	1.40E-04	0.00E+00		2.91E-05	5.32E-05	0.00E+00
2272	599982.8	4175638	0.000345	9.31E-04	0.00E+00		3.45E-04	9.31E-04	0.00E+00		5.62E-05	1.41E-04	0.00E+00		2.93E-05	5.37E-05	0.00E+00

2273	599991.3	4175642	0.000343	9.25E-04	0.00E+00	3.43E-04	9.25E-04	0.00E+00	5.58E-05	1.40E-04	0.00E+00	2.91E-05	5.33E-05	0.00E+00
2274	599999.9	4175646	0.000333	8.99E-04	0.00E+00	3.33E-04	8.99E-04	0.00E+00	5.42E-05	1.36E-04	0.00E+00	2.83E-05	5.18E-05	0.00E+00
2275	600008.5	4175650	0.000318	8.58E-04	0.00E+00	3.18E-04	8.58E-04	0.00E+00	5.18E-05	1.30E-04	0.00E+00	2.70E-05	4.94E-05	0.00E+00
2276	600017	4175653	0.0003	8.09E-04	0.00E+00	3.00E-04	8.09E-04	0.00E+00	4.88E-05	1.22E-04	0.00E+00	2.55E-05	4.66E-05	0.00E+00
2277	600025.6	4175657	0.000285	7.69E-04	0.00E+00	2.85E-04	7.69E-04	0.00E+00	4.64E-05	1.16E-04	0.00E+00	2.42E-05	4.43E-05	0.00E+00
2278	600034.1	4175661	0.00028	7.55E-04	0.00E+00	2.80E-04	7.55E-04	0.00E+00	4.56E-05	1.14E-04	0.00E+00	2.38E-05	4.35E-05	0.00E+00
2279	600163.8	4175815	0.000202	5.45E-04	0.00E+00	2.02E-04	5.45E-04	0.00E+00	3.29E-05	8.24E-05	0.00E+00	1.72E-05	3.14E-05	0.00E+00
2280	600167.6	4175824	0.000199	5.37E-04	0.00E+00	1.99E-04	5.37E-04	0.00E+00	3.24E-05	8.12E-05	0.00E+00	1.69E-05	3.10E-05	0.00E+00
2281	600171.4	4175833	0.000196	5.28E-04	0.00E+00	1.96E-04	5.28E-04	0.00E+00	3.18E-05	7.98E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
2282	600175.1	4175841	0.000194	5.24E-04	0.00E+00	1.94E-04	5.24E-04	0.00E+00	3.16E-05	7.92E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
2283	600178.9	4175850	0.000194	5.23E-04	0.00E+00	1.94E-04	5.23E-04	0.00E+00	3.16E-05	7.91E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
2284	600182.6	4175858	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.86E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
2285	600186.4	4175867	0.000191	5.14E-04	0.00E+00	1.91E-04	5.14E-04	0.00E+00	3.10E-05	7.77E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00
2286	600190.1	4175876	0.000188	5.08E-04	0.00E+00	1.88E-04	5.08E-04	0.00E+00	3.07E-05	7.68E-05	0.00E+00	1.60E-05	2.93E-05	0.00E+00
2287	600193.9	4175884	0.000186	5.01E-04	0.00E+00	1.86E-04	5.01E-04	0.00E+00	3.02E-05	7.58E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
2288	600197.7	4175893	0.000183	4.94E-04	0.00E+00	1.83E-04	4.94E-04	0.00E+00	2.98E-05	7.46E-05	0.00E+00	1.55E-05	2.84E-05	0.00E+00
2289	600201.4	4175901	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.29E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
2290	600205.2	4175910	0.000174	4.70E-04	0.00E+00	1.74E-04	4.70E-04	0.00E+00	2.83E-05	7.10E-05	0.00E+00	1.48E-05	2.71E-05	0.00E+00
2291	600208.9	4175918	0.00017	4.59E-04	0.00E+00	1.70E-04	4.59E-04	0.00E+00	2.77E-05	6.94E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
2292	600212.7	4175927	0.000167	4.49E-04	0.00E+00	1.67E-04	4.49E-04	0.00E+00	2.71E-05	6.79E-05	0.00E+00	1.41E-05	2.59E-05	0.00E+00
2293	600216.4	4175936	0.000164	4.41E-04	0.00E+00	1.64E-04	4.41E-04	0.00E+00	2.66E-05	6.67E-05	0.00E+00	1.39E-05	2.54E-05	0.00E+00
2294	600220.2	4175944	0.000164	4.41E-04	0.00E+00	1.64E-04	4.41E-04	0.00E+00	2.66E-05	6.67E-05	0.00E+00	1.39E-05	2.54E-05	0.00E+00
2295	600224	4175953	0.000161	4.35E-04	0.00E+00	1.61E-04	4.35E-04	0.00E+00	2.63E-05	6.58E-05	0.00E+00	1.37E-05	2.51E-05	0.00E+00
2296	600227.7	4175961	0.000158	4.27E-04	0.00E+00	1.58E-04	4.27E-04	0.00E+00	2.58E-05	6.46E-05	0.00E+00	1.35E-05	2.46E-05	0.00E+00
2297	600231.5	4175970	0.000159	4.30E-04	0.00E+00	1.59E-04	4.30E-04	0.00E+00	2.59E-05	6.50E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
2298	600235.2	4175979	0.00016	4.33E-04	0.00E+00	1.60E-04	4.33E-04	0.00E+00	2.61E-05	6.54E-05	0.00E+00	1.36E-05	2.49E-05	0.00E+00
2299	600239	4175987	0.000161	4.35E-04	0.00E+00	1.61E-04	4.35E-04	0.00E+00	2.63E-05	6.58E-05	0.00E+00	1.37E-05	2.51E-05	0.00E+00
2300	600242.7	4175996	0.000163	4.39E-04	0.00E+00	1.63E-04	4.39E-04	0.00E+00	2.65E-05	6.64E-05	0.00E+00	1.38E-05	2.53E-05	0.00E+00
2301	600246.5	4176004	0.000164	4.43E-04	0.00E+00	1.64E-04	4.43E-04	0.00E+00	2.67E-05	6.70E-05	0.00E+00	1.40E-05	2.55E-05	0.00E+00
2302	600250.3	4176013	0.000166	4.48E-04	0.00E+00	1.66E-04	4.48E-04	0.00E+00	2.70E-05	6.78E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
2303	600254	4176021	0.000169	4.54E-04	0.00E+00	1.69E-04	4.54E-04	0.00E+00	2.74E-05	6.87E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
2304	600257.8	4176030	0.00017	4.60E-04	0.00E+00	1.70E-04	4.60E-04	0.00E+00	2.77E-05	6.95E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
2305	600261.5	4176039	0.000173	4.66E-04	0.00E+00	1.73E-04	4.66E-04	0.00E+00	2.81E-05	7.04E-05	0.00E+00	1.47E-05	2.68E-05	0.00E+00
2306	600265.3	4176047	0.000175	4.72E-04	0.00E+00	1.75E-04	4.72E-04	0.00E+00	2.85E-05	7.13E-05	0.00E+00	1.49E-05	2.72E-05	0.00E+00
2307	600269	4176056	0.000177	4.78E-04	0.00E+00	1.77E-04	4.78E-04	0.00E+00	2.88E-05	7.23E-05	0.00E+00	1.50E-05	2.75E-05	0.00E+00
2308	600272.8	4176064	0.000179	4.83E-04	0.00E+00	1.79E-04	4.83E-04	0.00E+00	2.92E-05	7.31E-05	0.00E+00	1.52E-05	2.79E-05	0.00E+00
2309	599761.3	4175519	0.00013	3.49E-04	0.00E+00	1.30E-04	3.49E-04	0.00E+00	2.11E-05	5.28E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
2310	599770	4175523	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
2311	599778.7	4175527	0.000135	3.65E-04	0.00E+00	1.35E-04	3.65E-04	0.00E+00	2.20E-05	5.52E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
2312	599787.3	4175531	0.000145	3.92E-04	0.00E+00	1.45E-04	3.92E-04	0.00E+00	2.36E-05	5.92E-05	0.00E+00	1.23E-05	2.26E-05	0.00E+00
2313	599796	4175535	0.000164	4.42E-04	0.00E+00	1.64E-04	4.42E-04	0.00E+00	2.67E-05	6.68E-05	0.00E+00	1.39E-05	2.55E-05	0.00E+00
2314	599804.7	4175539	0.000181	4.89E-04	0.00E+00	1.81E-04	4.89E-04	0.00E+00	2.95E-05	7.39E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
2315	599813.4	4175542	0.000199	5.35E-04	0.00E+00	1.99E-04	5.35E-04	0.00E+00	3.23E-05	8.10E-05	0.00E+00	1.69E-05	3.09E-05	0.00E+00
2316	599822	4175546	0.00021	5.67E-04	0.00E+00	2.10E-04	5.67E-04	0.00E+00	3.42E-05	8.57E-05	0.00E+00	1.78E-05	3.26E-05	0.00E+00
2317	599830.7	4175550	0.000224	6.03E-04	0.00E+00	2.24E-04	6.03E-04	0.00E+00	3.64E-05	9.12E-05	0.00E+00	1.90E-05	3.47E-05	0.00E+00
2318	599839.4	4175554	0.000239	6.45E-04	0.00E+00	2.39E-04	6.45E-04	0.00E+00	3.89E-05	9.75E-05	0.00E+00	2.03E-05	3.72E-05	0.00E+00
2319	599848	4175558	0.000249	6.72E-04	0.00E+00	2.49E-04	6.72E-04	0.00E+00	4.06E-05	1.02E-04	0.00E+00	2.12E-05	3.87E-05	0.00E+00
2320	599856.7	4175562	0.000253	6.83E-04	0.00E+00	2.53E-04	6.83E-04	0.00E+00	4.12E-05	1.03E-04	0.00E+00	2.15E-05	3.94E-05	0.00E+00
2321	599865.4	4175566	0.000258	6.96E-04	0.00E+00	2.58E-04	6.96E-04	0.00E+00	4.20E-05	1.05E-04	0.00E+00	2.19E-05	4.01E-05	0.00E+00
2322	599874	4175569	0.000265	7.14E-04	0.00E+00	2.65E-04	7.14E-04	0.00E+00	4.31E-05	1.08E-04	0.00E+00	2.25E-05	4.11E-05	0.00E+00
2323	599882.7	4175573	0.000262	7.07E-04	0.00E+00	2.62E-04	7.07E-04	0.00E+00	4.27E-05	1.07E-04	0.00E+00	2.23E-05	4.08E-05	0.00E+00
2324	599891.4	4175577	0.000263	7.10E-04	0.00E+00	2.63E-04	7.10E-04	0.00E+00	4.28E-05	1.07E-04	0.00E+00	2.24E-05	4.09E-05	0.00E+00
2325	599900	4175581	0.000268	7.23E-04	0.00E+00	2.68E-04	7.23E-04	0.00E+00	4.36E-05	1.09E-04	0.00E+00	2.28E-05	4.17E-05	0.00E+00
2326	599908.7	4175585	0.000271	7.30E-04	0.00E+00	2.71E-04	7.30E-04	0.00E+00	4.41E-05	1.10E-04	0.00E+00	2.30E-05	4.21E-05	0.00E+00
2327	599917.4	4175589	0.000268	7.21E-04	0.00E+00	2.68E-04	7.21E-04	0.00E+00	4.35E-05	1.09E-04	0.00E+00	2.27E-05	4.16E-05	0.00E+00
2328	599926	4175593	0.000262	7.06E-04	0.00E+00	2.62E-04	7.06E-04	0.00E+00	4.26E-05	1.07E-04	0.00E+00	2.22E-05	4.07E-05	0.00E+00
2329	599934.7	4175596	0.000256	6.90E-04	0.00E+00	2.56E-04	6.90E-04	0.00E+00	4.16E-05	1.04E-04	0.00E+00	2.17E-05	3.98E-05	0.00E+00
2330	599943.4	4175600	0.000267	7.19E-04	0.00E+00	2.67E-04	7.19E-04	0.00E+00	4.34E-05	1.09E-04	0.00E+00	2.26E-05	4.14E-05	0.00E+00
2331	599952	4175604	0.000276	7.45E-04	0.00E+00	2.76E-04	7.45E-04	0.00E+00	4.50E-05	1.13E-04	0.00E+00	2.35E-05	4.29E-05	0.00E+00
2332	599960.7	4175608	0.000285	7.69E-04	0.00E+00	2.85E-04	7.69E-04	0.00E+00	4.64E-05	1.16E-04	0.00E+00	2.42E-05	4.43E-05	0.00E+00
2333	599969.4	4175612	0.000296	7.98E-04	0.00E+00	2.96E-04	7.98E-04	0.00E+00	4.82E-05	1.21E-04	0.00E+00	2.51E-05	4.60E-05	0.00E+00
2334	599978.1	4175616	0.00031	8.36E-04	0.00E+00	3.10E-04	8.36E-04	0.00E+00	5.04E-05	1.26E-04	0.00E+00	2.63E-05	4.82E-05	0.00E+00
2335	599986.7	4175619	0.000325	8.77E-04	0.00E+00	3.25E-04	8.77E-04	0.00E+00	5.29E-05	1.33E-04	0.00E+00	2.76E-05	5.06E-05	0.00E+00
2336	599995.4	4175623	0.000342	9.22E-04	0.00E+00	3.42E-04	9.22E-04	0.00E+00	5.56E-05	1.39E-04	0.00E+00	2.90E-05	5.31E-05	0.00E+00
2337	600004.1	4175627	0.000353	9.53E-04	0.00E+00	3.53E-04	9.53E-04	0.00E+00	5.75E-05	1.44E-04	0.00E+00	3.00E-05	5.49E-05	0.00E+00
2338	600012.7	4175631	0.000349	9.41E-04	0.00E+00	3.49E-04	9.41E-04	0.00E+00	5.68E-05	1.42E-04	0.00E+00	2.96E-05	5.42E-05	0.00E+00
2339	600021.4	4175635	0.000339	9.13E-04	0.00E+00	3.39E-04	9.13E-04	0.00E+00	5.51E-05	1.38E-04	0.00E+00	2.88E-05	5.26E-05	0.00E+00
2340	600030.1	4175639	0.000324	8.74E-04	0.00E+00	3.24E-04	8.74E-04	0.00E+00	5.28E-05	1.32E-04	0.00E+00	2.75E-05	5.04E-05	0.00E+00
2341	600038.7	4175643	0.00031	8.35E-04	0.00E+00	3.10E-04	8.35E-04	0.00E+00	5.04E-05	1.26E-04	0.00E+00	2.63E-05	4.81E-05	0.00E+00
2342	600047.4	4175646	0.000295	7.96E-04	0.00E+00	2.95E-04	7.96E-04	0.00E+00	4.81E-05	1.20E-04	0.00E+00	2.51E-05	4.59E-05	0.00E+00
2343	600178.7	4175803	0.000194	5.24E-04	0.00E+00	1.94E-04	5.24E-04	0.00E+00	3.16E-05	7.92E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
2344	600182.5	4175811	0.000192	5.17E-04	0.00E+00	1.92E-04	5.17E-04	0.00E+00	3.12E-05	7.82E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
2345	600186.3	4175820	0.000189	5.10E-04	0.00E+00	1.89E-04	5.10E-04	0.00E+00	3.08E-05	7.71E-05	0.00E+00	1.61E-05	2.94E-05	0.00E+00
2346	600190.1	4175829	0.000186	5.02E-04	0.00E+00	1.86E-04	5.02E-04	0.00E+00	3.03E-05	7.59E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
2347	600193.9	4175838	0.000183	4.95E-04	0.00E+00	1.83E-04	4.95E-04	0.00E+00	2.98E-05	7.48E-05	0.00E+00	1.56E-05	2.85E-05	0.00E+00
2348	600197.7	4175846	0.000181	4.89E-04	0.00E+00	1.81E-04	4.89E-04	0.00E+00	2.95E-05	7.40E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
2349	600201.5	4175855	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.28E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
2350	600205.3	4175864	0.000175	4.73E-04	0.00E+00	1.75E-04	4.73E-04	0.00E+00	2.85E-05	7.15E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
2351	600209.1	4175872	0.000174	4.68E-04	0.00E+00	1.74E-04	4.68E-04	0.00E+00	2.83E-05	7.08E-05	0.00E+00	1.48E-05	2.70E-05	0.00E+00
2352	600212.9	4175881	0.000172	4.63E-04	0.00E+00	1.72E-04	4.63E-04	0.00E+00	2.80E-05	7.01E-05	0.00E+00	1.46E-05	2.67E-05	0.00E+00
2353	600216.7	4175890	0.000169	4.57E-04	0.00E+00	1.69E-04	4.57E-04	0.00E+00	2.75E-05	6.90E-05	0.00E+00	1.44E-05	2.63E-05	0.00E+00
2354	600220.5	4175898	0.000166	4.48E-04	0.00E+00	1.66E-04	4.48E-04	0.00E+00	2.70E-05	6.77E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
2355	600224.3	4175907	0.000163	4.39E-04	0.00E+00	1.63E-04	4.39E-04	0.00E+00	2.65E-05	6.64E-05	0.00E+00	1.38E-05	2.53E-05	0.00E+00
2356	600228.1	4175916	0.00016	4.31E-04	0.00E+00	1.60E-04	4.31E-04	0.00E+00	2.60E-05	6.51E-05	0.00E+00	1.36E-05	2.48E-05	0.00E+00
2357	600231.9	4175924	0.000157	4.22E-04	0.00E+00	1.57E-04	4.22E-04	0.00E+00	2.55E-05	6.39E-05	0.00E+00	1.33E-05	2.43E-05	0.00E+00
2358	600235.7	4175933	0.000155	4.17E-04	0.00E+00	1.55E-04	4.17E-04	0.00E+00	2.52E-05	6.31E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
2359	600239.5	4175942	0.000153	4.13E-04	0.00E+00	1.53E-04	4.13E-04	0.00E+00	2.49E-05	6.25E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
2360	600243.3	4175950	0.000152	4.10E-04	0.00E+00	1.52E-04	4.10E-04	0.00E+00	2.47E-05	6.20E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
2361	600247.1	4175959	0.000152	4.09E-04	0.00E+00	1.52E-04	4.09E-04	0.00E+00	2.47E-05	6.18E-05	0.00E+00	1.29E-05	2.35E-05	0.00E+00
2362	600250.9	4175968	0.000152	4.10E-04	0.00E+00	1.52E-04	4.10E-04	0.00E+00	2.48E-05	6.20E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
2363	600254.7	4175977	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.48E-05	6.22E-05	0.00E+00	1.30E-05	2.37E-05	0.00E+00

2364	600258.5	4175985	0.000153	4.13E-04	0.00E+00	1.53E-04	4.13E-04	0.00E+00	2.49E-05	6.24E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
2365	600262.3	4175994	0.000155	4.17E-04	0.00E+00	1.55E-04	4.17E-04	0.00E+00	2.51E-05	6.30E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
2366	600266.1	4176003	0.000156	4.20E-04	0.00E+00	1.56E-04	4.20E-04	0.00E+00	2.54E-05	6.36E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
2367	600269.9	4176011	0.000157	4.25E-04	0.00E+00	1.57E-04	4.25E-04	0.00E+00	2.56E-05	6.42E-05	0.00E+00	1.34E-05	2.45E-05	0.00E+00
2368	600273.7	4176020	0.000159	4.29E-04	0.00E+00	1.59E-04	4.29E-04	0.00E+00	2.59E-05	6.48E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
2369	600277.5	4176029	0.000161	4.33E-04	0.00E+00	1.61E-04	4.33E-04	0.00E+00	2.61E-05	6.55E-05	0.00E+00	1.36E-05	2.50E-05	0.00E+00
2370	600281.3	4176037	0.000162	4.38E-04	0.00E+00	1.62E-04	4.38E-04	0.00E+00	2.64E-05	6.62E-05	0.00E+00	1.38E-05	2.52E-05	0.00E+00
2371	600285.1	4176046	0.000164	4.43E-04	0.00E+00	1.64E-04	4.43E-04	0.00E+00	2.67E-05	6.70E-05	0.00E+00	1.40E-05	2.55E-05	0.00E+00
2372	600288.9	4176055	0.000165	4.44E-04	0.00E+00	1.65E-04	4.44E-04	0.00E+00	2.68E-05	6.72E-05	0.00E+00	1.40E-05	2.56E-05	0.00E+00
2373	600292.7	4176063	0.000165	4.44E-04	0.00E+00	1.65E-04	4.44E-04	0.00E+00	2.68E-05	6.71E-05	0.00E+00	1.40E-05	2.56E-05	0.00E+00
2374	599770.6	4175503	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.13E-05	5.35E-05	0.00E+00	1.11E-05	2.04E-05	0.00E+00
2375	599779.2	4175507	0.000132	3.57E-04	0.00E+00	1.32E-04	3.57E-04	0.00E+00	2.15E-05	5.40E-05	0.00E+00	1.12E-05	2.06E-05	0.00E+00
2376	599787.8	4175511	0.000139	3.75E-04	0.00E+00	1.39E-04	3.75E-04	0.00E+00	2.26E-05	5.67E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
2377	599796.4	4175515	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.95E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
2378	599804.9	4175518	0.000162	4.36E-04	0.00E+00	1.62E-04	4.36E-04	0.00E+00	2.63E-05	6.60E-05	0.00E+00	1.37E-05	2.51E-05	0.00E+00
2379	599813.5	4175522	0.00018	4.85E-04	0.00E+00	1.80E-04	4.85E-04	0.00E+00	2.92E-05	7.33E-05	0.00E+00	1.53E-05	2.79E-05	0.00E+00
2380	599822.1	4175526	0.000195	5.27E-04	0.00E+00	1.95E-04	5.27E-04	0.00E+00	3.18E-05	7.97E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
2381	599830.7	4175530	0.00021	5.66E-04	0.00E+00	2.10E-04	5.66E-04	0.00E+00	3.42E-05	8.56E-05	0.00E+00	1.78E-05	3.26E-05	0.00E+00
2382	599839.3	4175534	0.000224	6.03E-04	0.00E+00	2.24E-04	6.03E-04	0.00E+00	3.64E-05	9.12E-05	0.00E+00	1.90E-05	3.47E-05	0.00E+00
2383	599847.8	4175537	0.000231	6.23E-04	0.00E+00	2.31E-04	6.23E-04	0.00E+00	3.76E-05	9.42E-05	0.00E+00	1.96E-05	3.59E-05	0.00E+00
2384	599856.4	4175541	0.000234	6.30E-04	0.00E+00	2.34E-04	6.30E-04	0.00E+00	3.80E-05	9.52E-05	0.00E+00	1.98E-05	3.63E-05	0.00E+00
2385	599865	4175545	0.000237	6.39E-04	0.00E+00	2.37E-04	6.39E-04	0.00E+00	3.86E-05	9.66E-05	0.00E+00	2.01E-05	3.68E-05	0.00E+00
2386	599873.6	4175549	0.000241	6.50E-04	0.00E+00	2.41E-04	6.50E-04	0.00E+00	3.92E-05	9.83E-05	0.00E+00	2.05E-05	3.75E-05	0.00E+00
2387	599882.2	4175553	0.000233	6.29E-04	0.00E+00	2.33E-04	6.29E-04	0.00E+00	3.80E-05	9.51E-05	0.00E+00	1.98E-05	3.63E-05	0.00E+00
2388	599890.7	4175556	0.000225	6.07E-04	0.00E+00	2.25E-04	6.07E-04	0.00E+00	3.66E-05	9.17E-05	0.00E+00	1.91E-05	3.50E-05	0.00E+00
2389	599899.3	4175560	0.000216	5.84E-04	0.00E+00	2.16E-04	5.84E-04	0.00E+00	3.52E-05	8.82E-05	0.00E+00	1.84E-05	3.36E-05	0.00E+00
2390	599907.9	4175564	0.00021	5.66E-04	0.00E+00	2.10E-04	5.66E-04	0.00E+00	3.41E-05	8.56E-05	0.00E+00	1.78E-05	3.26E-05	0.00E+00
2391	599916.5	4175568	0.000209	5.64E-04	0.00E+00	2.09E-04	5.64E-04	0.00E+00	3.40E-05	8.52E-05	0.00E+00	1.77E-05	3.25E-05	0.00E+00
2392	599925.1	4175572	0.000209	5.65E-04	0.00E+00	2.09E-04	5.65E-04	0.00E+00	3.41E-05	8.54E-05	0.00E+00	1.78E-05	3.25E-05	0.00E+00
2393	599933.7	4175576	0.000208	5.61E-04	0.00E+00	2.08E-04	5.61E-04	0.00E+00	3.38E-05	8.48E-05	0.00E+00	1.77E-05	3.23E-05	0.00E+00
2394	599942.2	4175579	0.000212	5.72E-04	0.00E+00	2.12E-04	5.72E-04	0.00E+00	3.45E-05	8.65E-05	0.00E+00	1.80E-05	3.30E-05	0.00E+00
2395	599950.8	4175583	0.000219	5.91E-04	0.00E+00	2.19E-04	5.91E-04	0.00E+00	3.57E-05	8.94E-05	0.00E+00	1.86E-05	3.41E-05	0.00E+00
2396	599959.4	4175587	0.000229	6.17E-04	0.00E+00	2.29E-04	6.17E-04	0.00E+00	3.73E-05	9.34E-05	0.00E+00	1.94E-05	3.56E-05	0.00E+00
2397	599968	4175591	0.000242	6.51E-04	0.00E+00	2.42E-04	6.51E-04	0.00E+00	3.93E-05	9.85E-05	0.00E+00	2.05E-05	3.75E-05	0.00E+00
2398	599976.6	4175595	0.000257	6.93E-04	0.00E+00	2.57E-04	6.93E-04	0.00E+00	4.18E-05	1.05E-04	0.00E+00	2.18E-05	3.99E-05	0.00E+00
2399	599985.1	4175598	0.00027	7.28E-04	0.00E+00	2.70E-04	7.28E-04	0.00E+00	4.39E-05	1.10E-04	0.00E+00	2.29E-05	4.19E-05	0.00E+00
2400	599993.7	4175602	0.000282	7.59E-04	0.00E+00	2.82E-04	7.59E-04	0.00E+00	4.58E-05	1.15E-04	0.00E+00	2.39E-05	4.38E-05	0.00E+00
2401	600002.3	4175606	0.000294	7.93E-04	0.00E+00	2.94E-04	7.93E-04	0.00E+00	4.79E-05	1.20E-04	0.00E+00	2.50E-05	4.57E-05	0.00E+00
2402	600010.9	4175610	0.000308	8.30E-04	0.00E+00	3.08E-04	8.30E-04	0.00E+00	5.01E-05	1.26E-04	0.00E+00	2.61E-05	4.78E-05	0.00E+00
2403	600019.5	4175614	0.000323	8.70E-04	0.00E+00	3.23E-04	8.70E-04	0.00E+00	5.25E-05	1.31E-04	0.00E+00	2.74E-05	5.01E-05	0.00E+00
2404	600028	4175617	0.000335	9.04E-04	0.00E+00	3.35E-04	9.04E-04	0.00E+00	5.45E-05	1.37E-04	0.00E+00	2.85E-05	5.21E-05	0.00E+00
2405	600036.6	4175621	0.000346	9.33E-04	0.00E+00	3.46E-04	9.33E-04	0.00E+00	5.63E-05	1.41E-04	0.00E+00	2.94E-05	5.38E-05	0.00E+00
2406	600045.2	4175625	0.000357	9.64E-04	0.00E+00	3.57E-04	9.64E-04	0.00E+00	5.81E-05	1.46E-04	0.00E+00	3.03E-05	5.55E-05	0.00E+00
2407	600053.8	4175629	0.000347	9.35E-04	0.00E+00	3.47E-04	9.35E-04	0.00E+00	5.64E-05	1.41E-04	0.00E+00	2.94E-05	5.39E-05	0.00E+00
2408	600188.5	4175779	0.000192	5.19E-04	0.00E+00	1.92E-04	5.19E-04	0.00E+00	3.13E-05	7.85E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
2409	600192.3	4175787	0.000191	5.14E-04	0.00E+00	1.91E-04	5.14E-04	0.00E+00	3.10E-05	7.77E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00
2410	600196.1	4175796	0.000188	5.07E-04	0.00E+00	1.88E-04	5.07E-04	0.00E+00	3.06E-05	7.67E-05	0.00E+00	1.60E-05	2.92E-05	0.00E+00
2411	600199.8	4175805	0.000186	5.00E-04	0.00E+00	1.86E-04	5.00E-04	0.00E+00	3.02E-05	7.56E-05	0.00E+00	1.58E-05	2.88E-05	0.00E+00
2412	600203.6	4175813	0.000183	4.92E-04	0.00E+00	1.83E-04	4.92E-04	0.00E+00	2.97E-05	7.44E-05	0.00E+00	1.55E-05	2.84E-05	0.00E+00
2413	600207.4	4175822	0.00018	4.86E-04	0.00E+00	1.80E-04	4.86E-04	0.00E+00	2.93E-05	7.35E-05	0.00E+00	1.53E-05	2.80E-05	0.00E+00
2414	600211.1	4175830	0.000178	4.80E-04	0.00E+00	1.78E-04	4.80E-04	0.00E+00	2.89E-05	7.25E-05	0.00E+00	1.51E-05	2.76E-05	0.00E+00
2415	600214.9	4175839	0.000175	4.73E-04	0.00E+00	1.75E-04	4.73E-04	0.00E+00	2.85E-05	7.15E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
2416	600218.6	4175848	0.000173	4.67E-04	0.00E+00	1.73E-04	4.67E-04	0.00E+00	2.82E-05	7.06E-05	0.00E+00	1.47E-05	2.69E-05	0.00E+00
2417	600222.4	4175856	0.00017	4.59E-04	0.00E+00	1.70E-04	4.59E-04	0.00E+00	2.77E-05	6.93E-05	0.00E+00	1.44E-05	2.64E-05	0.00E+00
2418	600226.2	4175865	0.000167	4.50E-04	0.00E+00	1.67E-04	4.50E-04	0.00E+00	2.71E-05	6.80E-05	0.00E+00	1.42E-05	2.59E-05	0.00E+00
2419	600229.9	4175873	0.000164	4.42E-04	0.00E+00	1.64E-04	4.42E-04	0.00E+00	2.67E-05	6.69E-05	0.00E+00	1.39E-05	2.55E-05	0.00E+00
2420	600233.7	4175882	0.000161	4.34E-04	0.00E+00	1.61E-04	4.34E-04	0.00E+00	2.62E-05	6.56E-05	0.00E+00	1.37E-05	2.50E-05	0.00E+00
2421	600237.5	4175891	0.000158	4.26E-04	0.00E+00	1.58E-04	4.26E-04	0.00E+00	2.57E-05	6.45E-05	0.00E+00	1.34E-05	2.46E-05	0.00E+00
2422	600241.2	4175899	0.000155	4.19E-04	0.00E+00	1.55E-04	4.19E-04	0.00E+00	2.53E-05	6.34E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
2423	600245	4175908	0.000153	4.13E-04	0.00E+00	1.53E-04	4.13E-04	0.00E+00	2.49E-05	6.24E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
2424	600248.8	4175916	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.46E-05	6.15E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
2425	600252.5	4175925	0.000149	4.01E-04	0.00E+00	1.49E-04	4.01E-04	0.00E+00	2.42E-05	6.07E-05	0.00E+00	1.26E-05	2.31E-05	0.00E+00
2426	600256.3	4175934	0.000146	3.94E-04	0.00E+00	1.46E-04	3.94E-04	0.00E+00	2.38E-05	5.96E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
2427	600260.1	4175942	0.000145	3.92E-04	0.00E+00	1.45E-04	3.92E-04	0.00E+00	2.37E-05	5.93E-05	0.00E+00	1.24E-05	2.26E-05	0.00E+00
2428	600263.8	4175951	0.000145	3.91E-04	0.00E+00	1.45E-04	3.91E-04	0.00E+00	2.36E-05	5.91E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
2429	600267.6	4175959	0.000145	3.90E-04	0.00E+00	1.45E-04	3.90E-04	0.00E+00	2.35E-05	5.90E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
2430	600271.4	4175968	0.000145	3.91E-04	0.00E+00	1.45E-04	3.91E-04	0.00E+00	2.36E-05	5.91E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
2431	600275.1	4175977	0.000145	3.92E-04	0.00E+00	1.45E-04	3.92E-04	0.00E+00	2.36E-05	5.92E-05	0.00E+00	1.23E-05	2.26E-05	0.00E+00
2432	600278.9	4175985	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.95E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
2433	600282.6	4175994	0.000147	3.96E-04	0.00E+00	1.47E-04	3.96E-04	0.00E+00	2.39E-05	5.99E-05	0.00E+00	1.25E-05	2.28E-05	0.00E+00
2434	600286.4	4176002	0.000148	3.99E-04	0.00E+00	1.48E-04	3.99E-04	0.00E+00	2.41E-05	6.03E-05	0.00E+00	1.26E-05	2.30E-05	0.00E+00
2435	600290.2	4176011	0.000149	4.02E-04	0.00E+00	1.49E-04	4.02E-04	0.00E+00	2.42E-05	6.07E-05	0.00E+00	1.26E-05	2.31E-05	0.00E+00
2436	600293.9	4176020	0.00015	4.04E-04	0.00E+00	1.50E-04	4.04E-04	0.00E+00	2.44E-05	6.12E-05	0.00E+00	1.27E-05	2.33E-05	0.00E+00
2437	600297.7	4176028	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.46E-05	6.15E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
2438	600301.5	4176037	0.000152	4.09E-04	0.00E+00	1.52E-04	4.09E-04	0.00E+00	2.47E-05	6.18E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
2439	600305.2	4176045	0.000152	4.10E-04	0.00E+00	1.52E-04	4.10E-04	0.00E+00	2.48E-05	6.20E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
2440	600309	4176054	0.000152	4.11E-04	0.00E+00	1.52E-04	4.11E-04	0.00E+00	2.48E-05	6.21E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
2441	600312.8	4176063	0.000154	4.14E-04	0.00E+00	1.54E-04	4.14E-04	0.00E+00	2.50E-05	6.26E-05	0.00E+00	1.30E-05	2.39E-05	0.00E+00
2442	599806.7	4175499	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.30E-05	5.75E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
2443	599815.3	4175503	0.000158	4.25E-04	0.00E+00	1.58E-04	4.25E-04	0.00E+00	2.56E-05	6.43E-05	0.00E+00	1.34E-05	2.45E-05	0.00E+00
2444	599824	4175506	0.000178	4.80E-04	0.00E+00	1.78E-04	4.80E-04	0.00E+00	2.89E-05	7.25E-05	0.00E+00	1.51E-05	2.76E-05	0.00E+00
2445	599832.7	4175510	0.000195	5.27E-04	0.00E+00	1.95E-04	5.27E-04	0.00E+00	3.18E-05	7.97E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
2446	599841.4	4175514	0.000212	5.71E-04	0.00E+00	2.12E-04	5.71E-04	0.00E+00	3.44E-05	8.63E-05	0.00E+00	1.80E-05	3.29E-05	0.00E+00
2447	599850.1	4175518	0.000218	5.87E-04	0.00E+00	2.18E-04	5.87E-04	0.00E+00	3.54E-05	8.87E-05	0.00E+00	1.85E-05	3.38E-05	0.00E+00
2448	599858.7	4175522	0.000221	5.95E-04	0.00E+00	2.21E-04	5.95E-04	0.00E+00	3.59E-05	8.99E-05	0.00E+00	1.87E-05	3.43E-05	0.00E+00
2449	599867.4	4175526	0.000224	6.03E-04	0.00E+00	2.24E-04	6.03E-04	0.00E+00	3.64E-05	9.11E-05	0.00E+00	1.90E-05	3.47E-05	0.00E+00
2450	599876.1	4175530	0.000223	6.01E-04	0.00E+00	2.23E-04	6.01E-04	0.00E+00	3.63E-05	9.09E-05	0.00E+00	1.89E-05	3.47E-05	0.00E+00
2451	599884.8	4175533	0.000214	5.76E-04	0.00E+00	2.14E-04	5.76E-04	0.00E+00	3.48E-05	8.71E-05	0.00E+00	1.81E-05	3.32E-05	0.00E+00
2452	599893.4	4175537	0.000204	5.49E-04	0.00E+00	2.04E-04	5.49E-04	0.00E+00	3.32E-05	8.31E-05	0.00E+00	1.73E-05	3.17E-05	0.00E+00
2453	599902.1	4175541	0.000196	5.27E-04	0.00E+00	1.96E-04	5.27E-04	0.00E+00	3.18E-05	7.97E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
2454	599910.8	4175545	0.000188	5.07E-04	0.00E+00	1.88E-04	5.07E-04	0.00E+00	3.06E-05	7.67E-05	0.00E+00	1.60E-05	2.92E-05	0.00E+00

2455	599919.5	4175549	0.000182	4.91E-04	0.00E+00		1.82E-04	4.91E-04	0.00E+00		2.96E-05	7.42E-05	0.00E+00		1.54E-05	2.83E-05	0.00E+00
2456	599928.2	4175553	0.000177	4.77E-04	0.00E+00		1.77E-04	4.77E-04	0.00E+00		2.88E-05	7.22E-05	0.00E+00		1.50E-05	2.75E-05	0.00E+00
2457	599936.8	4175557	0.000175	4.71E-04	0.00E+00		1.75E-04	4.71E-04	0.00E+00		2.84E-05	7.12E-05	0.00E+00		1.48E-05	2.71E-05	0.00E+00
2458	599945.5	4175560	0.000174	4.68E-04	0.00E+00		1.74E-04	4.68E-04	0.00E+00		2.82E-05	7.08E-05	0.00E+00		1.47E-05	2.70E-05	0.00E+00
2459	599954.2	4175564	0.000172	4.63E-04	0.00E+00		1.72E-04	4.63E-04	0.00E+00		2.80E-05	7.01E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
2460	599962.9	4175568	0.000174	4.68E-04	0.00E+00		1.74E-04	4.68E-04	0.00E+00		2.82E-05	7.07E-05	0.00E+00		1.47E-05	2.70E-05	0.00E+00
2461	599971.5	4175572	0.00018	4.84E-04	0.00E+00		1.80E-04	4.84E-04	0.00E+00		2.92E-05	7.32E-05	0.00E+00		1.52E-05	2.79E-05	0.00E+00
2462	599980.2	4175576	0.000188	5.06E-04	0.00E+00		1.88E-04	5.06E-04	0.00E+00		3.05E-05	7.65E-05	0.00E+00		1.59E-05	2.92E-05	0.00E+00
2463	599988.9	4175580	0.000198	5.34E-04	0.00E+00		1.98E-04	5.34E-04	0.00E+00		3.22E-05	8.08E-05	0.00E+00		1.68E-05	3.08E-05	0.00E+00
2464	599997.6	4175584	0.000212	5.73E-04	0.00E+00		2.12E-04	5.73E-04	0.00E+00		3.46E-05	8.66E-05	0.00E+00		1.80E-05	3.30E-05	0.00E+00
2465	600006.3	4175587	0.00023	6.19E-04	0.00E+00		2.30E-04	6.19E-04	0.00E+00		3.73E-05	9.36E-05	0.00E+00		1.95E-05	3.57E-05	0.00E+00
2466	600014.9	4175591	0.000247	6.66E-04	0.00E+00		2.47E-04	6.66E-04	0.00E+00		4.02E-05	1.01E-04	0.00E+00		2.10E-05	3.84E-05	0.00E+00
2467	600023.6	4175595	0.000265	7.15E-04	0.00E+00		2.65E-04	7.15E-04	0.00E+00		4.31E-05	1.08E-04	0.00E+00		2.25E-05	4.12E-05	0.00E+00
2468	600032.3	4175599	0.000274	7.38E-04	0.00E+00		2.74E-04	7.38E-04	0.00E+00		4.45E-05	1.12E-04	0.00E+00		2.32E-05	4.25E-05	0.00E+00
2469	600041	4175603	0.000282	7.60E-04	0.00E+00		2.82E-04	7.60E-04	0.00E+00		4.58E-05	1.15E-04	0.00E+00		2.39E-05	4.38E-05	0.00E+00
2470	600049.6	4175607	0.000291	7.83E-04	0.00E+00		2.91E-04	7.83E-04	0.00E+00		4.73E-05	1.18E-04	0.00E+00		2.47E-05	4.51E-05	0.00E+00
2471	600058.3	4175610	0.000297	8.02E-04	0.00E+00		2.97E-04	8.02E-04	0.00E+00		4.84E-05	1.21E-04	0.00E+00		2.53E-05	4.62E-05	0.00E+00
2472	600203.3	4175766	0.000192	5.18E-04	0.00E+00		1.92E-04	5.18E-04	0.00E+00		3.13E-05	7.83E-05	0.00E+00		1.63E-05	2.99E-05	0.00E+00
2473	600207.1	4175775	0.000189	5.10E-04	0.00E+00		1.89E-04	5.10E-04	0.00E+00		3.08E-05	7.72E-05	0.00E+00		1.61E-05	2.94E-05	0.00E+00
2474	600210.9	4175783	0.000187	5.04E-04	0.00E+00		1.87E-04	5.04E-04	0.00E+00		3.04E-05	7.62E-05	0.00E+00		1.59E-05	2.91E-05	0.00E+00
2475	600214.7	4175792	0.000185	4.98E-04	0.00E+00		1.85E-04	4.98E-04	0.00E+00		3.00E-05	7.53E-05	0.00E+00		1.57E-05	2.87E-05	0.00E+00
2476	600218.5	4175801	0.000182	4.91E-04	0.00E+00		1.82E-04	4.91E-04	0.00E+00		2.96E-05	7.42E-05	0.00E+00		1.55E-05	2.83E-05	0.00E+00
2477	600222.3	4175809	0.000179	4.84E-04	0.00E+00		1.79E-04	4.84E-04	0.00E+00		2.92E-05	7.31E-05	0.00E+00		1.52E-05	2.79E-05	0.00E+00
2478	600226.1	4175818	0.000177	4.77E-04	0.00E+00		1.77E-04	4.77E-04	0.00E+00		2.88E-05	7.21E-05	0.00E+00		1.50E-05	2.75E-05	0.00E+00
2479	600229.9	4175827	0.000174	4.70E-04	0.00E+00		1.74E-04	4.70E-04	0.00E+00		2.84E-05	7.11E-05	0.00E+00		1.48E-05	2.71E-05	0.00E+00
2480	600233.7	4175836	0.000172	4.63E-04	0.00E+00		1.72E-04	4.63E-04	0.00E+00		2.79E-05	7.00E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
2481	600237.5	4175844	0.000169	4.55E-04	0.00E+00		1.69E-04	4.55E-04	0.00E+00		2.75E-05	6.88E-05	0.00E+00		1.43E-05	2.62E-05	0.00E+00
2482	600241.3	4175853	0.000166	4.47E-04	0.00E+00		1.66E-04	4.47E-04	0.00E+00		2.70E-05	6.76E-05	0.00E+00		1.41E-05	2.58E-05	0.00E+00
2483	600245.1	4175862	0.000163	4.38E-04	0.00E+00		1.63E-04	4.38E-04	0.00E+00		2.65E-05	6.63E-05	0.00E+00		1.38E-05	2.53E-05	0.00E+00
2484	600248.9	4175870	0.00016	4.30E-04	0.00E+00		1.60E-04	4.30E-04	0.00E+00		2.60E-05	6.50E-05	0.00E+00		1.35E-05	2.48E-05	0.00E+00
2485	600252.8	4175879	0.000156	4.22E-04	0.00E+00		1.56E-04	4.22E-04	0.00E+00		2.55E-05	6.38E-05	0.00E+00		1.33E-05	2.43E-05	0.00E+00
2486	600256.6	4175888	0.000153	4.12E-04	0.00E+00		1.53E-04	4.12E-04	0.00E+00		2.49E-05	6.24E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
2487	600260.4	4175896	0.000149	4.03E-04	0.00E+00		1.49E-04	4.03E-04	0.00E+00		2.43E-05	6.09E-05	0.00E+00		1.27E-05	2.32E-05	0.00E+00
2488	600264.2	4175905	0.000147	3.95E-04	0.00E+00		1.47E-04	3.95E-04	0.00E+00		2.38E-05	5.97E-05	0.00E+00		1.24E-05	2.28E-05	0.00E+00
2489	600268	4175914	0.000144	3.87E-04	0.00E+00		1.44E-04	3.87E-04	0.00E+00		2.34E-05	5.86E-05	0.00E+00		1.22E-05	2.23E-05	0.00E+00
2490	600271.8	4175923	0.000143	3.85E-04	0.00E+00		1.43E-04	3.85E-04	0.00E+00		2.32E-05	5.81E-05	0.00E+00		1.21E-05	2.22E-05	0.00E+00
2491	600275.6	4175931	0.000139	3.76E-04	0.00E+00		1.39E-04	3.76E-04	0.00E+00		2.27E-05	5.68E-05	0.00E+00		1.18E-05	2.17E-05	0.00E+00
2492	600279.4	4175940	0.000138	3.73E-04	0.00E+00		1.38E-04	3.73E-04	0.00E+00		2.25E-05	5.63E-05	0.00E+00		1.17E-05	2.15E-05	0.00E+00
2493	600283.2	4175949	0.000138	3.71E-04	0.00E+00		1.38E-04	3.71E-04	0.00E+00		2.24E-05	5.61E-05	0.00E+00		1.17E-05	2.14E-05	0.00E+00
2494	600287	4175957	0.000137	3.70E-04	0.00E+00		1.37E-04	3.70E-04	0.00E+00		2.23E-05	5.59E-05	0.00E+00		1.16E-05	2.13E-05	0.00E+00
2495	600290.8	4175966	0.000137	3.71E-04	0.00E+00		1.37E-04	3.71E-04	0.00E+00		2.24E-05	5.60E-05	0.00E+00		1.17E-05	2.14E-05	0.00E+00
2496	600294.6	4175975	0.000138	3.72E-04	0.00E+00		1.38E-04	3.72E-04	0.00E+00		2.25E-05	5.63E-05	0.00E+00		1.17E-05	2.15E-05	0.00E+00
2497	600298.4	4175983	0.000139	3.74E-04	0.00E+00		1.39E-04	3.74E-04	0.00E+00		2.26E-05	5.65E-05	0.00E+00		1.18E-05	2.15E-05	0.00E+00
2498	600302.2	4175992	0.000139	3.75E-04	0.00E+00		1.39E-04	3.75E-04	0.00E+00		2.26E-05	5.67E-05	0.00E+00		1.18E-05	2.16E-05	0.00E+00
2499	600306.1	4176001	0.000139	3.76E-04	0.00E+00		1.39E-04	3.76E-04	0.00E+00		2.27E-05	5.69E-05	0.00E+00		1.18E-05	2.17E-05	0.00E+00
2500	600309.9	4176010	0.00014	3.77E-04	0.00E+00		1.40E-04	3.77E-04	0.00E+00		2.27E-05	5.69E-05	0.00E+00		1.19E-05	2.17E-05	0.00E+00
2501	600313.7	4176018	0.00014	3.76E-04	0.00E+00		1.40E-04	3.76E-04	0.00E+00		2.27E-05	5.69E-05	0.00E+00		1.19E-05	2.17E-05	0.00E+00
2502	600317.5	4176027	0.00014	3.77E-04	0.00E+00		1.40E-04	3.77E-04	0.00E+00		2.27E-05	5.69E-05	0.00E+00		1.19E-05	2.17E-05	0.00E+00
2503	600321.3	4176036	0.00014	3.77E-04	0.00E+00		1.40E-04	3.77E-04	0.00E+00		2.27E-05	5.69E-05	0.00E+00		1.19E-05	2.17E-05	0.00E+00
2504	600325.1	4176044	0.00014	3.78E-04	0.00E+00		1.40E-04	3.78E-04	0.00E+00		2.28E-05	5.71E-05	0.00E+00		1.19E-05	2.18E-05	0.00E+00
2505	600328.9	4176053	0.000141	3.81E-04	0.00E+00		1.41E-04	3.81E-04	0.00E+00		2.30E-05	5.76E-05	0.00E+00		1.20E-05	2.20E-05	0.00E+00
2506	600332.7	4176062	0.000143	3.86E-04	0.00E+00		1.43E-04	3.86E-04	0.00E+00		2.33E-05	5.83E-05	0.00E+00		1.21E-05	2.22E-05	0.00E+00
2507	599746.8	4175452	0.000172	4.63E-04	0.00E+00		1.72E-04	4.63E-04	0.00E+00		2.80E-05	7.01E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
2508	599755.4	4175456	0.00015	4.05E-04	0.00E+00		1.50E-04	4.05E-04	0.00E+00		2.45E-05	6.13E-05	0.00E+00		1.28E-05	2.34E-05	0.00E+00
2509	599764	4175459	0.000131	3.54E-04	0.00E+00		1.31E-04	3.54E-04	0.00E+00		2.13E-05	5.35E-05	0.00E+00		1.11E-05	2.04E-05	0.00E+00
2510	599772.6	4175463	0.000122	3.30E-04	0.00E+00		1.22E-04	3.30E-04	0.00E+00		1.99E-05	4.99E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
2511	599781.2	4175467	0.00011	2.98E-04	0.00E+00		1.10E-04	2.98E-04	0.00E+00		1.80E-05	4.50E-05	0.00E+00		9.38E-06	1.72E-05	0.00E+00
2512	599807	4175478	0.000123	3.30E-04	0.00E+00		1.23E-04	3.30E-04	0.00E+00		1.99E-05	4.99E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
2513	599815.6	4175482	0.000133	3.59E-04	0.00E+00		1.33E-04	3.59E-04	0.00E+00		2.17E-05	5.43E-05	0.00E+00		1.13E-05	2.07E-05	0.00E+00
2514	599824.2	4175486	0.00015	4.04E-04	0.00E+00		1.50E-04	4.04E-04	0.00E+00		2.43E-05	6.10E-05	0.00E+00		1.27E-05	2.33E-05	0.00E+00
2515	599832.8	4175490	0.00017	4.59E-04	0.00E+00		1.70E-04	4.59E-04	0.00E+00		2.77E-05	6.94E-05	0.00E+00		1.44E-05	2.64E-05	0.00E+00
2516	599841.3	4175494	0.00019	5.13E-04	0.00E+00		1.90E-04	5.13E-04	0.00E+00		3.10E-05	7.76E-05	0.00E+00		1.62E-05	2.96E-05	0.00E+00
2517	599849.9	4175498	0.000201	5.41E-04	0.00E+00		2.01E-04	5.41E-04	0.00E+00		3.27E-05	8.19E-05	0.00E+00		1.71E-05	3.12E-05	0.00E+00
2518	599858.5	4175501	0.000208	5.60E-04	0.00E+00		2.08E-04	5.60E-04	0.00E+00		3.38E-05	8.46E-05	0.00E+00		1.76E-05	3.23E-05	0.00E+00
2519	599867.1	4175505	0.000214	5.76E-04	0.00E+00		2.14E-04	5.76E-04	0.00E+00		3.48E-05	8.71E-05	0.00E+00		1.81E-05	3.32E-05	0.00E+00
2520	599875.7	4175509	0.000216	5.81E-04	0.00E+00		2.16E-04	5.81E-04	0.00E+00		3.51E-05	8.79E-05	0.00E+00		1.83E-05	3.35E-05	0.00E+00
2521	599884.3	4175513	0.000209	5.64E-04	0.00E+00		2.09E-04	5.64E-04	0.00E+00		3.40E-05	8.53E-05	0.00E+00		1.78E-05	3.25E-05	0.00E+00
2522	599892.9	4175517	0.000202	5.44E-04	0.00E+00		2.02E-04	5.44E-04	0.00E+00		3.28E-05	8.23E-05	0.00E+00		1.71E-05	3.14E-05	0.00E+00
2523	599901.5	4175520	0.000193	5.21E-04	0.00E+00		1.93E-04	5.21E-04	0.00E+00		3.14E-05	7.88E-05	0.00E+00		1.64E-05	3.00E-05	0.00E+00
2524	599910.1	4175524	0.000182	4.92E-04	0.00E+00		1.82E-04	4.92E-04	0.00E+00		2.97E-05	7.44E-05	0.00E+00		1.55E-05	2.83E-05	0.00E+00
2525	599918.7	4175528	0.000171	4.61E-04	0.00E+00		1.71E-04	4.61E-04	0.00E+00		2.78E-05	6.98E-05	0.00E+00		1.45E-05	2.66E-05	0.00E+00
2526	599927.3	4175532	0.00016	4.32E-04	0.00E+00		1.60E-04	4.32E-04	0.00E+00		2.61E-05	6.53E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
2527	599935.9	4175536	0.000152	4.10E-04	0.00E+00		1.52E-04	4.10E-04	0.00E+00		2.47E-05	6.19E-05	0.00E+00		1.29E-05	2.36E-05	0.00E+00
2528	599944.5	4175540	0.000153	4.12E-04	0.00E+00		1.53E-04	4.12E-04	0.00E+00		2.48E-05	6.23E-05	0.00E+00		1.30E-05	2.37E-05	0.00E+00
2529	599953.1	4175543	0.000153	4.13E-04	0.00E+00		1.53E-04	4.13E-04	0.00E+00		2.49E-05	6.25E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
2530	599961.7	4175547	0.000153	4.13E-04	0.00E+00		1.53E-04	4.13E-04	0.00E+00		2.49E-05	6.24E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
2531	599970.3	4175551	0.000153	4.12E-04	0.00E+00		1.53E-04	4.12E-04	0.00E+00		2.48E-05	6.23E-05	0.00E+00		1.30E-05	2.37E-05	0.00E+00
2532	599978.9	4175555	0.000152	4.10E-04	0.00E+00		1.52E-04	4.10E-04	0.00E+00		2.47E-05	6.20E-05	0.00E+00		1.29E-05	2.36E-05	0.00E+00
2533	599987.5	4175559	0.000151	4.08E-04	0.00E+00		1.51E-04	4.08E-04	0.00E+00		2.46E-05	6.17E-05	0.00E+00		1.28E-05	2.35E-05	0.00E+00
2534	599996.1	4175562	0.000152	4.09E-04	0.00E+00		1.52E-04	4.09E-04	0.00E+00		2.47E-05	6.18E-05	0.00E+00		1.29E-05	2.36E-05	0.00E+00
2535	600004.7	4175566	0.000157	4.23E-04	0.00E+00		1.57E-04	4.23E-04	0.00E+00		2.55E-05	6.39E-05	0.00E+00		1.33E-05	2.44E-05	0.00E+00
2536	600013.2	4175570	0.00017	4.58E-04	0.00E+00		1.70E-04	4.58E-04	0.00E+00		2.76E-05	6.93E-05	0.00E+00		1.44E-05	2.64E-05	0.00E+00
2537	600021.8	4175574	0.000184	4.96E-04	0.00E+00		1.84E-04	4.96E-04	0.00E+00		2.99E-05	7.49E-05	0.00E+00		1.56E-05	2.86E-05	0.00E+00
2538	600030.4	4175578	0.000197	5.31E-04	0.00E+00		1.97E-04	5.31E-04	0.00E+00		3.20E-05	8.03E-05	0.00E+00		1.67E-05	3.06E-05	0.00E+00
2539	600039	4175582	0.000209	5.65E-04	0.00E+00		2.09E-04	5.65E-04	0.00E+00		3.41E-05	8.54E-05	0.00E+00		1.78E-05	3.25E-05	0.00E+00
2540	600047.6	4175585	0.000221	5.96E-04	0.00E+00		2.21E-04	5.96E-04	0.00E+00		3.59E-05	9.01E-05	0.00E+00		1.88E-05	3.43E-05	0.00E+00
2541	600056.2	4175589	0.000231	6.22E-04	0.00E+00		2.31E-04	6.22E-04	0.00E+00		3.75E-05	9.41E-05	0.00E+00		1.96E-05	3.59E-05	0.00E+00
2542	600064.8	4175593	0.000239	6.46E-04	0.00E+00		2.39E-04	6.46E-04	0.00E+00		3.90E-05	9.76E-05	0.00E+00		2.03E-05	3.72E-05	0.00E+00
2543	600213.2	4175742	0.000202	5.43E-04	0.00E+00		2.02E-04	5.43E-04	0.00E+00		3.28E-05	8.22E-05	0.00E+00		1.71E-05	3.13E-05	0.00E+00
2544	600217	4175751	0.000198	5.33E-04	0.00E+00		1.98E-04	5.33E-04	0.00E+00		3.22E-05	8.06E-05	0.00E+00		1.68E-05	3.07E-05	0.00E+00
2545	600220.7	4175759	0.000194	5.24E-04	0.00E+00		1.94E-04	5.24E-04	0.00E+00		3.16E-05	7.92E-05	0.00E+00		1.65E-05	3.02E-05	0.00E+00

2546	600224.5	4175768	0.000191	5.15E-04	0.00E+00	1.91E-04	5.15E-04	0.00E+00	3.10E-05	7.78E-05	0.00E+00	1.62E-05	2.97E-05	0.00E+00
2547	600228.3	4175777	0.000188	5.06E-04	0.00E+00	1.88E-04	5.06E-04	0.00E+00	3.05E-05	7.65E-05	0.00E+00	1.59E-05	2.92E-05	0.00E+00
2548	600232.1	4175785	0.000184	4.97E-04	0.00E+00	1.84E-04	4.97E-04	0.00E+00	3.00E-05	7.52E-05	0.00E+00	1.57E-05	2.87E-05	0.00E+00
2549	600235.8	4175794	0.000181	4.89E-04	0.00E+00	1.81E-04	4.89E-04	0.00E+00	2.95E-05	7.39E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
2550	600239.6	4175802	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.28E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
2551	600243.4	4175811	0.000176	4.75E-04	0.00E+00	1.76E-04	4.75E-04	0.00E+00	2.87E-05	7.19E-05	0.00E+00	1.50E-05	2.74E-05	0.00E+00
2552	600247.1	4175820	0.000174	4.68E-04	0.00E+00	1.74E-04	4.68E-04	0.00E+00	2.83E-05	7.08E-05	0.00E+00	1.48E-05	2.70E-05	0.00E+00
2553	600250.9	4175828	0.000171	4.61E-04	0.00E+00	1.71E-04	4.61E-04	0.00E+00	2.78E-05	6.97E-05	0.00E+00	1.45E-05	2.66E-05	0.00E+00
2554	600254.7	4175837	0.000168	4.53E-04	0.00E+00	1.68E-04	4.53E-04	0.00E+00	2.74E-05	6.85E-05	0.00E+00	1.43E-05	2.61E-05	0.00E+00
2555	600258.5	4175846	0.000165	4.45E-04	0.00E+00	1.65E-04	4.45E-04	0.00E+00	2.68E-05	6.73E-05	0.00E+00	1.40E-05	2.56E-05	0.00E+00
2556	600262.2	4175854	0.000162	4.37E-04	0.00E+00	1.62E-04	4.37E-04	0.00E+00	2.63E-05	6.60E-05	0.00E+00	1.38E-05	2.52E-05	0.00E+00
2557	600266	4175863	0.000158	4.27E-04	0.00E+00	1.58E-04	4.27E-04	0.00E+00	2.58E-05	6.46E-05	0.00E+00	1.35E-05	2.46E-05	0.00E+00
2558	600269.8	4175871	0.000155	4.17E-04	0.00E+00	1.55E-04	4.17E-04	0.00E+00	2.52E-05	6.31E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
2559	600273.5	4175880	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.46E-05	6.16E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
2560	600277.3	4175889	0.000148	3.98E-04	0.00E+00	1.48E-04	3.98E-04	0.00E+00	2.40E-05	6.01E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
2561	600281.1	4175897	0.000144	3.88E-04	0.00E+00	1.44E-04	3.88E-04	0.00E+00	2.34E-05	5.87E-05	0.00E+00	1.22E-05	2.24E-05	0.00E+00
2562	600284.8	4175906	0.000141	3.79E-04	0.00E+00	1.41E-04	3.79E-04	0.00E+00	2.29E-05	5.73E-05	0.00E+00	1.19E-05	2.19E-05	0.00E+00
2563	600288.6	4175914	0.000137	3.70E-04	0.00E+00	1.37E-04	3.70E-04	0.00E+00	2.23E-05	5.59E-05	0.00E+00	1.16E-05	2.13E-05	0.00E+00
2564	600292.4	4175923	0.000135	3.63E-04	0.00E+00	1.35E-04	3.63E-04	0.00E+00	2.19E-05	5.49E-05	0.00E+00	1.14E-05	2.09E-05	0.00E+00
2565	600296.2	4175932	0.000133	3.59E-04	0.00E+00	1.33E-04	3.59E-04	0.00E+00	2.17E-05	5.43E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
2566	600299.9	4175940	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
2567	600303.7	4175949	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.34E-05	0.00E+00	1.11E-05	2.04E-05	0.00E+00
2568	600307.5	4175958	0.000131	3.52E-04	0.00E+00	1.31E-04	3.52E-04	0.00E+00	2.12E-05	5.32E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
2569	600311.2	4175966	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.34E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
2570	600315	4175975	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00
2571	600318.8	4175983	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.37E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
2572	600322.6	4175992	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.37E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
2573	600326.3	4176001	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.34E-05	0.00E+00	1.11E-05	2.04E-05	0.00E+00
2574	600330.1	4176009	0.00013	3.52E-04	0.00E+00	1.30E-04	3.52E-04	0.00E+00	2.12E-05	5.32E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
2575	600333.9	4176018	0.00013	3.50E-04	0.00E+00	1.30E-04	3.50E-04	0.00E+00	2.11E-05	5.30E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
2576	600337.6	4176027	0.00013	3.51E-04	0.00E+00	1.30E-04	3.51E-04	0.00E+00	2.12E-05	5.30E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
2577	600341.4	4176035	0.00013	3.52E-04	0.00E+00	1.30E-04	3.52E-04	0.00E+00	2.12E-05	5.32E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
2578	600345.2	4176044	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.34E-05	0.00E+00	1.11E-05	2.04E-05	0.00E+00
2579	600348.9	4176052	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
2580	600352.7	4176061	0.000133	3.59E-04	0.00E+00	1.33E-04	3.59E-04	0.00E+00	2.17E-05	5.43E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
2581	599738.2	4175448	0.000193	5.19E-04	0.00E+00	1.93E-04	5.19E-04	0.00E+00	3.13E-05	7.85E-05	0.00E+00	1.64E-05	2.99E-05	0.00E+00
2582	599728.7	4175447	0.000209	5.64E-04	0.00E+00	2.09E-04	5.64E-04	0.00E+00	3.40E-05	8.52E-05	0.00E+00	1.77E-05	3.25E-05	0.00E+00
2583	599765.2	4175439	0.000153	4.13E-04	0.00E+00	1.53E-04	4.13E-04	0.00E+00	2.49E-05	6.24E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
2584	599773.9	4175443	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.33E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
2585	599782.6	4175447	0.000114	3.07E-04	0.00E+00	1.14E-04	3.07E-04	0.00E+00	1.85E-05	4.64E-05	0.00E+00	9.67E-06	1.77E-05	0.00E+00
2586	599791.3	4175451	0.000111	3.00E-04	0.00E+00	1.11E-04	3.00E-04	0.00E+00	1.81E-05	4.54E-05	0.00E+00	9.45E-06	1.73E-05	0.00E+00
2587	599800	4175455	0.000112	3.02E-04	0.00E+00	1.12E-04	3.02E-04	0.00E+00	1.82E-05	4.56E-05	0.00E+00	9.51E-06	1.74E-05	0.00E+00
2588	599808.7	4175459	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.70E-06	1.78E-05	0.00E+00
2589	599817.3	4175463	0.000123	3.32E-04	0.00E+00	1.23E-04	3.32E-04	0.00E+00	2.00E-05	5.02E-05	0.00E+00	1.05E-05	1.91E-05	0.00E+00
2590	599826	4175466	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.20E-05	5.50E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
2591	599834.7	4175470	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.48E-05	6.23E-05	0.00E+00	1.30E-05	2.37E-05	0.00E+00
2592	599843.4	4175474	0.000171	4.62E-04	0.00E+00	1.71E-04	4.62E-04	0.00E+00	2.79E-05	6.99E-05	0.00E+00	1.46E-05	2.66E-05	0.00E+00
2593	599852.1	4175478	0.000182	4.90E-04	0.00E+00	1.82E-04	4.90E-04	0.00E+00	2.95E-05	7.40E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
2594	599860.8	4175482	0.000191	5.15E-04	0.00E+00	1.91E-04	5.15E-04	0.00E+00	3.11E-05	7.79E-05	0.00E+00	1.62E-05	2.97E-05	0.00E+00
2595	599869.5	4175486	0.0002	5.38E-04	0.00E+00	2.00E-04	5.38E-04	0.00E+00	3.25E-05	8.14E-05	0.00E+00	1.69E-05	3.10E-05	0.00E+00
2596	599878.1	4175490	0.000203	5.47E-04	0.00E+00	2.03E-04	5.47E-04	0.00E+00	3.30E-05	8.27E-05	0.00E+00	1.72E-05	3.15E-05	0.00E+00
2597	599886.8	4175494	0.000201	5.42E-04	0.00E+00	2.01E-04	5.42E-04	0.00E+00	3.27E-05	8.19E-05	0.00E+00	1.71E-05	3.12E-05	0.00E+00
2598	599895.5	4175497	0.000197	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.05E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
2599	599904.2	4175501	0.000192	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.13E-05	7.83E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
2600	599912.9	4175505	0.000182	4.90E-04	0.00E+00	1.82E-04	4.90E-04	0.00E+00	2.95E-05	7.40E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
2601	599921.6	4175509	0.00017	4.60E-04	0.00E+00	1.70E-04	4.60E-04	0.00E+00	2.77E-05	6.95E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
2602	599930.3	4175513	0.00016	4.31E-04	0.00E+00	1.60E-04	4.31E-04	0.00E+00	2.60E-05	6.51E-05	0.00E+00	1.36E-05	2.48E-05	0.00E+00
2603	599938.9	4175517	0.000155	4.17E-04	0.00E+00	1.55E-04	4.17E-04	0.00E+00	2.52E-05	6.31E-05	0.00E+00	1.31E-05	2.41E-05	0.00E+00
2604	599947.6	4175521	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.49E-05	6.23E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
2605	599956.3	4175524	0.00015	4.05E-04	0.00E+00	1.50E-04	4.05E-04	0.00E+00	2.45E-05	6.13E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
2606	599965	4175528	0.000147	3.97E-04	0.00E+00	1.47E-04	3.97E-04	0.00E+00	2.40E-05	6.01E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
2607	599973.7	4175532	0.000144	3.88E-04	0.00E+00	1.44E-04	3.88E-04	0.00E+00	2.34E-05	5.87E-05	0.00E+00	1.22E-05	2.24E-05	0.00E+00
2608	599982.4	4175536	0.000141	3.79E-04	0.00E+00	1.41E-04	3.79E-04	0.00E+00	2.29E-05	5.74E-05	0.00E+00	1.19E-05	2.19E-05	0.00E+00
2609	599991.1	4175540	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.29E-05	5.74E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
2610	599999.7	4175544	0.000143	3.86E-04	0.00E+00	1.43E-04	3.86E-04	0.00E+00	2.33E-05	5.84E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
2611	600008.4	4175548	0.000147	3.96E-04	0.00E+00	1.47E-04	3.96E-04	0.00E+00	2.39E-05	5.99E-05	0.00E+00	1.25E-05	2.28E-05	0.00E+00
2612	600017.1	4175551	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.45E-05	6.15E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
2613	600025.8	4175555	0.000155	4.18E-04	0.00E+00	1.55E-04	4.18E-04	0.00E+00	2.52E-05	6.32E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
2614	600034.5	4175559	0.000159	4.29E-04	0.00E+00	1.59E-04	4.29E-04	0.00E+00	2.59E-05	6.49E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
2615	600043.2	4175563	0.000164	4.41E-04	0.00E+00	1.64E-04	4.41E-04	0.00E+00	2.66E-05	6.67E-05	0.00E+00	1.39E-05	2.54E-05	0.00E+00
2616	600051.9	4175567	0.000169	4.57E-04	0.00E+00	1.69E-04	4.57E-04	0.00E+00	2.75E-05	6.90E-05	0.00E+00	1.44E-05	2.63E-05	0.00E+00
2617	600060.5	4175571	0.000177	4.76E-04	0.00E+00	1.77E-04	4.76E-04	0.00E+00	2.87E-05	7.20E-05	0.00E+00	1.50E-05	2.74E-05	0.00E+00
2618	600069.2	4175575	0.000183	4.94E-04	0.00E+00	1.83E-04	4.94E-04	0.00E+00	2.98E-05	7.46E-05	0.00E+00	1.55E-05	2.85E-05	0.00E+00
2619	600227.9	4175729	0.000207	5.58E-04	0.00E+00	2.07E-04	5.58E-04	0.00E+00	3.37E-05	8.44E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
2620	600231.7	4175738	0.000204	5.49E-04	0.00E+00	2.04E-04	5.49E-04	0.00E+00	3.31E-05	8.30E-05	0.00E+00	1.73E-05	3.16E-05	0.00E+00
2621	600235.5	4175747	0.0002	5.40E-04	0.00E+00	2.00E-04	5.40E-04	0.00E+00	3.26E-05	8.16E-05	0.00E+00	1.70E-05	3.11E-05	0.00E+00
2622	600239.3	4175755	0.000195	5.25E-04	0.00E+00	1.95E-04	5.25E-04	0.00E+00	3.17E-05	7.94E-05	0.00E+00	1.65E-05	3.03E-05	0.00E+00
2623	600243.1	4175764	0.00019	5.12E-04	0.00E+00	1.90E-04	5.12E-04	0.00E+00	3.09E-05	7.74E-05	0.00E+00	1.61E-05	2.95E-05	0.00E+00
2624	600246.9	4175773	0.000186	5.01E-04	0.00E+00	1.86E-04	5.01E-04	0.00E+00	3.03E-05	7.58E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
2625	600250.7	4175781	0.000183	4.93E-04	0.00E+00	1.83E-04	4.93E-04	0.00E+00	2.97E-05	7.45E-05	0.00E+00	1.55E-05	2.84E-05	0.00E+00
2626	600254.5	4175790	0.000181	4.87E-04	0.00E+00	1.81E-04	4.87E-04	0.00E+00	2.94E-05	7.36E-05	0.00E+00	1.53E-05	2.81E-05	0.00E+00
2627	600258.3	4175799	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.28E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
2628	600262.2	4175808	0.000177	4.77E-04	0.00E+00	1.77E-04	4.77E-04	0.00E+00	2.88E-05	7.21E-05	0.00E+00	1.50E-05	2.75E-05	0.00E+00
2629	600266	4175816	0.000172	4.65E-04	0.00E+00	1.72E-04	4.65E-04	0.00E+00	2.80E-05	7.03E-05	0.00E+00	1.46E-05	2.68E-05	0.00E+00
2630	600269.8	4175825	0.000168	4.52E-04	0.00E+00	1.68E-04	4.52E-04	0.00E+00	2.73E-05	6.83E-05	0.00E+00	1.42E-05	2.60E-05	0.00E+00
2631	600273.6	4175834	0.000164	4.41E-04	0.00E+00	1.64E-04	4.41E-04	0.00E+00	2.66E-05	6.67E-05	0.00E+00	1.39E-05	2.54E-05	0.00E+00
2632	600277.4	4175842	0.00016	4.31E-04	0.00E+00	1.60E-04	4.31E-04	0.00E+00	2.60E-05	6.52E-05	0.00E+00	1.36E-05	2.49E-05	0.00E+00
2633	600281.2	4175851	0.000157	4.23E-04	0.00E+00	1.57E-04	4.23E-04	0.00E+00	2.55E-05	6.39E-05	0.00E+00	1.33E-05	2.44E-05	0.00E+00
2634	600285	4175860	0.000154	4.15E-04	0.00E+00	1.54E-04	4.15E-04	0.00E+00	2.50E-05	6.28E-05	0.00E+00	1.31E-05	2.39E-05	0.00E+00
2635	600288.8	4175868	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.46E-05	6.15E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
2636	600292.6	4175877	0.000147	3.97E-04	0.00E+00	1.47E-04	3.97E-04	0.00E+00	2.40E-05	6.01E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00

2637	600296.5	4175886	0.000143	3.86E-04	0.00E+00		1.43E-04	3.86E-04	0.00E+00		2.33E-05	5.84E-05	0.00E+00		1.22E-05	2.22E-05	0.00E+00
2638	600300.3	4175895	0.000139	3.75E-04	0.00E+00		1.39E-04	3.75E-04	0.00E+00		2.26E-05	5.67E-05	0.00E+00		1.18E-05	2.16E-05	0.00E+00
2639	600304.1	4175903	0.000135	3.65E-04	0.00E+00		1.35E-04	3.65E-04	0.00E+00		2.20E-05	5.51E-05	0.00E+00		1.15E-05	2.10E-05	0.00E+00
2640	600307.9	4175912	0.000132	3.55E-04	0.00E+00		1.32E-04	3.55E-04	0.00E+00		2.14E-05	5.37E-05	0.00E+00		1.12E-05	2.05E-05	0.00E+00
2641	600311.7	4175921	0.000131	3.53E-04	0.00E+00		1.31E-04	3.53E-04	0.00E+00		2.13E-05	5.33E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
2642	600315.5	4175929	0.000129	3.48E-04	0.00E+00		1.29E-04	3.48E-04	0.00E+00		2.10E-05	5.26E-05	0.00E+00		1.09E-05	2.00E-05	0.00E+00
2643	600319.3	4175938	0.000128	3.46E-04	0.00E+00		1.28E-04	3.46E-04	0.00E+00		2.09E-05	5.23E-05	0.00E+00		1.09E-05	1.99E-05	0.00E+00
2644	600323.1	4175947	0.000126	3.40E-04	0.00E+00		1.26E-04	3.40E-04	0.00E+00		2.05E-05	5.15E-05	0.00E+00		1.07E-05	1.96E-05	0.00E+00
2645	600326.9	4175956	0.000127	3.41E-04	0.00E+00		1.27E-04	3.41E-04	0.00E+00		2.06E-05	5.16E-05	0.00E+00		1.07E-05	1.97E-05	0.00E+00
2646	600330.7	4175964	0.000124	3.35E-04	0.00E+00		1.24E-04	3.35E-04	0.00E+00		2.02E-05	5.07E-05	0.00E+00		1.06E-05	1.93E-05	0.00E+00
2647	600334.6	4175973	0.000124	3.34E-04	0.00E+00		1.24E-04	3.34E-04	0.00E+00		2.02E-05	5.05E-05	0.00E+00		1.05E-05	1.93E-05	0.00E+00
2648	600338.4	4175982	0.000123	3.32E-04	0.00E+00		1.23E-04	3.32E-04	0.00E+00		2.00E-05	5.02E-05	0.00E+00		1.05E-05	1.91E-05	0.00E+00
2649	600342.2	4175990	0.000122	3.30E-04	0.00E+00		1.22E-04	3.30E-04	0.00E+00		1.99E-05	4.99E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
2650	600346	4175999	0.000122	3.29E-04	0.00E+00		1.22E-04	3.29E-04	0.00E+00		1.98E-05	4.97E-05	0.00E+00		1.04E-05	1.89E-05	0.00E+00
2651	600349.8	4176008	0.000121	3.27E-04	0.00E+00		1.21E-04	3.27E-04	0.00E+00		1.97E-05	4.95E-05	0.00E+00		1.03E-05	1.89E-05	0.00E+00
2652	600353.6	4176016	0.000121	3.26E-04	0.00E+00		1.21E-04	3.26E-04	0.00E+00		1.97E-05	4.93E-05	0.00E+00		1.03E-05	1.88E-05	0.00E+00
2653	600357.4	4176025	0.000121	3.27E-04	0.00E+00		1.21E-04	3.27E-04	0.00E+00		1.98E-05	4.95E-05	0.00E+00		1.03E-05	1.89E-05	0.00E+00
2654	600361.2	4176034	0.000122	3.29E-04	0.00E+00		1.22E-04	3.29E-04	0.00E+00		1.99E-05	4.98E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
2655	600365	4176043	0.000123	3.31E-04	0.00E+00		1.23E-04	3.31E-04	0.00E+00		2.00E-05	5.00E-05	0.00E+00		1.04E-05	1.91E-05	0.00E+00
2656	600368.9	4176051	0.000123	3.32E-04	0.00E+00		1.23E-04	3.32E-04	0.00E+00		2.00E-05	5.01E-05	0.00E+00		1.04E-05	1.91E-05	0.00E+00
2657	600372.7	4176060	0.000123	3.32E-04	0.00E+00		1.23E-04	3.32E-04	0.00E+00		2.00E-05	5.02E-05	0.00E+00		1.05E-05	1.91E-05	0.00E+00
2658	599757.3	4175416	0.000197	5.31E-04	0.00E+00		1.97E-04	5.31E-04	0.00E+00		3.21E-05	8.04E-05	0.00E+00		1.67E-05	3.06E-05	0.00E+00
2659	599765.9	4175419	0.000183	4.94E-04	0.00E+00		1.83E-04	4.94E-04	0.00E+00		2.98E-05	7.46E-05	0.00E+00		1.55E-05	2.84E-05	0.00E+00
2660	599774.6	4175423	0.000165	4.45E-04	0.00E+00		1.65E-04	4.45E-04	0.00E+00		2.69E-05	6.73E-05	0.00E+00		1.40E-05	2.56E-05	0.00E+00
2661	599783.2	4175427	0.000145	3.90E-04	0.00E+00		1.45E-04	3.90E-04	0.00E+00		2.35E-05	5.90E-05	0.00E+00		1.23E-05	2.25E-05	0.00E+00
2662	599791.8	4175431	0.00013	3.50E-04	0.00E+00		1.30E-04	3.50E-04	0.00E+00		2.11E-05	5.30E-05	0.00E+00		1.10E-05	2.02E-05	0.00E+00
2663	599800.4	4175435	0.000123	3.31E-04	0.00E+00		1.23E-04	3.31E-04	0.00E+00		2.00E-05	5.00E-05	0.00E+00		1.04E-05	1.91E-05	0.00E+00
2664	599809	4175439	0.000115	3.10E-04	0.00E+00		1.15E-04	3.10E-04	0.00E+00		1.87E-05	4.68E-05	0.00E+00		9.75E-06	1.78E-05	0.00E+00
2665	599817.6	4175442	0.000115	3.10E-04	0.00E+00		1.15E-04	3.10E-04	0.00E+00		1.87E-05	4.69E-05	0.00E+00		9.77E-06	1.79E-05	0.00E+00
2666	599826.2	4175446	0.000125	3.38E-04	0.00E+00		1.25E-04	3.38E-04	0.00E+00		2.04E-05	5.11E-05	0.00E+00		1.06E-05	1.95E-05	0.00E+00
2667	599834.8	4175450	0.00014	3.78E-04	0.00E+00		1.40E-04	3.78E-04	0.00E+00		2.28E-05	5.72E-05	0.00E+00		1.19E-05	2.18E-05	0.00E+00
2668	599843.4	4175454	0.000157	4.24E-04	0.00E+00		1.57E-04	4.24E-04	0.00E+00		2.56E-05	6.41E-05	0.00E+00		1.34E-05	2.44E-05	0.00E+00
2669	599852	4175458	0.000168	4.52E-04	0.00E+00		1.68E-04	4.52E-04	0.00E+00		2.73E-05	6.83E-05	0.00E+00		1.42E-05	2.60E-05	0.00E+00
2670	599860.6	4175461	0.000177	4.78E-04	0.00E+00		1.77E-04	4.78E-04	0.00E+00		2.89E-05	7.23E-05	0.00E+00		1.51E-05	2.76E-05	0.00E+00
2671	599869.2	4175465	0.000187	5.04E-04	0.00E+00		1.87E-04	5.04E-04	0.00E+00		3.04E-05	7.62E-05	0.00E+00		1.59E-05	2.90E-05	0.00E+00
2672	599877.8	4175469	0.000192	5.19E-04	0.00E+00		1.92E-04	5.19E-04	0.00E+00		3.13E-05	7.85E-05	0.00E+00		1.63E-05	2.99E-05	0.00E+00
2673	599886.5	4175473	0.000194	5.22E-04	0.00E+00		1.94E-04	5.22E-04	0.00E+00		3.15E-05	7.90E-05	0.00E+00		1.65E-05	3.01E-05	0.00E+00
2674	599895.1	4175477	0.000194	5.24E-04	0.00E+00		1.94E-04	5.24E-04	0.00E+00		3.16E-05	7.92E-05	0.00E+00		1.65E-05	3.02E-05	0.00E+00
2675	599903.7	4175481	0.000194	5.22E-04	0.00E+00		1.94E-04	5.22E-04	0.00E+00		3.15E-05	7.89E-05	0.00E+00		1.64E-05	3.01E-05	0.00E+00
2676	599912.3	4175484	0.000189	5.09E-04	0.00E+00		1.89E-04	5.09E-04	0.00E+00		3.07E-05	7.69E-05	0.00E+00		1.60E-05	2.93E-05	0.00E+00
2677	599920.9	4175488	0.000182	4.90E-04	0.00E+00		1.82E-04	4.90E-04	0.00E+00		2.96E-05	7.41E-05	0.00E+00		1.54E-05	2.83E-05	0.00E+00
2678	599929.5	4175492	0.000173	4.67E-04	0.00E+00		1.73E-04	4.67E-04	0.00E+00		2.82E-05	7.06E-05	0.00E+00		1.47E-05	2.69E-05	0.00E+00
2679	599938.1	4175496	0.000167	4.49E-04	0.00E+00		1.67E-04	4.49E-04	0.00E+00		2.71E-05	6.79E-05	0.00E+00		1.41E-05	2.59E-05	0.00E+00
2680	599946.7	4175500	0.000163	4.40E-04	0.00E+00		1.63E-04	4.40E-04	0.00E+00		2.66E-05	6.66E-05	0.00E+00		1.39E-05	2.54E-05	0.00E+00
2681	599955.3	4175504	0.00016	4.32E-04	0.00E+00		1.60E-04	4.32E-04	0.00E+00		2.60E-05	6.53E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
2682	599963.9	4175507	0.000158	4.25E-04	0.00E+00		1.58E-04	4.25E-04	0.00E+00		2.56E-05	6.42E-05	0.00E+00		1.34E-05	2.45E-05	0.00E+00
2683	599972.5	4175511	0.000156	4.19E-04	0.00E+00		1.56E-04	4.19E-04	0.00E+00		2.53E-05	6.34E-05	0.00E+00		1.32E-05	2.42E-05	0.00E+00
2684	599981.1	4175515	0.000153	4.13E-04	0.00E+00		1.53E-04	4.13E-04	0.00E+00		2.49E-05	6.24E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
2685	599989.7	4175519	0.00015	4.04E-04	0.00E+00		1.50E-04	4.04E-04	0.00E+00		2.44E-05	6.12E-05	0.00E+00		1.27E-05	2.33E-05	0.00E+00
2686	599998.3	4175523	0.000147	3.96E-04	0.00E+00		1.47E-04	3.96E-04	0.00E+00		2.39E-05	5.99E-05	0.00E+00		1.25E-05	2.28E-05	0.00E+00
2687	600007	4175526	0.000145	3.91E-04	0.00E+00		1.45E-04	3.91E-04	0.00E+00		2.36E-05	5.91E-05	0.00E+00		1.23E-05	2.25E-05	0.00E+00
2688	600015.6	4175530	0.000144	3.89E-04	0.00E+00		1.44E-04	3.89E-04	0.00E+00		2.35E-05	5.89E-05	0.00E+00		1.23E-05	2.24E-05	0.00E+00
2689	600024.2	4175534	0.000145	3.91E-04	0.00E+00		1.45E-04	3.91E-04	0.00E+00		2.36E-05	5.91E-05	0.00E+00		1.23E-05	2.25E-05	0.00E+00
2690	600032.8	4175538	0.000147	3.98E-04	0.00E+00		1.47E-04	3.98E-04	0.00E+00		2.40E-05	6.01E-05	0.00E+00		1.25E-05	2.29E-05	0.00E+00
2691	600041.4	4175542	0.000151	4.08E-04	0.00E+00		1.51E-04	4.08E-04	0.00E+00		2.46E-05	6.16E-05	0.00E+00		1.28E-05	2.35E-05	0.00E+00
2692	600050	4175546	0.000155	4.18E-04	0.00E+00		1.55E-04	4.18E-04	0.00E+00		2.52E-05	6.32E-05	0.00E+00		1.32E-05	2.41E-05	0.00E+00
2693	600058.6	4175549	0.000155	4.19E-04	0.00E+00		1.55E-04	4.19E-04	0.00E+00		2.53E-05	6.33E-05	0.00E+00		1.32E-05	2.41E-05	0.00E+00
2694	600067.2	4175553	0.000154	4.15E-04	0.00E+00		1.54E-04	4.15E-04	0.00E+00		2.50E-05	6.27E-05	0.00E+00		1.31E-05	2.39E-05	0.00E+00
2695	600237.9	4175705	0.000201	5.42E-04	0.00E+00		2.01E-04	5.42E-04	0.00E+00		3.27E-05	8.19E-05	0.00E+00		1.71E-05	3.12E-05	0.00E+00
2696	600241.6	4175714	0.000201	5.41E-04	0.00E+00		2.01E-04	5.41E-04	0.00E+00		3.26E-05	8.18E-05	0.00E+00		1.70E-05	3.12E-05	0.00E+00
2697	600245.4	4175723	0.000197	5.32E-04	0.00E+00		1.97E-04	5.32E-04	0.00E+00		3.21E-05	8.05E-05	0.00E+00		1.68E-05	3.07E-05	0.00E+00
2698	600249.2	4175731	0.000195	5.25E-04	0.00E+00		1.95E-04	5.25E-04	0.00E+00		3.17E-05	7.93E-05	0.00E+00		1.65E-05	3.02E-05	0.00E+00
2699	600253	4175740	0.000193	5.21E-04	0.00E+00		1.93E-04	5.21E-04	0.00E+00		3.14E-05	7.87E-05	0.00E+00		1.64E-05	3.00E-05	0.00E+00
2700	600256.7	4175749	0.000191	5.16E-04	0.00E+00		1.91E-04	5.16E-04	0.00E+00		3.11E-05	7.80E-05	0.00E+00		1.62E-05	2.97E-05	0.00E+00
2701	600260.5	4175757	0.000187	5.05E-04	0.00E+00		1.87E-04	5.05E-04	0.00E+00		3.05E-05	7.64E-05	0.00E+00		1.59E-05	2.91E-05	0.00E+00
2702	600264.3	4175766	0.000183	4.95E-04	0.00E+00		1.83E-04	4.95E-04	0.00E+00		2.98E-05	7.48E-05	0.00E+00		1.56E-05	2.85E-05	0.00E+00
2703	600268.1	4175775	0.000178	4.81E-04	0.00E+00		1.78E-04	4.81E-04	0.00E+00		2.90E-05	7.27E-05	0.00E+00		1.51E-05	2.77E-05	0.00E+00
2704	600271.8	4175783	0.000174	4.70E-04	0.00E+00		1.74E-04	4.70E-04	0.00E+00		2.83E-05	7.10E-05	0.00E+00		1.48E-05	2.71E-05	0.00E+00
2705	600275.6	4175792	0.000171	4.60E-04	0.00E+00		1.71E-04	4.60E-04	0.00E+00		2.78E-05	6.96E-05	0.00E+00		1.45E-05	2.65E-05	0.00E+00
2706	600279.4	4175800	0.000167	4.51E-04	0.00E+00		1.67E-04	4.51E-04	0.00E+00		2.72E-05	6.83E-05	0.00E+00		1.42E-05	2.60E-05	0.00E+00
2707	600283.2	4175809	0.000164	4.42E-04	0.00E+00		1.64E-04	4.42E-04	0.00E+00		2.67E-05	6.69E-05	0.00E+00		1.39E-05	2.55E-05	0.00E+00
2708	600286.9	4175818	0.00016	4.33E-04	0.00E+00		1.60E-04	4.33E-04	0.00E+00		2.61E-05	6.54E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
2709	600290.7	4175826	0.000157	4.24E-04	0.00E+00		1.57E-04	4.24E-04	0.00E+00		2.56E-05	6.41E-05	0.00E+00		1.34E-05	2.44E-05	0.00E+00
2710	600294.5	4175835	0.000154	4.16E-04	0.00E+00		1.54E-04	4.16E-04	0.00E+00		2.51E-05	6.30E-05	0.00E+00		1.31E-05	2.40E-05	0.00E+00
2711	600298.3	4175844	0.000151	4.07E-04	0.00E+00		1.51E-04	4.07E-04	0.00E+00		2.46E-05	6.16E-05	0.00E+00		1.28E-05	2.35E-05	0.00E+00
2712	600302.1	4175852	0.000148	3.98E-04	0.00E+00		1.48E-04	3.98E-04	0.00E+00		2.40E-05	6.01E-05	0.00E+00		1.25E-05	2.29E-05	0.00E+00
2713	600305.8	4175861	0.000144	3.88E-04	0.00E+00		1.44E-04	3.88E-04	0.00E+00		2.34E-05	5.87E-05	0.00E+00		1.22E-05	2.24E-05	0.00E+00
2714	600309.6	4175869	0.00014	3.78E-04	0.00E+00		1.40E-04	3.78E-04	0.00E+00		2.28E-05	5.72E-05	0.00E+00		1.19E-05	2.18E-05	0.00E+00
2715	600313.4	4175878	0.000137	3.68E-04	0.00E+00		1.37E-04	3.68E-04	0.00E+00		2.22E-05	5.57E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
2716	600317.2	4175887	0.000133	3.60E-04	0.00E+00		1.33E-04	3.60E-04	0.00E+00		2.17E-05	5.44E-05	0.00E+00		1.13E-05	2.07E-05	0.00E+00
2717	600320.9	4175895	0.000131	3.52E-04	0.00E+00		1.31E-04	3.52E-04	0.00E+00		2.12E-05	5.32E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
2718	600324.7	4175904	0.000129	3.47E-04	0.00E+00		1.29E-04	3.47E-04	0.00E+00		2.09E-05	5.24E-05	0.00E+00		1.09E-05	2.00E-05	0.00E+00
2719	600328.5	4175913	0.000127	3.42E-04	0.00E+00		1.27E-04	3.42E-04	0.00E+00		2.07E-05	5.18E-05	0.00E+00		1.08E-05	1.97E-05	0.00E+00
2720	600332.3	4175921	0.000125	3.38E-04	0.00E+00		1.25E-04	3.38E-04	0.00E+00		2.04E-05	5.11E-05	0.00E+00		1.06E-05	1.95E-05	0.00E+00
2721	600336	4175930	0.000125	3.36E-04	0.00E+00		1.25E-04	3.36E-04	0.00E+00		2.03E-05	5.08E-05	0.00E+00		1.06E-05	1.94E-05	0.00E+00
2722	600339.8	4175938	0.000123	3.33E-04	0.00E+00		1.23E-04	3.33E-04	0.00E+00		2.01E-05	5.03E-05	0.00E+00		1.05E-05	1.92E-05	0.00E+00
2723	600343.6	4175947	0.000122	3.29E-04	0.00E+00		1.22E-04	3.29E-04	0.00E+00		1.99E-05	4.98E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
2724	600347.4	4175956	0.00012	3.25E-04	0.00E+00		1.20E-04	3.25E-04	0.00E+00		1.96E-05	4.91E-05	0.00E+00		1.02E-05	1.87E-05	0.00E+00
2725	600351.1	4175964	0.000118	3.17E-04	0.00E+00		1.18E-04	3.17E-04	0.00E+00		1.91E-05	4.80E-05	0.00E+00		9.99E-06	1.83E-05	0.00E+00
2726	600354.9	4175973	0.000116	3.14E-04	0.00E+00		1.16E-04	3.14E-04	0.00E+00		1.89E-05	4.75E-05	0.00E+00		9.89E-06	1.81E-05	0.00E+00
2727	600358.7	4175982	0.000115	3.11E-04	0.00E+00		1.15E-04	3.11E-04	0.00E+00		1.87E-05	4.70E-05	0.00E+00		9.78E-06	1.79E-05	0.00E+00

2728	600362.5	4175990	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.71E-06	1.78E-05	0.00E+00
2729	600366.2	4175999	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.70E-06	1.78E-05	0.00E+00
2730	600370	4176007	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.70E-06	1.77E-05	0.00E+00
2731	600373.8	4176016	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.71E-06	1.78E-05	0.00E+00
2732	600377.6	4176025	0.000114	3.09E-04	0.00E+00	1.14E-04	3.09E-04	0.00E+00	1.86E-05	4.67E-05	0.00E+00	9.72E-06	1.78E-05	0.00E+00
2733	600381.3	4176033	0.000115	3.09E-04	0.00E+00	1.15E-04	3.09E-04	0.00E+00	1.87E-05	4.67E-05	0.00E+00	9.74E-06	1.78E-05	0.00E+00
2734	600385.1	4176042	0.000115	3.10E-04	0.00E+00	1.15E-04	3.10E-04	0.00E+00	1.87E-05	4.68E-05	0.00E+00	9.76E-06	1.79E-05	0.00E+00
2735	600388.9	4176051	0.000115	3.10E-04	0.00E+00	1.15E-04	3.10E-04	0.00E+00	1.87E-05	4.68E-05	0.00E+00	9.76E-06	1.79E-05	0.00E+00
2736	600392.7	4176059	0.000115	3.09E-04	0.00E+00	1.15E-04	3.09E-04	0.00E+00	1.86E-05	4.67E-05	0.00E+00	9.72E-06	1.78E-05	0.00E+00
2737	599758.5	4175396	0.000173	4.67E-04	0.00E+00	1.73E-04	4.67E-04	0.00E+00	2.82E-05	7.07E-05	0.00E+00	1.47E-05	2.69E-05	0.00E+00
2738	599767.2	4175400	0.000171	4.60E-04	0.00E+00	1.71E-04	4.60E-04	0.00E+00	2.78E-05	6.96E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
2739	599775.9	4175403	0.000166	4.48E-04	0.00E+00	1.66E-04	4.48E-04	0.00E+00	2.71E-05	6.78E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
2740	599784.5	4175407	0.00016	4.31E-04	0.00E+00	1.60E-04	4.31E-04	0.00E+00	2.60E-05	6.52E-05	0.00E+00	1.36E-05	2.48E-05	0.00E+00
2741	599793.2	4175411	0.000149	4.02E-04	0.00E+00	1.49E-04	4.02E-04	0.00E+00	2.43E-05	6.08E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
2742	599801.9	4175415	0.000137	3.69E-04	0.00E+00	1.37E-04	3.69E-04	0.00E+00	2.22E-05	5.57E-05	0.00E+00	1.16E-05	2.12E-05	0.00E+00
2743	599810.6	4175419	0.000127	3.41E-04	0.00E+00	1.27E-04	3.41E-04	0.00E+00	2.06E-05	5.16E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
2744	599819.3	4175423	0.000126	3.41E-04	0.00E+00	1.26E-04	3.41E-04	0.00E+00	2.06E-05	5.16E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
2745	599828	4175427	0.00013	3.50E-04	0.00E+00	1.30E-04	3.50E-04	0.00E+00	2.11E-05	5.30E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
2746	599836.7	4175430	0.00014	3.78E-04	0.00E+00	1.40E-04	3.78E-04	0.00E+00	2.28E-05	5.72E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
2747	599845.4	4175434	0.000151	4.08E-04	0.00E+00	1.51E-04	4.08E-04	0.00E+00	2.46E-05	6.17E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
2748	599854.1	4175438	0.00016	4.32E-04	0.00E+00	1.60E-04	4.32E-04	0.00E+00	2.61E-05	6.54E-05	0.00E+00	1.36E-05	2.49E-05	0.00E+00
2749	599862.8	4175442	0.00017	4.57E-04	0.00E+00	1.70E-04	4.57E-04	0.00E+00	2.76E-05	6.92E-05	0.00E+00	1.44E-05	2.64E-05	0.00E+00
2750	599871.5	4175446	0.000179	4.83E-04	0.00E+00	1.79E-04	4.83E-04	0.00E+00	2.92E-05	7.31E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
2751	599880.2	4175450	0.000185	4.98E-04	0.00E+00	1.85E-04	4.98E-04	0.00E+00	3.01E-05	7.53E-05	0.00E+00	1.57E-05	2.87E-05	0.00E+00
2752	599888.9	4175454	0.000189	5.08E-04	0.00E+00	1.89E-04	5.08E-04	0.00E+00	3.07E-05	7.69E-05	0.00E+00	1.60E-05	2.93E-05	0.00E+00
2753	599897.6	4175457	0.000192	5.17E-04	0.00E+00	1.92E-04	5.17E-04	0.00E+00	3.12E-05	7.81E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
2754	599906.2	4175461	0.000193	5.21E-04	0.00E+00	1.93E-04	5.21E-04	0.00E+00	3.14E-05	7.87E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
2755	599914.9	4175465	0.000191	5.15E-04	0.00E+00	1.91E-04	5.15E-04	0.00E+00	3.11E-05	7.79E-05	0.00E+00	1.62E-05	2.97E-05	0.00E+00
2756	599923.6	4175469	0.000188	5.08E-04	0.00E+00	1.88E-04	5.08E-04	0.00E+00	3.07E-05	7.68E-05	0.00E+00	1.60E-05	2.93E-05	0.00E+00
2757	599932.3	4175473	0.000185	4.99E-04	0.00E+00	1.85E-04	4.99E-04	0.00E+00	3.01E-05	7.54E-05	0.00E+00	1.57E-05	2.88E-05	0.00E+00
2758	599941	4175477	0.000183	4.94E-04	0.00E+00	1.83E-04	4.94E-04	0.00E+00	2.98E-05	7.46E-05	0.00E+00	1.55E-05	2.84E-05	0.00E+00
2759	599949.7	4175481	0.00018	4.86E-04	0.00E+00	1.80E-04	4.86E-04	0.00E+00	2.93E-05	7.35E-05	0.00E+00	1.53E-05	2.80E-05	0.00E+00
2760	599958.4	4175484	0.000177	4.78E-04	0.00E+00	1.77E-04	4.78E-04	0.00E+00	2.89E-05	7.23E-05	0.00E+00	1.51E-05	2.76E-05	0.00E+00
2761	599967.1	4175488	0.000174	4.70E-04	0.00E+00	1.74E-04	4.70E-04	0.00E+00	2.84E-05	7.11E-05	0.00E+00	1.48E-05	2.71E-05	0.00E+00
2762	599975.8	4175492	0.000171	4.62E-04	0.00E+00	1.71E-04	4.62E-04	0.00E+00	2.79E-05	6.98E-05	0.00E+00	1.45E-05	2.66E-05	0.00E+00
2763	599984.5	4175496	0.000168	4.53E-04	0.00E+00	1.68E-04	4.53E-04	0.00E+00	2.73E-05	6.85E-05	0.00E+00	1.43E-05	2.61E-05	0.00E+00
2764	599993.2	4175500	0.000165	4.45E-04	0.00E+00	1.65E-04	4.45E-04	0.00E+00	2.69E-05	6.73E-05	0.00E+00	1.40E-05	2.57E-05	0.00E+00
2765	600001.9	4175504	0.000159	4.29E-04	0.00E+00	1.59E-04	4.29E-04	0.00E+00	2.59E-05	6.49E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
2766	600010.6	4175508	0.000154	4.16E-04	0.00E+00	1.54E-04	4.16E-04	0.00E+00	2.51E-05	6.29E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
2767	600019.3	4175512	0.000151	4.06E-04	0.00E+00	1.51E-04	4.06E-04	0.00E+00	2.45E-05	6.14E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
2768	600027.9	4175515	0.00015	4.03E-04	0.00E+00	1.50E-04	4.03E-04	0.00E+00	2.43E-05	6.10E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
2769	600036.6	4175519	0.00015	4.04E-04	0.00E+00	1.50E-04	4.04E-04	0.00E+00	2.44E-05	6.11E-05	0.00E+00	1.27E-05	2.33E-05	0.00E+00
2770	600045.3	4175523	0.000151	4.06E-04	0.00E+00	1.51E-04	4.06E-04	0.00E+00	2.45E-05	6.14E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
2771	600054	4175527	0.000151	4.08E-04	0.00E+00	1.51E-04	4.08E-04	0.00E+00	2.46E-05	6.17E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
2772	600062.7	4175531	0.000145	3.90E-04	0.00E+00	1.45E-04	3.90E-04	0.00E+00	2.36E-05	5.90E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
2773	600071.4	4175535	0.00014	3.78E-04	0.00E+00	1.40E-04	3.78E-04	0.00E+00	2.28E-05	5.71E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
2774	600252.4	4175692	0.000181	4.89E-04	0.00E+00	1.81E-04	4.89E-04	0.00E+00	2.95E-05	7.39E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
2775	600256.3	4175701	0.000181	4.89E-04	0.00E+00	1.81E-04	4.89E-04	0.00E+00	2.95E-05	7.40E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
2776	600260.1	4175710	0.000181	4.89E-04	0.00E+00	1.81E-04	4.89E-04	0.00E+00	2.95E-05	7.39E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
2777	600263.9	4175718	0.000181	4.88E-04	0.00E+00	1.81E-04	4.88E-04	0.00E+00	2.94E-05	7.38E-05	0.00E+00	1.54E-05	2.81E-05	0.00E+00
2778	600267.7	4175727	0.00018	4.84E-04	0.00E+00	1.80E-04	4.84E-04	0.00E+00	2.92E-05	7.32E-05	0.00E+00	1.53E-05	2.79E-05	0.00E+00
2779	600271.5	4175736	0.000178	4.80E-04	0.00E+00	1.78E-04	4.80E-04	0.00E+00	2.90E-05	7.26E-05	0.00E+00	1.51E-05	2.77E-05	0.00E+00
2780	600275.3	4175745	0.000176	4.75E-04	0.00E+00	1.76E-04	4.75E-04	0.00E+00	2.87E-05	7.19E-05	0.00E+00	1.50E-05	2.74E-05	0.00E+00
2781	600279.1	4175753	0.000172	4.63E-04	0.00E+00	1.72E-04	4.63E-04	0.00E+00	2.80E-05	7.01E-05	0.00E+00	1.46E-05	2.67E-05	0.00E+00
2782	600283	4175762	0.000168	4.52E-04	0.00E+00	1.68E-04	4.52E-04	0.00E+00	2.73E-05	6.84E-05	0.00E+00	1.42E-05	2.61E-05	0.00E+00
2783	600286.8	4175771	0.000164	4.43E-04	0.00E+00	1.64E-04	4.43E-04	0.00E+00	2.67E-05	6.70E-05	0.00E+00	1.40E-05	2.55E-05	0.00E+00
2784	600290.6	4175779	0.000161	4.35E-04	0.00E+00	1.61E-04	4.35E-04	0.00E+00	2.62E-05	6.58E-05	0.00E+00	1.37E-05	2.51E-05	0.00E+00
2785	600294.4	4175788	0.000159	4.28E-04	0.00E+00	1.59E-04	4.28E-04	0.00E+00	2.58E-05	6.47E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
2786	600298.2	4175797	0.000156	4.20E-04	0.00E+00	1.56E-04	4.20E-04	0.00E+00	2.53E-05	6.35E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
2787	600302	4175806	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.48E-05	6.23E-05	0.00E+00	1.30E-05	2.37E-05	0.00E+00
2788	600305.8	4175814	0.00015	4.03E-04	0.00E+00	1.50E-04	4.03E-04	0.00E+00	2.43E-05	6.10E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
2789	600309.7	4175823	0.000147	3.95E-04	0.00E+00	1.47E-04	3.95E-04	0.00E+00	2.39E-05	5.98E-05	0.00E+00	1.25E-05	2.28E-05	0.00E+00
2790	600313.5	4175832	0.000144	3.88E-04	0.00E+00	1.44E-04	3.88E-04	0.00E+00	2.34E-05	5.86E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
2791	600317.3	4175840	0.000141	3.79E-04	0.00E+00	1.41E-04	3.79E-04	0.00E+00	2.29E-05	5.74E-05	0.00E+00	1.19E-05	2.19E-05	0.00E+00
2792	600321.1	4175849	0.000137	3.70E-04	0.00E+00	1.37E-04	3.70E-04	0.00E+00	2.23E-05	5.60E-05	0.00E+00	1.17E-05	2.13E-05	0.00E+00
2793	600324.9	4175858	0.000134	3.62E-04	0.00E+00	1.34E-04	3.62E-04	0.00E+00	2.19E-05	5.48E-05	0.00E+00	1.14E-05	2.09E-05	0.00E+00
2794	600328.7	4175867	0.000132	3.57E-04	0.00E+00	1.32E-04	3.57E-04	0.00E+00	2.15E-05	5.40E-05	0.00E+00	1.12E-05	2.06E-05	0.00E+00
2795	600332.5	4175875	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.33E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
2796	600336.4	4175884	0.000129	3.48E-04	0.00E+00	1.29E-04	3.48E-04	0.00E+00	2.10E-05	5.27E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
2797	600340.2	4175893	0.000128	3.45E-04	0.00E+00	1.28E-04	3.45E-04	0.00E+00	2.08E-05	5.21E-05	0.00E+00	1.08E-05	1.99E-05	0.00E+00
2798	600344	4175901	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.05E-05	5.13E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
2799	600347.8	4175910	0.000124	3.33E-04	0.00E+00	1.24E-04	3.33E-04	0.00E+00	2.01E-05	5.04E-05	0.00E+00	1.05E-05	1.92E-05	0.00E+00
2800	600351.6	4175919	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.95E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
2801	600355.4	4175928	0.000121	3.25E-04	0.00E+00	1.21E-04	3.25E-04	0.00E+00	1.96E-05	4.92E-05	0.00E+00	1.02E-05	1.88E-05	0.00E+00
2802	600359.2	4175936	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.84E-05	0.00E+00
2803	600363	4175945	0.000115	3.11E-04	0.00E+00	1.15E-04	3.11E-04	0.00E+00	1.88E-05	4.70E-05	0.00E+00	9.79E-06	1.79E-05	0.00E+00
2804	600366.9	4175954	0.000114	3.07E-04	0.00E+00	1.14E-04	3.07E-04	0.00E+00	1.85E-05	4.64E-05	0.00E+00	9.65E-06	1.77E-05	0.00E+00
2805	600370.7	4175962	0.000112	3.03E-04	0.00E+00	1.12E-04	3.03E-04	0.00E+00	1.83E-05	4.58E-05	0.00E+00	9.53E-06	1.74E-05	0.00E+00
2806	600374.5	4175971	0.000111	2.99E-04	0.00E+00	1.11E-04	2.99E-04	0.00E+00	1.80E-05	4.52E-05	0.00E+00	9.41E-06	1.72E-05	0.00E+00
2807	600378.3	4175980	0.000111	2.99E-04	0.00E+00	1.11E-04	2.99E-04	0.00E+00	1.80E-05	4.52E-05	0.00E+00	9.40E-06	1.72E-05	0.00E+00
2808	600382.1	4175989	0.000109	2.95E-04	0.00E+00	1.09E-04	2.95E-04	0.00E+00	1.78E-05	4.45E-05	0.00E+00	9.28E-06	1.70E-05	0.00E+00
2809	600385.9	4175997	0.000108	2.91E-04	0.00E+00	1.08E-04	2.91E-04	0.00E+00	1.76E-05	4.41E-05	0.00E+00	9.18E-06	1.68E-05	0.00E+00
2810	600389.7	4176006	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.41E-05	0.00E+00	9.19E-06	1.68E-05	0.00E+00
2811	600393.6	4176015	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.41E-05	0.00E+00	9.18E-06	1.68E-05	0.00E+00
2812	600397.4	4176023	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.41E-05	0.00E+00	9.18E-06	1.68E-05	0.00E+00
2813	600401.2	4176032	0.000108	2.91E-04	0.00E+00	1.08E-04	2.91E-04	0.00E+00	1.76E-05	4.40E-05	0.00E+00	9.17E-06	1.68E-05	0.00E+00
2814	600405	4176041	0.000108	2.91E-04	0.00E+00	1.08E-04	2.91E-04	0.00E+00	1.76E-05	4.40E-05	0.00E+00	9.16E-06	1.68E-05	0.00E+00
2815	600408.8	4176050	0.000107	2.90E-04	0.00E+00	1.07E-04	2.90E-04	0.00E+00	1.75E-05	4.38E-05	0.00E+00	9.13E-06	1.67E-05	0.00E+00
2816	600412.6	4176058	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.73E-05	4.35E-05	0.00E+00	9.05E-06	1.66E-05	0.00E+00
2817	599750.7	4175372	0.000152	4.10E-04	0.00E+00	1.52E-04	4.10E-04	0.00E+00	2.48E-05	6.20E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
2818	599759.3	4175376	0.000148	4.00E-04	0.00E+00	1.48E-04	4.00E-04	0.00E+00	2.41E-05	6.05E-05	0.00E+00	1.26E-05	2.30E-05	0.00E+00

2819	599767.9	4175379	0.000148	3.99E-04	0.00E+00		1.48E-04	3.99E-04	0.00E+00		2.41E-05	6.04E-05	0.00E+00		1.26E-05	2.30E-05	0.00E+00
2820	599776.5	4175383	0.000149	4.02E-04	0.00E+00		1.49E-04	4.02E-04	0.00E+00		2.42E-05	6.08E-05	0.00E+00		1.27E-05	2.32E-05	0.00E+00
2821	599785.1	4175387	0.000149	4.02E-04	0.00E+00		1.49E-04	4.02E-04	0.00E+00		2.43E-05	6.08E-05	0.00E+00		1.27E-05	2.32E-05	0.00E+00
2822	599793.8	4175391	0.000143	3.85E-04	0.00E+00		1.43E-04	3.85E-04	0.00E+00		2.32E-05	5.82E-05	0.00E+00		1.21E-05	2.22E-05	0.00E+00
2823	599802.4	4175395	0.000139	3.74E-04	0.00E+00		1.39E-04	3.74E-04	0.00E+00		2.26E-05	5.66E-05	0.00E+00		1.18E-05	2.16E-05	0.00E+00
2824	599811	4175399	0.00013	3.50E-04	0.00E+00		1.30E-04	3.50E-04	0.00E+00		2.11E-05	5.30E-05	0.00E+00		1.10E-05	2.02E-05	0.00E+00
2825	599819.6	4175402	0.000132	3.56E-04	0.00E+00		1.32E-04	3.56E-04	0.00E+00		2.15E-05	5.39E-05	0.00E+00		1.12E-05	2.05E-05	0.00E+00
2826	599828.2	4175406	0.000137	3.68E-04	0.00E+00		1.37E-04	3.68E-04	0.00E+00		2.22E-05	5.57E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
2827	599836.8	4175410	0.000142	3.82E-04	0.00E+00		1.42E-04	3.82E-04	0.00E+00		2.31E-05	5.78E-05	0.00E+00		1.20E-05	2.20E-05	0.00E+00
2828	599845.5	4175414	0.000148	3.98E-04	0.00E+00		1.48E-04	3.98E-04	0.00E+00		2.40E-05	6.02E-05	0.00E+00		1.25E-05	2.29E-05	0.00E+00
2829	599854.1	4175418	0.000155	4.17E-04	0.00E+00		1.55E-04	4.17E-04	0.00E+00		2.51E-05	6.30E-05	0.00E+00		1.31E-05	2.40E-05	0.00E+00
2830	599862.7	4175422	0.000163	4.39E-04	0.00E+00		1.63E-04	4.39E-04	0.00E+00		2.65E-05	6.63E-05	0.00E+00		1.38E-05	2.53E-05	0.00E+00
2831	599871.3	4175425	0.000171	4.61E-04	0.00E+00		1.71E-04	4.61E-04	0.00E+00		2.78E-05	6.97E-05	0.00E+00		1.45E-05	2.66E-05	0.00E+00
2832	599879.9	4175429	0.000177	4.77E-04	0.00E+00		1.77E-04	4.77E-04	0.00E+00		2.88E-05	7.21E-05	0.00E+00		1.50E-05	2.75E-05	0.00E+00
2833	599888.6	4175433	0.000182	4.91E-04	0.00E+00		1.82E-04	4.91E-04	0.00E+00		2.96E-05	7.42E-05	0.00E+00		1.54E-05	2.83E-05	0.00E+00
2834	599897.2	4175437	0.000187	5.04E-04	0.00E+00		1.87E-04	5.04E-04	0.00E+00		3.04E-05	7.62E-05	0.00E+00		1.59E-05	2.91E-05	0.00E+00
2835	599905.8	4175441	0.000191	5.15E-04	0.00E+00		1.91E-04	5.15E-04	0.00E+00		3.11E-05	7.79E-05	0.00E+00		1.62E-05	2.97E-05	0.00E+00
2836	599914.4	4175445	0.000192	5.17E-04	0.00E+00		1.92E-04	5.17E-04	0.00E+00		3.12E-05	7.82E-05	0.00E+00		1.63E-05	2.98E-05	0.00E+00
2837	599923	4175448	0.000192	5.17E-04	0.00E+00		1.92E-04	5.17E-04	0.00E+00		3.12E-05	7.82E-05	0.00E+00		1.63E-05	2.98E-05	0.00E+00
2838	599931.6	4175452	0.000191	5.15E-04	0.00E+00		1.91E-04	5.15E-04	0.00E+00		3.11E-05	7.79E-05	0.00E+00		1.62E-05	2.97E-05	0.00E+00
2839	599940.3	4175456	0.000192	5.17E-04	0.00E+00		1.92E-04	5.17E-04	0.00E+00		3.12E-05	7.81E-05	0.00E+00		1.63E-05	2.98E-05	0.00E+00
2840	599948.9	4175460	0.000192	5.18E-04	0.00E+00		1.92E-04	5.18E-04	0.00E+00		3.13E-05	7.84E-05	0.00E+00		1.63E-05	2.99E-05	0.00E+00
2841	599957.5	4175464	0.000192	5.18E-04	0.00E+00		1.92E-04	5.18E-04	0.00E+00		3.13E-05	7.83E-05	0.00E+00		1.63E-05	2.99E-05	0.00E+00
2842	599966.1	4175468	0.00019	5.13E-04	0.00E+00		1.90E-04	5.13E-04	0.00E+00		3.09E-05	7.75E-05	0.00E+00		1.61E-05	2.95E-05	0.00E+00
2843	599974.7	4175471	0.000187	5.04E-04	0.00E+00		1.87E-04	5.04E-04	0.00E+00		3.04E-05	7.61E-05	0.00E+00		1.59E-05	2.90E-05	0.00E+00
2844	599983.4	4175475	0.000185	5.00E-04	0.00E+00		1.85E-04	5.00E-04	0.00E+00		3.02E-05	7.56E-05	0.00E+00		1.57E-05	2.88E-05	0.00E+00
2845	599992	4175479	0.000183	4.94E-04	0.00E+00		1.83E-04	4.94E-04	0.00E+00		2.98E-05	7.47E-05	0.00E+00		1.56E-05	2.85E-05	0.00E+00
2846	600000.6	4175483	0.000178	4.79E-04	0.00E+00		1.78E-04	4.79E-04	0.00E+00		2.89E-05	7.24E-05	0.00E+00		1.51E-05	2.76E-05	0.00E+00
2847	600009.2	4175487	0.000171	4.62E-04	0.00E+00		1.71E-04	4.62E-04	0.00E+00		2.79E-05	6.98E-05	0.00E+00		1.45E-05	2.66E-05	0.00E+00
2848	600017.8	4175490	0.000165	4.45E-04	0.00E+00		1.65E-04	4.45E-04	0.00E+00		2.69E-05	6.74E-05	0.00E+00		1.40E-05	2.57E-05	0.00E+00
2849	600026.5	4175494	0.000158	4.27E-04	0.00E+00		1.58E-04	4.27E-04	0.00E+00		2.57E-05	6.45E-05	0.00E+00		1.34E-05	2.46E-05	0.00E+00
2850	600035.1	4175498	0.000152	4.11E-04	0.00E+00		1.52E-04	4.11E-04	0.00E+00		2.48E-05	6.21E-05	0.00E+00		1.29E-05	2.37E-05	0.00E+00
2851	600043.7	4175502	0.000151	4.08E-04	0.00E+00		1.51E-04	4.08E-04	0.00E+00		2.46E-05	6.18E-05	0.00E+00		1.29E-05	2.35E-05	0.00E+00
2852	600052.3	4175506	0.000155	4.19E-04	0.00E+00		1.55E-04	4.19E-04	0.00E+00		2.53E-05	6.34E-05	0.00E+00		1.32E-05	2.42E-05	0.00E+00
2853	600060.9	4175510	0.000147	3.96E-04	0.00E+00		1.47E-04	3.96E-04	0.00E+00		2.39E-05	5.99E-05	0.00E+00		1.25E-05	2.28E-05	0.00E+00
2854	600069.5	4175513	0.000139	3.75E-04	0.00E+00		1.39E-04	3.75E-04	0.00E+00		2.26E-05	5.66E-05	0.00E+00		1.18E-05	2.16E-05	0.00E+00
2855	600262.5	4175669	0.000159	4.30E-04	0.00E+00		1.59E-04	4.30E-04	0.00E+00		2.59E-05	6.50E-05	0.00E+00		1.35E-05	2.48E-05	0.00E+00
2856	600266.3	4175677	0.000162	4.36E-04	0.00E+00		1.62E-04	4.36E-04	0.00E+00		2.63E-05	6.60E-05	0.00E+00		1.37E-05	2.52E-05	0.00E+00
2857	600270.1	4175686	0.000164	4.42E-04	0.00E+00		1.64E-04	4.42E-04	0.00E+00		2.67E-05	6.69E-05	0.00E+00		1.39E-05	2.55E-05	0.00E+00
2858	600273.8	4175695	0.000164	4.42E-04	0.00E+00		1.64E-04	4.42E-04	0.00E+00		2.66E-05	6.68E-05	0.00E+00		1.39E-05	2.55E-05	0.00E+00
2859	600277.6	4175703	0.000164	4.41E-04	0.00E+00		1.64E-04	4.41E-04	0.00E+00		2.66E-05	6.67E-05	0.00E+00		1.39E-05	2.54E-05	0.00E+00
2860	600281.4	4175712	0.000163	4.40E-04	0.00E+00		1.63E-04	4.40E-04	0.00E+00		2.66E-05	6.66E-05	0.00E+00		1.39E-05	2.54E-05	0.00E+00
2861	600285.2	4175721	0.000163	4.38E-04	0.00E+00		1.63E-04	4.38E-04	0.00E+00		2.64E-05	6.63E-05	0.00E+00		1.38E-05	2.53E-05	0.00E+00
2862	600289	4175729	0.000161	4.34E-04	0.00E+00		1.61E-04	4.34E-04	0.00E+00		2.62E-05	6.57E-05	0.00E+00		1.37E-05	2.50E-05	0.00E+00
2863	600292.7	4175738	0.000159	4.30E-04	0.00E+00		1.59E-04	4.30E-04	0.00E+00		2.59E-05	6.50E-05	0.00E+00		1.35E-05	2.48E-05	0.00E+00
2864	600296.5	4175747	0.000158	4.26E-04	0.00E+00		1.58E-04	4.26E-04	0.00E+00		2.57E-05	6.44E-05	0.00E+00		1.34E-05	2.46E-05	0.00E+00
2865	600300.3	4175755	0.000156	4.20E-04	0.00E+00		1.56E-04	4.20E-04	0.00E+00		2.53E-05	6.35E-05	0.00E+00		1.32E-05	2.42E-05	0.00E+00
2866	600304.1	4175764	0.000154	4.14E-04	0.00E+00		1.54E-04	4.14E-04	0.00E+00		2.50E-05	6.26E-05	0.00E+00		1.30E-05	2.39E-05	0.00E+00
2867	600307.9	4175772	0.000151	4.08E-04	0.00E+00		1.51E-04	4.08E-04	0.00E+00		2.46E-05	6.17E-05	0.00E+00		1.29E-05	2.35E-05	0.00E+00
2868	600311.6	4175781	0.000149	4.02E-04	0.00E+00		1.49E-04	4.02E-04	0.00E+00		2.42E-05	6.08E-05	0.00E+00		1.27E-05	2.32E-05	0.00E+00
2869	600315.4	4175790	0.000146	3.94E-04	0.00E+00		1.46E-04	3.94E-04	0.00E+00		2.38E-05	5.96E-05	0.00E+00		1.24E-05	2.27E-05	0.00E+00
2870	600319.2	4175798	0.000143	3.86E-04	0.00E+00		1.43E-04	3.86E-04	0.00E+00		2.33E-05	5.83E-05	0.00E+00		1.22E-05	2.22E-05	0.00E+00
2871	600323	4175807	0.00014	3.77E-04	0.00E+00		1.40E-04	3.77E-04	0.00E+00		2.28E-05	5.71E-05	0.00E+00		1.19E-05	2.18E-05	0.00E+00
2872	600326.8	4175816	0.000138	3.73E-04	0.00E+00		1.38E-04	3.73E-04	0.00E+00		2.25E-05	5.64E-05	0.00E+00		1.18E-05	2.15E-05	0.00E+00
2873	600330.5	4175824	0.000137	3.70E-04	0.00E+00		1.37E-04	3.70E-04	0.00E+00		2.23E-05	5.59E-05	0.00E+00		1.16E-05	2.13E-05	0.00E+00
2874	600334.3	4175833	0.000136	3.65E-04	0.00E+00		1.36E-04	3.65E-04	0.00E+00		2.20E-05	5.53E-05	0.00E+00		1.15E-05	2.11E-05	0.00E+00
2875	600338.1	4175842	0.000134	3.61E-04	0.00E+00		1.34E-04	3.61E-04	0.00E+00		2.18E-05	5.45E-05	0.00E+00		1.14E-05	2.08E-05	0.00E+00
2876	600341.9	4175850	0.000132	3.56E-04	0.00E+00		1.32E-04	3.56E-04	0.00E+00		2.15E-05	5.38E-05	0.00E+00		1.12E-05	2.05E-05	0.00E+00
2877	600345.7	4175859	0.00013	3.52E-04	0.00E+00		1.30E-04	3.52E-04	0.00E+00		2.12E-05	5.32E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
2878	600349.5	4175867	0.000129	3.47E-04	0.00E+00		1.29E-04	3.47E-04	0.00E+00		2.10E-05	5.25E-05	0.00E+00		1.09E-05	2.00E-05	0.00E+00
2879	600353.2	4175876	0.000128	3.44E-04	0.00E+00		1.28E-04	3.44E-04	0.00E+00		2.08E-05	5.20E-05	0.00E+00		1.08E-05	1.98E-05	0.00E+00
2880	600357	4175885	0.000126	3.39E-04	0.00E+00		1.26E-04	3.39E-04	0.00E+00		2.04E-05	5.12E-05	0.00E+00		1.07E-05	1.95E-05	0.00E+00
2881	600360.8	4175893	0.000123	3.33E-04	0.00E+00		1.23E-04	3.33E-04	0.00E+00		2.01E-05	5.03E-05	0.00E+00		1.05E-05	1.92E-05	0.00E+00
2882	600364.6	4175902	0.00012	3.25E-04	0.00E+00		1.20E-04	3.25E-04	0.00E+00		1.96E-05	4.91E-05	0.00E+00		1.02E-05	1.87E-05	0.00E+00
2883	600368.4	4175911	0.000118	3.17E-04	0.00E+00		1.18E-04	3.17E-04	0.00E+00		1.91E-05	4.79E-05	0.00E+00		9.98E-06	1.83E-05	0.00E+00
2884	600372.1	4175919	0.000116	3.12E-04	0.00E+00		1.16E-04	3.12E-04	0.00E+00		1.88E-05	4.71E-05	0.00E+00		9.81E-06	1.80E-05	0.00E+00
2885	600375.9	4175928	0.000114	3.08E-04	0.00E+00		1.14E-04	3.08E-04	0.00E+00		1.86E-05	4.66E-05	0.00E+00		9.71E-06	1.78E-05	0.00E+00
2886	600379.7	4175937	0.000112	3.03E-04	0.00E+00		1.12E-04	3.03E-04	0.00E+00		1.83E-05	4.58E-05	0.00E+00		9.54E-06	1.75E-05	0.00E+00
2887	600383.5	4175945	0.000111	2.98E-04	0.00E+00		1.11E-04	2.98E-04	0.00E+00		1.80E-05	4.51E-05	0.00E+00		9.39E-06	1.72E-05	0.00E+00
2888	600387.3	4175954	0.000109	2.95E-04	0.00E+00		1.09E-04	2.95E-04	0.00E+00		1.78E-05	4.45E-05	0.00E+00		9.28E-06	1.70E-05	0.00E+00
2889	600391	4175963	0.000108	2.92E-04	0.00E+00		1.08E-04	2.92E-04	0.00E+00		1.76E-05	4.42E-05	0.00E+00		9.20E-06	1.68E-05	0.00E+00
2890	600394.8	4175971	0.000108	2.90E-04	0.00E+00		1.08E-04	2.90E-04	0.00E+00		1.75E-05	4.39E-05	0.00E+00		9.14E-06	1.67E-05	0.00E+00
2891	600398.6	4175980	0.000107	2.88E-04	0.00E+00		1.07E-04	2.88E-04	0.00E+00		1.74E-05	4.35E-05	0.00E+00		9.06E-06	1.66E-05	0.00E+00
2892	600402.4	4175988	0.000106	2.86E-04	0.00E+00		1.06E-04	2.86E-04	0.00E+00		1.72E-05	4.32E-05	0.00E+00		9.00E-06	1.65E-05	0.00E+00
2893	600406.2	4175997	0.000104	2.81E-04	0.00E+00		1.04E-04	2.81E-04	0.00E+00		1.69E-05	4.25E-05	0.00E+00		8.85E-06	1.62E-05	0.00E+00
2894	600410	4176006	0.000103	2.79E-04	0.00E+00		1.03E-04	2.79E-04	0.00E+00		1.68E-05	4.21E-05	0.00E+00		8.78E-06	1.61E-05	0.00E+00
2895	600413.7	4176014	0.000103	2.77E-04	0.00E+00		1.03E-04	2.77E-04	0.00E+00		1.67E-05	4.18E-05	0.00E+00		8.71E-06	1.59E-05	0.00E+00
2896	600417.5	4176023	0.000102	2.76E-04	0.00E+00		1.02E-04	2.76E-04	0.00E+00		1.67E-05	4.18E-05	0.00E+00		8.70E-06	1.59E-05	0.00E+00
2897	600421.3	4176032	0.000102	2.75E-04	0.00E+00		1.02E-04	2.75E-04	0.00E+00		1.66E-05	4.16E-05	0.00E+00		8.67E-06	1.59E-05	0.00E+00
2898	600425.1	4176040	0.000101	2.73E-04	0.00E+00		1.01E-04	2.73E-04	0.00E+00		1.65E-05	4.13E-05	0.00E+00		8.60E-06	1.57E-05	0.00E+00
2899	600428.9	4176049	0.0001	2.70E-04	0.00E+00		1.00E-04	2.70E-04	0.00E+00		1.63E-05	4.08E-05	0.00E+00		8.49E-06	1.55E-05	0.00E+00
2900	600432.6	4176058	9.85E-05	2.66E-04	0.00E+00		9.85E-05	2.66E-04	0.00E+00		1.60E-05	4.02E-05	0.00E+00		8.37E-06	1.53E-05	0.00E+00
2901	599751.7	4175352	0.000127	3.42E-04	0.00E+00		1.27E-04	3.42E-04	0.00E+00		2.06E-05	5.17E-05	0.00E+00		1.08E-05	1.97E-05	0.00E+00
2902	599760.4	4175356	0.000126	3.41E-04	0.00E+00		1.26E-04	3.41E-04	0.00E+00		2.06E-05	5.16E-05	0.00E+00		1.07E-05	1.97E-05	0.00E+00
2903	599769.1	4175360	0.00012	3.23E-04	0.00E+00		1.20E-04	3.23E-04	0.00E+00		1.95E-05	4.89E-05	0.00E+00		1.02E-05	1.86E-05	0.00E+00
2904	599777.8	4175363	0.000118	3.17E-04	0.00E+00		1.18E-04	3.17E-04	0.00E+00		1.91E-05	4.80E-05	0.00E+00		9.99E-06	1.83E-05	0.00E+00
2905	599786.5	4175367	0.000119	3.21E-04	0.00E+00		1.19E-04	3.21E-04	0.00E+00		1.94E-05	4.85E-05	0.00E+00		1.01E-05	1.85E-05	0.00E+00
2906	599795.2	4175371	0.000124	3.34E-04	0.00E+00		1.24E-04	3.34E-04	0.00E+00		2.02E-05	5.05E-05	0.00E+00		1.05E-05	1.93E-05	0.00E+00
2907	599803.9	4175375	0.000126	3.39E-04	0.00E+00		1.26E-04	3.39E-04	0.00E+00		2.05E-05	5.13E-05	0.00E+00		1.07E-05	1.96E-05	0.00E+00
2908	599812.6	4175379	0.000129	3.47E-04	0.00E+00		1.29E-04	3.47E-04	0.00E+00		2.10E-05	5.25E-05	0.00E+00		1.09E-05	2.00E-05	0.00E+00
2909	599821.3	4175383	0.000136	3.65E-04	0.00E+00		1.36E-04	3.65E-04	0.00E+00		2.20E-05	5.52E-05	0.00E+00		1.15E-05	2.11E-05	0.00E+00

2910	599830	4175387	0.000144	3.88E-04	0.00E+00	1.44E-04	3.88E-04	0.00E+00	2.34E-05	5.86E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
2911	599838.7	4175391	0.00015	4.05E-04	0.00E+00	1.50E-04	4.05E-04	0.00E+00	2.45E-05	6.13E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
2912	599847.4	4175394	0.000155	4.19E-04	0.00E+00	1.55E-04	4.19E-04	0.00E+00	2.53E-05	6.34E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
2913	599856.1	4175398	0.000159	4.29E-04	0.00E+00	1.59E-04	4.29E-04	0.00E+00	2.59E-05	6.48E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
2914	599864.8	4175402	0.000163	4.40E-04	0.00E+00	1.63E-04	4.40E-04	0.00E+00	2.66E-05	6.66E-05	0.00E+00	1.39E-05	2.54E-05	0.00E+00
2915	599873.5	4175406	0.000168	4.54E-04	0.00E+00	1.68E-04	4.54E-04	0.00E+00	2.74E-05	6.86E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
2916	599882.2	4175410	0.000173	4.65E-04	0.00E+00	1.73E-04	4.65E-04	0.00E+00	2.81E-05	7.03E-05	0.00E+00	1.47E-05	2.68E-05	0.00E+00
2917	599890.9	4175414	0.000177	4.78E-04	0.00E+00	1.77E-04	4.78E-04	0.00E+00	2.88E-05	7.23E-05	0.00E+00	1.51E-05	2.75E-05	0.00E+00
2918	599899.6	4175418	0.000182	4.92E-04	0.00E+00	1.82E-04	4.92E-04	0.00E+00	2.97E-05	7.43E-05	0.00E+00	1.55E-05	2.83E-05	0.00E+00
2919	599908.3	4175421	0.000186	5.01E-04	0.00E+00	1.86E-04	5.01E-04	0.00E+00	3.02E-05	7.57E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
2920	599917	4175425	0.000187	5.05E-04	0.00E+00	1.87E-04	5.05E-04	0.00E+00	3.05E-05	7.64E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
2921	599925.7	4175429	0.000189	5.10E-04	0.00E+00	1.89E-04	5.10E-04	0.00E+00	3.08E-05	7.71E-05	0.00E+00	1.61E-05	2.94E-05	0.00E+00
2922	599934.4	4175433	0.000191	5.14E-04	0.00E+00	1.91E-04	5.14E-04	0.00E+00	3.10E-05	7.77E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00
2923	599943.1	4175437	0.000192	5.17E-04	0.00E+00	1.92E-04	5.17E-04	0.00E+00	3.12E-05	7.82E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
2924	599951.8	4175441	0.000195	5.25E-04	0.00E+00	1.95E-04	5.25E-04	0.00E+00	3.17E-05	7.94E-05	0.00E+00	1.65E-05	3.03E-05	0.00E+00
2925	599960.5	4175445	0.0002	5.39E-04	0.00E+00	2.00E-04	5.39E-04	0.00E+00	3.25E-05	8.15E-05	0.00E+00	1.70E-05	3.11E-05	0.00E+00
2926	599969.2	4175448	0.000197	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.04E-05	0.00E+00	1.67E-05	3.06E-05	0.00E+00
2927	599977.9	4175452	0.00019	5.12E-04	0.00E+00	1.90E-04	5.12E-04	0.00E+00	3.09E-05	7.74E-05	0.00E+00	1.61E-05	2.95E-05	0.00E+00
2928	599986.6	4175456	0.000184	4.96E-04	0.00E+00	1.84E-04	4.96E-04	0.00E+00	2.99E-05	7.50E-05	0.00E+00	1.56E-05	2.86E-05	0.00E+00
2929	599995.3	4175460	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.29E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
2930	600004	4175464	0.000172	4.65E-04	0.00E+00	1.72E-04	4.65E-04	0.00E+00	2.80E-05	7.02E-05	0.00E+00	1.46E-05	2.68E-05	0.00E+00
2931	600012.7	4175468	0.000169	4.55E-04	0.00E+00	1.69E-04	4.55E-04	0.00E+00	2.75E-05	6.88E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
2932	600021.4	4175472	0.000169	4.55E-04	0.00E+00	1.69E-04	4.55E-04	0.00E+00	2.75E-05	6.89E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
2933	600030.1	4175476	0.00016	4.33E-04	0.00E+00	1.60E-04	4.33E-04	0.00E+00	2.61E-05	6.54E-05	0.00E+00	1.36E-05	2.49E-05	0.00E+00
2934	600038.8	4175479	0.000144	3.89E-04	0.00E+00	1.44E-04	3.89E-04	0.00E+00	2.35E-05	5.89E-05	0.00E+00	1.23E-05	2.24E-05	0.00E+00
2935	600047.5	4175483	0.000134	3.61E-04	0.00E+00	1.34E-04	3.61E-04	0.00E+00	2.18E-05	5.46E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
2936	600056.2	4175487	0.000129	3.48E-04	0.00E+00	1.29E-04	3.48E-04	0.00E+00	2.10E-05	5.26E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
2937	600064.9	4175491	0.000126	3.41E-04	0.00E+00	1.26E-04	3.41E-04	0.00E+00	2.06E-05	5.16E-05	0.00E+00	1.07E-05	1.97E-05	0.00E+00
2938	600073.6	4175495	0.000124	3.34E-04	0.00E+00	1.24E-04	3.34E-04	0.00E+00	2.02E-05	5.05E-05	0.00E+00	1.05E-05	1.93E-05	0.00E+00
2939	600082.3	4175499	0.000122	3.28E-04	0.00E+00	1.22E-04	3.28E-04	0.00E+00	1.98E-05	4.95E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
2940	600277	4175655	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.76E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
2941	600280.8	4175664	0.000144	3.87E-04	0.00E+00	1.44E-04	3.87E-04	0.00E+00	2.34E-05	5.86E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
2942	600284.7	4175673	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.94E-05	0.00E+00	1.24E-05	2.26E-05	0.00E+00
2943	600288.5	4175682	0.000147	3.97E-04	0.00E+00	1.47E-04	3.97E-04	0.00E+00	2.40E-05	6.01E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
2944	600292.3	4175690	0.000148	4.00E-04	0.00E+00	1.48E-04	4.00E-04	0.00E+00	2.41E-05	6.05E-05	0.00E+00	1.26E-05	2.30E-05	0.00E+00
2945	600296.1	4175699	0.000149	4.00E-04	0.00E+00	1.49E-04	4.00E-04	0.00E+00	2.42E-05	6.06E-05	0.00E+00	1.26E-05	2.31E-05	0.00E+00
2946	600299.9	4175708	0.000149	4.00E-04	0.00E+00	1.49E-04	4.00E-04	0.00E+00	2.42E-05	6.05E-05	0.00E+00	1.26E-05	2.31E-05	0.00E+00
2947	600303.7	4175717	0.000148	3.99E-04	0.00E+00	1.48E-04	3.99E-04	0.00E+00	2.41E-05	6.04E-05	0.00E+00	1.26E-05	2.30E-05	0.00E+00
2948	600307.6	4175725	0.000147	3.97E-04	0.00E+00	1.47E-04	3.97E-04	0.00E+00	2.40E-05	6.00E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
2949	600311.4	4175734	0.000147	3.95E-04	0.00E+00	1.47E-04	3.95E-04	0.00E+00	2.38E-05	5.97E-05	0.00E+00	1.24E-05	2.28E-05	0.00E+00
2950	600315.2	4175743	0.000146	3.94E-04	0.00E+00	1.46E-04	3.94E-04	0.00E+00	2.38E-05	5.95E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
2951	600319	4175751	0.000145	3.90E-04	0.00E+00	1.45E-04	3.90E-04	0.00E+00	2.36E-05	5.90E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
2952	600322.8	4175760	0.000143	3.86E-04	0.00E+00	1.43E-04	3.86E-04	0.00E+00	2.33E-05	5.84E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
2953	600326.6	4175769	0.000142	3.84E-04	0.00E+00	1.42E-04	3.84E-04	0.00E+00	2.32E-05	5.81E-05	0.00E+00	1.21E-05	2.21E-05	0.00E+00
2954	600330.5	4175778	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.76E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
2955	600334.3	4175786	0.000139	3.76E-04	0.00E+00	1.39E-04	3.76E-04	0.00E+00	2.27E-05	5.68E-05	0.00E+00	1.18E-05	2.17E-05	0.00E+00
2956	600338.1	4175795	0.000137	3.71E-04	0.00E+00	1.37E-04	3.71E-04	0.00E+00	2.24E-05	5.60E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
2957	600341.9	4175804	0.000136	3.66E-04	0.00E+00	1.36E-04	3.66E-04	0.00E+00	2.21E-05	5.53E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
2958	600345.7	4175812	0.000134	3.62E-04	0.00E+00	1.34E-04	3.62E-04	0.00E+00	2.18E-05	5.47E-05	0.00E+00	1.14E-05	2.09E-05	0.00E+00
2959	600349.5	4175821	0.000133	3.58E-04	0.00E+00	1.33E-04	3.58E-04	0.00E+00	2.16E-05	5.41E-05	0.00E+00	1.13E-05	2.06E-05	0.00E+00
2960	600353.4	4175830	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.13E-05	5.35E-05	0.00E+00	1.11E-05	2.04E-05	0.00E+00
2961	600357.2	4175839	0.00013	3.51E-04	0.00E+00	1.30E-04	3.51E-04	0.00E+00	2.12E-05	5.31E-05	0.00E+00	1.11E-05	2.02E-05	0.00E+00
2962	600361	4175847	0.000129	3.47E-04	0.00E+00	1.29E-04	3.47E-04	0.00E+00	2.10E-05	5.25E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
2963	600364.8	4175856	0.000127	3.42E-04	0.00E+00	1.27E-04	3.42E-04	0.00E+00	2.06E-05	5.17E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
2964	600368.6	4175865	0.000124	3.36E-04	0.00E+00	1.24E-04	3.36E-04	0.00E+00	2.03E-05	5.07E-05	0.00E+00	1.06E-05	1.93E-05	0.00E+00
2965	600372.4	4175873	0.000122	3.29E-04	0.00E+00	1.22E-04	3.29E-04	0.00E+00	1.99E-05	4.98E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
2966	600376.3	4175882	0.000119	3.22E-04	0.00E+00	1.19E-04	3.22E-04	0.00E+00	1.94E-05	4.87E-05	0.00E+00	1.01E-05	1.86E-05	0.00E+00
2967	600380.1	4175891	0.000117	3.15E-04	0.00E+00	1.17E-04	3.15E-04	0.00E+00	1.90E-05	4.76E-05	0.00E+00	9.91E-06	1.81E-05	0.00E+00
2968	600383.9	4175900	0.000116	3.12E-04	0.00E+00	1.16E-04	3.12E-04	0.00E+00	1.88E-05	4.72E-05	0.00E+00	9.83E-06	1.80E-05	0.00E+00
2969	600387.7	4175908	0.000114	3.07E-04	0.00E+00	1.14E-04	3.07E-04	0.00E+00	1.85E-05	4.64E-05	0.00E+00	9.66E-06	1.77E-05	0.00E+00
2970	600391.5	4175917	0.000112	3.02E-04	0.00E+00	1.12E-04	3.02E-04	0.00E+00	1.82E-05	4.56E-05	0.00E+00	9.51E-06	1.74E-05	0.00E+00
2971	600395.3	4175926	0.00011	2.98E-04	0.00E+00	1.10E-04	2.98E-04	0.00E+00	1.80E-05	4.50E-05	0.00E+00	9.38E-06	1.72E-05	0.00E+00
2972	600399.2	4175935	0.000109	2.94E-04	0.00E+00	1.09E-04	2.94E-04	0.00E+00	1.78E-05	4.45E-05	0.00E+00	9.27E-06	1.70E-05	0.00E+00
2973	600403	4175943	0.000108	2.91E-04	0.00E+00	1.08E-04	2.91E-04	0.00E+00	1.76E-05	4.40E-05	0.00E+00	9.16E-06	1.68E-05	0.00E+00
2974	600406.8	4175952	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.35E-05	0.00E+00	9.06E-06	1.66E-05	0.00E+00
2975	600410.6	4175961	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.31E-05	0.00E+00	8.97E-06	1.64E-05	0.00E+00
2976	600414.4	4175969	0.000105	2.83E-04	0.00E+00	1.05E-04	2.83E-04	0.00E+00	1.71E-05	4.28E-05	0.00E+00	8.90E-06	1.63E-05	0.00E+00
2977	600418.2	4175978	0.000104	2.81E-04	0.00E+00	1.04E-04	2.81E-04	0.00E+00	1.69E-05	4.25E-05	0.00E+00	8.85E-06	1.62E-05	0.00E+00
2978	600422.1	4175987	0.000103	2.77E-04	0.00E+00	1.03E-04	2.77E-04	0.00E+00	1.67E-05	4.19E-05	0.00E+00	8.72E-06	1.60E-05	0.00E+00
2979	600425.9	4175996	0.000102	2.74E-04	0.00E+00	1.02E-04	2.74E-04	0.00E+00	1.65E-05	4.14E-05	0.00E+00	8.62E-06	1.58E-05	0.00E+00
2980	600429.7	4176004	0.0001	2.71E-04	0.00E+00	1.00E-04	2.71E-04	0.00E+00	1.63E-05	4.09E-05	0.00E+00	8.52E-06	1.56E-05	0.00E+00
2981	600433.5	4176013	9.94E-05	2.68E-04	0.00E+00	9.94E-05	2.68E-04	0.00E+00	1.62E-05	4.05E-05	0.00E+00	8.44E-06	1.54E-05	0.00E+00
2982	600437.3	4176022	9.83E-05	2.65E-04	0.00E+00	9.83E-05	2.65E-04	0.00E+00	1.60E-05	4.01E-05	0.00E+00	8.34E-06	1.53E-05	0.00E+00
2983	600441.1	4176030	9.87E-05	2.66E-04	0.00E+00	9.87E-05	2.66E-04	0.00E+00	1.61E-05	4.02E-05	0.00E+00	8.38E-06	1.53E-05	0.00E+00
2984	600445	4176039	9.72E-05	2.62E-04	0.00E+00	9.72E-05	2.62E-04	0.00E+00	1.58E-05	3.96E-05	0.00E+00	8.25E-06	1.51E-05	0.00E+00
2985	600448.8	4176048	9.62E-05	2.59E-04	0.00E+00	9.62E-05	2.59E-04	0.00E+00	1.56E-05	3.92E-05	0.00E+00	8.16E-06	1.49E-05	0.00E+00
2986	600452.6	4176057	9.34E-05	2.52E-04	0.00E+00	9.34E-05	2.52E-04	0.00E+00	1.52E-05	3.81E-05	0.00E+00	7.93E-06	1.45E-05	0.00E+00
2987	599743	4175348	0.000131	3.52E-04	0.00E+00	1.31E-04	3.52E-04	0.00E+00	2.13E-05	5.33E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
2988	599752.6	4175332	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.41E-05	0.00E+00	9.19E-06	1.68E-05	0.00E+00
2989	599761.2	4175336	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.42E-05	0.00E+00	9.20E-06	1.68E-05	0.00E+00
2990	599769.8	4175340	0.000106	2.86E-04	0.00E+00	1.06E-04	2.86E-04	0.00E+00	1.73E-05	4.33E-05	0.00E+00	9.02E-06	1.65E-05	0.00E+00
2991	599778.5	4175343	0.000103	2.77E-04	0.00E+00	1.03E-04	2.77E-04	0.00E+00	1.67E-05	4.18E-05	0.00E+00	8.72E-06	1.59E-05	0.00E+00
2992	599787.1	4175347	0.000103	2.77E-04	0.00E+00	1.03E-04	2.77E-04	0.00E+00	1.67E-05	4.19E-05	0.00E+00	8.72E-06	1.60E-05	0.00E+00
2993	599795.7	4175351	0.00011	2.97E-04	0.00E+00	1.10E-04	2.97E-04	0.00E+00	1.79E-05	4.49E-05	0.00E+00	9.34E-06	1.71E-05	0.00E+00
2994	599804.4	4175355	0.000118	3.19E-04	0.00E+00	1.18E-04	3.19E-04	0.00E+00	1.92E-05	4.82E-05	0.00E+00	1.00E-05	1.84E-05	0.00E+00
2995	599813	4175359	0.000125	3.38E-04	0.00E+00	1.25E-04	3.38E-04	0.00E+00	2.04E-05	5.11E-05	0.00E+00	1.06E-05	1.95E-05	0.00E+00
2996	599821.6	4175363	0.000129	3.47E-04	0.00E+00	1.29E-04	3.47E-04	0.00E+00	2.10E-05	5.25E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
2997	599830.2	4175366	0.000137	3.69E-04	0.00E+00	1.37E-04	3.69E-04	0.00E+00	2.23E-05	5.58E-05	0.00E+00	1.16E-05	2.13E-05	0.00E+00
2998	599838.9	4175370	0.000145	3.91E-04	0.00E+00	1.45E-04	3.91E-04	0.00E+00	2.36E-05	5.92E-05	0.00E+00	1.23E-05	2.26E-05	0.00E+00
2999	599847.5	4175374	0.000153	4.11E-04	0.00E+00	1.53E-04	4.11E-04	0.00E+00	2.48E-05	6.22E-05	0.00E+00	1.30E-05	2.37E-05	0.00E+00
3000	599856.1	4175378	0.000158	4.25E-04	0.00E+00	1.58E-04	4.25E-04	0.00E+00	2.57E-05	6.43E-05	0.00E+00	1.34E-05	2.45E-05	0.00E+00

3001	599864.8	4175382	0.000162	4.38E-04	0.00E+00		1.62E-04	4.38E-04	0.00E+00		2.64E-05	6.62E-05	0.00E+00		1.38E-05	2.52E-05	0.00E+00
3002	599873.4	4175386	0.000167	4.49E-04	0.00E+00		1.67E-04	4.49E-04	0.00E+00		2.71E-05	6.79E-05	0.00E+00		1.41E-05	2.59E-05	0.00E+00
3003	599882	4175389	0.00017	4.58E-04	0.00E+00		1.70E-04	4.58E-04	0.00E+00		2.76E-05	6.93E-05	0.00E+00		1.44E-05	2.64E-05	0.00E+00
3004	599890.6	4175393	0.000173	4.68E-04	0.00E+00		1.73E-04	4.68E-04	0.00E+00		2.82E-05	7.07E-05	0.00E+00		1.47E-05	2.70E-05	0.00E+00
3005	599899.3	4175397	0.000177	4.78E-04	0.00E+00		1.77E-04	4.78E-04	0.00E+00		2.89E-05	7.23E-05	0.00E+00		1.51E-05	2.76E-05	0.00E+00
3006	599907.9	4175401	0.00018	4.86E-04	0.00E+00		1.80E-04	4.86E-04	0.00E+00		2.93E-05	7.35E-05	0.00E+00		1.53E-05	2.80E-05	0.00E+00
3007	599916.5	4175405	0.000182	4.90E-04	0.00E+00		1.82E-04	4.90E-04	0.00E+00		2.96E-05	7.41E-05	0.00E+00		1.54E-05	2.83E-05	0.00E+00
3008	599925.2	4175409	0.000184	4.96E-04	0.00E+00		1.84E-04	4.96E-04	0.00E+00		2.99E-05	7.51E-05	0.00E+00		1.56E-05	2.86E-05	0.00E+00
3009	599933.8	4175412	0.000187	5.03E-04	0.00E+00		1.87E-04	5.03E-04	0.00E+00		3.04E-05	7.61E-05	0.00E+00		1.59E-05	2.90E-05	0.00E+00
3010	599942.4	4175416	0.000184	4.97E-04	0.00E+00		1.84E-04	4.97E-04	0.00E+00		3.00E-05	7.52E-05	0.00E+00		1.57E-05	2.87E-05	0.00E+00
3011	599951	4175420	0.000183	4.93E-04	0.00E+00		1.83E-04	4.93E-04	0.00E+00		2.97E-05	7.45E-05	0.00E+00		1.55E-05	2.84E-05	0.00E+00
3012	599959.7	4175424	0.000182	4.92E-04	0.00E+00		1.82E-04	4.92E-04	0.00E+00		2.97E-05	7.44E-05	0.00E+00		1.55E-05	2.83E-05	0.00E+00
3013	599968.3	4175428	0.00018	4.84E-04	0.00E+00		1.80E-04	4.84E-04	0.00E+00		2.92E-05	7.32E-05	0.00E+00		1.53E-05	2.79E-05	0.00E+00
3014	599976.9	4175432	0.000174	4.69E-04	0.00E+00		1.74E-04	4.69E-04	0.00E+00		2.83E-05	7.09E-05	0.00E+00		1.48E-05	2.70E-05	0.00E+00
3015	599985.6	4175435	0.000169	4.55E-04	0.00E+00		1.69E-04	4.55E-04	0.00E+00		2.74E-05	6.88E-05	0.00E+00		1.43E-05	2.62E-05	0.00E+00
3016	599994.2	4175439	0.000164	4.43E-04	0.00E+00		1.64E-04	4.43E-04	0.00E+00		2.67E-05	6.70E-05	0.00E+00		1.40E-05	2.55E-05	0.00E+00
3017	600002.8	4175443	0.000157	4.23E-04	0.00E+00		1.57E-04	4.23E-04	0.00E+00		2.55E-05	6.39E-05	0.00E+00		1.33E-05	2.44E-05	0.00E+00
3018	600011.4	4175447	0.000147	3.97E-04	0.00E+00		1.47E-04	3.97E-04	0.00E+00		2.40E-05	6.00E-05	0.00E+00		1.25E-05	2.29E-05	0.00E+00
3019	600020.1	4175451	0.000139	3.74E-04	0.00E+00		1.39E-04	3.74E-04	0.00E+00		2.26E-05	5.65E-05	0.00E+00		1.18E-05	2.15E-05	0.00E+00
3020	600028.7	4175455	0.000132	3.56E-04	0.00E+00		1.32E-04	3.56E-04	0.00E+00		2.15E-05	5.39E-05	0.00E+00		1.12E-05	2.05E-05	0.00E+00
3021	600037.3	4175458	0.000125	3.37E-04	0.00E+00		1.25E-04	3.37E-04	0.00E+00		2.03E-05	5.09E-05	0.00E+00		1.06E-05	1.94E-05	0.00E+00
3022	600046	4175462	0.000117	3.16E-04	0.00E+00		1.17E-04	3.16E-04	0.00E+00		1.91E-05	4.78E-05	0.00E+00		9.96E-06	1.82E-05	0.00E+00
3023	600054.6	4175466	0.000111	2.98E-04	0.00E+00		1.11E-04	2.98E-04	0.00E+00		1.80E-05	4.51E-05	0.00E+00		9.39E-06	1.72E-05	0.00E+00
3024	600063.2	4175470	0.000109	2.95E-04	0.00E+00		1.09E-04	2.95E-04	0.00E+00		1.78E-05	4.46E-05	0.00E+00		9.29E-06	1.70E-05	0.00E+00
3025	600071.8	4175474	0.000107	2.89E-04	0.00E+00		1.07E-04	2.89E-04	0.00E+00		1.74E-05	4.37E-05	0.00E+00		9.10E-06	1.67E-05	0.00E+00
3026	600080.5	4175478	0.000105	2.84E-04	0.00E+00		1.05E-04	2.84E-04	0.00E+00		1.71E-05	4.29E-05	0.00E+00		8.93E-06	1.64E-05	0.00E+00
3027	600089.1	4175481	0.000106	2.86E-04	0.00E+00		1.06E-04	2.86E-04	0.00E+00		1.73E-05	4.33E-05	0.00E+00		9.02E-06	1.65E-05	0.00E+00
3028	600097.7	4175485	0.000108	2.90E-04	0.00E+00		1.08E-04	2.90E-04	0.00E+00		1.75E-05	4.39E-05	0.00E+00		9.15E-06	1.67E-05	0.00E+00
3029	600290.9	4175641	0.000133	3.58E-04	0.00E+00		1.33E-04	3.58E-04	0.00E+00		2.16E-05	5.41E-05	0.00E+00		1.13E-05	2.06E-05	0.00E+00
3030	600294.7	4175649	0.000134	3.60E-04	0.00E+00		1.34E-04	3.60E-04	0.00E+00		2.17E-05	5.45E-05	0.00E+00		1.13E-05	2.08E-05	0.00E+00
3031	600298.5	4175658	0.000135	3.65E-04	0.00E+00		1.35E-04	3.65E-04	0.00E+00		2.20E-05	5.52E-05	0.00E+00		1.15E-05	2.11E-05	0.00E+00
3032	600302.3	4175667	0.000135	3.64E-04	0.00E+00		1.35E-04	3.64E-04	0.00E+00		2.20E-05	5.50E-05	0.00E+00		1.15E-05	2.10E-05	0.00E+00
3033	600306	4175675	0.000136	3.67E-04	0.00E+00		1.36E-04	3.67E-04	0.00E+00		2.22E-05	5.56E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
3034	600309.8	4175684	0.000136	3.68E-04	0.00E+00		1.36E-04	3.68E-04	0.00E+00		2.22E-05	5.56E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
3035	600313.6	4175693	0.000136	3.67E-04	0.00E+00		1.36E-04	3.67E-04	0.00E+00		2.22E-05	5.56E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
3036	600317.4	4175701	0.000136	3.67E-04	0.00E+00		1.36E-04	3.67E-04	0.00E+00		2.21E-05	5.55E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
3037	600321.2	4175710	0.000136	3.66E-04	0.00E+00		1.36E-04	3.66E-04	0.00E+00		2.21E-05	5.53E-05	0.00E+00		1.15E-05	2.11E-05	0.00E+00
3038	600325	4175719	0.000136	3.65E-04	0.00E+00		1.36E-04	3.65E-04	0.00E+00		2.21E-05	5.53E-05	0.00E+00		1.15E-05	2.11E-05	0.00E+00
3039	600328.8	4175727	0.000136	3.68E-04	0.00E+00		1.36E-04	3.68E-04	0.00E+00		2.22E-05	5.56E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
3040	600332.5	4175736	0.000137	3.71E-04	0.00E+00		1.37E-04	3.71E-04	0.00E+00		2.24E-05	5.60E-05	0.00E+00		1.17E-05	2.14E-05	0.00E+00
3041	600336.3	4175744	0.000139	3.75E-04	0.00E+00		1.39E-04	3.75E-04	0.00E+00		2.26E-05	5.67E-05	0.00E+00		1.18E-05	2.16E-05	0.00E+00
3042	600340.1	4175753	0.000139	3.74E-04	0.00E+00		1.39E-04	3.74E-04	0.00E+00		2.26E-05	5.66E-05	0.00E+00		1.18E-05	2.16E-05	0.00E+00
3043	600343.9	4175762	0.000138	3.72E-04	0.00E+00		1.38E-04	3.72E-04	0.00E+00		2.24E-05	5.62E-05	0.00E+00		1.17E-05	2.14E-05	0.00E+00
3044	600347.7	4175770	0.000137	3.69E-04	0.00E+00		1.37E-04	3.69E-04	0.00E+00		2.23E-05	5.58E-05	0.00E+00		1.16E-05	2.13E-05	0.00E+00
3045	600351.5	4175779	0.000136	3.66E-04	0.00E+00		1.36E-04	3.66E-04	0.00E+00		2.21E-05	5.53E-05	0.00E+00		1.15E-05	2.11E-05	0.00E+00
3046	600355.2	4175788	0.000134	3.63E-04	0.00E+00		1.34E-04	3.63E-04	0.00E+00		2.19E-05	5.48E-05	0.00E+00		1.14E-05	2.09E-05	0.00E+00
3047	600359	4175796	0.000134	3.61E-04	0.00E+00		1.34E-04	3.61E-04	0.00E+00		2.18E-05	5.46E-05	0.00E+00		1.14E-05	2.08E-05	0.00E+00
3048	600362.8	4175805	0.000133	3.60E-04	0.00E+00		1.33E-04	3.60E-04	0.00E+00		2.17E-05	5.44E-05	0.00E+00		1.13E-05	2.07E-05	0.00E+00
3049	600366.6	4175814	0.000133	3.58E-04	0.00E+00		1.33E-04	3.58E-04	0.00E+00		2.16E-05	5.41E-05	0.00E+00		1.13E-05	2.06E-05	0.00E+00
3050	600370.4	4175822	0.000132	3.55E-04	0.00E+00		1.32E-04	3.55E-04	0.00E+00		2.14E-05	5.37E-05	0.00E+00		1.12E-05	2.05E-05	0.00E+00
3051	600374.2	4175831	0.00013	3.52E-04	0.00E+00		1.30E-04	3.52E-04	0.00E+00		2.12E-05	5.32E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
3052	600378	4175840	0.000129	3.47E-04	0.00E+00		1.29E-04	3.47E-04	0.00E+00		2.09E-05	5.24E-05	0.00E+00		1.09E-05	2.00E-05	0.00E+00
3053	600381.7	4175848	0.000126	3.39E-04	0.00E+00		1.26E-04	3.39E-04	0.00E+00		2.04E-05	5.12E-05	0.00E+00		1.07E-05	1.95E-05	0.00E+00
3054	600385.5	4175857	0.000122	3.29E-04	0.00E+00		1.22E-04	3.29E-04	0.00E+00		1.99E-05	4.98E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
3055	600389.3	4175866	0.000118	3.19E-04	0.00E+00		1.18E-04	3.19E-04	0.00E+00		1.92E-05	4.82E-05	0.00E+00		1.00E-05	1.84E-05	0.00E+00
3056	600393.1	4175874	0.000115	3.11E-04	0.00E+00		1.15E-04	3.11E-04	0.00E+00		1.88E-05	4.71E-05	0.00E+00		9.80E-06	1.79E-05	0.00E+00
3057	600396.9	4175883	0.000113	3.05E-04	0.00E+00		1.13E-04	3.05E-04	0.00E+00		1.84E-05	4.61E-05	0.00E+00		9.61E-06	1.76E-05	0.00E+00
3058	600400.7	4175892	0.000112	3.03E-04	0.00E+00		1.12E-04	3.03E-04	0.00E+00		1.83E-05	4.58E-05	0.00E+00		9.55E-06	1.75E-05	0.00E+00
3059	600404.5	4175900	0.000111	2.98E-04	0.00E+00		1.11E-04	2.98E-04	0.00E+00		1.80E-05	4.51E-05	0.00E+00		9.39E-06	1.72E-05	0.00E+00
3060	600408.2	4175909	0.000109	2.95E-04	0.00E+00		1.09E-04	2.95E-04	0.00E+00		1.78E-05	4.46E-05	0.00E+00		9.29E-06	1.70E-05	0.00E+00
3061	600412	4175917	0.000108	2.92E-04	0.00E+00		1.08E-04	2.92E-04	0.00E+00		1.76E-05	4.42E-05	0.00E+00		9.20E-06	1.68E-05	0.00E+00
3062	600415.8	4175926	0.000108	2.90E-04	0.00E+00		1.08E-04	2.90E-04	0.00E+00		1.75E-05	4.38E-05	0.00E+00		9.13E-06	1.67E-05	0.00E+00
3063	600419.6	4175935	0.000107	2.88E-04	0.00E+00		1.07E-04	2.88E-04	0.00E+00		1.74E-05	4.36E-05	0.00E+00		9.07E-06	1.66E-05	0.00E+00
3064	600423.4	4175943	0.000105	2.83E-04	0.00E+00		1.05E-04	2.83E-04	0.00E+00		1.71E-05	4.27E-05	0.00E+00		8.90E-06	1.63E-05	0.00E+00
3065	600427.2	4175952	0.000103	2.79E-04	0.00E+00		1.03E-04	2.79E-04	0.00E+00		1.68E-05	4.22E-05	0.00E+00		8.78E-06	1.61E-05	0.00E+00
3066	600431	4175961	0.000103	2.77E-04	0.00E+00		1.03E-04	2.77E-04	0.00E+00		1.67E-05	4.18E-05	0.00E+00		8.72E-06	1.60E-05	0.00E+00
3067	600434.7	4175969	0.000102	2.75E-04	0.00E+00		1.02E-04	2.75E-04	0.00E+00		1.66E-05	4.16E-05	0.00E+00		8.66E-06	1.58E-05	0.00E+00
3068	600438.5	4175978	0.000101	2.73E-04	0.00E+00		1.01E-04	2.73E-04	0.00E+00		1.65E-05	4.13E-05	0.00E+00		8.59E-06	1.57E-05	0.00E+00
3069	600442.3	4175987	0.0001	2.71E-04	0.00E+00		1.00E-04	2.71E-04	0.00E+00		1.63E-05	4.09E-05	0.00E+00		8.53E-06	1.56E-05	0.00E+00
3070	600446.1	4175995	9.96E-05	2.68E-04	0.00E+00		9.96E-05	2.68E-04	0.00E+00		1.62E-05	4.06E-05	0.00E+00		8.45E-06	1.55E-05	0.00E+00
3071	600449.9	4176004	9.87E-05	2.66E-04	0.00E+00		9.87E-05	2.66E-04	0.00E+00		1.61E-05	4.02E-05	0.00E+00		8.38E-06	1.53E-05	0.00E+00
3072	600453.7	4176013	9.78E-05	2.64E-04	0.00E+00		9.78E-05	2.64E-04	0.00E+00		1.59E-05	3.99E-05	0.00E+00		8.30E-06	1.52E-05	0.00E+00
3073	600457.5	4176021	9.67E-05	2.61E-04	0.00E+00		9.67E-05	2.61E-04	0.00E+00		1.57E-05	3.94E-05	0.00E+00		8.21E-06	1.50E-05	0.00E+00
3074	600461.2	4176030	9.56E-05	2.58E-04	0.00E+00		9.56E-05	2.58E-04	0.00E+00		1.55E-05	3.90E-05	0.00E+00		8.12E-06	1.49E-05	0.00E+00
3075	600465	4176039	9.59E-05	2.59E-04	0.00E+00		9.59E-05	2.59E-04	0.00E+00		1.56E-05	3.91E-05	0.00E+00		8.15E-06	1.49E-05	0.00E+00
3076	600468.8	4176047	9.43E-05	2.54E-04	0.00E+00		9.43E-05	2.54E-04	0.00E+00		1.53E-05	3.85E-05	0.00E+00		8.01E-06	1.47E-05	0.00E+00
3077	600472.6	4176056	9.12E-05	2.46E-04	0.00E+00		9.12E-05	2.46E-04	0.00E+00		1.48E-05	3.72E-05	0.00E+00		7.74E-06	1.42E-05	0.00E+00
3078	599744	4175328	0.000111	3.00E-04	0.00E+00		1.11E-04	3.00E-04	0.00E+00		1.81E-05	4.53E-05	0.00E+00		9.44E-06	1.73E-05	0.00E+00
3079	599753.6	4175312	9.75E-05	2.63E-04	0.00E+00		9.75E-05	2.63E-04	0.00E+00		1.59E-05	3.97E-05	0.00E+00		8.28E-06	1.51E-05	0.00E+00
3080	599762.3	4175316	9.72E-05	2.62E-04	0.00E+00		9.72E-05	2.62E-04	0.00E+00		1.58E-05	3.96E-05	0.00E+00		8.25E-06	1.51E-05	0.00E+00
3081	599771	4175320	9.61E-05	2.59E-04	0.00E+00		9.61E-05	2.59E-04	0.00E+00		1.56E-05	3.92E-05	0.00E+00		8.16E-06	1.49E-05	0.00E+00
3082	599779.7	4175324	9.42E-05	2.54E-04	0.00E+00		9.42E-05	2.54E-04	0.00E+00		1.53E-05	3.84E-05	0.00E+00		8.00E-06	1.46E-05	0.00E+00
3083	599788.4	4175327	9.58E-05	2.58E-04	0.00E+00		9.58E-05	2.58E-04	0.00E+00		1.56E-05	3.90E-05	0.00E+00		8.13E-06	1.49E-05	0.00E+00
3084	599797.1	4175331	0.000101	2.73E-04	0.00E+00		1.01E-04	2.73E-04	0.00E+00		1.65E-05	4.13E-05	0.00E+00		8.60E-06	1.57E-05	0.00E+00
3085	599805.9	4175335	0.000108	2.90E-04	0.00E+00		1.08E-04	2.90E-04	0.00E+00		1.75E-05	4.38E-05	0.00E+00		9.13E-06	1.67E-05	0.00E+00
3086	599814.6	4175339	0.000115	3.09E-04	0.00E+00		1.15E-04	3.09E-04	0.00E+00		1.87E-05	4.68E-05	0.00E+00		9.74E-06	1.78E-05	0.00E+00
3087	599823.3	4175343	0.000122	3.28E-04	0.00E+00		1.22E-04	3.28E-04	0.00E+00		1.98E-05	4.96E-05	0.00E+00		1.03E-05	1.89E-05	0.00E+00
3088	599832	4175347	0.00013	3.50E-04	0.00E+00		1.30E-04	3.50E-04	0.00E+00		2.11E-05	5.29E-05	0.00E+00		1.10E-05	2.02E-05	0.00E+00
3089	599840.7	4175351	0.000138	3.72E-04	0.00E+00		1.38E-04	3.72E-04	0.00E+00		2.25E-05	5.63E-05	0.00E+00		1.17E-05	2.14E-05	0.00E+00
3090	599849.4	4175354	0.000145	3.92E-04	0.00E+00		1.45E-04	3.92E-04	0.00E+00		2.36E-05	5.92E-05	0.00E+00		1.23E-05	2.26E-05	0.00E+00
3091	599858.1	4175358	0.000152	4.09E-04	0.00E+00		1.52E-04	4.09E-04	0.00E+00		2.47E-05	6.18E-05	0.00E+00		1.29E-05	2.36E-05	0.00E+00

3092	599866.8	4175362	0.000157	4.24E-04	0.00E+00		1.57E-04	4.24E-04	0.00E+00		2.56E-05	6.41E-05	0.00E+00		1.33E-05	2.44E-05	0.00E+00
3093	599875.5	4175366	0.000162	4.36E-04	0.00E+00		1.62E-04	4.36E-04	0.00E+00		2.63E-05	6.59E-05	0.00E+00		1.37E-05	2.51E-05	0.00E+00
3094	599884.2	4175370	0.000165	4.45E-04	0.00E+00		1.65E-04	4.45E-04	0.00E+00		2.69E-05	6.73E-05	0.00E+00		1.40E-05	2.57E-05	0.00E+00
3095	599892.9	4175374	0.000169	4.55E-04	0.00E+00		1.69E-04	4.55E-04	0.00E+00		2.75E-05	6.88E-05	0.00E+00		1.43E-05	2.62E-05	0.00E+00
3096	599901.6	4175378	0.000173	4.66E-04	0.00E+00		1.73E-04	4.66E-04	0.00E+00		2.81E-05	7.04E-05	0.00E+00		1.47E-05	2.68E-05	0.00E+00
3097	599910.3	4175382	0.000175	4.71E-04	0.00E+00		1.75E-04	4.71E-04	0.00E+00		2.84E-05	7.13E-05	0.00E+00		1.48E-05	2.72E-05	0.00E+00
3098	599919	4175385	0.000177	4.76E-04	0.00E+00		1.77E-04	4.76E-04	0.00E+00		2.87E-05	7.20E-05	0.00E+00		1.50E-05	2.74E-05	0.00E+00
3099	599927.7	4175389	0.000178	4.81E-04	0.00E+00		1.78E-04	4.81E-04	0.00E+00		2.90E-05	7.27E-05	0.00E+00		1.51E-05	2.77E-05	0.00E+00
3100	599936.4	4175393	0.000179	4.82E-04	0.00E+00		1.79E-04	4.82E-04	0.00E+00		2.91E-05	7.28E-05	0.00E+00		1.52E-05	2.78E-05	0.00E+00
3101	599945.1	4175397	0.000175	4.72E-04	0.00E+00		1.75E-04	4.72E-04	0.00E+00		2.85E-05	7.14E-05	0.00E+00		1.49E-05	2.72E-05	0.00E+00
3102	599953.8	4175401	0.000172	4.64E-04	0.00E+00		1.72E-04	4.64E-04	0.00E+00		2.80E-05	7.01E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
3103	599962.5	4175405	0.000169	4.55E-04	0.00E+00		1.69E-04	4.55E-04	0.00E+00		2.75E-05	6.88E-05	0.00E+00		1.43E-05	2.62E-05	0.00E+00
3104	599971.2	4175409	0.00016	4.32E-04	0.00E+00		1.60E-04	4.32E-04	0.00E+00		2.61E-05	6.53E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
3105	599980	4175412	0.00015	4.04E-04	0.00E+00		1.50E-04	4.04E-04	0.00E+00		2.44E-05	6.11E-05	0.00E+00		1.27E-05	2.33E-05	0.00E+00
3106	599988.7	4175416	0.000139	3.75E-04	0.00E+00		1.39E-04	3.75E-04	0.00E+00		2.26E-05	5.67E-05	0.00E+00		1.18E-05	2.16E-05	0.00E+00
3107	599997.4	4175420	0.000133	3.59E-04	0.00E+00		1.33E-04	3.59E-04	0.00E+00		2.17E-05	5.44E-05	0.00E+00		1.13E-05	2.07E-05	0.00E+00
3108	600006.1	4175424	0.000129	3.48E-04	0.00E+00		1.29E-04	3.48E-04	0.00E+00		2.10E-05	5.26E-05	0.00E+00		1.10E-05	2.01E-05	0.00E+00
3109	600014.8	4175428	0.000123	3.33E-04	0.00E+00		1.23E-04	3.33E-04	0.00E+00		2.01E-05	5.03E-05	0.00E+00		1.05E-05	1.92E-05	0.00E+00
3110	600023.5	4175432	0.000117	3.15E-04	0.00E+00		1.17E-04	3.15E-04	0.00E+00		1.90E-05	4.76E-05	0.00E+00		9.92E-06	1.81E-05	0.00E+00
3111	600032.2	4175436	0.000113	3.03E-04	0.00E+00		1.13E-04	3.03E-04	0.00E+00		1.83E-05	4.59E-05	0.00E+00		9.55E-06	1.75E-05	0.00E+00
3112	600040.9	4175440	0.000107	2.88E-04	0.00E+00		1.07E-04	2.88E-04	0.00E+00		1.74E-05	4.36E-05	0.00E+00		9.08E-06	1.66E-05	0.00E+00
3113	600049.6	4175443	0.0001	2.71E-04	0.00E+00		1.00E-04	2.71E-04	0.00E+00		1.63E-05	4.09E-05	0.00E+00		8.53E-06	1.56E-05	0.00E+00
3114	600058.3	4175447	9.84E-05	2.65E-04	0.00E+00		9.84E-05	2.65E-04	0.00E+00		1.60E-05	4.01E-05	0.00E+00		8.35E-06	1.53E-05	0.00E+00
3115	600067	4175451	0.0001	2.70E-04	0.00E+00		1.00E-04	2.70E-04	0.00E+00		1.63E-05	4.09E-05	0.00E+00		8.51E-06	1.56E-05	0.00E+00
3116	600075.7	4175455	0.000101	2.72E-04	0.00E+00		1.01E-04	2.72E-04	0.00E+00		1.64E-05	4.12E-05	0.00E+00		8.58E-06	1.57E-05	0.00E+00
3117	600084.4	4175459	0.000101	2.72E-04	0.00E+00		1.01E-04	2.72E-04	0.00E+00		1.64E-05	4.12E-05	0.00E+00		8.57E-06	1.57E-05	0.00E+00
3118	600093.1	4175463	0.000103	2.78E-04	0.00E+00		1.03E-04	2.78E-04	0.00E+00		1.68E-05	4.20E-05	0.00E+00		8.75E-06	1.60E-05	0.00E+00
3119	600101.8	4175467	0.000104	2.81E-04	0.00E+00		1.04E-04	2.81E-04	0.00E+00		1.69E-05	4.24E-05	0.00E+00		8.84E-06	1.62E-05	0.00E+00
3120	600110.5	4175470	0.000104	2.81E-04	0.00E+00		1.04E-04	2.81E-04	0.00E+00		1.69E-05	4.24E-05	0.00E+00		8.83E-06	1.62E-05	0.00E+00
3121	600301.6	4175619	0.000127	3.43E-04	0.00E+00		1.27E-04	3.43E-04	0.00E+00		2.07E-05	5.18E-05	0.00E+00		1.08E-05	1.98E-05	0.00E+00
3122	600305.4	4175627	0.000128	3.46E-04	0.00E+00		1.28E-04	3.46E-04	0.00E+00		2.09E-05	5.23E-05	0.00E+00		1.09E-05	1.99E-05	0.00E+00
3123	600309.2	4175636	0.00013	3.50E-04	0.00E+00		1.30E-04	3.50E-04	0.00E+00		2.11E-05	5.29E-05	0.00E+00		1.10E-05	2.02E-05	0.00E+00
3124	600313.1	4175645	0.000131	3.52E-04	0.00E+00		1.31E-04	3.52E-04	0.00E+00		2.12E-05	5.32E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
3125	600316.9	4175654	0.000131	3.52E-04	0.00E+00		1.31E-04	3.52E-04	0.00E+00		2.13E-05	5.33E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
3126	600320.7	4175662	0.000131	3.52E-04	0.00E+00		1.31E-04	3.52E-04	0.00E+00		2.13E-05	5.33E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
3127	600324.5	4175671	0.00013	3.50E-04	0.00E+00		1.30E-04	3.50E-04	0.00E+00		2.11E-05	5.30E-05	0.00E+00		1.10E-05	2.02E-05	0.00E+00
3128	600328.3	4175680	0.000129	3.49E-04	0.00E+00		1.29E-04	3.49E-04	0.00E+00		2.10E-05	5.27E-05	0.00E+00		1.10E-05	2.01E-05	0.00E+00
3129	600332.1	4175688	0.000131	3.52E-04	0.00E+00		1.31E-04	3.52E-04	0.00E+00		2.12E-05	5.32E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
3130	600336	4175697	0.000131	3.53E-04	0.00E+00		1.31E-04	3.53E-04	0.00E+00		2.13E-05	5.33E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
3131	600339.8	4175706	0.000129	3.49E-04	0.00E+00		1.29E-04	3.49E-04	0.00E+00		2.10E-05	5.27E-05	0.00E+00		1.10E-05	2.01E-05	0.00E+00
3132	600343.6	4175715	0.000129	3.49E-04	0.00E+00		1.29E-04	3.49E-04	0.00E+00		2.11E-05	5.28E-05	0.00E+00		1.10E-05	2.01E-05	0.00E+00
3133	600347.4	4175723	0.00013	3.51E-04	0.00E+00		1.30E-04	3.51E-04	0.00E+00		2.12E-05	5.30E-05	0.00E+00		1.10E-05	2.02E-05	0.00E+00
3134	600351.2	4175732	0.000131	3.54E-04	0.00E+00		1.31E-04	3.54E-04	0.00E+00		2.13E-05	5.35E-05	0.00E+00		1.11E-05	2.04E-05	0.00E+00
3135	600355.1	4175741	0.000134	3.62E-04	0.00E+00		1.34E-04	3.62E-04	0.00E+00		2.18E-05	5.47E-05	0.00E+00		1.14E-05	2.08E-05	0.00E+00
3136	600358.9	4175750	0.000136	3.68E-04	0.00E+00		1.36E-04	3.68E-04	0.00E+00		2.22E-05	5.56E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
3137	600362.7	4175758	0.000137	3.69E-04	0.00E+00		1.37E-04	3.69E-04	0.00E+00		2.22E-05	5.57E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
3138	600366.5	4175767	0.000137	3.69E-04	0.00E+00		1.37E-04	3.69E-04	0.00E+00		2.23E-05	5.58E-05	0.00E+00		1.16E-05	2.13E-05	0.00E+00
3139	600370.3	4175776	0.000137	3.69E-04	0.00E+00		1.37E-04	3.69E-04	0.00E+00		2.23E-05	5.58E-05	0.00E+00		1.16E-05	2.13E-05	0.00E+00
3140	600374.2	4175784	0.000136	3.68E-04	0.00E+00		1.36E-04	3.68E-04	0.00E+00		2.22E-05	5.56E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
3141	600378	4175793	0.000136	3.66E-04	0.00E+00		1.36E-04	3.66E-04	0.00E+00		2.21E-05	5.54E-05	0.00E+00		1.15E-05	2.11E-05	0.00E+00
3142	600381.8	4175802	0.000135	3.64E-04	0.00E+00		1.35E-04	3.64E-04	0.00E+00		2.20E-05	5.51E-05	0.00E+00		1.15E-05	2.10E-05	0.00E+00
3143	600385.6	4175811	0.000133	3.59E-04	0.00E+00		1.33E-04	3.59E-04	0.00E+00		2.17E-05	5.43E-05	0.00E+00		1.13E-05	2.07E-05	0.00E+00
3144	600389.4	4175819	0.00013	3.50E-04	0.00E+00		1.30E-04	3.50E-04	0.00E+00		2.11E-05	5.29E-05	0.00E+00		1.10E-05	2.02E-05	0.00E+00
3145	600393.3	4175828	0.000126	3.40E-04	0.00E+00		1.26E-04	3.40E-04	0.00E+00		2.05E-05	5.14E-05	0.00E+00		1.07E-05	1.96E-05	0.00E+00
3146	600397.1	4175837	0.000122	3.29E-04	0.00E+00		1.22E-04	3.29E-04	0.00E+00		1.99E-05	4.98E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
3147	600400.9	4175845	0.000118	3.19E-04	0.00E+00		1.18E-04	3.19E-04	0.00E+00		1.93E-05	4.83E-05	0.00E+00		1.01E-05	1.84E-05	0.00E+00
3148	600404.7	4175854	0.000115	3.10E-04	0.00E+00		1.15E-04	3.10E-04	0.00E+00		1.87E-05	4.69E-05	0.00E+00		9.76E-06	1.79E-05	0.00E+00
3149	600408.5	4175863	0.000112	3.02E-04	0.00E+00		1.12E-04	3.02E-04	0.00E+00		1.82E-05	4.56E-05	0.00E+00		9.50E-06	1.74E-05	0.00E+00
3150	600412.3	4175872	0.000111	3.00E-04	0.00E+00		1.11E-04	3.00E-04	0.00E+00		1.81E-05	4.54E-05	0.00E+00		9.45E-06	1.73E-05	0.00E+00
3151	600416.2	4175880	0.00011	2.96E-04	0.00E+00		1.10E-04	2.96E-04	0.00E+00		1.79E-05	4.48E-05	0.00E+00		9.33E-06	1.71E-05	0.00E+00
3152	600420	4175889	0.000108	2.91E-04	0.00E+00		1.08E-04	2.91E-04	0.00E+00		1.76E-05	4.40E-05	0.00E+00		9.17E-06	1.68E-05	0.00E+00
3153	600423.8	4175898	0.000107	2.88E-04	0.00E+00		1.07E-04	2.88E-04	0.00E+00		1.74E-05	4.36E-05	0.00E+00		9.08E-06	1.66E-05	0.00E+00
3154	600427.6	4175907	0.000106	2.86E-04	0.00E+00		1.06E-04	2.86E-04	0.00E+00		1.73E-05	4.32E-05	0.00E+00		9.01E-06	1.65E-05	0.00E+00
3155	600431.4	4175915	0.000105	2.84E-04	0.00E+00		1.05E-04	2.84E-04	0.00E+00		1.72E-05	4.30E-05	0.00E+00		8.96E-06	1.64E-05	0.00E+00
3156	600435.3	4175924	0.000105	2.84E-04	0.00E+00		1.05E-04	2.84E-04	0.00E+00		1.71E-05	4.29E-05	0.00E+00		8.93E-06	1.63E-05	0.00E+00
3157	600439.1	4175933	0.000104	2.82E-04	0.00E+00		1.04E-04	2.82E-04	0.00E+00		1.70E-05	4.26E-05	0.00E+00		8.87E-06	1.62E-05	0.00E+00
3158	600442.9	4175941	0.000104	2.79E-04	0.00E+00		1.04E-04	2.79E-04	0.00E+00		1.69E-05	4.22E-05	0.00E+00		8.80E-06	1.61E-05	0.00E+00
3159	600446.7	4175950	0.000103	2.78E-04	0.00E+00		1.03E-04	2.78E-04	0.00E+00		1.67E-05	4.20E-05	0.00E+00		8.74E-06	1.60E-05	0.00E+00
3160	600450.5	4175959	0.000102	2.76E-04	0.00E+00		1.02E-04	2.76E-04	0.00E+00		1.67E-05	4.18E-05	0.00E+00		8.70E-06	1.59E-05	0.00E+00
3161	600454.4	4175968	0.000102	2.75E-04	0.00E+00		1.02E-04	2.75E-04	0.00E+00		1.66E-05	4.16E-05	0.00E+00		8.66E-06	1.58E-05	0.00E+00
3162	600458.2	4175976	0.000102	2.74E-04	0.00E+00		1.02E-04	2.74E-04	0.00E+00		1.65E-05	4.14E-05	0.00E+00		8.62E-06	1.58E-05	0.00E+00
3163	600462	4175985	0.000101	2.72E-04	0.00E+00		1.01E-04	2.72E-04	0.00E+00		1.64E-05	4.11E-05	0.00E+00		8.56E-06	1.57E-05	0.00E+00
3164	600465.8	4175994	0.0001	2.70E-04	0.00E+00		1.00E-04	2.70E-04	0.00E+00		1.63E-05	4.08E-05	0.00E+00		8.49E-06	1.55E-05	0.00E+00
3165	600469.6	4176003	9.91E-05	2.67E-04	0.00E+00		9.91E-05	2.67E-04	0.00E+00		1.61E-05	4.04E-05	0.00E+00		8.41E-06	1.54E-05	0.00E+00
3166	600473.5	4176011	9.8E-05	2.64E-04	0.00E+00		9.80E-05	2.64E-04	0.00E+00		1.59E-05	4.00E-05	0.00E+00		8.32E-06	1.52E-05	0.00E+00
3167	600477.3	4176020	9.68E-05	2.61E-04	0.00E+00		9.68E-05	2.61E-04	0.00E+00		1.58E-05	3.95E-05	0.00E+00		8.22E-06	1.50E-05	0.00E+00
3168	600481.1	4176029	9.54E-05	2.57E-04	0.00E+00		9.54E-05	2.57E-04	0.00E+00		1.55E-05	3.89E-05	0.00E+00		8.10E-06	1.48E-05	0.00E+00
3169	600484.9	4176037	9.39E-05	2.53E-04	0.00E+00		9.39E-05	2.53E-04	0.00E+00		1.53E-05	3.83E-05	0.00E+00		7.97E-06	1.46E-05	0.00E+00
3170	600488.7	4176046	9.23E-05	2.49E-04	0.00E+00		9.23E-05	2.49E-04	0.00E+00		1.50E-05	3.76E-05	0.00E+00		7.83E-06	1.43E-05	0.00E+00
3171	600492.5	4176055	9.08E-05	2.45E-04	0.00E+00		9.08E-05	2.45E-04	0.00E+00		1.48E-05	3.70E-05	0.00E+00		7.71E-06	1.41E-05	0.00E+00
3172	599744.9	4175308	0.0001	2.70E-04	0.00E+00		1.00E-04	2.70E-04	0.00E+00		1.63E-05	4.08E-05	0.00E+00		8.50E-06	1.56E-05	0.00E+00
3173	599735.4	4175308	0.000104	2.81E-04	0.00E+00		1.04E-04	2.81E-04	0.00E+00		1.69E-05	4.24E-05	0.00E+00		8.83E-06	1.62E-05	0.00E+00
3174	599725.9	4175307	0.000108	2.90E-04	0.00E+00		1.08E-04	2.90E-04	0.00E+00		1.75E-05	4.39E-05	0.00E+00		9.14E-06	1.67E-05	0.00E+00
3175	599754.5	4175292	9.23E-05	2.49E-04	0.00E+00		9.23E-05	2.49E-04	0.00E+00		1.50E-05	3.76E-05	0.00E+00		7.84E-06	1.43E-05	0.00E+00
3176	599763.1	4175296	9.17E-05	2.47E-04	0.00E+00		9.17E-05	2.47E-04	0.00E+00		1.49E-05	3.74E-05	0.00E+00		7.79E-06	1.43E-05	0.00E+00
3177	599771.8	4175300	9.21E-05	2.48E-04	0.00E+00		9.21E-05	2.48E-04	0.00E+00		1.50E-05	3.76E-05	0.00E+00		7.82E-06	1.43E-05	0.00E+00
3178	599780.4	4175303	9.18E-05	2.48E-04	0.00E+00		9.18E-05	2.48E-04	0.00E+00		1.49E-05	3.74E-05	0.00E+00		7.80E-06	1.43E-05	0.00E+00
3179	599789.1	4175307	9.31E-05	2.51E-04	0.00E+00		9.31E-05	2.51E-04	0.00E+00		1.52E-05	3.80E-05	0.00E+00		7.91E-06	1.45E-05	0.00E+00
3180	599797.7	4175311	9.61E-05	2.59E-04	0.00E+00		9.61E-05	2.59E-04	0.00E+00		1.56E-05	3.92E-05	0.00E+00		8.16E-06	1.49E-05	0.00E+00
3181	599806.3	4175315	9.95E-05	2.68E-04	0.00E+00		9.95E-05	2.68E-04	0.00E+00		1.62E-05	4.06E-05	0.00E+00		8.45E-06	1.55E-05	0.00E+00
3182	599815	4175319	0.000104	2.81E-04	0.00E+00		1.04E-04	2.81E-04	0.00E+00		1.70E-05	4.25E-05	0.00E+00		8.86E-06	1.62E-05	0.00E+00

3183	599823.6	4175323	0.000112	3.02E-04	0.00E+00	1.12E-04	3.02E-04	0.00E+00	1.82E-05	4.57E-05	0.00E+00	9.52E-06	1.74E-05	0.00E+00
3184	599832.2	4175326	0.00012	3.24E-04	0.00E+00	1.20E-04	3.24E-04	0.00E+00	1.96E-05	4.90E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
3185	599840.9	4175330	0.000129	3.48E-04	0.00E+00	1.29E-04	3.48E-04	0.00E+00	2.10E-05	5.27E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
3186	599849.5	4175334	0.000137	3.68E-04	0.00E+00	1.37E-04	3.68E-04	0.00E+00	2.22E-05	5.57E-05	0.00E+00	1.16E-05	2.12E-05	0.00E+00
3187	599858.2	4175338	0.000143	3.86E-04	0.00E+00	1.43E-04	3.86E-04	0.00E+00	2.33E-05	5.83E-05	0.00E+00	1.22E-05	2.22E-05	0.00E+00
3188	599866.8	4175342	0.000149	4.02E-04	0.00E+00	1.49E-04	4.02E-04	0.00E+00	2.43E-05	6.08E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
3189	599875.4	4175346	0.000155	4.17E-04	0.00E+00	1.55E-04	4.17E-04	0.00E+00	2.51E-05	6.30E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
3190	599884.1	4175349	0.000159	4.28E-04	0.00E+00	1.59E-04	4.28E-04	0.00E+00	2.58E-05	6.47E-05	0.00E+00	1.35E-05	2.46E-05	0.00E+00
3191	599892.7	4175353	0.000162	4.37E-04	0.00E+00	1.62E-04	4.37E-04	0.00E+00	2.64E-05	6.61E-05	0.00E+00	1.38E-05	2.52E-05	0.00E+00
3192	599901.3	4175357	0.000166	4.46E-04	0.00E+00	1.66E-04	4.46E-04	0.00E+00	2.69E-05	6.75E-05	0.00E+00	1.41E-05	2.57E-05	0.00E+00
3193	599910	4175361	0.000168	4.52E-04	0.00E+00	1.68E-04	4.52E-04	0.00E+00	2.73E-05	6.84E-05	0.00E+00	1.42E-05	2.61E-05	0.00E+00
3194	599918.6	4175365	0.00017	4.58E-04	0.00E+00	1.70E-04	4.58E-04	0.00E+00	2.76E-05	6.92E-05	0.00E+00	1.44E-05	2.64E-05	0.00E+00
3195	599927.3	4175369	0.000172	4.63E-04	0.00E+00	1.72E-04	4.63E-04	0.00E+00	2.80E-05	7.01E-05	0.00E+00	1.46E-05	2.67E-05	0.00E+00
3196	599935.9	4175372	0.000173	4.65E-04	0.00E+00	1.73E-04	4.65E-04	0.00E+00	2.81E-05	7.03E-05	0.00E+00	1.47E-05	2.68E-05	0.00E+00
3197	599944.5	4175376	0.000169	4.55E-04	0.00E+00	1.69E-04	4.55E-04	0.00E+00	2.74E-05	6.88E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
3198	599953.2	4175380	0.000164	4.43E-04	0.00E+00	1.64E-04	4.43E-04	0.00E+00	2.67E-05	6.70E-05	0.00E+00	1.40E-05	2.55E-05	0.00E+00
3199	599961.8	4175384	0.000159	4.30E-04	0.00E+00	1.59E-04	4.30E-04	0.00E+00	2.59E-05	6.50E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
3200	599970.5	4175388	0.000151	4.07E-04	0.00E+00	1.51E-04	4.07E-04	0.00E+00	2.46E-05	6.16E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
3201	599979.1	4175392	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.76E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
3202	599987.7	4175396	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.33E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
3203	599996.4	4175399	0.000123	3.31E-04	0.00E+00	1.23E-04	3.31E-04	0.00E+00	2.00E-05	5.00E-05	0.00E+00	1.04E-05	1.91E-05	0.00E+00
3204	600005	4175403	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
3205	600013.6	4175407	0.000114	3.07E-04	0.00E+00	1.14E-04	3.07E-04	0.00E+00	1.85E-05	4.64E-05	0.00E+00	9.66E-06	1.77E-05	0.00E+00
3206	600022.3	4175411	0.000108	2.91E-04	0.00E+00	1.08E-04	2.91E-04	0.00E+00	1.75E-05	4.40E-05	0.00E+00	9.15E-06	1.68E-05	0.00E+00
3207	600030.9	4175415	0.000105	2.82E-04	0.00E+00	1.05E-04	2.82E-04	0.00E+00	1.70E-05	4.27E-05	0.00E+00	8.88E-06	1.63E-05	0.00E+00
3208	600039.6	4175419	0.000103	2.78E-04	0.00E+00	1.03E-04	2.78E-04	0.00E+00	1.67E-05	4.20E-05	0.00E+00	8.74E-06	1.60E-05	0.00E+00
3209	600048.2	4175422	0.000101	2.71E-04	0.00E+00	1.01E-04	2.71E-04	0.00E+00	1.64E-05	4.10E-05	0.00E+00	8.55E-06	1.56E-05	0.00E+00
3210	600056.8	4175426	9.9E-05	2.67E-04	0.00E+00	9.90E-05	2.67E-04	0.00E+00	1.61E-05	4.04E-05	0.00E+00	8.41E-06	1.54E-05	0.00E+00
3211	600065.5	4175430	0.0001	2.70E-04	0.00E+00	1.00E-04	2.70E-04	0.00E+00	1.63E-05	4.08E-05	0.00E+00	8.50E-06	1.56E-05	0.00E+00
3212	600074.1	4175434	0.000101	2.72E-04	0.00E+00	1.01E-04	2.72E-04	0.00E+00	1.64E-05	4.11E-05	0.00E+00	8.56E-06	1.57E-05	0.00E+00
3213	600082.7	4175438	0.000101	2.73E-04	0.00E+00	1.01E-04	2.73E-04	0.00E+00	1.65E-05	4.14E-05	0.00E+00	8.61E-06	1.58E-05	0.00E+00
3214	600091.4	4175442	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.72E-05	4.30E-05	0.00E+00	8.95E-06	1.64E-05	0.00E+00
3215	600100	4175445	0.000109	2.94E-04	0.00E+00	1.09E-04	2.94E-04	0.00E+00	1.78E-05	4.45E-05	0.00E+00	9.27E-06	1.70E-05	0.00E+00
3216	600108.7	4175449	0.000112	3.02E-04	0.00E+00	1.12E-04	3.02E-04	0.00E+00	1.82E-05	4.57E-05	0.00E+00	9.52E-06	1.74E-05	0.00E+00
3217	600117.3	4175453	0.000115	3.10E-04	0.00E+00	1.15E-04	3.10E-04	0.00E+00	1.87E-05	4.69E-05	0.00E+00	9.76E-06	1.79E-05	0.00E+00
3218	600125.9	4175457	0.000118	3.19E-04	0.00E+00	1.18E-04	3.19E-04	0.00E+00	1.92E-05	4.82E-05	0.00E+00	1.00E-05	1.84E-05	0.00E+00
3219	600134.6	4175461	0.00012	3.25E-04	0.00E+00	1.20E-04	3.25E-04	0.00E+00	1.96E-05	4.91E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
3220	600143.2	4175465	0.000122	3.28E-04	0.00E+00	1.22E-04	3.28E-04	0.00E+00	1.98E-05	4.97E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
3221	600319.3	4175613	0.000129	3.49E-04	0.00E+00	1.29E-04	3.49E-04	0.00E+00	2.10E-05	5.27E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
3222	600323.1	4175621	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00
3223	600326.9	4175630	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3224	600330.7	4175639	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00
3225	600334.5	4175647	0.00013	3.52E-04	0.00E+00	1.30E-04	3.52E-04	0.00E+00	2.12E-05	5.32E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
3226	600338.2	4175656	0.000129	3.48E-04	0.00E+00	1.29E-04	3.48E-04	0.00E+00	2.10E-05	5.27E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
3227	600342	4175665	0.000128	3.45E-04	0.00E+00	1.28E-04	3.45E-04	0.00E+00	2.08E-05	5.21E-05	0.00E+00	1.09E-05	1.99E-05	0.00E+00
3228	600345.8	4175673	0.000126	3.40E-04	0.00E+00	1.26E-04	3.40E-04	0.00E+00	2.05E-05	5.14E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
3229	600349.6	4175682	0.000126	3.38E-04	0.00E+00	1.26E-04	3.38E-04	0.00E+00	2.04E-05	5.12E-05	0.00E+00	1.07E-05	1.95E-05	0.00E+00
3230	600353.4	4175690	0.000125	3.38E-04	0.00E+00	1.25E-04	3.38E-04	0.00E+00	2.04E-05	5.11E-05	0.00E+00	1.06E-05	1.95E-05	0.00E+00
3231	600357.2	4175699	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.04E-05	5.12E-05	0.00E+00	1.07E-05	1.95E-05	0.00E+00
3232	600361	4175708	0.000127	3.41E-04	0.00E+00	1.27E-04	3.41E-04	0.00E+00	2.06E-05	5.16E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
3233	600364.8	4175716	0.000129	3.47E-04	0.00E+00	1.29E-04	3.47E-04	0.00E+00	2.10E-05	5.25E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
3234	600368.6	4175725	0.000133	3.57E-04	0.00E+00	1.33E-04	3.57E-04	0.00E+00	2.16E-05	5.40E-05	0.00E+00	1.13E-05	2.06E-05	0.00E+00
3235	600372.3	4175734	0.000136	3.66E-04	0.00E+00	1.36E-04	3.66E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
3236	600376.1	4175742	0.000139	3.73E-04	0.00E+00	1.39E-04	3.73E-04	0.00E+00	2.25E-05	5.65E-05	0.00E+00	1.18E-05	2.15E-05	0.00E+00
3237	600379.9	4175751	0.00014	3.76E-04	0.00E+00	1.40E-04	3.76E-04	0.00E+00	2.27E-05	5.69E-05	0.00E+00	1.19E-05	2.17E-05	0.00E+00
3238	600383.7	4175760	0.00014	3.77E-04	0.00E+00	1.40E-04	3.77E-04	0.00E+00	2.27E-05	5.70E-05	0.00E+00	1.19E-05	2.17E-05	0.00E+00
3239	600387.5	4175768	0.000139	3.74E-04	0.00E+00	1.39E-04	3.74E-04	0.00E+00	2.26E-05	5.66E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
3240	600391.3	4175777	0.000137	3.70E-04	0.00E+00	1.37E-04	3.70E-04	0.00E+00	2.23E-05	5.60E-05	0.00E+00	1.17E-05	2.13E-05	0.00E+00
3241	600395.1	4175786	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.19E-05	5.50E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
3242	600398.9	4175794	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3243	600402.7	4175803	0.000129	3.47E-04	0.00E+00	1.29E-04	3.47E-04	0.00E+00	2.09E-05	5.25E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
3244	600406.5	4175812	0.000125	3.37E-04	0.00E+00	1.25E-04	3.37E-04	0.00E+00	2.03E-05	5.09E-05	0.00E+00	1.06E-05	1.94E-05	0.00E+00
3245	600410.2	4175820	0.000121	3.26E-04	0.00E+00	1.21E-04	3.26E-04	0.00E+00	1.97E-05	4.93E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
3246	600414	4175829	0.000117	3.15E-04	0.00E+00	1.17E-04	3.15E-04	0.00E+00	1.90E-05	4.76E-05	0.00E+00	9.90E-06	1.81E-05	0.00E+00
3247	600417.8	4175838	0.000114	3.07E-04	0.00E+00	1.14E-04	3.07E-04	0.00E+00	1.85E-05	4.64E-05	0.00E+00	9.66E-06	1.77E-05	0.00E+00
3248	600421.6	4175846	0.000112	3.01E-04	0.00E+00	1.12E-04	3.01E-04	0.00E+00	1.82E-05	4.56E-05	0.00E+00	9.49E-06	1.74E-05	0.00E+00
3249	600425.4	4175855	0.00011	2.96E-04	0.00E+00	1.10E-04	2.96E-04	0.00E+00	1.79E-05	4.48E-05	0.00E+00	9.34E-06	1.71E-05	0.00E+00
3250	600429.2	4175864	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.42E-05	0.00E+00	9.20E-06	1.68E-05	0.00E+00
3251	600433	4175872	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.75E-05	4.37E-05	0.00E+00	9.11E-06	1.67E-05	0.00E+00
3252	600436.8	4175881	0.000106	2.87E-04	0.00E+00	1.06E-04	2.87E-04	0.00E+00	1.73E-05	4.34E-05	0.00E+00	9.04E-06	1.65E-05	0.00E+00
3253	600440.6	4175890	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.31E-05	0.00E+00	8.98E-06	1.64E-05	0.00E+00
3254	600444.3	4175898	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.94E-06	1.64E-05	0.00E+00
3255	600448.1	4175907	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.94E-06	1.64E-05	0.00E+00
3256	600451.9	4175916	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.30E-05	0.00E+00	8.95E-06	1.64E-05	0.00E+00
3257	600455.7	4175924	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.94E-06	1.64E-05	0.00E+00
3258	600459.5	4175933	0.000105	2.83E-04	0.00E+00	1.05E-04	2.83E-04	0.00E+00	1.71E-05	4.28E-05	0.00E+00	8.91E-06	1.63E-05	0.00E+00
3259	600463.3	4175942	0.000104	2.82E-04	0.00E+00	1.04E-04	2.82E-04	0.00E+00	1.70E-05	4.26E-05	0.00E+00	8.87E-06	1.62E-05	0.00E+00
3260	600467.1	4175950	0.000104	2.80E-04	0.00E+00	1.04E-04	2.80E-04	0.00E+00	1.69E-05	4.24E-05	0.00E+00	8.83E-06	1.62E-05	0.00E+00
3261	600470.9	4175959	0.000104	2.79E-04	0.00E+00	1.04E-04	2.79E-04	0.00E+00	1.68E-05	4.22E-05	0.00E+00	8.79E-06	1.61E-05	0.00E+00
3262	600474.7	4175968	0.000103	2.78E-04	0.00E+00	1.03E-04	2.78E-04	0.00E+00	1.68E-05	4.21E-05	0.00E+00	8.76E-06	1.60E-05	0.00E+00
3263	600478.5	4175976	0.000103	2.77E-04	0.00E+00	1.03E-04	2.77E-04	0.00E+00	1.67E-05	4.19E-05	0.00E+00	8.73E-06	1.60E-05	0.00E+00
3264	600482.2	4175985	0.000102	2.76E-04	0.00E+00	1.02E-04	2.76E-04	0.00E+00	1.66E-05	4.17E-05	0.00E+00	8.68E-06	1.59E-05	0.00E+00
3265	600486	4175994	0.000102	2.74E-04	0.00E+00	1.02E-04	2.74E-04	0.00E+00	1.65E-05	4.14E-05	0.00E+00	8.63E-06	1.58E-05	0.00E+00
3266	600489.8	4176002	0.000101	2.71E-04	0.00E+00	1.01E-04	2.71E-04	0.00E+00	1.64E-05	4.10E-05	0.00E+00	8.54E-06	1.56E-05	0.00E+00
3267	600493.6	4176011	9.94E-05	2.68E-04	0.00E+00	9.94E-05	2.68E-04	0.00E+00	1.62E-05	4.05E-05	0.00E+00	8.44E-06	1.54E-05	0.00E+00
3268	600497.4	4176020	9.8E-05	2.64E-04	0.00E+00	9.80E-05	2.64E-04	0.00E+00	1.59E-05	3.99E-05	0.00E+00	8.32E-06	1.52E-05	0.00E+00
3269	600501.2	4176028	9.64E-05	2.60E-04	0.00E+00	9.64E-05	2.60E-04	0.00E+00	1.57E-05	3.93E-05	0.00E+00	8.18E-06	1.50E-05	0.00E+00
3270	600505	4176037	9.47E-05	2.55E-04	0.00E+00	9.47E-05	2.55E-04	0.00E+00	1.54E-05	3.86E-05	0.00E+00	8.04E-06	1.47E-05	0.00E+00
3271	600508.8	4176045	9.31E-05	2.51E-04	0.00E+00	9.31E-05	2.51E-04	0.00E+00	1.51E-05	3.80E-05	0.00E+00	7.91E-06	1.45E-05	0.00E+00
3272	600512.6	4176054	9.17E-05	2.47E-04	0.00E+00	9.17E-05	2.47E-04	0.00E+00	1.49E-05	3.74E-05	0.00E+00	7.79E-06	1.42E-05	0.00E+00
3273	599745.9	4175288	9.35E-05	2.52E-04	0.00E+00	9.35E-05	2.52E-04	0.00E+00	1.52E-05	3.81E-05	0.00E+00	7.94E-06	1.45E-05	0.00E+00

3274	599736.3	4175288	9.42E-05	2.54E-04	0.00E+00	9.42E-05	2.54E-04	0.00E+00	1.53E-05	3.84E-05	0.00E+00	8.00E-06	1.46E-05	0.00E+00
3275	599726.8	4175287	9.46E-05	2.55E-04	0.00E+00	9.46E-05	2.55E-04	0.00E+00	1.54E-05	3.86E-05	0.00E+00	8.03E-06	1.47E-05	0.00E+00
3276	599717.3	4175287	0.0001	2.70E-04	0.00E+00	1.00E-04	2.70E-04	0.00E+00	1.63E-05	4.08E-05	0.00E+00	8.50E-06	1.56E-05	0.00E+00
3277	599707.8	4175286	0.000105	2.82E-04	0.00E+00	1.05E-04	2.82E-04	0.00E+00	1.70E-05	4.27E-05	0.00E+00	8.88E-06	1.63E-05	0.00E+00
3278	599755.5	4175272	9.53E-05	2.57E-04	0.00E+00	9.53E-05	2.57E-04	0.00E+00	1.55E-05	3.89E-05	0.00E+00	8.10E-06	1.48E-05	0.00E+00
3279	599764.3	4175276	9.63E-05	2.60E-04	0.00E+00	9.63E-05	2.60E-04	0.00E+00	1.57E-05	3.92E-05	0.00E+00	8.17E-06	1.50E-05	0.00E+00
3280	599773	4175280	9.64E-05	2.60E-04	0.00E+00	9.64E-05	2.60E-04	0.00E+00	1.57E-05	3.93E-05	0.00E+00	8.18E-06	1.50E-05	0.00E+00
3281	599781.7	4175284	9.57E-05	2.58E-04	0.00E+00	9.57E-05	2.58E-04	0.00E+00	1.56E-05	3.90E-05	0.00E+00	8.13E-06	1.49E-05	0.00E+00
3282	599790.4	4175287	9.54E-05	2.57E-04	0.00E+00	9.54E-05	2.57E-04	0.00E+00	1.55E-05	3.89E-05	0.00E+00	8.10E-06	1.48E-05	0.00E+00
3283	599799.1	4175291	9.52E-05	2.57E-04	0.00E+00	9.52E-05	2.57E-04	0.00E+00	1.55E-05	3.88E-05	0.00E+00	8.09E-06	1.48E-05	0.00E+00
3284	599807.8	4175295	9.49E-05	2.56E-04	0.00E+00	9.49E-05	2.56E-04	0.00E+00	1.54E-05	3.87E-05	0.00E+00	8.06E-06	1.47E-05	0.00E+00
3285	599816.5	4175299	9.83E-05	2.65E-04	0.00E+00	9.83E-05	2.65E-04	0.00E+00	1.60E-05	4.01E-05	0.00E+00	8.35E-06	1.53E-05	0.00E+00
3286	599825.2	4175303	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.31E-05	0.00E+00	8.98E-06	1.64E-05	0.00E+00
3287	599833.9	4175307	0.000114	3.06E-04	0.00E+00	1.14E-04	3.06E-04	0.00E+00	1.85E-05	4.63E-05	0.00E+00	9.65E-06	1.77E-05	0.00E+00
3288	599842.6	4175311	0.000123	3.31E-04	0.00E+00	1.23E-04	3.31E-04	0.00E+00	2.00E-05	5.01E-05	0.00E+00	1.04E-05	1.91E-05	0.00E+00
3289	599851.4	4175315	0.00013	3.50E-04	0.00E+00	1.30E-04	3.50E-04	0.00E+00	2.11E-05	5.29E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
3290	599860.1	4175318	0.000136	3.67E-04	0.00E+00	1.36E-04	3.67E-04	0.00E+00	2.21E-05	5.55E-05	0.00E+00	1.16E-05	2.12E-05	0.00E+00
3291	599868.8	4175322	0.000142	3.83E-04	0.00E+00	1.42E-04	3.83E-04	0.00E+00	2.31E-05	5.79E-05	0.00E+00	1.21E-05	2.21E-05	0.00E+00
3292	599877.5	4175326	0.000148	3.98E-04	0.00E+00	1.48E-04	3.98E-04	0.00E+00	2.40E-05	6.02E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
3293	599886.2	4175330	0.000152	4.11E-04	0.00E+00	1.52E-04	4.11E-04	0.00E+00	2.48E-05	6.21E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
3294	599894.9	4175334	0.000156	4.22E-04	0.00E+00	1.56E-04	4.22E-04	0.00E+00	2.55E-05	6.38E-05	0.00E+00	1.33E-05	2.43E-05	0.00E+00
3295	599903.6	4175338	0.00016	4.32E-04	0.00E+00	1.60E-04	4.32E-04	0.00E+00	2.61E-05	6.53E-05	0.00E+00	1.36E-05	2.49E-05	0.00E+00
3296	599912.3	4175342	0.000163	4.39E-04	0.00E+00	1.63E-04	4.39E-04	0.00E+00	2.65E-05	6.64E-05	0.00E+00	1.38E-05	2.53E-05	0.00E+00
3297	599921	4175345	0.000165	4.46E-04	0.00E+00	1.65E-04	4.46E-04	0.00E+00	2.69E-05	6.74E-05	0.00E+00	1.40E-05	2.57E-05	0.00E+00
3298	599929.7	4175349	0.000168	4.52E-04	0.00E+00	1.68E-04	4.52E-04	0.00E+00	2.73E-05	6.84E-05	0.00E+00	1.42E-05	2.61E-05	0.00E+00
3299	599938.5	4175353	0.000166	4.49E-04	0.00E+00	1.66E-04	4.49E-04	0.00E+00	2.71E-05	6.78E-05	0.00E+00	1.41E-05	2.59E-05	0.00E+00
3300	599947.2	4175357	0.000162	4.37E-04	0.00E+00	1.62E-04	4.37E-04	0.00E+00	2.64E-05	6.61E-05	0.00E+00	1.38E-05	2.52E-05	0.00E+00
3301	599955.9	4175361	0.000158	4.26E-04	0.00E+00	1.58E-04	4.26E-04	0.00E+00	2.57E-05	6.44E-05	0.00E+00	1.34E-05	2.45E-05	0.00E+00
3302	599964.6	4175365	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.49E-05	6.23E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
3303	599973.3	4175369	0.000145	3.90E-04	0.00E+00	1.45E-04	3.90E-04	0.00E+00	2.35E-05	5.89E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
3304	599982	4175373	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.19E-05	5.50E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
3305	599990.7	4175376	0.000124	3.34E-04	0.00E+00	1.24E-04	3.34E-04	0.00E+00	2.02E-05	5.06E-05	0.00E+00	1.05E-05	1.93E-05	0.00E+00
3306	599999.4	4175380	0.000118	3.18E-04	0.00E+00	1.18E-04	3.18E-04	0.00E+00	1.92E-05	4.82E-05	0.00E+00	1.00E-05	1.84E-05	0.00E+00
3307	600008.1	4175384	0.000115	3.10E-04	0.00E+00	1.15E-04	3.10E-04	0.00E+00	1.87E-05	4.69E-05	0.00E+00	9.77E-06	1.79E-05	0.00E+00
3308	600016.9	4175388	0.000112	3.03E-04	0.00E+00	1.12E-04	3.03E-04	0.00E+00	1.83E-05	4.59E-05	0.00E+00	9.55E-06	1.75E-05	0.00E+00
3309	600025.6	4175392	0.00011	2.96E-04	0.00E+00	1.10E-04	2.96E-04	0.00E+00	1.79E-05	4.47E-05	0.00E+00	9.32E-06	1.71E-05	0.00E+00
3310	600034.3	4175396	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.42E-05	0.00E+00	9.20E-06	1.68E-05	0.00E+00
3311	600043	4175400	0.000106	2.87E-04	0.00E+00	1.06E-04	2.87E-04	0.00E+00	1.73E-05	4.34E-05	0.00E+00	9.04E-06	1.65E-05	0.00E+00
3312	600051.7	4175404	0.000104	2.81E-04	0.00E+00	1.04E-04	2.81E-04	0.00E+00	1.69E-05	4.24E-05	0.00E+00	8.84E-06	1.62E-05	0.00E+00
3313	600060.4	4175407	0.000105	2.83E-04	0.00E+00	1.05E-04	2.83E-04	0.00E+00	1.71E-05	4.28E-05	0.00E+00	8.92E-06	1.63E-05	0.00E+00
3314	600069.1	4175411	0.000106	2.86E-04	0.00E+00	1.06E-04	2.86E-04	0.00E+00	1.73E-05	4.33E-05	0.00E+00	9.01E-06	1.65E-05	0.00E+00
3315	600077.8	4175415	0.000106	2.87E-04	0.00E+00	1.06E-04	2.87E-04	0.00E+00	1.73E-05	4.34E-05	0.00E+00	9.03E-06	1.65E-05	0.00E+00
3316	600086.5	4175419	0.000109	2.95E-04	0.00E+00	1.09E-04	2.95E-04	0.00E+00	1.78E-05	4.45E-05	0.00E+00	9.28E-06	1.70E-05	0.00E+00
3317	600095.2	4175423	0.000116	3.13E-04	0.00E+00	1.16E-04	3.13E-04	0.00E+00	1.89E-05	4.73E-05	0.00E+00	9.86E-06	1.80E-05	0.00E+00
3318	600104	4175427	0.000122	3.29E-04	0.00E+00	1.22E-04	3.29E-04	0.00E+00	1.99E-05	4.98E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
3319	600112.7	4175431	0.000127	3.43E-04	0.00E+00	1.27E-04	3.43E-04	0.00E+00	2.07E-05	5.19E-05	0.00E+00	1.08E-05	1.98E-05	0.00E+00
3320	600121.4	4175434	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3321	600130.1	4175438	0.000137	3.69E-04	0.00E+00	1.37E-04	3.69E-04	0.00E+00	2.23E-05	5.59E-05	0.00E+00	1.16E-05	2.13E-05	0.00E+00
3322	600138.8	4175442	0.000142	3.83E-04	0.00E+00	1.42E-04	3.83E-04	0.00E+00	2.31E-05	5.79E-05	0.00E+00	1.21E-05	2.21E-05	0.00E+00
3323	600147.5	4175446	0.000145	3.91E-04	0.00E+00	1.45E-04	3.91E-04	0.00E+00	2.36E-05	5.91E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
3324	600156.2	4175450	0.000143	3.86E-04	0.00E+00	1.43E-04	3.86E-04	0.00E+00	2.33E-05	5.84E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
3325	600164.9	4175454	0.000143	3.84E-04	0.00E+00	1.43E-04	3.84E-04	0.00E+00	2.32E-05	5.81E-05	0.00E+00	1.21E-05	2.21E-05	0.00E+00
3326	600349.1	4175634	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3327	600352.9	4175643	0.00013	3.52E-04	0.00E+00	1.30E-04	3.52E-04	0.00E+00	2.12E-05	5.32E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
3328	600356.7	4175652	0.000129	3.49E-04	0.00E+00	1.29E-04	3.49E-04	0.00E+00	2.10E-05	5.27E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
3329	600360.5	4175660	0.000128	3.46E-04	0.00E+00	1.28E-04	3.46E-04	0.00E+00	2.09E-05	5.23E-05	0.00E+00	1.09E-05	1.99E-05	0.00E+00
3330	600364.4	4175669	0.000128	3.45E-04	0.00E+00	1.28E-04	3.45E-04	0.00E+00	2.08E-05	5.22E-05	0.00E+00	1.09E-05	1.99E-05	0.00E+00
3331	600368.2	4175678	0.000128	3.46E-04	0.00E+00	1.28E-04	3.46E-04	0.00E+00	2.09E-05	5.23E-05	0.00E+00	1.09E-05	1.99E-05	0.00E+00
3332	600372	4175686	0.000129	3.48E-04	0.00E+00	1.29E-04	3.48E-04	0.00E+00	2.10E-05	5.26E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
3333	600375.8	4175695	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.37E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3334	600379.7	4175704	0.000135	3.63E-04	0.00E+00	1.35E-04	3.63E-04	0.00E+00	2.19E-05	5.48E-05	0.00E+00	1.14E-05	2.09E-05	0.00E+00
3335	600383.5	4175713	0.000138	3.71E-04	0.00E+00	1.38E-04	3.71E-04	0.00E+00	2.24E-05	5.61E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
3336	600387.3	4175721	0.00014	3.76E-04	0.00E+00	1.40E-04	3.76E-04	0.00E+00	2.27E-05	5.69E-05	0.00E+00	1.18E-05	2.17E-05	0.00E+00
3337	600391.1	4175730	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.29E-05	5.74E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
3338	600394.9	4175739	0.000142	3.82E-04	0.00E+00	1.42E-04	3.82E-04	0.00E+00	2.30E-05	5.77E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
3339	600398.8	4175748	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.76E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
3340	600402.6	4175756	0.00014	3.77E-04	0.00E+00	1.40E-04	3.77E-04	0.00E+00	2.28E-05	5.70E-05	0.00E+00	1.19E-05	2.17E-05	0.00E+00
3341	600406.4	4175765	0.000138	3.72E-04	0.00E+00	1.38E-04	3.72E-04	0.00E+00	2.24E-05	5.62E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
3342	600410.2	4175774	0.000135	3.65E-04	0.00E+00	1.35E-04	3.65E-04	0.00E+00	2.20E-05	5.52E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
3343	600414	4175783	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.37E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3344	600417.9	4175791	0.000127	3.42E-04	0.00E+00	1.27E-04	3.42E-04	0.00E+00	2.06E-05	5.17E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
3345	600421.7	4175800	0.000123	3.30E-04	0.00E+00	1.23E-04	3.30E-04	0.00E+00	1.99E-05	5.00E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
3346	600425.5	4175809	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.84E-05	0.00E+00
3347	600429.3	4175817	0.000115	3.11E-04	0.00E+00	1.15E-04	3.11E-04	0.00E+00	1.88E-05	4.70E-05	0.00E+00	9.79E-06	1.79E-05	0.00E+00
3348	600433.2	4175826	0.000113	3.04E-04	0.00E+00	1.13E-04	3.04E-04	0.00E+00	1.83E-05	4.60E-05	0.00E+00	9.57E-06	1.75E-05	0.00E+00
3349	600437	4175835	0.000111	2.98E-04	0.00E+00	1.11E-04	2.98E-04	0.00E+00	1.80E-05	4.51E-05	0.00E+00	9.39E-06	1.72E-05	0.00E+00
3350	600440.8	4175844	0.000109	2.94E-04	0.00E+00	1.09E-04	2.94E-04	0.00E+00	1.77E-05	4.45E-05	0.00E+00	9.26E-06	1.69E-05	0.00E+00
3351	600444.6	4175852	0.000108	2.91E-04	0.00E+00	1.08E-04	2.91E-04	0.00E+00	1.76E-05	4.40E-05	0.00E+00	9.16E-06	1.68E-05	0.00E+00
3352	600448.4	4175861	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.75E-05	4.38E-05	0.00E+00	9.11E-06	1.67E-05	0.00E+00
3353	600452.3	4175870	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.36E-05	0.00E+00	9.08E-06	1.66E-05	0.00E+00
3354	600456.1	4175879	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.36E-05	0.00E+00	9.08E-06	1.66E-05	0.00E+00
3355	600459.9	4175887	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.35E-05	0.00E+00	9.07E-06	1.66E-05	0.00E+00
3356	600463.7	4175896	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.35E-05	0.00E+00	9.06E-06	1.66E-05	0.00E+00
3357	600467.5	4175905	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.36E-05	0.00E+00	9.07E-06	1.66E-05	0.00E+00
3358	600471.4	4175914	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.35E-05	0.00E+00	9.07E-06	1.66E-05	0.00E+00
3359	600475.2	4175922	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.36E-05	0.00E+00	9.08E-06	1.66E-05	0.00E+00
3360	600479	4175931	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.36E-05	0.00E+00	9.09E-06	1.66E-05	0.00E+00
3361	600482.8	4175940	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.74E-05	4.37E-05	0.00E+00	9.09E-06	1.66E-05	0.00E+00
3362	600486.7	4175948	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.75E-05	4.37E-05	0.00E+00	9.11E-06	1.67E-05	0.00E+00
3363	600490.5	4175957	0.000108	2.90E-04	0.00E+00	1.08E-04	2.90E-04	0.00E+00	1.75E-05	4.38E-05	0.00E+00	9.13E-06	1.67E-05	0.00E+00
3364	600494.3	4175966	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.74E-05	4.37E-05	0.00E+00	9.10E-06	1.67E-05	0.00E+00

3365	600498.1	4175975	0.000107	2.87E-04	0.00E+00		1.07E-04	2.87E-04	0.00E+00		1.73E-05	4.35E-05	0.00E+00		9.05E-06	1.66E-05	0.00E+00
3366	600501.9	4175983	0.000106	2.85E-04	0.00E+00		1.06E-04	2.85E-04	0.00E+00		1.72E-05	4.31E-05	0.00E+00		8.98E-06	1.64E-05	0.00E+00
3367	600505.8	4175992	0.000104	2.82E-04	0.00E+00		1.04E-04	2.82E-04	0.00E+00		1.70E-05	4.26E-05	0.00E+00		8.87E-06	1.62E-05	0.00E+00
3368	600509.6	4176001	0.000103	2.77E-04	0.00E+00		1.03E-04	2.77E-04	0.00E+00		1.67E-05	4.19E-05	0.00E+00		8.73E-06	1.60E-05	0.00E+00
3369	600513.4	4176010	0.000101	2.73E-04	0.00E+00		1.01E-04	2.73E-04	0.00E+00		1.65E-05	4.12E-05	0.00E+00		8.59E-06	1.57E-05	0.00E+00
3370	600517.2	4176018	9.95E-05	2.68E-04	0.00E+00		9.95E-05	2.68E-04	0.00E+00		1.62E-05	4.05E-05	0.00E+00		8.45E-06	1.55E-05	0.00E+00
3371	600521	4176027	9.79E-05	2.64E-04	0.00E+00		9.79E-05	2.64E-04	0.00E+00		1.59E-05	3.99E-05	0.00E+00		8.31E-06	1.52E-05	0.00E+00
3372	600524.9	4176036	9.65E-05	2.60E-04	0.00E+00		9.65E-05	2.60E-04	0.00E+00		1.57E-05	3.93E-05	0.00E+00		8.19E-06	1.50E-05	0.00E+00
3373	600528.7	4176044	9.51E-05	2.56E-04	0.00E+00		9.51E-05	2.56E-04	0.00E+00		1.55E-05	3.88E-05	0.00E+00		8.07E-06	1.48E-05	0.00E+00
3374	600532.5	4176053	9.41E-05	2.54E-04	0.00E+00		9.41E-05	2.54E-04	0.00E+00		1.53E-05	3.84E-05	0.00E+00		7.99E-06	1.46E-05	0.00E+00
3375	599746.8	4175268	9.38E-05	2.53E-04	0.00E+00		9.38E-05	2.53E-04	0.00E+00		1.53E-05	3.82E-05	0.00E+00		7.96E-06	1.46E-05	0.00E+00
3376	599737.3	4175268	9.13E-05	2.46E-04	0.00E+00		9.13E-05	2.46E-04	0.00E+00		1.49E-05	3.72E-05	0.00E+00		7.75E-06	1.42E-05	0.00E+00
3377	599727.8	4175267	8.87E-05	2.39E-04	0.00E+00		8.87E-05	2.39E-04	0.00E+00		1.44E-05	3.61E-05	0.00E+00		7.53E-06	1.38E-05	0.00E+00
3378	599718.3	4175267	8.84E-05	2.38E-04	0.00E+00		8.84E-05	2.38E-04	0.00E+00		1.44E-05	3.60E-05	0.00E+00		7.50E-06	1.37E-05	0.00E+00
3379	599708.7	4175266	8.97E-05	2.42E-04	0.00E+00		8.97E-05	2.42E-04	0.00E+00		1.46E-05	3.66E-05	0.00E+00		7.62E-06	1.39E-05	0.00E+00
3380	599699.2	4175266	9.09E-05	2.45E-04	0.00E+00		9.09E-05	2.45E-04	0.00E+00		1.48E-05	3.71E-05	0.00E+00		7.72E-06	1.41E-05	0.00E+00
3381	599689.7	4175265	9.53E-05	2.57E-04	0.00E+00		9.53E-05	2.57E-04	0.00E+00		1.55E-05	3.88E-05	0.00E+00		8.09E-06	1.48E-05	0.00E+00
3382	599756.4	4175252	9.8E-05	2.64E-04	0.00E+00		9.80E-05	2.64E-04	0.00E+00		1.59E-05	4.00E-05	0.00E+00		8.32E-06	1.52E-05	0.00E+00
3383	599765.1	4175256	9.98E-05	2.69E-04	0.00E+00		9.98E-05	2.69E-04	0.00E+00		1.62E-05	4.07E-05	0.00E+00		8.47E-06	1.55E-05	0.00E+00
3384	599773.7	4175260	0.000101	2.73E-04	0.00E+00		1.01E-04	2.73E-04	0.00E+00		1.65E-05	4.13E-05	0.00E+00		8.61E-06	1.58E-05	0.00E+00
3385	599782.4	4175263	0.000103	2.77E-04	0.00E+00		1.03E-04	2.77E-04	0.00E+00		1.67E-05	4.19E-05	0.00E+00		8.72E-06	1.60E-05	0.00E+00
3386	599791	4175267	0.000103	2.79E-04	0.00E+00		1.03E-04	2.79E-04	0.00E+00		1.68E-05	4.22E-05	0.00E+00		8.78E-06	1.61E-05	0.00E+00
3387	599799.7	4175271	0.000103	2.79E-04	0.00E+00		1.03E-04	2.79E-04	0.00E+00		1.68E-05	4.21E-05	0.00E+00		8.78E-06	1.61E-05	0.00E+00
3388	599808.3	4175275	0.000103	2.78E-04	0.00E+00		1.03E-04	2.78E-04	0.00E+00		1.68E-05	4.21E-05	0.00E+00		8.76E-06	1.60E-05	0.00E+00
3389	599817	4175279	0.000104	2.80E-04	0.00E+00		1.04E-04	2.80E-04	0.00E+00		1.69E-05	4.23E-05	0.00E+00		8.81E-06	1.61E-05	0.00E+00
3390	599825.6	4175283	0.000105	2.83E-04	0.00E+00		1.05E-04	2.83E-04	0.00E+00		1.71E-05	4.28E-05	0.00E+00		8.91E-06	1.63E-05	0.00E+00
3391	599834.2	4175287	0.000109	2.95E-04	0.00E+00		1.09E-04	2.95E-04	0.00E+00		1.78E-05	4.45E-05	0.00E+00		9.28E-06	1.70E-05	0.00E+00
3392	599842.9	4175290	0.000116	3.12E-04	0.00E+00		1.16E-04	3.12E-04	0.00E+00		1.88E-05	4.71E-05	0.00E+00		9.82E-06	1.80E-05	0.00E+00
3393	599851.5	4175294	0.000122	3.30E-04	0.00E+00		1.22E-04	3.30E-04	0.00E+00		1.99E-05	4.98E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
3394	599860.2	4175298	0.000128	3.46E-04	0.00E+00		1.28E-04	3.46E-04	0.00E+00		2.09E-05	5.23E-05	0.00E+00		1.09E-05	1.99E-05	0.00E+00
3395	599868.8	4175302	0.000134	3.62E-04	0.00E+00		1.34E-04	3.62E-04	0.00E+00		2.18E-05	5.47E-05	0.00E+00		1.14E-05	2.08E-05	0.00E+00
3396	599877.5	4175306	0.00014	3.76E-04	0.00E+00		1.40E-04	3.76E-04	0.00E+00		2.27E-05	5.69E-05	0.00E+00		1.19E-05	2.17E-05	0.00E+00
3397	599886.1	4175310	0.000145	3.90E-04	0.00E+00		1.45E-04	3.90E-04	0.00E+00		2.35E-05	5.89E-05	0.00E+00		1.23E-05	2.25E-05	0.00E+00
3398	599894.8	4175313	0.000149	4.02E-04	0.00E+00		1.49E-04	4.02E-04	0.00E+00		2.43E-05	6.08E-05	0.00E+00		1.27E-05	2.32E-05	0.00E+00
3399	599903.4	4175317	0.000153	4.13E-04	0.00E+00		1.53E-04	4.13E-04	0.00E+00		2.49E-05	6.25E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
3400	599912.1	4175321	0.000158	4.25E-04	0.00E+00		1.58E-04	4.25E-04	0.00E+00		2.56E-05	6.42E-05	0.00E+00		1.34E-05	2.45E-05	0.00E+00
3401	599920.7	4175325	0.000161	4.35E-04	0.00E+00		1.61E-04	4.35E-04	0.00E+00		2.63E-05	6.58E-05	0.00E+00		1.37E-05	2.51E-05	0.00E+00
3402	599929.4	4175329	0.000164	4.43E-04	0.00E+00		1.64E-04	4.43E-04	0.00E+00		2.67E-05	6.70E-05	0.00E+00		1.40E-05	2.55E-05	0.00E+00
3403	599938	4175333	0.000164	4.42E-04	0.00E+00		1.64E-04	4.42E-04	0.00E+00		2.67E-05	6.69E-05	0.00E+00		1.39E-05	2.55E-05	0.00E+00
3404	599946.6	4175336	0.00016	4.32E-04	0.00E+00		1.60E-04	4.32E-04	0.00E+00		2.61E-05	6.54E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
3405	599955.3	4175340	0.000156	4.21E-04	0.00E+00		1.56E-04	4.21E-04	0.00E+00		2.54E-05	6.37E-05	0.00E+00		1.33E-05	2.43E-05	0.00E+00
3406	599963.9	4175344	0.000151	4.08E-04	0.00E+00		1.51E-04	4.08E-04	0.00E+00		2.46E-05	6.17E-05	0.00E+00		1.29E-05	2.35E-05	0.00E+00
3407	599972.6	4175348	0.000145	3.90E-04	0.00E+00		1.45E-04	3.90E-04	0.00E+00		2.35E-05	5.90E-05	0.00E+00		1.23E-05	2.25E-05	0.00E+00
3408	599981.2	4175352	0.000137	3.68E-04	0.00E+00		1.37E-04	3.68E-04	0.00E+00		2.22E-05	5.57E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
3409	599989.9	4175356	0.000127	3.43E-04	0.00E+00		1.27E-04	3.43E-04	0.00E+00		2.07E-05	5.18E-05	0.00E+00		1.08E-05	1.98E-05	0.00E+00
3410	599998.5	4175359	0.000121	3.27E-04	0.00E+00		1.21E-04	3.27E-04	0.00E+00		1.98E-05	4.95E-05	0.00E+00		1.03E-05	1.89E-05	0.00E+00
3411	600007.2	4175363	0.000119	3.20E-04	0.00E+00		1.19E-04	3.20E-04	0.00E+00		1.93E-05	4.84E-05	0.00E+00		1.01E-05	1.84E-05	0.00E+00
3412	600015.8	4175367	0.000116	3.12E-04	0.00E+00		1.16E-04	3.12E-04	0.00E+00		1.88E-05	4.72E-05	0.00E+00		9.83E-06	1.80E-05	0.00E+00
3413	600024.5	4175371	0.000113	3.06E-04	0.00E+00		1.13E-04	3.06E-04	0.00E+00		1.84E-05	4.62E-05	0.00E+00		9.62E-06	1.76E-05	0.00E+00
3414	600033.1	4175375	0.000114	3.08E-04	0.00E+00		1.14E-04	3.08E-04	0.00E+00		1.86E-05	4.66E-05	0.00E+00		9.71E-06	1.78E-05	0.00E+00
3415	600041.7	4175379	0.000114	3.08E-04	0.00E+00		1.14E-04	3.08E-04	0.00E+00		1.86E-05	4.65E-05	0.00E+00		9.69E-06	1.77E-05	0.00E+00
3416	600050.4	4175383	0.000113	3.04E-04	0.00E+00		1.13E-04	3.04E-04	0.00E+00		1.84E-05	4.60E-05	0.00E+00		9.58E-06	1.75E-05	0.00E+00
3417	600059	4175386	0.000115	3.09E-04	0.00E+00		1.15E-04	3.09E-04	0.00E+00		1.87E-05	4.68E-05	0.00E+00		9.74E-06	1.78E-05	0.00E+00
3418	600067.7	4175390	0.000119	3.21E-04	0.00E+00		1.19E-04	3.21E-04	0.00E+00		1.93E-05	4.85E-05	0.00E+00		1.01E-05	1.85E-05	0.00E+00
3419	600076.3	4175394	0.000122	3.29E-04	0.00E+00		1.22E-04	3.29E-04	0.00E+00		1.99E-05	4.98E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
3420	600085	4175398	0.000125	3.36E-04	0.00E+00		1.25E-04	3.36E-04	0.00E+00		2.03E-05	5.08E-05	0.00E+00		1.06E-05	1.94E-05	0.00E+00
3421	600093.6	4175402	0.000129	3.49E-04	0.00E+00		1.29E-04	3.49E-04	0.00E+00		2.11E-05	5.28E-05	0.00E+00		1.10E-05	2.01E-05	0.00E+00
3422	600102.3	4175406	0.000135	3.65E-04	0.00E+00		1.35E-04	3.65E-04	0.00E+00		2.20E-05	5.52E-05	0.00E+00		1.15E-05	2.10E-05	0.00E+00
3423	600110.9	4175409	0.000142	3.84E-04	0.00E+00		1.42E-04	3.84E-04	0.00E+00		2.32E-05	5.80E-05	0.00E+00		1.21E-05	2.21E-05	0.00E+00
3424	600119.6	4175413	0.000148	4.00E-04	0.00E+00		1.48E-04	4.00E-04	0.00E+00		2.41E-05	6.05E-05	0.00E+00		1.26E-05	2.30E-05	0.00E+00
3425	600128.2	4175417	0.000154	4.16E-04	0.00E+00		1.54E-04	4.16E-04	0.00E+00		2.51E-05	6.29E-05	0.00E+00		1.31E-05	2.40E-05	0.00E+00
3426	600136.9	4175421	0.000159	4.29E-04	0.00E+00		1.59E-04	4.29E-04	0.00E+00		2.59E-05	6.49E-05	0.00E+00		1.35E-05	2.47E-05	0.00E+00
3427	600145.5	4175425	0.000162	4.36E-04	0.00E+00		1.62E-04	4.36E-04	0.00E+00		2.63E-05	6.60E-05	0.00E+00		1.37E-05	2.51E-05	0.00E+00
3428	600154.1	4175429	0.000157	4.23E-04	0.00E+00		1.57E-04	4.23E-04	0.00E+00		2.55E-05	6.40E-05	0.00E+00		1.33E-05	2.44E-05	0.00E+00
3429	600162.8	4175432	0.000154	4.17E-04	0.00E+00		1.54E-04	4.17E-04	0.00E+00		2.51E-05	6.30E-05	0.00E+00		1.31E-05	2.40E-05	0.00E+00
3430	600171.4	4175436	0.000154	4.15E-04	0.00E+00		1.54E-04	4.15E-04	0.00E+00		2.50E-05	6.28E-05	0.00E+00		1.31E-05	2.39E-05	0.00E+00
3431	600180.1	4175440	0.00015	4.04E-04	0.00E+00		1.50E-04	4.04E-04	0.00E+00		2.44E-05	6.11E-05	0.00E+00		1.27E-05	2.33E-05	0.00E+00
3432	600381.8	4175662	0.000133	3.59E-04	0.00E+00		1.33E-04	3.59E-04	0.00E+00		2.16E-05	5.42E-05	0.00E+00		1.13E-05	2.07E-05	0.00E+00
3433	600385.6	4175671	0.000135	3.64E-04	0.00E+00		1.35E-04	3.64E-04	0.00E+00		2.20E-05	5.50E-05	0.00E+00		1.15E-05	2.10E-05	0.00E+00
3434	600389.4	4175680	0.000137	3.70E-04	0.00E+00		1.37E-04	3.70E-04	0.00E+00		2.23E-05	5.59E-05	0.00E+00		1.16E-05	2.13E-05	0.00E+00
3435	600393.2	4175688	0.000139	3.76E-04	0.00E+00		1.39E-04	3.76E-04	0.00E+00		2.27E-05	5.69E-05	0.00E+00		1.18E-05	2.17E-05	0.00E+00
3436	600397	4175697	0.000142	3.83E-04	0.00E+00		1.42E-04	3.83E-04	0.00E+00		2.31E-05	5.79E-05	0.00E+00		1.21E-05	2.21E-05	0.00E+00
3437	600400.8	4175706	0.000144	3.89E-04	0.00E+00		1.44E-04	3.89E-04	0.00E+00		2.35E-05	5.89E-05	0.00E+00		1.23E-05	2.24E-05	0.00E+00
3438	600404.6	4175714	0.000147	3.95E-04	0.00E+00		1.47E-04	3.95E-04	0.00E+00		2.39E-05	5.98E-05	0.00E+00		1.25E-05	2.28E-05	0.00E+00
3439	600408.4	4175723	0.000147	3.97E-04	0.00E+00		1.47E-04	3.97E-04	0.00E+00		2.39E-05	6.00E-05	0.00E+00		1.25E-05	2.29E-05	0.00E+00
3440	600412.2	4175732	0.000147	3.95E-04	0.00E+00		1.47E-04	3.95E-04	0.00E+00		2.38E-05	5.97E-05	0.00E+00		1.24E-05	2.28E-05	0.00E+00
3441	600416	4175740	0.000143	3.86E-04	0.00E+00		1.43E-04	3.86E-04	0.00E+00		2.33E-05	5.84E-05	0.00E+00		1.22E-05	2.23E-05	0.00E+00
3442	600419.8	4175749	0.000139	3.74E-04	0.00E+00		1.39E-04	3.74E-04	0.00E+00		2.26E-05	5.66E-05	0.00E+00		1.18E-05	2.16E-05	0.00E+00
3443	600423.6	4175758	0.000134	3.61E-04	0.00E+00		1.34E-04	3.61E-04	0.00E+00		2.18E-05	5.46E-05	0.00E+00		1.14E-05	2.08E-05	0.00E+00
3444	600469.1	4175862	0.000109	2.94E-04	0.00E+00		1.09E-04	2.94E-04	0.00E+00		1.78E-05	4.45E-05	0.00E+00		9.27E-06	1.70E-05	0.00E+00
3445	600472.9	4175870	0.000109	2.94E-04	0.00E+00		1.09E-04	2.94E-04	0.00E+00		1.77E-05	4.44E-05	0.00E+00		9.26E-06	1.69E-05	0.00E+00
3446	600476.7	4175879	0.00011	2.95E-04	0.00E+00		1.10E-04	2.95E-04	0.00E+00		1.78E-05	4.47E-05	0.00E+00		9.30E-06	1.70E-05	0.00E+00
3447	600480.5	4175888	0.00011	2.97E-04	0.00E+00		1.10E-04	2.97E-04	0.00E+00		1.79E-05	4.49E-05	0.00E+00		9.35E-06	1.71E-05	0.00E+00
3448	600484.2	4175896	0.000111	2.99E-04	0.00E+00		1.11E-04	2.99E-04	0.00E+00		1.80E-05	4.52E-05	0.00E+00		9.42E-06	1.72E-05	0.00E+00
3449	600488	4175905	0.000111	3.00E-04	0.00E+00		1.11E-04	3.00E-04	0.00E+00		1.81E-05	4.53E-05	0.00E+00		9.45E-06	1.73E-05	0.00E+00
3450	600491.8	4175914	0.000111	3.00E-04	0.00E+00		1.11E-04	3.00E-04	0.00E+00		1.81E-05	4.54E-05	0.00E+00		9.45E-06	1.73E-05	0.00E+00
3451	600495.6	4175922	0.000111	3.00E-04	0.00E+00		1.11E-04	3.00E-04	0.00E+00		1.81E-05	4.53E-05	0.00E+00		9.44E-06	1.73E-05	0.00E+00
3452	600499.4	4175931	0.000111	3.00E-04	0.00E+00		1.11E-04	3.00E-04	0.00E+00		1.81E-05	4.54E-05	0.00E+00		9.46E-06	1.73E-05	0.00E+00
3453	600503.2	4175940	0.000112	3.02E-04	0.00E+00		1.12E-04	3.02E-04	0.00E+00		1.82E-05	4.57E-05	0.00E+00		9.53E-06	1.74E-05	0.00E+00
3454	600507	4175948	0.000113	3.05E-04	0.00E+00		1.13E-04	3.05E-04	0.00E+00		1.84E-05	4.61E-05	0.00E+00		9.60E-06	1.76E-05	0.00E+00
3455	600510.8	4175957	0.000113	3.06E-04	0.00E+00		1.13E-04	3.06E-04	0.00E+00		1.84E-05	4.62E-05	0.00E+00		9.63E-06	1.76E-05	0.00E+00

3456	600514.6	4175966	0.000112	3.02E-04	0.00E+00	1.12E-04	3.02E-04	0.00E+00	1.82E-05	4.57E-05	0.00E+00	9.52E-06	1.74E-05	0.00E+00
3457	600518.4	4175974	0.00011	2.97E-04	0.00E+00	1.10E-04	2.97E-04	0.00E+00	1.79E-05	4.50E-05	0.00E+00	9.37E-06	1.71E-05	0.00E+00
3458	600522.2	4175983	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.41E-05	0.00E+00	9.19E-06	1.68E-05	0.00E+00
3459	599747.8	4175248	9.52E-05	2.57E-04	0.00E+00	9.52E-05	2.57E-04	0.00E+00	1.55E-05	3.88E-05	0.00E+00	8.09E-06	1.48E-05	0.00E+00
3460	599738.3	4175248	9.12E-05	2.46E-04	0.00E+00	9.12E-05	2.46E-04	0.00E+00	1.48E-05	3.72E-05	0.00E+00	7.75E-06	1.42E-05	0.00E+00
3461	599728.7	4175247	8.71E-05	2.35E-04	0.00E+00	8.71E-05	2.35E-04	0.00E+00	1.42E-05	3.55E-05	0.00E+00	7.40E-06	1.35E-05	0.00E+00
3462	599719.2	4175247	8.56E-05	2.31E-04	0.00E+00	8.56E-05	2.31E-04	0.00E+00	1.39E-05	3.49E-05	0.00E+00	7.26E-06	1.33E-05	0.00E+00
3463	599709.7	4175246	8.69E-05	2.34E-04	0.00E+00	8.69E-05	2.34E-04	0.00E+00	1.41E-05	3.54E-05	0.00E+00	7.38E-06	1.35E-05	0.00E+00
3464	599700.2	4175246	8.83E-05	2.38E-04	0.00E+00	8.83E-05	2.38E-04	0.00E+00	1.44E-05	3.60E-05	0.00E+00	7.50E-06	1.37E-05	0.00E+00
3465	599690.6	4175245	9.19E-05	2.48E-04	0.00E+00	9.19E-05	2.48E-04	0.00E+00	1.50E-05	3.75E-05	0.00E+00	7.80E-06	1.43E-05	0.00E+00
3466	599757.3	4175232	9.95E-05	2.68E-04	0.00E+00	9.95E-05	2.68E-04	0.00E+00	1.62E-05	4.06E-05	0.00E+00	8.45E-06	1.55E-05	0.00E+00
3467	599765.9	4175236	0.000102	2.75E-04	0.00E+00	1.02E-04	2.75E-04	0.00E+00	1.66E-05	4.16E-05	0.00E+00	8.67E-06	1.59E-05	0.00E+00
3468	599774.5	4175240	0.000104	2.80E-04	0.00E+00	1.04E-04	2.80E-04	0.00E+00	1.69E-05	4.23E-05	0.00E+00	8.81E-06	1.61E-05	0.00E+00
3469	599783.1	4175243	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.93E-06	1.63E-05	0.00E+00
3470	599791.7	4175247	0.000108	2.90E-04	0.00E+00	1.08E-04	2.90E-04	0.00E+00	1.75E-05	4.39E-05	0.00E+00	9.14E-06	1.67E-05	0.00E+00
3471	599800.3	4175251	0.000109	2.95E-04	0.00E+00	1.09E-04	2.95E-04	0.00E+00	1.78E-05	4.46E-05	0.00E+00	9.29E-06	1.70E-05	0.00E+00
3472	599808.8	4175255	0.00011	2.97E-04	0.00E+00	1.10E-04	2.97E-04	0.00E+00	1.80E-05	4.50E-05	0.00E+00	9.37E-06	1.71E-05	0.00E+00
3473	599817.4	4175259	0.00011	2.97E-04	0.00E+00	1.10E-04	2.97E-04	0.00E+00	1.79E-05	4.49E-05	0.00E+00	9.36E-06	1.71E-05	0.00E+00
3474	599826	4175262	0.00011	2.96E-04	0.00E+00	1.10E-04	2.96E-04	0.00E+00	1.79E-05	4.47E-05	0.00E+00	9.32E-06	1.71E-05	0.00E+00
3475	599834.6	4175266	0.00011	2.96E-04	0.00E+00	1.10E-04	2.96E-04	0.00E+00	1.78E-05	4.47E-05	0.00E+00	9.32E-06	1.70E-05	0.00E+00
3476	599843.2	4175270	0.000112	3.02E-04	0.00E+00	1.12E-04	3.02E-04	0.00E+00	1.82E-05	4.56E-05	0.00E+00	9.50E-06	1.74E-05	0.00E+00
3477	599851.8	4175274	0.000118	3.17E-04	0.00E+00	1.18E-04	3.17E-04	0.00E+00	1.91E-05	4.79E-05	0.00E+00	9.98E-06	1.83E-05	0.00E+00
3478	599860.4	4175278	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.94E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
3479	599868.9	4175282	0.000127	3.42E-04	0.00E+00	1.27E-04	3.42E-04	0.00E+00	2.06E-05	5.17E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
3480	599877.5	4175285	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.39E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3481	599886.1	4175289	0.000137	3.69E-04	0.00E+00	1.37E-04	3.69E-04	0.00E+00	2.23E-05	5.59E-05	0.00E+00	1.16E-05	2.13E-05	0.00E+00
3482	599894.7	4175293	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.77E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
3483	599903.3	4175297	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.94E-05	0.00E+00	1.24E-05	2.26E-05	0.00E+00
3484	599911.9	4175301	0.00015	4.05E-04	0.00E+00	1.50E-04	4.05E-04	0.00E+00	2.45E-05	6.13E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
3485	599920.4	4175304	0.000154	4.16E-04	0.00E+00	1.54E-04	4.16E-04	0.00E+00	2.51E-05	6.29E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
3486	599929	4175308	0.000158	4.26E-04	0.00E+00	1.58E-04	4.26E-04	0.00E+00	2.57E-05	6.44E-05	0.00E+00	1.34E-05	2.46E-05	0.00E+00
3487	599937.6	4175312	0.000159	4.29E-04	0.00E+00	1.59E-04	4.29E-04	0.00E+00	2.59E-05	6.48E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
3488	599946.2	4175316	0.000157	4.23E-04	0.00E+00	1.57E-04	4.23E-04	0.00E+00	2.55E-05	6.40E-05	0.00E+00	1.33E-05	2.44E-05	0.00E+00
3489	599954.8	4175320	0.000154	4.16E-04	0.00E+00	1.54E-04	4.16E-04	0.00E+00	2.51E-05	6.29E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
3490	599963.4	4175323	0.000151	4.06E-04	0.00E+00	1.51E-04	4.06E-04	0.00E+00	2.45E-05	6.14E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
3491	599972	4175327	0.000146	3.94E-04	0.00E+00	1.46E-04	3.94E-04	0.00E+00	2.38E-05	5.96E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
3492	599980.5	4175331	0.000141	3.79E-04	0.00E+00	1.41E-04	3.79E-04	0.00E+00	2.29E-05	5.73E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
3493	599989.1	4175335	0.000134	3.61E-04	0.00E+00	1.34E-04	3.61E-04	0.00E+00	2.18E-05	5.45E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
3494	599997.7	4175339	0.000129	3.47E-04	0.00E+00	1.29E-04	3.47E-04	0.00E+00	2.09E-05	5.25E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
3495	600006.3	4175343	0.000126	3.40E-04	0.00E+00	1.26E-04	3.40E-04	0.00E+00	2.05E-05	5.14E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
3496	600014.9	4175346	0.000123	3.31E-04	0.00E+00	1.23E-04	3.31E-04	0.00E+00	2.00E-05	5.01E-05	0.00E+00	1.04E-05	1.91E-05	0.00E+00
3497	600023.5	4175350	0.000119	3.21E-04	0.00E+00	1.19E-04	3.21E-04	0.00E+00	1.94E-05	4.85E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
3498	600032.1	4175354	0.000121	3.26E-04	0.00E+00	1.21E-04	3.26E-04	0.00E+00	1.97E-05	4.93E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
3499	600040.6	4175358	0.000123	3.32E-04	0.00E+00	1.23E-04	3.32E-04	0.00E+00	2.00E-05	5.02E-05	0.00E+00	1.05E-05	1.91E-05	0.00E+00
3500	600049.2	4175362	0.000125	3.37E-04	0.00E+00	1.25E-04	3.37E-04	0.00E+00	2.03E-05	5.10E-05	0.00E+00	1.06E-05	1.94E-05	0.00E+00
3501	600057.8	4175365	0.000128	3.44E-04	0.00E+00	1.28E-04	3.44E-04	0.00E+00	2.08E-05	5.20E-05	0.00E+00	1.08E-05	1.98E-05	0.00E+00
3502	600066.4	4175369	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3503	600075	4175373	0.000136	3.68E-04	0.00E+00	1.36E-04	3.68E-04	0.00E+00	2.22E-05	5.56E-05	0.00E+00	1.16E-05	2.12E-05	0.00E+00
3504	600083.6	4175377	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.29E-05	5.74E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
3505	600092.1	4175381	0.000145	3.92E-04	0.00E+00	1.45E-04	3.92E-04	0.00E+00	2.37E-05	5.93E-05	0.00E+00	1.23E-05	2.26E-05	0.00E+00
3506	600100.7	4175385	0.00015	4.05E-04	0.00E+00	1.50E-04	4.05E-04	0.00E+00	2.45E-05	6.13E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
3507	600109.3	4175388	0.000155	4.19E-04	0.00E+00	1.55E-04	4.19E-04	0.00E+00	2.53E-05	6.33E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
3508	600117.9	4175392	0.000159	4.28E-04	0.00E+00	1.59E-04	4.28E-04	0.00E+00	2.58E-05	6.47E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
3509	600126.5	4175396	0.000161	4.35E-04	0.00E+00	1.61E-04	4.35E-04	0.00E+00	2.62E-05	6.57E-05	0.00E+00	1.37E-05	2.50E-05	0.00E+00
3510	600135.1	4175400	0.000165	4.45E-04	0.00E+00	1.65E-04	4.45E-04	0.00E+00	2.69E-05	6.73E-05	0.00E+00	1.40E-05	2.57E-05	0.00E+00
3511	600143.7	4175404	0.000171	4.60E-04	0.00E+00	1.71E-04	4.60E-04	0.00E+00	2.77E-05	6.95E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
3512	600152.2	4175407	0.000165	4.44E-04	0.00E+00	1.65E-04	4.44E-04	0.00E+00	2.68E-05	6.72E-05	0.00E+00	1.40E-05	2.56E-05	0.00E+00
3513	600160.8	4175411	0.00016	4.31E-04	0.00E+00	1.60E-04	4.31E-04	0.00E+00	2.60E-05	6.52E-05	0.00E+00	1.36E-05	2.48E-05	0.00E+00
3514	600169.4	4175415	0.000156	4.20E-04	0.00E+00	1.56E-04	4.20E-04	0.00E+00	2.53E-05	6.35E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
3515	600178	4175419	0.000148	3.99E-04	0.00E+00	1.48E-04	3.99E-04	0.00E+00	2.41E-05	6.03E-05	0.00E+00	1.26E-05	2.30E-05	0.00E+00
3516	600186.6	4175423	0.000139	3.74E-04	0.00E+00	1.39E-04	3.74E-04	0.00E+00	2.26E-05	5.66E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
3517	600195.2	4175426	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.39E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3518	600414.3	4175690	0.000152	4.09E-04	0.00E+00	1.52E-04	4.09E-04	0.00E+00	2.47E-05	6.19E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
3519	600418.1	4175699	0.00015	4.05E-04	0.00E+00	1.50E-04	4.05E-04	0.00E+00	2.45E-05	6.13E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
3520	600421.9	4175707	0.000148	3.99E-04	0.00E+00	1.48E-04	3.99E-04	0.00E+00	2.41E-05	6.04E-05	0.00E+00	1.26E-05	2.30E-05	0.00E+00
3521	600425.6	4175716	0.000145	3.91E-04	0.00E+00	1.45E-04	3.91E-04	0.00E+00	2.36E-05	5.91E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
3522	600429.4	4175725	0.00014	3.78E-04	0.00E+00	1.40E-04	3.78E-04	0.00E+00	2.28E-05	5.72E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
3523	600433.2	4175733	0.000136	3.66E-04	0.00E+00	1.36E-04	3.66E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
3524	599748.7	4175228	9.57E-05	2.58E-04	0.00E+00	9.57E-05	2.58E-04	0.00E+00	1.56E-05	3.90E-05	0.00E+00	8.13E-06	1.49E-05	0.00E+00
3525	599739.2	4175228	9.14E-05	2.46E-04	0.00E+00	9.14E-05	2.46E-04	0.00E+00	1.49E-05	3.73E-05	0.00E+00	7.76E-06	1.42E-05	0.00E+00
3526	599729.7	4175227	8.72E-05	2.35E-04	0.00E+00	8.72E-05	2.35E-04	0.00E+00	1.42E-05	3.56E-05	0.00E+00	7.40E-06	1.36E-05	0.00E+00
3527	599720.2	4175227	8.46E-05	2.28E-04	0.00E+00	8.46E-05	2.28E-04	0.00E+00	1.38E-05	3.45E-05	0.00E+00	7.19E-06	1.32E-05	0.00E+00
3528	599710.7	4175226	8.48E-05	2.29E-04	0.00E+00	8.48E-05	2.29E-04	0.00E+00	1.38E-05	3.46E-05	0.00E+00	7.20E-06	1.32E-05	0.00E+00
3529	599701.1	4175226	8.47E-05	2.28E-04	0.00E+00	8.47E-05	2.28E-04	0.00E+00	1.38E-05	3.46E-05	0.00E+00	7.20E-06	1.32E-05	0.00E+00
3530	599691.6	4175225	8.58E-05	2.31E-04	0.00E+00	8.58E-05	2.31E-04	0.00E+00	1.40E-05	3.50E-05	0.00E+00	7.29E-06	1.33E-05	0.00E+00
3531	599758.4	4175212	9.78E-05	2.64E-04	0.00E+00	9.78E-05	2.64E-04	0.00E+00	1.59E-05	3.99E-05	0.00E+00	8.30E-06	1.52E-05	0.00E+00
3532	599767	4175216	0.000102	2.74E-04	0.00E+00	1.02E-04	2.74E-04	0.00E+00	1.65E-05	4.15E-05	0.00E+00	8.64E-06	1.58E-05	0.00E+00
3533	599775.7	4175220	0.000105	2.83E-04	0.00E+00	1.05E-04	2.83E-04	0.00E+00	1.71E-05	4.28E-05	0.00E+00	8.91E-06	1.63E-05	0.00E+00
3534	599784.3	4175224	0.000108	2.90E-04	0.00E+00	1.08E-04	2.90E-04	0.00E+00	1.75E-05	4.39E-05	0.00E+00	9.14E-06	1.67E-05	0.00E+00
3535	599793	4175227	0.000111	3.00E-04	0.00E+00	1.11E-04	3.00E-04	0.00E+00	1.81E-05	4.54E-05	0.00E+00	9.46E-06	1.73E-05	0.00E+00
3536	599801.6	4175231	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.71E-06	1.78E-05	0.00E+00
3537	599810.3	4175235	0.000117	3.14E-04	0.00E+00	1.17E-04	3.14E-04	0.00E+00	1.90E-05	4.75E-05	0.00E+00	9.90E-06	1.81E-05	0.00E+00
3538	599818.9	4175239	0.000116	3.13E-04	0.00E+00	1.16E-04	3.13E-04	0.00E+00	1.89E-05	4.73E-05	0.00E+00	9.86E-06	1.80E-05	0.00E+00
3539	599827.6	4175243	0.000114	3.09E-04	0.00E+00	1.14E-04	3.09E-04	0.00E+00	1.86E-05	4.67E-05	0.00E+00	9.72E-06	1.78E-05	0.00E+00
3540	599836.2	4175247	0.000113	3.05E-04	0.00E+00	1.13E-04	3.05E-04	0.00E+00	1.84E-05	4.61E-05	0.00E+00	9.61E-06	1.76E-05	0.00E+00
3541	599844.9	4175250	0.000113	3.04E-04	0.00E+00	1.13E-04	3.04E-04	0.00E+00	1.83E-05	4.59E-05	0.00E+00	9.57E-06	1.75E-05	0.00E+00
3542	599853.5	4175254	0.000115	3.11E-04	0.00E+00	1.15E-04	3.11E-04	0.00E+00	1.88E-05	4.70E-05	0.00E+00	9.79E-06	1.79E-05	0.00E+00
3543	599862.2	4175258	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.84E-05	0.00E+00
3544	599870.8	4175262	0.000123	3.31E-04	0.00E+00	1.23E-04	3.31E-04	0.00E+00	2.00E-05	5.01E-05	0.00E+00	1.04E-05	1.91E-05	0.00E+00
3545	599879.5	4175266	0.000128	3.44E-04	0.00E+00	1.28E-04	3.44E-04	0.00E+00	2.08E-05	5.21E-05	0.00E+00	1.08E-05	1.98E-05	0.00E+00
3546	599888.2	4175270	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.34E-05	0.00E+00	1.11E-05	2.04E-05	0.00E+00

3547	599896.8	4175274	0.000135	3.65E-04	0.00E+00	1.35E-04	3.65E-04	0.00E+00	2.20E-05	5.52E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
3548	599905.5	4175277	0.00014	3.77E-04	0.00E+00	1.40E-04	3.77E-04	0.00E+00	2.27E-05	5.69E-05	0.00E+00	1.19E-05	2.17E-05	0.00E+00
3549	599914.1	4175281	0.000144	3.89E-04	0.00E+00	1.44E-04	3.89E-04	0.00E+00	2.35E-05	5.89E-05	0.00E+00	1.23E-05	2.24E-05	0.00E+00
3550	599922.8	4175285	0.000149	4.01E-04	0.00E+00	1.49E-04	4.01E-04	0.00E+00	2.42E-05	6.06E-05	0.00E+00	1.26E-05	2.31E-05	0.00E+00
3551	599931.4	4175289	0.000152	4.11E-04	0.00E+00	1.52E-04	4.11E-04	0.00E+00	2.48E-05	6.22E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
3552	599940.1	4175293	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.49E-05	6.23E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
3553	599948.7	4175297	0.000152	4.10E-04	0.00E+00	1.52E-04	4.10E-04	0.00E+00	2.47E-05	6.20E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
3554	599957.4	4175300	0.00015	4.05E-04	0.00E+00	1.50E-04	4.05E-04	0.00E+00	2.45E-05	6.13E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
3555	599966	4175304	0.000148	4.00E-04	0.00E+00	1.48E-04	4.00E-04	0.00E+00	2.41E-05	6.05E-05	0.00E+00	1.26E-05	2.31E-05	0.00E+00
3556	599974.7	4175308	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.95E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
3557	599983.3	4175312	0.000142	3.84E-04	0.00E+00	1.42E-04	3.84E-04	0.00E+00	2.32E-05	5.81E-05	0.00E+00	1.21E-05	2.21E-05	0.00E+00
3558	599992	4175316	0.000138	3.72E-04	0.00E+00	1.38E-04	3.72E-04	0.00E+00	2.24E-05	5.62E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
3559	600000.6	4175320	0.000136	3.66E-04	0.00E+00	1.36E-04	3.66E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
3560	600009.3	4175323	0.000134	3.61E-04	0.00E+00	1.34E-04	3.61E-04	0.00E+00	2.18E-05	5.46E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
3561	600018	4175327	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.37E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3562	600026.6	4175331	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.37E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3563	600035.3	4175335	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.19E-05	5.50E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
3564	600043.9	4175339	0.000138	3.71E-04	0.00E+00	1.38E-04	3.71E-04	0.00E+00	2.24E-05	5.62E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
3565	600052.6	4175343	0.00014	3.78E-04	0.00E+00	1.40E-04	3.78E-04	0.00E+00	2.28E-05	5.72E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
3566	600061.2	4175347	0.000144	3.87E-04	0.00E+00	1.44E-04	3.87E-04	0.00E+00	2.34E-05	5.85E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
3567	600069.9	4175350	0.000147	3.96E-04	0.00E+00	1.47E-04	3.96E-04	0.00E+00	2.39E-05	5.99E-05	0.00E+00	1.25E-05	2.28E-05	0.00E+00
3568	600078.5	4175354	0.000151	4.06E-04	0.00E+00	1.51E-04	4.06E-04	0.00E+00	2.45E-05	6.14E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
3569	600087.2	4175358	0.000155	4.17E-04	0.00E+00	1.55E-04	4.17E-04	0.00E+00	2.52E-05	6.31E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
3570	600095.8	4175362	0.000159	4.30E-04	0.00E+00	1.59E-04	4.30E-04	0.00E+00	2.59E-05	6.50E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
3571	600104.5	4175366	0.000164	4.43E-04	0.00E+00	1.64E-04	4.43E-04	0.00E+00	2.67E-05	6.70E-05	0.00E+00	1.39E-05	2.55E-05	0.00E+00
3572	600113.1	4175370	0.000169	4.56E-04	0.00E+00	1.69E-04	4.56E-04	0.00E+00	2.75E-05	6.90E-05	0.00E+00	1.44E-05	2.63E-05	0.00E+00
3573	600121.8	4175373	0.00017	4.59E-04	0.00E+00	1.70E-04	4.59E-04	0.00E+00	2.77E-05	6.93E-05	0.00E+00	1.44E-05	2.64E-05	0.00E+00
3574	600130.4	4175377	0.000171	4.60E-04	0.00E+00	1.71E-04	4.60E-04	0.00E+00	2.78E-05	6.96E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
3575	600139.1	4175381	0.000171	4.62E-04	0.00E+00	1.71E-04	4.62E-04	0.00E+00	2.79E-05	6.98E-05	0.00E+00	1.45E-05	2.66E-05	0.00E+00
3576	600147.8	4175385	0.000167	4.51E-04	0.00E+00	1.67E-04	4.51E-04	0.00E+00	2.72E-05	6.81E-05	0.00E+00	1.42E-05	2.60E-05	0.00E+00
3577	600156.4	4175389	0.00016	4.30E-04	0.00E+00	1.60E-04	4.30E-04	0.00E+00	2.60E-05	6.51E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
3578	600165.1	4175393	0.000153	4.13E-04	0.00E+00	1.53E-04	4.13E-04	0.00E+00	2.49E-05	6.25E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
3579	600173.7	4175397	0.000148	3.98E-04	0.00E+00	1.48E-04	3.98E-04	0.00E+00	2.40E-05	6.02E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
3580	600182.4	4175400	0.00014	3.76E-04	0.00E+00	1.40E-04	3.76E-04	0.00E+00	2.27E-05	5.69E-05	0.00E+00	1.19E-05	2.17E-05	0.00E+00
3581	600191	4175404	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.34E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
3582	600199.7	4175408	0.000122	3.30E-04	0.00E+00	1.22E-04	3.30E-04	0.00E+00	1.99E-05	4.98E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
3583	600208.3	4175412	0.000116	3.13E-04	0.00E+00	1.16E-04	3.13E-04	0.00E+00	1.89E-05	4.73E-05	0.00E+00	9.84E-06	1.80E-05	0.00E+00
3584	599749.7	4175208	9.41E-05	2.54E-04	0.00E+00	9.41E-05	2.54E-04	0.00E+00	1.53E-05	3.83E-05	0.00E+00	7.99E-06	1.46E-05	0.00E+00
3585	599740.2	4175208	9.13E-05	2.46E-04	0.00E+00	9.13E-05	2.46E-04	0.00E+00	1.48E-05	3.72E-05	0.00E+00	7.75E-06	1.42E-05	0.00E+00
3586	599730.7	4175207	8.84E-05	2.38E-04	0.00E+00	8.84E-05	2.38E-04	0.00E+00	1.44E-05	3.61E-05	0.00E+00	7.51E-06	1.37E-05	0.00E+00
3587	599721.1	4175207	8.58E-05	2.31E-04	0.00E+00	8.58E-05	2.31E-04	0.00E+00	1.40E-05	3.50E-05	0.00E+00	7.28E-06	1.33E-05	0.00E+00
3588	599711.6	4175206	8.33E-05	2.25E-04	0.00E+00	8.33E-05	2.25E-04	0.00E+00	1.36E-05	3.40E-05	0.00E+00	7.08E-06	1.29E-05	0.00E+00
3589	599702.1	4175206	8.08E-05	2.18E-04	0.00E+00	8.08E-05	2.18E-04	0.00E+00	1.31E-05	3.29E-05	0.00E+00	6.86E-06	1.26E-05	0.00E+00
3590	599692.6	4175205	7.9E-05	2.13E-04	0.00E+00	7.90E-05	2.13E-04	0.00E+00	1.29E-05	3.22E-05	0.00E+00	6.71E-06	1.23E-05	0.00E+00
3591	599759.3	4175192	9.86E-05	2.66E-04	0.00E+00	9.86E-05	2.66E-04	0.00E+00	1.60E-05	4.02E-05	0.00E+00	8.38E-06	1.53E-05	0.00E+00
3592	599767.9	4175196	0.000102	2.76E-04	0.00E+00	1.02E-04	2.76E-04	0.00E+00	1.67E-05	4.17E-05	0.00E+00	8.69E-06	1.59E-05	0.00E+00
3593	599776.4	4175200	0.000106	2.86E-04	0.00E+00	1.06E-04	2.86E-04	0.00E+00	1.72E-05	4.32E-05	0.00E+00	8.99E-06	1.65E-05	0.00E+00
3594	599785	4175203	0.00011	2.96E-04	0.00E+00	1.10E-04	2.96E-04	0.00E+00	1.78E-05	4.47E-05	0.00E+00	9.31E-06	1.70E-05	0.00E+00
3595	599793.6	4175207	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.71E-06	1.78E-05	0.00E+00
3596	599802.2	4175211	0.000118	3.19E-04	0.00E+00	1.18E-04	3.19E-04	0.00E+00	1.93E-05	4.83E-05	0.00E+00	1.01E-05	1.84E-05	0.00E+00
3597	599810.8	4175215	0.000122	3.28E-04	0.00E+00	1.22E-04	3.28E-04	0.00E+00	1.98E-05	4.96E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
3598	599819.4	4175219	0.000122	3.29E-04	0.00E+00	1.22E-04	3.29E-04	0.00E+00	1.99E-05	4.98E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
3599	599828	4175223	0.000121	3.26E-04	0.00E+00	1.21E-04	3.26E-04	0.00E+00	1.97E-05	4.92E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
3600	599836.6	4175226	0.000119	3.21E-04	0.00E+00	1.19E-04	3.21E-04	0.00E+00	1.93E-05	4.85E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
3601	599845.2	4175230	0.000116	3.13E-04	0.00E+00	1.16E-04	3.13E-04	0.00E+00	1.89E-05	4.74E-05	0.00E+00	9.86E-06	1.81E-05	0.00E+00
3602	599853.8	4175234	0.000115	3.11E-04	0.00E+00	1.15E-04	3.11E-04	0.00E+00	1.87E-05	4.70E-05	0.00E+00	9.78E-06	1.79E-05	0.00E+00
3603	599862.4	4175238	0.000115	3.11E-04	0.00E+00	1.15E-04	3.11E-04	0.00E+00	1.88E-05	4.70E-05	0.00E+00	9.79E-06	1.79E-05	0.00E+00
3604	599871	4175242	0.000117	3.16E-04	0.00E+00	1.17E-04	3.16E-04	0.00E+00	1.90E-05	4.77E-05	0.00E+00	9.94E-06	1.82E-05	0.00E+00
3605	599879.6	4175245	0.000121	3.26E-04	0.00E+00	1.21E-04	3.26E-04	0.00E+00	1.97E-05	4.94E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
3606	599888.2	4175249	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.04E-05	5.12E-05	0.00E+00	1.07E-05	1.95E-05	0.00E+00
3607	599896.8	4175253	0.000129	3.47E-04	0.00E+00	1.29E-04	3.47E-04	0.00E+00	2.09E-05	5.25E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
3608	599905.4	4175257	0.000133	3.59E-04	0.00E+00	1.33E-04	3.59E-04	0.00E+00	2.16E-05	5.42E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
3609	599914	4175261	0.000138	3.72E-04	0.00E+00	1.38E-04	3.72E-04	0.00E+00	2.24E-05	5.62E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
3610	599922.6	4175265	0.000142	3.82E-04	0.00E+00	1.42E-04	3.82E-04	0.00E+00	2.31E-05	5.78E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
3611	599931.2	4175268	0.000145	3.92E-04	0.00E+00	1.45E-04	3.92E-04	0.00E+00	2.36E-05	5.93E-05	0.00E+00	1.23E-05	2.26E-05	0.00E+00
3612	599939.8	4175272	0.000147	3.96E-04	0.00E+00	1.47E-04	3.96E-04	0.00E+00	2.39E-05	5.99E-05	0.00E+00	1.25E-05	2.28E-05	0.00E+00
3613	599948.3	4175276	0.000147	3.97E-04	0.00E+00	1.47E-04	3.97E-04	0.00E+00	2.39E-05	6.00E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
3614	599956.9	4175280	0.000147	3.97E-04	0.00E+00	1.47E-04	3.97E-04	0.00E+00	2.40E-05	6.00E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
3615	599965.5	4175284	0.000147	3.96E-04	0.00E+00	1.47E-04	3.96E-04	0.00E+00	2.39E-05	5.99E-05	0.00E+00	1.25E-05	2.28E-05	0.00E+00
3616	599974.1	4175287	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.94E-05	0.00E+00	1.24E-05	2.26E-05	0.00E+00
3617	599982.7	4175291	0.000144	3.89E-04	0.00E+00	1.44E-04	3.89E-04	0.00E+00	2.35E-05	5.89E-05	0.00E+00	1.23E-05	2.24E-05	0.00E+00
3618	599991.3	4175295	0.000143	3.85E-04	0.00E+00	1.43E-04	3.85E-04	0.00E+00	2.33E-05	5.83E-05	0.00E+00	1.21E-05	2.22E-05	0.00E+00
3619	599999.9	4175299	0.000143	3.86E-04	0.00E+00	1.43E-04	3.86E-04	0.00E+00	2.33E-05	5.84E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
3620	600008.5	4175303	0.000144	3.88E-04	0.00E+00	1.44E-04	3.88E-04	0.00E+00	2.34E-05	5.87E-05	0.00E+00	1.22E-05	2.24E-05	0.00E+00
3621	600017.1	4175307	0.000144	3.89E-04	0.00E+00	1.44E-04	3.89E-04	0.00E+00	2.35E-05	5.89E-05	0.00E+00	1.23E-05	2.24E-05	0.00E+00
3622	600025.7	4175310	0.000145	3.90E-04	0.00E+00	1.45E-04	3.90E-04	0.00E+00	2.36E-05	5.90E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
3623	600034.3	4175314	0.000147	3.97E-04	0.00E+00	1.47E-04	3.97E-04	0.00E+00	2.39E-05	6.00E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
3624	600042.9	4175318	0.00015	4.03E-04	0.00E+00	1.50E-04	4.03E-04	0.00E+00	2.43E-05	6.10E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
3625	600051.5	4175322	0.000152	4.11E-04	0.00E+00	1.52E-04	4.11E-04	0.00E+00	2.48E-05	6.21E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
3626	600060.1	4175326	0.000155	4.18E-04	0.00E+00	1.55E-04	4.18E-04	0.00E+00	2.52E-05	6.32E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
3627	600068.7	4175329	0.000159	4.28E-04	0.00E+00	1.59E-04	4.28E-04	0.00E+00	2.58E-05	6.47E-05	0.00E+00	1.35E-05	2.46E-05	0.00E+00
3628	600077.3	4175333	0.000162	4.37E-04	0.00E+00	1.62E-04	4.37E-04	0.00E+00	2.64E-05	6.61E-05	0.00E+00	1.38E-05	2.52E-05	0.00E+00
3629	600085.9	4175337	0.000165	4.46E-04	0.00E+00	1.65E-04	4.46E-04	0.00E+00	2.69E-05	6.74E-05	0.00E+00	1.40E-05	2.57E-05	0.00E+00
3630	600094.5	4175341	0.000168	4.52E-04	0.00E+00	1.68E-04	4.52E-04	0.00E+00	2.73E-05	6.83E-05	0.00E+00	1.42E-05	2.60E-05	0.00E+00
3631	600103.1	4175345	0.000171	4.60E-04	0.00E+00	1.71E-04	4.60E-04	0.00E+00	2.78E-05	6.96E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
3632	600111.7	4175349	0.000175	4.71E-04	0.00E+00	1.75E-04	4.71E-04	0.00E+00	2.84E-05	7.12E-05	0.00E+00	1.48E-05	2.72E-05	0.00E+00
3633	600120.2	4175352	0.000177	4.78E-04	0.00E+00	1.77E-04	4.78E-04	0.00E+00	2.88E-05	7.22E-05	0.00E+00	1.50E-05	2.75E-05	0.00E+00
3634	600128.8	4175356	0.000179	4.83E-04	0.00E+00	1.79E-04	4.83E-04	0.00E+00	2.92E-05	7.31E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
3635	600137.4	4175360	0.00018	4.86E-04	0.00E+00	1.80E-04	4.86E-04	0.00E+00	2.93E-05	7.35E-05	0.00E+00	1.53E-05	2.80E-05	0.00E+00
3636	600146	4175364	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.30E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
3637	600154.6	4175368	0.000171	4.60E-04	0.00E+00	1.71E-04	4.60E-04	0.00E+00	2.78E-05	6.96E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00

3638	600163.2	4175371	0.000162	4.36E-04	0.00E+00		1.62E-04	4.36E-04	0.00E+00		2.63E-05	6.59E-05	0.00E+00		1.37E-05	2.51E-05	0.00E+00
3639	600171.8	4175375	0.000152	4.11E-04	0.00E+00		1.52E-04	4.11E-04	0.00E+00		2.48E-05	6.21E-05	0.00E+00		1.29E-05	2.37E-05	0.00E+00
3640	600180.4	4175379	0.000145	3.90E-04	0.00E+00		1.45E-04	3.90E-04	0.00E+00		2.35E-05	5.89E-05	0.00E+00		1.23E-05	2.25E-05	0.00E+00
3641	600189	4175383	0.000136	3.66E-04	0.00E+00		1.36E-04	3.66E-04	0.00E+00		2.21E-05	5.53E-05	0.00E+00		1.15E-05	2.11E-05	0.00E+00
3642	600197.6	4175387	0.000127	3.42E-04	0.00E+00		1.27E-04	3.42E-04	0.00E+00		2.06E-05	5.17E-05	0.00E+00		1.08E-05	1.97E-05	0.00E+00
3643	600206.2	4175391	0.000122	3.28E-04	0.00E+00		1.22E-04	3.28E-04	0.00E+00		1.98E-05	4.96E-05	0.00E+00		1.03E-05	1.89E-05	0.00E+00
3644	600214.8	4175394	0.00012	3.23E-04	0.00E+00		1.20E-04	3.23E-04	0.00E+00		1.95E-05	4.88E-05	0.00E+00		1.02E-05	1.86E-05	0.00E+00
3645	600223.4	4175398	0.000117	3.14E-04	0.00E+00		1.17E-04	3.14E-04	0.00E+00		1.90E-05	4.75E-05	0.00E+00		9.89E-06	1.81E-05	0.00E+00
3646	599750.7	4175188	9.5E-05	2.56E-04	0.00E+00		9.50E-05	2.56E-04	0.00E+00		1.55E-05	3.87E-05	0.00E+00		8.07E-06	1.48E-05	0.00E+00
3647	599741.1	4175188	9.13E-05	2.46E-04	0.00E+00		9.13E-05	2.46E-04	0.00E+00		1.49E-05	3.72E-05	0.00E+00		7.75E-06	1.42E-05	0.00E+00
3648	599731.6	4175187	8.75E-05	2.36E-04	0.00E+00		8.75E-05	2.36E-04	0.00E+00		1.42E-05	3.57E-05	0.00E+00		7.43E-06	1.36E-05	0.00E+00
3649	599722.1	4175187	8.43E-05	2.27E-04	0.00E+00		8.43E-05	2.27E-04	0.00E+00		1.37E-05	3.44E-05	0.00E+00		7.16E-06	1.31E-05	0.00E+00
3650	599712.6	4175186	8.42E-05	2.27E-04	0.00E+00		8.42E-05	2.27E-04	0.00E+00		1.37E-05	3.43E-05	0.00E+00		7.15E-06	1.31E-05	0.00E+00
3651	599703	4175186	8.43E-05	2.27E-04	0.00E+00		8.43E-05	2.27E-04	0.00E+00		1.37E-05	3.44E-05	0.00E+00		7.16E-06	1.31E-05	0.00E+00
3652	599693.5	4175185	8.45E-05	2.28E-04	0.00E+00		8.45E-05	2.28E-04	0.00E+00		1.38E-05	3.45E-05	0.00E+00		7.18E-06	1.31E-05	0.00E+00
3653	599760.3	4175172	0.0001	2.70E-04	0.00E+00		1.00E-04	2.70E-04	0.00E+00		1.63E-05	4.09E-05	0.00E+00		8.51E-06	1.56E-05	0.00E+00
3654	599768.9	4175176	0.000104	2.80E-04	0.00E+00		1.04E-04	2.80E-04	0.00E+00		1.69E-05	4.24E-05	0.00E+00		8.82E-06	1.61E-05	0.00E+00
3655	599777.6	4175180	0.000107	2.90E-04	0.00E+00		1.07E-04	2.90E-04	0.00E+00		1.75E-05	4.38E-05	0.00E+00		9.12E-06	1.67E-05	0.00E+00
3656	599786.3	4175184	0.000111	3.00E-04	0.00E+00		1.11E-04	3.00E-04	0.00E+00		1.81E-05	4.54E-05	0.00E+00		9.45E-06	1.73E-05	0.00E+00
3657	599794.9	4175187	0.000116	3.13E-04	0.00E+00		1.16E-04	3.13E-04	0.00E+00		1.89E-05	4.73E-05	0.00E+00		9.85E-06	1.80E-05	0.00E+00
3658	599803.6	4175191	0.000119	3.21E-04	0.00E+00		1.19E-04	3.21E-04	0.00E+00		1.94E-05	4.85E-05	0.00E+00		1.01E-05	1.85E-05	0.00E+00
3659	599812.2	4175195	0.000123	3.31E-04	0.00E+00		1.23E-04	3.31E-04	0.00E+00		2.00E-05	5.01E-05	0.00E+00		1.04E-05	1.91E-05	0.00E+00
3660	599820.9	4175199	0.000125	3.38E-04	0.00E+00		1.25E-04	3.38E-04	0.00E+00		2.04E-05	5.12E-05	0.00E+00		1.07E-05	1.95E-05	0.00E+00
3661	599829.6	4175203	0.000126	3.40E-04	0.00E+00		1.26E-04	3.40E-04	0.00E+00		2.05E-05	5.14E-05	0.00E+00		1.07E-05	1.96E-05	0.00E+00
3662	599838.2	4175207	0.000126	3.40E-04	0.00E+00		1.26E-04	3.40E-04	0.00E+00		2.05E-05	5.14E-05	0.00E+00		1.07E-05	1.96E-05	0.00E+00
3663	599846.9	4175211	0.000124	3.35E-04	0.00E+00		1.24E-04	3.35E-04	0.00E+00		2.02E-05	5.06E-05	0.00E+00		1.05E-05	1.93E-05	0.00E+00
3664	599855.5	4175214	0.000121	3.26E-04	0.00E+00		1.21E-04	3.26E-04	0.00E+00		1.97E-05	4.93E-05	0.00E+00		1.03E-05	1.88E-05	0.00E+00
3665	599864.2	4175218	0.000118	3.19E-04	0.00E+00		1.18E-04	3.19E-04	0.00E+00		1.93E-05	4.83E-05	0.00E+00		1.00E-05	1.84E-05	0.00E+00
3666	599872.9	4175222	0.000117	3.14E-04	0.00E+00		1.17E-04	3.14E-04	0.00E+00		1.90E-05	4.75E-05	0.00E+00		9.90E-06	1.81E-05	0.00E+00
3667	599881.5	4175226	0.000118	3.18E-04	0.00E+00		1.18E-04	3.18E-04	0.00E+00		1.92E-05	4.81E-05	0.00E+00		1.00E-05	1.83E-05	0.00E+00
3668	599890.2	4175230	0.000121	3.25E-04	0.00E+00		1.21E-04	3.25E-04	0.00E+00		1.96E-05	4.92E-05	0.00E+00		1.02E-05	1.87E-05	0.00E+00
3669	599898.8	4175234	0.000124	3.35E-04	0.00E+00		1.24E-04	3.35E-04	0.00E+00		2.02E-05	5.06E-05	0.00E+00		1.05E-05	1.93E-05	0.00E+00
3670	599907.5	4175237	0.000128	3.46E-04	0.00E+00		1.28E-04	3.46E-04	0.00E+00		2.09E-05	5.23E-05	0.00E+00		1.09E-05	1.99E-05	0.00E+00
3671	599916.2	4175241	0.000134	3.60E-04	0.00E+00		1.34E-04	3.60E-04	0.00E+00		2.17E-05	5.45E-05	0.00E+00		1.14E-05	2.08E-05	0.00E+00
3672	599924.8	4175245	0.000138	3.72E-04	0.00E+00		1.38E-04	3.72E-04	0.00E+00		2.24E-05	5.62E-05	0.00E+00		1.17E-05	2.14E-05	0.00E+00
3673	599933.5	4175249	0.000141	3.81E-04	0.00E+00		1.41E-04	3.81E-04	0.00E+00		2.30E-05	5.76E-05	0.00E+00		1.20E-05	2.20E-05	0.00E+00
3674	599942.1	4175253	0.000142	3.84E-04	0.00E+00		1.42E-04	3.84E-04	0.00E+00		2.31E-05	5.80E-05	0.00E+00		1.21E-05	2.21E-05	0.00E+00
3675	599950.8	4175257	0.000143	3.86E-04	0.00E+00		1.43E-04	3.86E-04	0.00E+00		2.33E-05	5.84E-05	0.00E+00		1.22E-05	2.22E-05	0.00E+00
3676	599959.5	4175261	0.000144	3.88E-04	0.00E+00		1.44E-04	3.88E-04	0.00E+00		2.34E-05	5.87E-05	0.00E+00		1.22E-05	2.24E-05	0.00E+00
3677	599968.1	4175264	0.000144	3.89E-04	0.00E+00		1.44E-04	3.89E-04	0.00E+00		2.35E-05	5.89E-05	0.00E+00		1.23E-05	2.24E-05	0.00E+00
3678	599976.8	4175268	0.000144	3.88E-04	0.00E+00		1.44E-04	3.88E-04	0.00E+00		2.34E-05	5.87E-05	0.00E+00		1.22E-05	2.24E-05	0.00E+00
3679	599985.4	4175272	0.000143	3.87E-04	0.00E+00		1.43E-04	3.87E-04	0.00E+00		2.33E-05	5.85E-05	0.00E+00		1.22E-05	2.23E-05	0.00E+00
3680	599994.1	4175276	0.000143	3.85E-04	0.00E+00		1.43E-04	3.85E-04	0.00E+00		2.32E-05	5.82E-05	0.00E+00		1.21E-05	2.22E-05	0.00E+00
3681	600002.8	4175280	0.000144	3.89E-04	0.00E+00		1.44E-04	3.89E-04	0.00E+00		2.35E-05	5.89E-05	0.00E+00		1.23E-05	2.24E-05	0.00E+00
3682	600011.4	4175284	0.000146	3.94E-04	0.00E+00		1.46E-04	3.94E-04	0.00E+00		2.38E-05	5.96E-05	0.00E+00		1.24E-05	2.27E-05	0.00E+00
3683	600020.1	4175287	0.000148	4.00E-04	0.00E+00		1.48E-04	4.00E-04	0.00E+00		2.41E-05	6.05E-05	0.00E+00		1.26E-05	2.31E-05	0.00E+00
3684	600028.7	4175291	0.000151	4.07E-04	0.00E+00		1.51E-04	4.07E-04	0.00E+00		2.46E-05	6.16E-05	0.00E+00		1.28E-05	2.35E-05	0.00E+00
3685	600037.4	4175295	0.000155	4.17E-04	0.00E+00		1.55E-04	4.17E-04	0.00E+00		2.52E-05	6.31E-05	0.00E+00		1.31E-05	2.41E-05	0.00E+00
3686	600046.1	4175299	0.000158	4.26E-04	0.00E+00		1.58E-04	4.26E-04	0.00E+00		2.57E-05	6.43E-05	0.00E+00		1.34E-05	2.45E-05	0.00E+00
3687	600054.7	4175303	0.000161	4.33E-04	0.00E+00		1.61E-04	4.33E-04	0.00E+00		2.61E-05	6.54E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
3688	600063.4	4175307	0.000162	4.38E-04	0.00E+00		1.62E-04	4.38E-04	0.00E+00		2.64E-05	6.62E-05	0.00E+00		1.38E-05	2.52E-05	0.00E+00
3689	600072	4175311	0.000165	4.44E-04	0.00E+00		1.65E-04	4.44E-04	0.00E+00		2.68E-05	6.72E-05	0.00E+00		1.40E-05	2.56E-05	0.00E+00
3690	600080.7	4175314	0.000168	4.52E-04	0.00E+00		1.68E-04	4.52E-04	0.00E+00		2.73E-05	6.84E-05	0.00E+00		1.42E-05	2.61E-05	0.00E+00
3691	600089.4	4175318	0.000169	4.56E-04	0.00E+00		1.69E-04	4.56E-04	0.00E+00		2.75E-05	6.89E-05	0.00E+00		1.44E-05	2.63E-05	0.00E+00
3692	600098	4175322	0.000171	4.60E-04	0.00E+00		1.71E-04	4.60E-04	0.00E+00		2.78E-05	6.96E-05	0.00E+00		1.45E-05	2.65E-05	0.00E+00
3693	600106.7	4175326	0.000174	4.69E-04	0.00E+00		1.74E-04	4.69E-04	0.00E+00		2.83E-05	7.09E-05	0.00E+00		1.48E-05	2.70E-05	0.00E+00
3694	600115.3	4175330	0.000176	4.75E-04	0.00E+00		1.76E-04	4.75E-04	0.00E+00		2.86E-05	7.18E-05	0.00E+00		1.49E-05	2.73E-05	0.00E+00
3695	600124	4175334	0.000177	4.78E-04	0.00E+00		1.77E-04	4.78E-04	0.00E+00		2.88E-05	7.22E-05	0.00E+00		1.50E-05	2.75E-05	0.00E+00
3696	600132.7	4175337	0.000179	4.82E-04	0.00E+00		1.79E-04	4.82E-04	0.00E+00		2.91E-05	7.28E-05	0.00E+00		1.52E-05	2.78E-05	0.00E+00
3697	600141.3	4175341	0.00018	4.87E-04	0.00E+00		1.80E-04	4.87E-04	0.00E+00		2.94E-05	7.36E-05	0.00E+00		1.53E-05	2.80E-05	0.00E+00
3698	600150	4175345	0.000179	4.83E-04	0.00E+00		1.79E-04	4.83E-04	0.00E+00		2.92E-05	7.31E-05	0.00E+00		1.52E-05	2.78E-05	0.00E+00
3699	600158.6	4175349	0.000175	4.72E-04	0.00E+00		1.75E-04	4.72E-04	0.00E+00		2.85E-05	7.13E-05	0.00E+00		1.49E-05	2.72E-05	0.00E+00
3700	600167.3	4175353	0.000168	4.54E-04	0.00E+00		1.68E-04	4.54E-04	0.00E+00		2.74E-05	6.86E-05	0.00E+00		1.43E-05	2.61E-05	0.00E+00
3701	600176	4175357	0.000161	4.35E-04	0.00E+00		1.61E-04	4.35E-04	0.00E+00		2.62E-05	6.58E-05	0.00E+00		1.37E-05	2.51E-05	0.00E+00
3702	600184.6	4175361	0.000158	4.26E-04	0.00E+00		1.58E-04	4.26E-04	0.00E+00		2.57E-05	6.45E-05	0.00E+00		1.34E-05	2.46E-05	0.00E+00
3703	600193.3	4175364	0.000153	4.13E-04	0.00E+00		1.53E-04	4.13E-04	0.00E+00		2.49E-05	6.24E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
3704	600201.9	4175368	0.000146	3.94E-04	0.00E+00		1.46E-04	3.94E-04	0.00E+00		2.38E-05	5.96E-05	0.00E+00		1.24E-05	2.27E-05	0.00E+00
3705	600210.6	4175372	0.000142	3.82E-04	0.00E+00		1.42E-04	3.82E-04	0.00E+00		2.30E-05	5.77E-05	0.00E+00		1.20E-05	2.20E-05	0.00E+00
3706	600219.3	4175376	0.000137	3.70E-04	0.00E+00		1.37E-04	3.70E-04	0.00E+00		2.23E-05	5.60E-05	0.00E+00		1.17E-05	2.13E-05	0.00E+00
3707	600227.9	4175380	0.000133	3.58E-04	0.00E+00		1.33E-04	3.58E-04	0.00E+00		2.16E-05	5.41E-05	0.00E+00		1.13E-05	2.06E-05	0.00E+00
3708	600236.6	4175384	0.000128	3.46E-04	0.00E+00		1.28E-04	3.46E-04	0.00E+00		2.09E-05	5.23E-05	0.00E+00		1.09E-05	1.99E-05	0.00E+00
3709	600245.2	4175387	0.000126	3.41E-04	0.00E+00		1.26E-04	3.41E-04	0.00E+00		2.06E-05	5.15E-05	0.00E+00		1.07E-05	1.96E-05	0.00E+00
3710	600253.9	4175391	0.000125	3.38E-04	0.00E+00		1.25E-04	3.38E-04	0.00E+00		2.04E-05	5.11E-05	0.00E+00		1.06E-05	1.95E-05	0.00E+00
3711	600340.5	4175430	0.000103	2.78E-04	0.00E+00		1.03E-04	2.78E-04	0.00E+00		1.68E-05	4.21E-05	0.00E+00		8.76E-06	1.60E-05	0.00E+00
3712	600349.2	4175434	0.000103	2.77E-04	0.00E+00		1.03E-04	2.77E-04	0.00E+00		1.67E-05	4.19E-05	0.00E+00		8.73E-06	1.60E-05	0.00E+00
3713	600357.8	4175438	0.000103	2.78E-04	0.00E+00		1.03E-04	2.78E-04	0.00E+00		1.68E-05	4.20E-05	0.00E+00		8.75E-06	1.60E-05	0.00E+00
3714	600370.3	4175450	0.000103	2.77E-04	0.00E+00		1.03E-04	2.77E-04	0.00E+00		1.67E-05	4.19E-05	0.00E+00		8.72E-06	1.60E-05	0.00E+00
3715	599751.6	4175168	9.67E-05	2.61E-04	0.00E+00		9.67E-05	2.61E-04	0.00E+00		1.57E-05	3.94E-05	0.00E+00		8.21E-06	1.50E-05	0.00E+00
3716	599742.1	4175168	9.33E-05	2.52E-04	0.00E+00		9.33E-05	2.52E-04	0.00E+00		1.52E-05	3.81E-05	0.00E+00		7.93E-06	1.45E-05	0.00E+00
3717	599732.6	4175167	8.9E-05	2.40E-04	0.00E+00		8.90E-05	2.40E-04	0.00E+00		1.45E-05	3.63E-05	0.00E+00		7.56E-06	1.38E-05	0.00E+00
3718	599723	4175167	8.65E-05	2.33E-04	0.00E+00		8.65E-05	2.33E-04	0.00E+00		1.41E-05	3.53E-05	0.00E+00		7.34E-06	1.34E-05	0.00E+00
3719	599713.5	4175166	8.81E-05	2.38E-04	0.00E+00		8.81E-05	2.38E-04	0.00E+00		1.43E-05	3.59E-05	0.00E+00		7.48E-06	1.37E-05	0.00E+00
3720	599704	4175166	8.9E-05	2.40E-04	0.00E+00		8.90E-05	2.40E-04	0.00E+00		1.45E-05	3.63E-05	0.00E+00		7.55E-06	1.38E-05	0.00E+00
3721	599694.5	4175165	8.98E-05	2.42E-04	0.00E+00		8.98E-05	2.42E-04	0.00E+00		1.46E-05	3.66E-05	0.00E+00		7.63E-06	1.40E-05	0.00E+00
3722	599666.2	4175225	9.76E-05	2.63E-04	0.00E+00		9.76E-05	2.63E-04	0.00E+00		1.59E-05	3.98E-05	0.00E+00		8.28E-06	1.52E-05	0.00E+00
3723	599666.6	4175205	8.3E-05	2.24E-04	0.00E+00		8.30E-05	2.24E-04	0.00E+00		1.35E-05	3.38E-05	0.00E+00		7.05E-06	1.29E-05	0.00E+00
3724	599666.9	4175185	8.5E-05	2.29E-04	0.00E+00		8.50E-05	2.29E-04	0.00E+00		1.38E-05	3.47E-05	0.00E+00		7.22E-06	1.32E-05	0.00E+00
3725	599649.1	4175184	9.76E-05	2.63E-04	0.00E+00		9.76E-05	2.63E-04	0.00E+00		1.59E-05	3.98E-05	0.00E+00		8.29E-06	1.52E-05	0.00E+00
3726	599665.5	4175165	9.07E-05	2.44E-04	0.00E+00		9.07E-05	2.44E-04	0.00E+00		1.48E-05	3.70E-05	0.00E+00		7.70E-06	1.41E-05	0.00E+00
3727	599680	4175165	9.02E-05	2.43E-04	0.00E+00		9.02E-05	2.43E-04	0.00E+00		1.47E-05	3.68E-05	0.00E+00		7.66E-06	1.40E-05	0.00E+00
3728	599649.3	4175164	9.81E-05	2.65E-04	0.00E+00		9.81E-05	2.65E-04	0.00E+00		1.60E-05	4.00E-05	0.00E+00		8.33E-06	1.53E-05	0.00E+00

3729	599561.8	4175935	0.00309	8.33E-03	0.00E+00	3.09E-03	8.33E-03	0.00E+00	5.03E-04	1.26E-03	0.00E+00	2.62E-04	4.80E-04	0.00E+00
3730	599561.3	4175925	0.002747	7.41E-03	0.00E+00	2.75E-03	7.41E-03	0.00E+00	4.47E-04	1.12E-03	0.00E+00	2.33E-04	4.27E-04	0.00E+00
3731	599560.9	4175915	0.002477	6.68E-03	0.00E+00	2.48E-03	6.68E-03	0.00E+00	4.03E-04	1.01E-03	0.00E+00	2.10E-04	3.85E-04	0.00E+00
3732	599560.4	4175905	0.002253	6.08E-03	0.00E+00	2.25E-03	6.08E-03	0.00E+00	3.67E-04	9.19E-04	0.00E+00	1.91E-04	3.50E-04	0.00E+00
3733	599560	4175895	0.002061	5.56E-03	0.00E+00	2.06E-03	5.56E-03	0.00E+00	3.35E-04	8.40E-04	0.00E+00	1.75E-04	3.20E-04	0.00E+00
3734	599559.6	4175885	0.001878	5.06E-03	0.00E+00	1.88E-03	5.06E-03	0.00E+00	3.06E-04	7.66E-04	0.00E+00	1.59E-04	2.92E-04	0.00E+00
3735	599559.1	4175875	0.001721	4.64E-03	0.00E+00	1.72E-03	4.64E-03	0.00E+00	2.80E-04	7.02E-04	0.00E+00	1.46E-04	2.67E-04	0.00E+00
3736	599558.7	4175865	0.001585	4.27E-03	0.00E+00	1.58E-03	4.27E-03	0.00E+00	2.58E-04	6.46E-04	0.00E+00	1.35E-04	2.46E-04	0.00E+00
3737	599558.2	4175855	0.001473	3.97E-03	0.00E+00	1.47E-03	3.97E-03	0.00E+00	2.40E-04	6.00E-04	0.00E+00	1.25E-04	2.29E-04	0.00E+00
3738	599557.8	4175845	0.001373	3.70E-03	0.00E+00	1.37E-03	3.70E-03	0.00E+00	2.23E-04	5.60E-04	0.00E+00	1.17E-04	2.13E-04	0.00E+00
3739	599557.4	4175835	0.001283	3.46E-03	0.00E+00	1.28E-03	3.46E-03	0.00E+00	2.09E-04	5.23E-04	0.00E+00	1.09E-04	1.99E-04	0.00E+00
3740	599556.9	4175825	0.001205	3.25E-03	0.00E+00	1.20E-03	3.25E-03	0.00E+00	1.96E-04	4.91E-04	0.00E+00	1.02E-04	1.87E-04	0.00E+00
3741	599556.5	4175815	0.001133	3.05E-03	0.00E+00	1.13E-03	3.05E-03	0.00E+00	1.84E-04	4.62E-04	0.00E+00	9.62E-05	1.76E-04	0.00E+00
3742	599556	4175805	0.001066	2.88E-03	0.00E+00	1.07E-03	2.88E-03	0.00E+00	1.73E-04	4.35E-04	0.00E+00	9.05E-05	1.66E-04	0.00E+00
3743	599555.6	4175795	0.001	2.70E-03	0.00E+00	1.00E-03	2.70E-03	0.00E+00	1.63E-04	4.08E-04	0.00E+00	8.49E-05	1.55E-04	0.00E+00
3744	599555.2	4175785	0.000939	2.53E-03	0.00E+00	9.39E-04	2.53E-03	0.00E+00	1.53E-04	3.83E-04	0.00E+00	7.97E-05	1.46E-04	0.00E+00
3745	599552.2	4175505	0.000303	8.18E-04	0.00E+00	3.03E-04	8.18E-04	0.00E+00	4.93E-05	1.24E-04	0.00E+00	2.58E-05	4.71E-05	0.00E+00
3746	599542.8	4175505	0.000304	8.21E-04	0.00E+00	3.04E-04	8.21E-04	0.00E+00	4.95E-05	1.24E-04	0.00E+00	2.58E-05	4.73E-05	0.00E+00
3747	599560.7	4175484	0.000286	7.70E-04	0.00E+00	2.86E-04	7.70E-04	0.00E+00	4.65E-05	1.16E-04	0.00E+00	2.43E-05	4.44E-05	0.00E+00
3748	599551.3	4175485	0.000287	7.73E-04	0.00E+00	2.87E-04	7.73E-04	0.00E+00	4.66E-05	1.17E-04	0.00E+00	2.43E-05	4.45E-05	0.00E+00
3749	599541.9	4175485	0.000287	7.74E-04	0.00E+00	2.87E-04	7.74E-04	0.00E+00	4.67E-05	1.17E-04	0.00E+00	2.44E-05	4.46E-05	0.00E+00
3750	599559.8	4175464	0.000271	7.32E-04	0.00E+00	2.71E-04	7.32E-04	0.00E+00	4.41E-05	1.11E-04	0.00E+00	2.30E-05	4.22E-05	0.00E+00
3751	599550.4	4175465	0.000272	7.33E-04	0.00E+00	2.72E-04	7.33E-04	0.00E+00	4.42E-05	1.11E-04	0.00E+00	2.31E-05	4.23E-05	0.00E+00
3752	599541.1	4175465	0.000272	7.34E-04	0.00E+00	2.72E-04	7.34E-04	0.00E+00	4.43E-05	1.11E-04	0.00E+00	2.31E-05	4.23E-05	0.00E+00
3753	599558.9	4175444	0.000258	6.96E-04	0.00E+00	2.58E-04	6.96E-04	0.00E+00	4.20E-05	1.05E-04	0.00E+00	2.19E-05	4.01E-05	0.00E+00
3754	599549.6	4175445	0.000258	6.97E-04	0.00E+00	2.58E-04	6.97E-04	0.00E+00	4.20E-05	1.05E-04	0.00E+00	2.19E-05	4.02E-05	0.00E+00
3755	599540.2	4175445	0.000258	6.95E-04	0.00E+00	2.58E-04	6.95E-04	0.00E+00	4.20E-05	1.05E-04	0.00E+00	2.19E-05	4.01E-05	0.00E+00
3756	599567.4	4175424	0.000246	6.62E-04	0.00E+00	2.46E-04	6.62E-04	0.00E+00	3.99E-05	1.00E-04	0.00E+00	2.09E-05	3.82E-05	0.00E+00
3757	599558	4175424	0.000246	6.62E-04	0.00E+00	2.46E-04	6.62E-04	0.00E+00	4.00E-05	1.00E-04	0.00E+00	2.09E-05	3.82E-05	0.00E+00
3758	599548.7	4175425	0.000245	6.61E-04	0.00E+00	2.45E-04	6.61E-04	0.00E+00	3.99E-05	9.99E-05	0.00E+00	2.08E-05	3.81E-05	0.00E+00
3759	599539.3	4175425	0.000243	6.54E-04	0.00E+00	2.43E-04	6.54E-04	0.00E+00	3.95E-05	9.90E-05	0.00E+00	2.06E-05	3.77E-05	0.00E+00
3760	599557.2	4175404	0.000233	6.27E-04	0.00E+00	2.33E-04	6.27E-04	0.00E+00	3.79E-05	9.49E-05	0.00E+00	1.98E-05	3.62E-05	0.00E+00
3761	599547.8	4175405	0.00023	6.20E-04	0.00E+00	2.30E-04	6.20E-04	0.00E+00	3.74E-05	9.38E-05	0.00E+00	1.95E-05	3.57E-05	0.00E+00
3762	599538.4	4175405	0.000227	6.13E-04	0.00E+00	2.27E-04	6.13E-04	0.00E+00	3.70E-05	9.27E-05	0.00E+00	1.93E-05	3.53E-05	0.00E+00
3763	599556.3	4175384	0.000219	5.89E-04	0.00E+00	2.19E-04	5.89E-04	0.00E+00	3.56E-05	8.91E-05	0.00E+00	1.86E-05	3.40E-05	0.00E+00
3764	599546.9	4175385	0.000215	5.79E-04	0.00E+00	2.15E-04	5.79E-04	0.00E+00	3.49E-05	8.76E-05	0.00E+00	1.82E-05	3.34E-05	0.00E+00
3765	599537.5	4175385	0.000212	5.73E-04	0.00E+00	2.12E-04	5.73E-04	0.00E+00	3.45E-05	8.66E-05	0.00E+00	1.80E-05	3.30E-05	0.00E+00
3766	599555.4	4175364	0.000206	5.55E-04	0.00E+00	2.06E-04	5.55E-04	0.00E+00	3.35E-05	8.40E-05	0.00E+00	1.75E-05	3.20E-05	0.00E+00
3767	599546	4175365	0.000204	5.50E-04	0.00E+00	2.04E-04	5.50E-04	0.00E+00	3.32E-05	8.32E-05	0.00E+00	1.73E-05	3.17E-05	0.00E+00
3768	599536.7	4175365	0.000203	5.46E-04	0.00E+00	2.03E-04	5.46E-04	0.00E+00	3.30E-05	8.26E-05	0.00E+00	1.72E-05	3.15E-05	0.00E+00
3769	599541.6	4175265	0.000168	4.52E-04	0.00E+00	1.68E-04	4.52E-04	0.00E+00	2.73E-05	6.84E-05	0.00E+00	1.42E-05	2.61E-05	0.00E+00
3770	599532.3	4175265	0.000166	4.49E-04	0.00E+00	1.66E-04	4.49E-04	0.00E+00	2.71E-05	6.78E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
3771	599540.7	4175245	0.000161	4.34E-04	0.00E+00	1.61E-04	4.34E-04	0.00E+00	2.62E-05	6.56E-05	0.00E+00	1.37E-05	2.50E-05	0.00E+00
3772	599531.4	4175245	0.00016	4.30E-04	0.00E+00	1.60E-04	4.30E-04	0.00E+00	2.60E-05	6.51E-05	0.00E+00	1.36E-05	2.48E-05	0.00E+00
3773	599539.9	4175225	0.000154	4.16E-04	0.00E+00	1.54E-04	4.16E-04	0.00E+00	2.51E-05	6.29E-05	0.00E+00	1.31E-05	2.40E-05	0.00E+00
3774	599530.5	4175225	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.49E-05	6.23E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
3775	599539	4175205	0.000148	3.98E-04	0.00E+00	1.48E-04	3.98E-04	0.00E+00	2.40E-05	6.02E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
3776	599529.6	4175205	0.000146	3.94E-04	0.00E+00	1.46E-04	3.94E-04	0.00E+00	2.38E-05	5.96E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
3777	599538.1	4175185	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.77E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
3778	599528.7	4175185	0.00014	3.78E-04	0.00E+00	1.40E-04	3.78E-04	0.00E+00	2.28E-05	5.72E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
3779	599537.2	4175165	0.000136	3.68E-04	0.00E+00	1.36E-04	3.68E-04	0.00E+00	2.22E-05	5.56E-05	0.00E+00	1.16E-05	2.12E-05	0.00E+00
3780	599527.8	4175165	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.20E-05	5.51E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
3781	599771	4175269	9.92E-05	2.67E-04	0.00E+00	9.92E-05	2.67E-04	0.00E+00	1.61E-05	4.04E-05	0.00E+00	8.42E-06	1.54E-05	0.00E+00
3782	599775.7	4175249	0.000103	2.78E-04	0.00E+00	1.03E-04	2.78E-04	0.00E+00	1.68E-05	4.20E-05	0.00E+00	8.75E-06	1.60E-05	0.00E+00
3783	599802.8	4175446	0.00011	2.97E-04	0.00E+00	1.10E-04	2.97E-04	0.00E+00	1.79E-05	4.50E-05	0.00E+00	9.37E-06	1.71E-05	0.00E+00
3784	599713	4175777	0.000175	4.73E-04	0.00E+00	1.75E-04	4.73E-04	0.00E+00	2.85E-05	7.15E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
3785	599716.8	4175757	0.000168	4.53E-04	0.00E+00	1.68E-04	4.53E-04	0.00E+00	2.74E-05	6.86E-05	0.00E+00	1.43E-05	2.61E-05	0.00E+00
3786	599730.7	4175741	0.000167	4.49E-04	0.00E+00	1.67E-04	4.49E-04	0.00E+00	2.71E-05	6.80E-05	0.00E+00	1.42E-05	2.59E-05	0.00E+00
3787	599734.6	4175721	0.00014	3.78E-04	0.00E+00	1.40E-04	3.78E-04	0.00E+00	2.28E-05	5.72E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
3788	599849.7	4175488	0.00019	5.13E-04	0.00E+00	1.90E-04	5.13E-04	0.00E+00	3.09E-05	7.75E-05	0.00E+00	1.61E-05	2.96E-05	0.00E+00
3789	599863.6	4175472	0.000186	5.02E-04	0.00E+00	1.86E-04	5.02E-04	0.00E+00	3.03E-05	7.60E-05	0.00E+00	1.58E-05	2.90E-05	0.00E+00
3790	600122.4	4175405	0.000155	4.18E-04	0.00E+00	1.55E-04	4.18E-04	0.00E+00	2.52E-05	6.32E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
3791	599858.3	4175654	0.000266	7.17E-04	0.00E+00	2.66E-04	7.17E-04	0.00E+00	4.33E-05	1.08E-04	0.00E+00	2.26E-05	4.14E-05	0.00E+00
3792	599876.3	4175643	0.000285	7.69E-04	0.00E+00	2.85E-04	7.69E-04	0.00E+00	4.64E-05	1.16E-04	0.00E+00	2.42E-05	4.43E-05	0.00E+00
3793	599888.5	4175627	0.000308	8.30E-04	0.00E+00	3.08E-04	8.30E-04	0.00E+00	5.01E-05	1.25E-04	0.00E+00	2.61E-05	4.78E-05	0.00E+00
3794	599906.5	4175616	0.000316	8.52E-04	0.00E+00	3.16E-04	8.52E-04	0.00E+00	5.14E-05	1.29E-04	0.00E+00	2.68E-05	4.91E-05	0.00E+00
3795	599918.7	4175600	0.000293	7.90E-04	0.00E+00	2.93E-04	7.90E-04	0.00E+00	4.76E-05	1.19E-04	0.00E+00	2.49E-05	4.55E-05	0.00E+00
3796	599947.9	4175572	0.000192	5.17E-04	0.00E+00	1.92E-04	5.17E-04	0.00E+00	3.12E-05	7.82E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
3797	599960.3	4175556	0.000161	4.34E-04	0.00E+00	1.61E-04	4.34E-04	0.00E+00	2.62E-05	6.57E-05	0.00E+00	1.37E-05	2.50E-05	0.00E+00
3798	599977.7	4175545	0.000146	3.95E-04	0.00E+00	1.46E-04	3.95E-04	0.00E+00	2.38E-05	5.97E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
3799	599990.2	4175529	0.000143	3.86E-04	0.00E+00	1.43E-04	3.86E-04	0.00E+00	2.33E-05	5.84E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
3800	600002.8	4175514	0.000152	4.11E-04	0.00E+00	1.52E-04	4.11E-04	0.00E+00	2.48E-05	6.21E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
3801	600020.7	4175502	0.000155	4.18E-04	0.00E+00	1.55E-04	4.18E-04	0.00E+00	2.52E-05	6.32E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
3802	600033.4	4175487	0.000153	4.14E-04	0.00E+00	1.53E-04	4.14E-04	0.00E+00	2.50E-05	6.25E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
3803	600048	4175473	0.000124	3.35E-04	0.00E+00	1.24E-04	3.35E-04	0.00E+00	2.02E-05	5.07E-05	0.00E+00	1.06E-05	1.93E-05	0.00E+00
3804	600060.7	4175458	0.000104	2.80E-04	0.00E+00	1.04E-04	2.80E-04	0.00E+00	1.69E-05	4.23E-05	0.00E+00	8.80E-06	1.61E-05	0.00E+00
3805	600078.5	4175446	9.95E-05	2.68E-04	0.00E+00	9.95E-05	2.68E-04	0.00E+00	1.62E-05	4.06E-05	0.00E+00	8.45E-06	1.55E-05	0.00E+00
3806	600104.1	4175416	0.00013	3.51E-04	0.00E+00	1.30E-04	3.51E-04	0.00E+00	2.12E-05	5.31E-05	0.00E+00	1.11E-05	2.02E-05	0.00E+00
3807	599790.3	4175806	0.000381	1.03E-03	0.00E+00	3.81E-04	1.03E-03	0.00E+00	6.20E-05	1.55E-04	0.00E+00	3.24E-05	5.92E-05	0.00E+00
3808	599818.4	4175778	0.000348	9.38E-04	0.00E+00	3.48E-04	9.38E-04	0.00E+00	5.66E-05	1.42E-04	0.00E+00	2.96E-05	5.41E-05	0.00E+00
3809	599846.5	4175750	0.000344	9.27E-04	0.00E+00	3.44E-04	9.27E-04	0.00E+00	5.59E-05	1.40E-04	0.00E+00	2.92E-05	5.34E-05	0.00E+00
3810	599864.4	4175739	0.000362	9.77E-04	0.00E+00	3.62E-04	9.77E-04	0.00E+00	5.90E-05	1.48E-04	0.00E+00	3.08E-05	5.63E-05	0.00E+00
3811	599878.4	4175725	0.000367	9.91E-04	0.00E+00	3.67E-04	9.91E-04	0.00E+00	5.98E-05	1.50E-04	0.00E+00	3.12E-05	5.71E-05	0.00E+00
3812	599892.5	4175711	0.000343	9.25E-04	0.00E+00	3.43E-04	9.25E-04	0.00E+00	5.58E-05	1.40E-04	0.00E+00	2.91E-05	5.33E-05	0.00E+00
3813	599906.5	4175696	0.000324	8.73E-04	0.00E+00	3.24E-04	8.73E-04	0.00E+00	5.27E-05	1.32E-04	0.00E+00	2.75E-05	5.03E-05	0.00E+00
3814	599920.6	4175682	0.00033	8.89E-04	0.00E+00	3.30E-04	8.89E-04	0.00E+00	5.37E-05	1.34E-04	0.00E+00	2.80E-05	5.12E-05	0.00E+00
3815	599934.6	4175668	0.000338	9.13E-04	0.00E+00	3.38E-04	9.13E-04	0.00E+00	5.51E-05	1.38E-04	0.00E+00	2.87E-05	5.26E-05	0.00E+00
3816	599948.6	4175654	0.000355	9.56E-04	0.00E+00	3.55E-04	9.56E-04	0.00E+00	5.77E-05	1.45E-04	0.00E+00	3.01E-05	5.51E-05	0.00E+00
3817	599962.7	4175639	0.000349	9.41E-04	0.00E+00	3.49E-04	9.41E-04	0.00E+00	5.68E-05	1.42E-04	0.00E+00	2.96E-05	5.43E-05	0.00E+00
3818	599976.7	4175625	0.000334	9.01E-04	0.00E+00	3.34E-04	9.01E-04	0.00E+00	5.44E-05	1.36E-04	0.00E+00	2.84E-05	5.20E-05	0.00E+00
3819	599990.8	4175611	0.000304	8.19E-04	0.00E+00	3.04E-04	8.19E-04	0.00E+00	4.94E-05	1.24E-04	0.00E+00	2.58E-05	4.72E-05	0.00E+00

3820	600004.8	4175597	0.000269	7.26E-04	0.00E+00	2.69E-04	7.26E-04	0.00E+00	4.38E-05	1.10E-04	0.00E+00	2.29E-05	4.18E-05	0.00E+00
3821	600032.9	4175568	0.000169	4.56E-04	0.00E+00	1.69E-04	4.56E-04	0.00E+00	2.75E-05	6.90E-05	0.00E+00	1.44E-05	2.63E-05	0.00E+00
3822	600047	4175554	0.000159	4.29E-04	0.00E+00	1.59E-04	4.29E-04	0.00E+00	2.59E-05	6.49E-05	0.00E+00	1.35E-05	2.47E-05	0.00E+00
3823	600061	4175540	0.000148	4.00E-04	0.00E+00	1.48E-04	4.00E-04	0.00E+00	2.41E-05	6.05E-05	0.00E+00	1.26E-05	2.30E-05	0.00E+00
3824	600064.3	4175602	0.000268	7.22E-04	0.00E+00	2.68E-04	7.22E-04	0.00E+00	4.36E-05	1.09E-04	0.00E+00	2.27E-05	4.16E-05	0.00E+00
3825	600335.3	4175905	0.000126	3.41E-04	0.00E+00	1.26E-04	3.41E-04	0.00E+00	2.06E-05	5.16E-05	0.00E+00	1.07E-05	1.97E-05	0.00E+00
3826	600355	4175901	0.000124	3.35E-04	0.00E+00	1.24E-04	3.35E-04	0.00E+00	2.02E-05	5.07E-05	0.00E+00	1.06E-05	1.93E-05	0.00E+00
3827	600375.9	4175904	0.000116	3.13E-04	0.00E+00	1.16E-04	3.13E-04	0.00E+00	1.89E-05	4.73E-05	0.00E+00	9.86E-06	1.80E-05	0.00E+00
3828	599820.4	4175983	0.00101	2.72E-03	0.00E+00	1.01E-03	2.72E-03	0.00E+00	1.64E-04	4.12E-04	0.00E+00	8.58E-05	1.57E-04	0.00E+00
3829	600127.8	4175892	0.000241	6.50E-04	0.00E+00	2.41E-04	6.50E-04	0.00E+00	3.92E-05	9.82E-05	0.00E+00	2.05E-05	3.74E-05	0.00E+00
3830	600131	4175907	0.00023	6.20E-04	0.00E+00	2.30E-04	6.20E-04	0.00E+00	3.74E-05	9.38E-05	0.00E+00	1.95E-05	3.57E-05	0.00E+00
3831	600148.7	4175894	0.000224	6.05E-04	0.00E+00	2.24E-04	6.05E-04	0.00E+00	3.65E-05	9.15E-05	0.00E+00	1.91E-05	3.49E-05	0.00E+00
3832	600150.9	4175904	0.000218	5.88E-04	0.00E+00	2.18E-04	5.88E-04	0.00E+00	3.55E-05	8.90E-05	0.00E+00	1.85E-05	3.39E-05	0.00E+00
3833	600169.9	4175897	0.000209	5.64E-04	0.00E+00	2.09E-04	5.64E-04	0.00E+00	3.40E-05	8.53E-05	0.00E+00	1.78E-05	3.25E-05	0.00E+00
3834	600190.8	4175899	0.000189	5.09E-04	0.00E+00	1.89E-04	5.09E-04	0.00E+00	3.07E-05	7.69E-05	0.00E+00	1.60E-05	2.93E-05	0.00E+00
3835	600210.8	4175897	0.000173	4.65E-04	0.00E+00	1.73E-04	4.65E-04	0.00E+00	2.81E-05	7.03E-05	0.00E+00	1.47E-05	2.68E-05	0.00E+00
3836	600231.4	4175898	0.000159	4.30E-04	0.00E+00	1.59E-04	4.30E-04	0.00E+00	2.59E-05	6.50E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
3837	600233.7	4175908	0.000157	4.24E-04	0.00E+00	1.57E-04	4.24E-04	0.00E+00	2.56E-05	6.42E-05	0.00E+00	1.34E-05	2.45E-05	0.00E+00
3838	600252.7	4175901	0.000151	4.08E-04	0.00E+00	1.51E-04	4.08E-04	0.00E+00	2.46E-05	6.16E-05	0.00E+00	1.28E-05	2.35E-05	0.00E+00
3839	600272.1	4175896	0.000146	3.95E-04	0.00E+00	1.46E-04	3.95E-04	0.00E+00	2.38E-05	5.97E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
3840	600274.3	4175906	0.000143	3.87E-04	0.00E+00	1.43E-04	3.87E-04	0.00E+00	2.33E-05	5.85E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
3841	600293.7	4175902	0.00014	3.77E-04	0.00E+00	1.40E-04	3.77E-04	0.00E+00	2.27E-05	5.70E-05	0.00E+00	1.19E-05	2.17E-05	0.00E+00
3842	600314.3	4175902	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.37E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3843	600398.4	4175820	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.05E-05	5.13E-05	0.00E+00	1.07E-05	1.95E-05	0.00E+00
3844	600417.4	4175814	0.00012	3.24E-04	0.00E+00	1.20E-04	3.24E-04	0.00E+00	1.96E-05	4.90E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
3845	599552.3	4175960	0.004552	1.23E-02	0.00E+00	4.55E-03	1.23E-02	0.00E+00	7.40E-04	1.86E-03	0.00E+00	3.86E-04	7.07E-04	0.00E+00
3846	599749.6	4175912	0.000747	2.02E-03	0.00E+00	7.47E-04	2.02E-03	0.00E+00	1.22E-04	3.05E-04	0.00E+00	6.35E-05	1.16E-04	0.00E+00
3847	599689.7	4175778	0.000151	4.06E-04	0.00E+00	1.51E-04	4.06E-04	0.00E+00	2.45E-05	6.15E-05	0.00E+00	1.28E-05	2.34E-05	0.00E+00
3848	599864.4	4175940	0.000642	1.73E-03	0.00E+00	6.42E-04	1.73E-03	0.00E+00	1.04E-04	2.62E-04	0.00E+00	5.45E-05	9.98E-05	0.00E+00
3849	599710	4175715	0.000113	3.05E-04	0.00E+00	1.13E-04	3.05E-04	0.00E+00	1.84E-05	4.62E-05	0.00E+00	9.61E-06	1.76E-05	0.00E+00
3850	599754.3	4175772	0.000255	6.88E-04	0.00E+00	2.55E-04	6.88E-04	0.00E+00	4.15E-05	1.04E-04	0.00E+00	2.17E-05	3.97E-05	0.00E+00
3851	599780.2	4175804	0.000361	9.74E-04	0.00E+00	3.61E-04	9.74E-04	0.00E+00	5.88E-05	1.47E-04	0.00E+00	3.07E-05	5.62E-05	0.00E+00
3852	599719.1	4175697	0.000102	2.75E-04	0.00E+00	1.02E-04	2.75E-04	0.00E+00	1.66E-05	4.16E-05	0.00E+00	8.66E-06	1.59E-05	0.00E+00
3853	599814.9	4175819	0.000438	1.18E-03	0.00E+00	4.38E-04	1.18E-03	0.00E+00	7.12E-05	1.78E-04	0.00E+00	3.72E-05	6.80E-05	0.00E+00
3854	599775.9	4175740	0.000245	6.62E-04	0.00E+00	2.45E-04	6.62E-04	0.00E+00	3.99E-05	1.00E-04	0.00E+00	2.08E-05	3.81E-05	0.00E+00
3855	599801.6	4175773	0.000321	8.65E-04	0.00E+00	3.21E-04	8.65E-04	0.00E+00	5.22E-05	1.31E-04	0.00E+00	2.72E-05	4.99E-05	0.00E+00
3856	599849.3	4175833	0.000479	1.29E-03	0.00E+00	4.79E-04	1.29E-03	0.00E+00	7.80E-05	1.95E-04	0.00E+00	4.07E-05	7.45E-05	0.00E+00
3857	599836.1	4175787	0.000379	1.02E-03	0.00E+00	3.79E-04	1.02E-03	0.00E+00	6.17E-05	1.55E-04	0.00E+00	3.22E-05	5.90E-05	0.00E+00
3858	599861.7	4175819	0.000448	1.21E-03	0.00E+00	4.48E-04	1.21E-03	0.00E+00	7.28E-05	1.83E-04	0.00E+00	3.80E-05	6.96E-05	0.00E+00
3859	599820.7	4175738	0.000313	8.45E-04	0.00E+00	3.13E-04	8.45E-04	0.00E+00	5.10E-05	1.28E-04	0.00E+00	2.66E-05	4.87E-05	0.00E+00
3860	599846.7	4175771	0.000366	9.86E-04	0.00E+00	3.66E-04	9.86E-04	0.00E+00	5.95E-05	1.49E-04	0.00E+00	3.10E-05	5.68E-05	0.00E+00
3861	599872.6	4175804	0.000423	1.14E-03	0.00E+00	4.23E-04	1.14E-03	0.00E+00	6.89E-05	1.73E-04	0.00E+00	3.59E-05	6.58E-05	0.00E+00
3862	599898.5	4175837	0.000466	1.26E-03	0.00E+00	4.66E-04	1.26E-03	0.00E+00	7.59E-05	1.90E-04	0.00E+00	3.96E-05	7.25E-05	0.00E+00
3863	599928.1	4175874	0.000471	1.27E-03	0.00E+00	4.71E-04	1.27E-03	0.00E+00	7.66E-05	1.92E-04	0.00E+00	4.00E-05	7.32E-05	0.00E+00
3864	599833.3	4175725	0.000321	8.64E-04	0.00E+00	3.21E-04	8.64E-04	0.00E+00	5.22E-05	1.31E-04	0.00E+00	2.72E-05	4.98E-05	0.00E+00
3865	599881.3	4175785	0.000417	1.13E-03	0.00E+00	4.17E-04	1.13E-03	0.00E+00	6.79E-05	1.70E-04	0.00E+00	3.54E-05	6.48E-05	0.00E+00
3866	599932.9	4175851	0.000464	1.25E-03	0.00E+00	4.64E-04	1.25E-03	0.00E+00	7.55E-05	1.89E-04	0.00E+00	3.94E-05	7.21E-05	0.00E+00
3867	599820.1	4175678	0.000232	6.26E-04	0.00E+00	2.32E-04	6.26E-04	0.00E+00	3.78E-05	9.46E-05	0.00E+00	1.97E-05	3.61E-05	0.00E+00
3868	599893.7	4175772	0.000425	1.15E-03	0.00E+00	4.25E-04	1.15E-03	0.00E+00	6.92E-05	1.73E-04	0.00E+00	3.61E-05	6.61E-05	0.00E+00
3869	599919.4	4175804	0.000429	1.16E-03	0.00E+00	4.29E-04	1.16E-03	0.00E+00	6.98E-05	1.75E-04	0.00E+00	3.64E-05	6.66E-05	0.00E+00
3870	599945.2	4175837	0.000432	1.16E-03	0.00E+00	4.32E-04	1.16E-03	0.00E+00	7.03E-05	1.76E-04	0.00E+00	3.67E-05	6.71E-05	0.00E+00
3871	599781.4	4175600	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.93E-06	1.64E-05	0.00E+00
3872	599807	4175633	0.000171	4.61E-04	0.00E+00	1.71E-04	4.61E-04	0.00E+00	2.78E-05	6.98E-05	0.00E+00	1.45E-05	2.66E-05	0.00E+00
3873	599816.7	4175615	0.000211	5.68E-04	0.00E+00	2.11E-04	5.68E-04	0.00E+00	3.43E-05	8.59E-05	0.00E+00	1.79E-05	3.27E-05	0.00E+00
3874	599916.8	4175742	0.00037	9.98E-04	0.00E+00	3.70E-04	9.98E-04	0.00E+00	6.02E-05	1.51E-04	0.00E+00	3.14E-05	5.75E-05	0.00E+00
3875	599965	4175803	0.000393	1.06E-03	0.00E+00	3.93E-04	1.06E-03	0.00E+00	6.40E-05	1.60E-04	0.00E+00	3.34E-05	6.11E-05	0.00E+00
3876	599803.6	4175569	0.000177	4.78E-04	0.00E+00	1.77E-04	4.78E-04	0.00E+00	2.88E-05	7.23E-05	0.00E+00	1.50E-05	2.75E-05	0.00E+00
3877	599851.6	4175630	0.000309	8.32E-04	0.00E+00	3.09E-04	8.32E-04	0.00E+00	5.02E-05	1.26E-04	0.00E+00	2.62E-05	4.79E-05	0.00E+00
3878	599877.5	4175663	0.000281	7.59E-04	0.00E+00	2.81E-04	7.59E-04	0.00E+00	4.58E-05	1.15E-04	0.00E+00	2.39E-05	4.37E-05	0.00E+00
3879	599951.4	4175757	0.000384	1.04E-03	0.00E+00	3.84E-04	1.04E-03	0.00E+00	6.25E-05	1.57E-04	0.00E+00	3.26E-05	5.97E-05	0.00E+00
3880	599777.7	4175537	0.00014	3.77E-04	0.00E+00	1.40E-04	3.77E-04	0.00E+00	2.27E-05	5.70E-05	0.00E+00	1.19E-05	2.17E-05	0.00E+00
3881	599812.7	4175552	0.000198	5.33E-04	0.00E+00	1.98E-04	5.33E-04	0.00E+00	3.22E-05	8.06E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
3882	599838.5	4175584	0.000265	7.15E-04	0.00E+00	2.65E-04	7.15E-04	0.00E+00	4.31E-05	1.08E-04	0.00E+00	2.25E-05	4.12E-05	0.00E+00
3883	599912.2	4175678	0.000315	8.50E-04	0.00E+00	3.15E-04	8.50E-04	0.00E+00	5.13E-05	1.29E-04	0.00E+00	2.68E-05	4.90E-05	0.00E+00
3884	599938	4175710	0.000338	9.11E-04	0.00E+00	3.38E-04	9.11E-04	0.00E+00	5.50E-05	1.38E-04	0.00E+00	2.87E-05	5.25E-05	0.00E+00
3885	599799.7	4175506	0.000143	3.84E-04	0.00E+00	1.43E-04	3.84E-04	0.00E+00	2.32E-05	5.81E-05	0.00E+00	1.21E-05	2.21E-05	0.00E+00
3886	599873.2	4175599	0.000314	8.48E-04	0.00E+00	3.14E-04	8.48E-04	0.00E+00	5.11E-05	1.28E-04	0.00E+00	2.67E-05	4.88E-05	0.00E+00
3887	599899	4175631	0.000305	8.23E-04	0.00E+00	3.05E-04	8.23E-04	0.00E+00	4.97E-05	1.25E-04	0.00E+00	2.59E-05	4.75E-05	0.00E+00
3888	599950.4	4175697	0.00037	9.98E-04	0.00E+00	3.70E-04	9.98E-04	0.00E+00	6.02E-05	1.51E-04	0.00E+00	3.14E-05	5.75E-05	0.00E+00
3889	599998.2	4175757	0.000381	1.03E-03	0.00E+00	3.81E-04	1.03E-03	0.00E+00	6.20E-05	1.55E-04	0.00E+00	3.23E-05	5.92E-05	0.00E+00
3890	599834.9	4175521	0.000207	5.59E-04	0.00E+00	2.07E-04	5.59E-04	0.00E+00	3.37E-05	8.46E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
3891	599860.8	4175554	0.000245	6.62E-04	0.00E+00	2.45E-04	6.62E-04	0.00E+00	3.99E-05	1.00E-04	0.00E+00	2.08E-05	3.81E-05	0.00E+00
3892	599935	4175648	0.000335	9.05E-04	0.00E+00	3.35E-04	9.05E-04	0.00E+00	5.46E-05	1.37E-04	0.00E+00	2.85E-05	5.21E-05	0.00E+00
3893	599983.2	4175709	0.000366	9.88E-04	0.00E+00	3.66E-04	9.88E-04	0.00E+00	5.96E-05	1.49E-04	0.00E+00	3.11E-05	5.69E-05	0.00E+00
3894	599821.8	4175475	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.19E-05	5.50E-05	0.00E+00	1.14E-05	2.10E-05	0.00E+00
3895	599969.8	4175662	0.000378	1.02E-03	0.00E+00	3.78E-04	1.02E-03	0.00E+00	6.15E-05	1.54E-04	0.00E+00	3.21E-05	5.87E-05	0.00E+00
3896	599995.6	4175695	0.000359	9.69E-04	0.00E+00	3.59E-04	9.69E-04	0.00E+00	5.85E-05	1.46E-04	0.00E+00	3.05E-05	5.58E-05	0.00E+00
3897	600139.9	4175878	0.000237	6.38E-04	0.00E+00	2.37E-04	6.38E-04	0.00E+00	3.85E-05	9.65E-05	0.00E+00	2.01E-05	3.68E-05	0.00E+00
3898	599882.6	4175523	0.000213	5.75E-04	0.00E+00	2.13E-04	5.75E-04	0.00E+00	3.47E-05	8.70E-05	0.00E+00	1.81E-05	3.32E-05	0.00E+00
3899	599956.4	4175616	0.000304	8.21E-04	0.00E+00	3.04E-04	8.21E-04	0.00E+00	4.95E-05	1.24E-04	0.00E+00	2.58E-05	4.73E-05	0.00E+00
3900	599982.2	4175649	0.00035	9.43E-04	0.00E+00	3.50E-04	9.43E-04	0.00E+00	5.69E-05	1.43E-04	0.00E+00	2.97E-05	5.43E-05	0.00E+00
3901	600155.7	4175868	0.000222	5.98E-04	0.00E+00	2.22E-04	5.98E-04	0.00E+00	3.61E-05	9.04E-05	0.00E+00	1.88E-05	3.45E-05	0.00E+00
3902	599843.8	4175444	0.000152	4.11E-04	0.00E+00	1.52E-04	4.11E-04	0.00E+00	2.48E-05	6.21E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
3903	599917.4	4175537	0.000173	4.66E-04	0.00E+00	1.73E-04	4.66E-04	0.00E+00	2.81E-05	7.05E-05	0.00E+00	1.47E-05	2.69E-05	0.00E+00
3904	599968.9	4175602	0.000275	7.42E-04	0.00E+00	2.75E-04	7.42E-04	0.00E+00	4.48E-05	1.12E-04	0.00E+00	2.34E-05	4.27E-05	0.00E+00
3905	600016.8	4175663	0.000299	8.07E-04	0.00E+00	2.99E-04	8.07E-04	0.00E+00	4.87E-05	1.22E-04	0.00E+00	2.54E-05	4.65E-05	0.00E+00
3906	600175.1	4175864	0.0002	5.40E-04	0.00E+00	2.00E-04	5.40E-04	0.00E+00	3.26E-05	8.17E-05	0.00E+00	1.70E-05	3.11E-05	0.00E+00
3907	599879	4175459	0.000188	5.07E-04	0.00E+00	1.88E-04	5.07E-04	0.00E+00	3.06E-05	7.67E-05	0.00E+00	1.60E-05	2.92E-05	0.00E+00
3908	599905	4175492	0.000192	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.13E-05	7.84E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
3909	600190.7	4175854	0.000186	5.02E-04	0.00E+00	1.86E-04	5.02E-04	0.00E+00	3.03E-05	7.59E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
3910	599914	4175474	0.00019	5.13E-04	0.00E+00	1.90E-04	5.13E-04	0.00E+00	3.10E-05	7.76E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00

3911	599939.9	4175507	0.000157	4.23E-04	0.00E+00	1.57E-04	4.23E-04	0.00E+00	2.55E-05	6.40E-05	0.00E+00	1.33E-05	2.44E-05	0.00E+00
3912	599988	4175568	0.000161	4.34E-04	0.00E+00	1.61E-04	4.34E-04	0.00E+00	2.62E-05	6.56E-05	0.00E+00	1.37E-05	2.50E-05	0.00E+00
3913	600014	4175601	0.000282	7.59E-04	0.00E+00	2.82E-04	7.59E-04	0.00E+00	4.58E-05	1.15E-04	0.00E+00	2.39E-05	4.38E-05	0.00E+00
3914	600039.9	4175634	0.000336	9.07E-04	0.00E+00	3.36E-04	9.07E-04	0.00E+00	5.47E-05	1.37E-04	0.00E+00	2.86E-05	5.23E-05	0.00E+00
3915	599875	4175395	0.000168	4.53E-04	0.00E+00	1.68E-04	4.53E-04	0.00E+00	2.73E-05	6.85E-05	0.00E+00	1.43E-05	2.61E-05	0.00E+00
3916	599900.9	4175428	0.000186	5.02E-04	0.00E+00	1.86E-04	5.02E-04	0.00E+00	3.03E-05	7.59E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
3917	599974.7	4175522	0.000149	4.03E-04	0.00E+00	1.49E-04	4.03E-04	0.00E+00	2.43E-05	6.09E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
3918	600000.6	4175554	0.000149	4.01E-04	0.00E+00	1.49E-04	4.01E-04	0.00E+00	2.42E-05	6.06E-05	0.00E+00	1.26E-05	2.31E-05	0.00E+00
3919	599887.8	4175382	0.00017	4.59E-04	0.00E+00	1.70E-04	4.59E-04	0.00E+00	2.77E-05	6.94E-05	0.00E+00	1.44E-05	2.64E-05	0.00E+00
3920	599935.7	4175443	0.000192	5.19E-04	0.00E+00	1.92E-04	5.19E-04	0.00E+00	3.13E-05	7.84E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
3921	599961.5	4175476	0.000185	4.98E-04	0.00E+00	1.85E-04	4.98E-04	0.00E+00	3.01E-05	7.53E-05	0.00E+00	1.57E-05	2.87E-05	0.00E+00
3922	599987.4	4175508	0.000158	4.26E-04	0.00E+00	1.58E-04	4.26E-04	0.00E+00	2.57E-05	6.44E-05	0.00E+00	1.34E-05	2.45E-05	0.00E+00
3923	600193.8	4175770	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.87E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
3924	600241.7	4175830	0.000172	4.63E-04	0.00E+00	1.72E-04	4.63E-04	0.00E+00	2.79E-05	7.00E-05	0.00E+00	1.46E-05	2.67E-05	0.00E+00
3925	599923.1	4175398	0.00018	4.86E-04	0.00E+00	1.80E-04	4.86E-04	0.00E+00	2.93E-05	7.35E-05	0.00E+00	1.53E-05	2.80E-05	0.00E+00
3926	599971.4	4175459	0.000192	5.19E-04	0.00E+00	1.92E-04	5.19E-04	0.00E+00	3.13E-05	7.84E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
3927	599997.4	4175492	0.000171	4.62E-04	0.00E+00	1.71E-04	4.62E-04	0.00E+00	2.78E-05	6.98E-05	0.00E+00	1.45E-05	2.66E-05	0.00E+00
3928	600023.4	4175524	0.000147	3.95E-04	0.00E+00	1.47E-04	3.95E-04	0.00E+00	2.38E-05	5.97E-05	0.00E+00	1.24E-05	2.28E-05	0.00E+00
3929	600212.7	4175764	0.000192	5.19E-04	0.00E+00	1.92E-04	5.19E-04	0.00E+00	3.13E-05	7.84E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
3930	600257.2	4175821	0.000173	4.66E-04	0.00E+00	1.73E-04	4.66E-04	0.00E+00	2.81E-05	7.04E-05	0.00E+00	1.47E-05	2.68E-05	0.00E+00
3931	599910	4175352	0.000165	4.45E-04	0.00E+00	1.65E-04	4.45E-04	0.00E+00	2.68E-05	6.73E-05	0.00E+00	1.40E-05	2.56E-05	0.00E+00
3932	599984.1	4175445	0.000184	4.97E-04	0.00E+00	1.84E-04	4.97E-04	0.00E+00	3.00E-05	7.52E-05	0.00E+00	1.57E-05	2.86E-05	0.00E+00
3933	600228.6	4175755	0.000197	5.30E-04	0.00E+00	1.97E-04	5.30E-04	0.00E+00	3.20E-05	8.01E-05	0.00E+00	1.67E-05	3.05E-05	0.00E+00
3934	600276.7	4175816	0.000166	4.48E-04	0.00E+00	1.66E-04	4.48E-04	0.00E+00	2.71E-05	6.78E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
3935	599945	4175366	0.000166	4.47E-04	0.00E+00	1.66E-04	4.47E-04	0.00E+00	2.70E-05	6.76E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
3936	599970.8	4175399	0.000156	4.21E-04	0.00E+00	1.56E-04	4.21E-04	0.00E+00	2.54E-05	6.36E-05	0.00E+00	1.32E-05	2.42E-05	0.00E+00
3937	600018.9	4175460	0.000153	4.12E-04	0.00E+00	1.53E-04	4.12E-04	0.00E+00	2.49E-05	6.24E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
3938	600044.8	4175493	0.000144	3.89E-04	0.00E+00	1.44E-04	3.89E-04	0.00E+00	2.35E-05	5.88E-05	0.00E+00	1.23E-05	2.24E-05	0.00E+00
3939	600070.7	4175526	0.000139	3.75E-04	0.00E+00	1.39E-04	3.75E-04	0.00E+00	2.26E-05	5.67E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
3940	600288.8	4175802	0.000161	4.35E-04	0.00E+00	1.61E-04	4.35E-04	0.00E+00	2.63E-05	6.58E-05	0.00E+00	1.37E-05	2.51E-05	0.00E+00
3941	599979.9	4175381	0.000138	3.71E-04	0.00E+00	1.38E-04	3.71E-04	0.00E+00	2.24E-05	5.61E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
3942	600005.7	4175414	0.00012	3.24E-04	0.00E+00	1.20E-04	3.24E-04	0.00E+00	1.96E-05	4.90E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
3943	600079.5	4175507	0.00013	3.51E-04	0.00E+00	1.30E-04	3.51E-04	0.00E+00	2.12E-05	5.31E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
3944	600264	4175741	0.000188	5.06E-04	0.00E+00	1.88E-04	5.06E-04	0.00E+00	3.05E-05	7.65E-05	0.00E+00	1.59E-05	2.92E-05	0.00E+00
3945	600308.3	4175797	0.00015	4.03E-04	0.00E+00	1.50E-04	4.03E-04	0.00E+00	2.43E-05	6.10E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
3946	599906.1	4175288	0.000144	3.87E-04	0.00E+00	1.44E-04	3.87E-04	0.00E+00	2.34E-05	5.85E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
3947	599941.2	4175303	0.000155	4.19E-04	0.00E+00	1.55E-04	4.19E-04	0.00E+00	2.53E-05	6.34E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
3948	599967.2	4175336	0.000149	4.02E-04	0.00E+00	1.49E-04	4.02E-04	0.00E+00	2.42E-05	6.07E-05	0.00E+00	1.27E-05	2.31E-05	0.00E+00
3949	600015.5	4175397	0.000113	3.04E-04	0.00E+00	1.13E-04	3.04E-04	0.00E+00	1.83E-05	4.60E-05	0.00E+00	9.57E-06	1.75E-05	0.00E+00
3950	600041.5	4175430	0.000105	2.82E-04	0.00E+00	1.05E-04	2.82E-04	0.00E+00	1.70E-05	4.26E-05	0.00E+00	8.88E-06	1.62E-05	0.00E+00
3951	600089.8	4175491	0.000113	3.04E-04	0.00E+00	1.13E-04	3.04E-04	0.00E+00	1.84E-05	4.60E-05	0.00E+00	9.58E-06	1.75E-05	0.00E+00
3952	600279.2	4175731	0.00017	4.57E-04	0.00E+00	1.70E-04	4.57E-04	0.00E+00	2.76E-05	6.92E-05	0.00E+00	1.44E-05	2.64E-05	0.00E+00
3953	599915.2	4175270	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.29E-05	5.75E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
3954	599928.1	4175257	0.000142	3.82E-04	0.00E+00	1.42E-04	3.82E-04	0.00E+00	2.30E-05	5.77E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
3955	599976.3	4175318	0.000145	3.90E-04	0.00E+00	1.45E-04	3.90E-04	0.00E+00	2.35E-05	5.89E-05	0.00E+00	1.23E-05	2.25E-05	0.00E+00
3956	600002.2	4175351	0.000123	3.32E-04	0.00E+00	1.23E-04	3.32E-04	0.00E+00	2.00E-05	5.02E-05	0.00E+00	1.05E-05	1.91E-05	0.00E+00
3957	600295.1	4175722	0.000155	4.19E-04	0.00E+00	1.55E-04	4.19E-04	0.00E+00	2.53E-05	6.33E-05	0.00E+00	1.32E-05	2.41E-05	0.00E+00
3958	600339.5	4175778	0.000139	3.74E-04	0.00E+00	1.39E-04	3.74E-04	0.00E+00	2.26E-05	5.66E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
3959	599937.3	4175239	0.000139	3.76E-04	0.00E+00	1.39E-04	3.76E-04	0.00E+00	2.27E-05	5.68E-05	0.00E+00	1.18E-05	2.17E-05	0.00E+00
3960	599989.1	4175305	0.000142	3.82E-04	0.00E+00	1.42E-04	3.82E-04	0.00E+00	2.31E-05	5.78E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
3961	600063.1	4175398	0.000111	2.99E-04	0.00E+00	1.11E-04	2.99E-04	0.00E+00	1.80E-05	4.52E-05	0.00E+00	9.42E-06	1.72E-05	0.00E+00
3962	600314.6	4175717	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.29E-05	5.75E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
3963	600359	4175773	0.000136	3.66E-04	0.00E+00	1.36E-04	3.66E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
3964	599928.3	4175232	0.000135	3.65E-04	0.00E+00	1.35E-04	3.65E-04	0.00E+00	2.20E-05	5.52E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
3965	599946.4	4175221	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.19E-05	5.50E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
3966	599953.8	4175231	0.000138	3.72E-04	0.00E+00	1.38E-04	3.72E-04	0.00E+00	2.24E-05	5.62E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
3967	599961.2	4175240	0.00014	3.78E-04	0.00E+00	1.40E-04	3.78E-04	0.00E+00	2.28E-05	5.72E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
3968	599968.6	4175249	0.000142	3.82E-04	0.00E+00	1.42E-04	3.82E-04	0.00E+00	2.30E-05	5.77E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
3969	599976	4175259	0.000143	3.85E-04	0.00E+00	1.43E-04	3.85E-04	0.00E+00	2.32E-05	5.81E-05	0.00E+00	1.21E-05	2.22E-05	0.00E+00
3970	600024	4175320	0.000138	3.71E-04	0.00E+00	1.38E-04	3.71E-04	0.00E+00	2.24E-05	5.62E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
3971	600049.8	4175352	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00
3972	600075.7	4175385	0.000129	3.47E-04	0.00E+00	1.29E-04	3.47E-04	0.00E+00	2.09E-05	5.25E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
3973	600123.7	4175446	0.000125	3.38E-04	0.00E+00	1.25E-04	3.38E-04	0.00E+00	2.04E-05	5.11E-05	0.00E+00	1.07E-05	1.95E-05	0.00E+00
3974	600282.5	4175647	0.000136	3.65E-04	0.00E+00	1.36E-04	3.65E-04	0.00E+00	2.21E-05	5.53E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
3975	600330.5	4175708	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.37E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
3976	600378.5	4175768	0.000138	3.73E-04	0.00E+00	1.38E-04	3.73E-04	0.00E+00	2.25E-05	5.64E-05	0.00E+00	1.18E-05	2.15E-05	0.00E+00
3977	599937.4	4175214	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00
3978	599496.5	4175970	0.005078	1.37E-02	0.00E+00	5.08E-03	1.37E-02	0.00E+00	8.26E-04	2.07E-03	0.00E+00	4.31E-04	7.89E-04	0.00E+00
3979	599516.2	4175972	0.005402	1.46E-02	0.00E+00	5.40E-03	1.46E-02	0.00E+00	8.79E-04	2.20E-03	0.00E+00	4.59E-04	8.39E-04	0.00E+00
3980	599502.1	4175962	0.004555	1.23E-02	0.00E+00	4.55E-03	1.23E-02	0.00E+00	7.41E-04	1.86E-03	0.00E+00	3.87E-04	7.08E-04	0.00E+00
3981	599535.9	4175973	0.005516	1.49E-02	0.00E+00	5.52E-03	1.49E-02	0.00E+00	8.97E-04	2.25E-03	0.00E+00	4.68E-04	8.57E-04	0.00E+00
3982	599521.8	4175963	0.004729	1.27E-02	0.00E+00	4.73E-03	1.27E-02	0.00E+00	7.69E-04	1.93E-03	0.00E+00	4.02E-04	7.35E-04	0.00E+00
3983	599507.7	4175954	0.004101	1.11E-02	0.00E+00	4.10E-03	1.11E-02	0.00E+00	6.67E-04	1.67E-03	0.00E+00	3.48E-04	6.37E-04	0.00E+00
3984	599541.5	4175965	0.004877	1.31E-02	0.00E+00	4.88E-03	1.31E-02	0.00E+00	7.93E-04	1.99E-03	0.00E+00	4.14E-04	7.58E-04	0.00E+00
3985	599527.4	4175955	0.004198	1.13E-02	0.00E+00	4.20E-03	1.13E-02	0.00E+00	6.83E-04	1.71E-03	0.00E+00	3.56E-04	6.52E-04	0.00E+00
3986	599513.3	4175946	0.003674	9.91E-03	0.00E+00	3.67E-03	9.91E-03	0.00E+00	5.98E-04	1.50E-03	0.00E+00	3.12E-04	5.71E-04	0.00E+00
3987	599540	4175952	0.004023	1.08E-02	0.00E+00	4.02E-03	1.08E-02	0.00E+00	6.55E-04	1.64E-03	0.00E+00	3.42E-04	6.25E-04	0.00E+00
3988	599525.9	4175942	0.00352	9.49E-03	0.00E+00	3.52E-03	9.49E-03	0.00E+00	5.73E-04	1.43E-03	0.00E+00	2.99E-04	5.47E-04	0.00E+00
3989	599552.7	4175948	0.003787	1.02E-02	0.00E+00	3.79E-03	1.02E-02	0.00E+00	6.16E-04	1.54E-03	0.00E+00	3.22E-04	5.88E-04	0.00E+00
3990	599538.5	4175938	0.003365	9.07E-03	0.00E+00	3.37E-03	9.07E-03	0.00E+00	5.47E-04	1.37E-03	0.00E+00	2.86E-04	5.23E-04	0.00E+00
3991	599524.4	4175929	0.003008	8.11E-03	0.00E+00	3.01E-03	8.11E-03	0.00E+00	4.89E-04	1.23E-03	0.00E+00	2.55E-04	4.67E-04	0.00E+00
3992	599551.2	4175935	0.003178	8.57E-03	0.00E+00	3.18E-03	8.57E-03	0.00E+00	5.17E-04	1.30E-03	0.00E+00	2.70E-04	4.94E-04	0.00E+00
3993	599537.1	4175925	0.002883	7.77E-03	0.00E+00	2.88E-03	7.77E-03	0.00E+00	4.69E-04	1.18E-03	0.00E+00	2.45E-04	4.48E-04	0.00E+00
3994	599549.7	4175922	0.002738	7.38E-03	0.00E+00	2.74E-03	7.38E-03	0.00E+00	4.45E-04	1.12E-03	0.00E+00	2.33E-04	4.26E-04	0.00E+00
3995	599535.6	4175912	0.002513	6.78E-03	0.00E+00	2.51E-03	6.78E-03	0.00E+00	4.09E-04	1.02E-03	0.00E+00	2.13E-04	3.90E-04	0.00E+00
3996	599548.2	4175909	0.002406	6.49E-03	0.00E+00	2.41E-03	6.49E-03	0.00E+00	3.91E-04	9.81E-04	0.00E+00	2.04E-04	3.74E-04	0.00E+00
3997	599546.7	4175896	0.002133	5.75E-03	0.00E+00	2.13E-03	5.75E-03	0.00E+00	3.47E-04	8.70E-04	0.00E+00	1.81E-04	3.31E-04	0.00E+00
3998	599793.5	4175544	0.000159	4.30E-04	0.00E+00	1.59E-04	4.30E-04	0.00E+00	2.59E-05	6.50E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
3999	599811.8	4175532	0.000189	5.10E-04	0.00E+00	1.89E-04	5.10E-04	0.00E+00	3.08E-05	7.72E-05	0.00E+00	1.61E-05	2.94E-05	0.00E+00
4000	599848.2	4175508	0.000212	5.70E-04	0.00E+00	2.12E-04	5.70E-04	0.00E+00	3.44E-05	8.63E-05	0.00E+00	1.80E-05	3.29E-05	0.00E+00
4001	599866.4	4175496	0.000206	5.55E-04	0.00E+00	2.06E-04	5.55E-04	0.00E+00	3.35E-05	8.39E-05	0.00E+00	1.75E-05	3.20E-05	0.00E+00

4002	599877.5	4175480	0.000198	5.33E-04	0.00E+00	1.98E-04	5.33E-04	0.00E+00	3.22E-05	8.06E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
4003	599895.7	4175468	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.86E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
4004	599906.9	4175451	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.86E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
4005	599918	4175434	0.00019	5.11E-04	0.00E+00	1.90E-04	5.11E-04	0.00E+00	3.08E-05	7.73E-05	0.00E+00	1.61E-05	2.95E-05	0.00E+00
4006	599964.9	4175273	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.95E-05	0.00E+00	1.24E-05	2.27E-05	0.00E+00
4007	600029.6	4175268	0.000147	3.96E-04	0.00E+00	1.47E-04	3.96E-04	0.00E+00	2.39E-05	5.99E-05	0.00E+00	1.25E-05	2.28E-05	0.00E+00
4008	600015.5	4175259	0.000143	3.85E-04	0.00E+00	1.43E-04	3.85E-04	0.00E+00	2.32E-05	5.83E-05	0.00E+00	1.21E-05	2.22E-05	0.00E+00
4009	600001.3	4175249	0.00014	3.77E-04	0.00E+00	1.40E-04	3.77E-04	0.00E+00	2.28E-05	5.70E-05	0.00E+00	1.19E-05	2.17E-05	0.00E+00
4010	599987.2	4175240	0.000139	3.75E-04	0.00E+00	1.39E-04	3.75E-04	0.00E+00	2.26E-05	5.67E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
4011	599477.5	4175964	0.004434	1.20E-02	0.00E+00	4.43E-03	1.20E-02	0.00E+00	7.21E-04	1.81E-03	0.00E+00	3.76E-04	6.89E-04	0.00E+00
4012	599477.7	4175954	0.00383	1.03E-02	0.00E+00	3.83E-03	1.03E-02	0.00E+00	6.23E-04	1.56E-03	0.00E+00	3.25E-04	5.95E-04	0.00E+00
4013	599489.9	4175958	0.004136	1.12E-02	0.00E+00	4.14E-03	1.12E-02	0.00E+00	6.73E-04	1.69E-03	0.00E+00	3.51E-04	6.43E-04	0.00E+00
4014	599479.2	4175944	0.003379	9.11E-03	0.00E+00	3.38E-03	9.11E-03	0.00E+00	5.50E-04	1.38E-03	0.00E+00	2.87E-04	5.25E-04	0.00E+00
4015	599493.5	4175949	0.003681	9.92E-03	0.00E+00	3.68E-03	9.92E-03	0.00E+00	5.99E-04	1.50E-03	0.00E+00	3.13E-04	5.72E-04	0.00E+00
4016	599479.4	4175934	0.002992	8.07E-03	0.00E+00	2.99E-03	8.07E-03	0.00E+00	4.87E-04	1.22E-03	0.00E+00	2.54E-04	4.65E-04	0.00E+00
4017	599492.9	4175939	0.00321	8.66E-03	0.00E+00	3.21E-03	8.66E-03	0.00E+00	5.22E-04	1.31E-03	0.00E+00	2.73E-04	4.99E-04	0.00E+00
4018	599479.6	4175924	0.002671	7.20E-03	0.00E+00	2.67E-03	7.20E-03	0.00E+00	4.35E-04	1.09E-03	0.00E+00	2.27E-04	4.15E-04	0.00E+00
4019	599492.7	4175929	0.002833	7.64E-03	0.00E+00	2.83E-03	7.64E-03	0.00E+00	4.61E-04	1.15E-03	0.00E+00	2.41E-04	4.40E-04	0.00E+00
4020	599505.8	4175933	0.003057	8.24E-03	0.00E+00	3.06E-03	8.24E-03	0.00E+00	4.97E-04	1.25E-03	0.00E+00	2.60E-04	4.75E-04	0.00E+00
4021	599480.8	4175915	0.002407	6.49E-03	0.00E+00	2.41E-03	6.49E-03	0.00E+00	3.92E-04	9.81E-04	0.00E+00	2.04E-04	3.74E-04	0.00E+00
4022	599495.4	4175919	0.002566	6.92E-03	0.00E+00	2.57E-03	6.92E-03	0.00E+00	4.17E-04	1.05E-03	0.00E+00	2.18E-04	3.99E-04	0.00E+00
4023	599509.9	4175924	0.002769	7.47E-03	0.00E+00	2.77E-03	7.47E-03	0.00E+00	4.50E-04	1.13E-03	0.00E+00	2.35E-04	4.30E-04	0.00E+00
4024	599495	4175909	0.002308	6.22E-03	0.00E+00	2.31E-03	6.22E-03	0.00E+00	3.75E-04	9.41E-04	0.00E+00	1.96E-04	3.59E-04	0.00E+00
4025	599509	4175914	0.002474	6.67E-03	0.00E+00	2.47E-03	6.67E-03	0.00E+00	4.03E-04	1.01E-03	0.00E+00	2.10E-04	3.84E-04	0.00E+00
4026	599523	4175918	0.002672	7.20E-03	0.00E+00	2.67E-03	7.20E-03	0.00E+00	4.35E-04	1.09E-03	0.00E+00	2.27E-04	4.15E-04	0.00E+00
4027	599494.9	4175899	0.002091	5.64E-03	0.00E+00	2.09E-03	5.64E-03	0.00E+00	3.40E-04	8.52E-04	0.00E+00	1.78E-04	3.25E-04	0.00E+00
4028	599508.5	4175903	0.00223	6.01E-03	0.00E+00	2.23E-03	6.01E-03	0.00E+00	3.63E-04	9.09E-04	0.00E+00	1.89E-04	3.46E-04	0.00E+00
4029	599522	4175908	0.002386	6.43E-03	0.00E+00	2.39E-03	6.43E-03	0.00E+00	3.88E-04	9.73E-04	0.00E+00	2.03E-04	3.71E-04	0.00E+00
4030	599497.1	4175889	0.001924	5.19E-03	0.00E+00	1.92E-03	5.19E-03	0.00E+00	3.13E-04	7.84E-04	0.00E+00	1.63E-04	2.99E-04	0.00E+00
4031	599511.8	4175894	0.002058	5.55E-03	0.00E+00	2.06E-03	5.55E-03	0.00E+00	3.35E-04	8.39E-04	0.00E+00	1.75E-04	3.20E-04	0.00E+00
4032	599526.5	4175899	0.002201	5.93E-03	0.00E+00	2.20E-03	5.93E-03	0.00E+00	3.58E-04	8.97E-04	0.00E+00	1.87E-04	3.42E-04	0.00E+00
4033	599496.9	4175879	0.001759	4.74E-03	0.00E+00	1.76E-03	4.74E-03	0.00E+00	2.86E-04	7.17E-04	0.00E+00	1.49E-04	2.73E-04	0.00E+00
4034	599511.1	4175884	0.001873	5.05E-03	0.00E+00	1.87E-03	5.05E-03	0.00E+00	3.05E-04	7.64E-04	0.00E+00	1.59E-04	2.91E-04	0.00E+00
4035	599525.4	4175889	0.001997	5.38E-03	0.00E+00	2.00E-03	5.38E-03	0.00E+00	3.25E-04	8.14E-04	0.00E+00	1.70E-04	3.10E-04	0.00E+00
4036	599496.8	4175869	0.001617	4.36E-03	0.00E+00	1.62E-03	4.36E-03	0.00E+00	2.63E-04	6.59E-04	0.00E+00	1.37E-04	2.51E-04	0.00E+00
4037	599510.7	4175874	0.001715	4.62E-03	0.00E+00	1.71E-03	4.62E-03	0.00E+00	2.79E-04	6.99E-04	0.00E+00	1.46E-04	2.66E-04	0.00E+00
4038	599524.6	4175878	0.001825	4.92E-03	0.00E+00	1.83E-03	4.92E-03	0.00E+00	2.97E-04	7.44E-04	0.00E+00	1.55E-04	2.84E-04	0.00E+00
4039	599538.4	4175883	0.001904	5.13E-03	0.00E+00	1.90E-03	5.13E-03	0.00E+00	3.10E-04	7.76E-04	0.00E+00	1.62E-04	2.96E-04	0.00E+00
4040	599496.9	4175859	0.001488	4.01E-03	0.00E+00	1.49E-03	4.01E-03	0.00E+00	2.42E-04	6.06E-04	0.00E+00	1.26E-04	2.31E-04	0.00E+00
4041	599510.4	4175863	0.001578	4.25E-03	0.00E+00	1.58E-03	4.25E-03	0.00E+00	2.57E-04	6.43E-04	0.00E+00	1.34E-04	2.45E-04	0.00E+00
4042	599524	4175868	0.001674	4.51E-03	0.00E+00	1.67E-03	4.51E-03	0.00E+00	2.72E-04	6.82E-04	0.00E+00	1.42E-04	2.60E-04	0.00E+00
4043	599537.5	4175872	0.001742	4.70E-03	0.00E+00	1.74E-03	4.70E-03	0.00E+00	2.83E-04	7.10E-04	0.00E+00	1.48E-04	2.71E-04	0.00E+00
4044	599498.6	4175849	0.001383	3.73E-03	0.00E+00	1.38E-03	3.73E-03	0.00E+00	2.25E-04	5.64E-04	0.00E+00	1.17E-04	2.15E-04	0.00E+00
4045	599513	4175854	0.001474	3.97E-03	0.00E+00	1.47E-03	3.97E-03	0.00E+00	2.40E-04	6.01E-04	0.00E+00	1.25E-04	2.29E-04	0.00E+00
4046	599527.4	4175859	0.001561	4.21E-03	0.00E+00	1.56E-03	4.21E-03	0.00E+00	2.54E-04	6.36E-04	0.00E+00	1.33E-04	2.43E-04	0.00E+00
4047	599541.8	4175864	0.00162	4.37E-03	0.00E+00	1.62E-03	4.37E-03	0.00E+00	2.64E-04	6.61E-04	0.00E+00	1.38E-04	2.52E-04	0.00E+00
4048	599498.6	4175839	0.00128	3.45E-03	0.00E+00	1.28E-03	3.45E-03	0.00E+00	2.08E-04	5.22E-04	0.00E+00	1.09E-04	1.99E-04	0.00E+00
4049	599512.7	4175844	0.001365	3.68E-03	0.00E+00	1.36E-03	3.68E-03	0.00E+00	2.22E-04	5.56E-04	0.00E+00	1.16E-04	2.12E-04	0.00E+00
4050	599526.8	4175849	0.001442	3.89E-03	0.00E+00	1.44E-03	3.89E-03	0.00E+00	2.35E-04	5.88E-04	0.00E+00	1.22E-04	2.24E-04	0.00E+00
4051	599540.9	4175853	0.001496	4.03E-03	0.00E+00	1.50E-03	4.03E-03	0.00E+00	2.43E-04	6.10E-04	0.00E+00	1.27E-04	2.32E-04	0.00E+00
4052	599484.9	4175825	0.001122	3.02E-03	0.00E+00	1.12E-03	3.02E-03	0.00E+00	1.82E-04	4.57E-04	0.00E+00	9.52E-05	1.74E-04	0.00E+00
4053	599498.7	4175829	0.001192	3.21E-03	0.00E+00	1.19E-03	3.21E-03	0.00E+00	1.94E-04	4.86E-04	0.00E+00	1.01E-04	1.85E-04	0.00E+00
4054	599512.5	4175834	0.001269	3.42E-03	0.00E+00	1.27E-03	3.42E-03	0.00E+00	2.06E-04	5.17E-04	0.00E+00	1.08E-04	1.97E-04	0.00E+00
4055	599526.3	4175838	0.001337	3.61E-03	0.00E+00	1.34E-03	3.61E-03	0.00E+00	2.18E-04	5.45E-04	0.00E+00	1.14E-04	2.08E-04	0.00E+00
4056	599540.1	4175843	0.001386	3.74E-03	0.00E+00	1.39E-03	3.74E-03	0.00E+00	2.25E-04	5.65E-04	0.00E+00	1.18E-04	2.15E-04	0.00E+00
4057	599485.7	4175815	0.001055	2.84E-03	0.00E+00	1.05E-03	2.84E-03	0.00E+00	1.72E-04	4.30E-04	0.00E+00	8.95E-05	1.64E-04	0.00E+00
4058	599500.3	4175819	0.001123	3.03E-03	0.00E+00	1.12E-03	3.03E-03	0.00E+00	1.83E-04	4.58E-04	0.00E+00	9.53E-05	1.74E-04	0.00E+00
4059	599514.8	4175824	0.001195	3.22E-03	0.00E+00	1.20E-03	3.22E-03	0.00E+00	1.94E-04	4.87E-04	0.00E+00	1.01E-04	1.86E-04	0.00E+00
4060	599529.3	4175829	0.001257	3.39E-03	0.00E+00	1.26E-03	3.39E-03	0.00E+00	2.04E-04	5.12E-04	0.00E+00	1.07E-04	1.95E-04	0.00E+00
4061	599543.9	4175834	0.001301	3.51E-03	0.00E+00	1.30E-03	3.51E-03	0.00E+00	2.12E-04	5.30E-04	0.00E+00	1.10E-04	2.02E-04	0.00E+00
4062	599486.1	4175805	0.000991	2.67E-03	0.00E+00	9.91E-04	2.67E-03	0.00E+00	1.61E-04	4.04E-04	0.00E+00	8.41E-05	1.54E-04	0.00E+00
4063	599500.3	4175809	0.001053	2.84E-03	0.00E+00	1.05E-03	2.84E-03	0.00E+00	1.71E-04	4.29E-04	0.00E+00	8.94E-05	1.64E-04	0.00E+00
4064	599514.6	4175814	0.001117	3.01E-03	0.00E+00	1.12E-03	3.01E-03	0.00E+00	1.82E-04	4.55E-04	0.00E+00	9.49E-05	1.74E-04	0.00E+00
4065	599528.8	4175819	0.001172	3.16E-03	0.00E+00	1.17E-03	3.16E-03	0.00E+00	1.91E-04	4.78E-04	0.00E+00	9.95E-05	1.82E-04	0.00E+00
4066	599543	4175824	0.001213	3.27E-03	0.00E+00	1.21E-03	3.27E-03	0.00E+00	1.97E-04	4.94E-04	0.00E+00	1.03E-04	1.88E-04	0.00E+00
4067	599486.4	4175795	0.000928	2.50E-03	0.00E+00	9.28E-04	2.50E-03	0.00E+00	1.51E-04	3.78E-04	0.00E+00	7.88E-05	1.44E-04	0.00E+00
4068	599500.4	4175799	0.00099	2.67E-03	0.00E+00	9.90E-04	2.67E-03	0.00E+00	1.61E-04	4.04E-04	0.00E+00	8.41E-05	1.54E-04	0.00E+00
4069	599514.4	4175804	0.001048	2.83E-03	0.00E+00	1.05E-03	2.83E-03	0.00E+00	1.71E-04	4.27E-04	0.00E+00	8.90E-05	1.63E-04	0.00E+00
4070	599528.4	4175809	0.001097	2.96E-03	0.00E+00	1.10E-03	2.96E-03	0.00E+00	1.78E-04	4.47E-04	0.00E+00	9.31E-05	1.70E-04	0.00E+00
4071	599542.4	4175813	0.001133	3.06E-03	0.00E+00	1.13E-03	3.06E-03	0.00E+00	1.84E-04	4.62E-04	0.00E+00	9.62E-05	1.76E-04	0.00E+00
4072	599487.3	4175785	0.000873	2.35E-03	0.00E+00	8.73E-04	2.35E-03	0.00E+00	1.42E-04	3.56E-04	0.00E+00	7.41E-05	1.36E-04	0.00E+00
4073	599501.9	4175790	0.00094	2.53E-03	0.00E+00	9.40E-04	2.53E-03	0.00E+00	1.53E-04	3.83E-04	0.00E+00	7.98E-05	1.46E-04	0.00E+00
4074	599516.5	4175794	0.000997	2.69E-03	0.00E+00	9.97E-04	2.69E-03	0.00E+00	1.62E-04	4.07E-04	0.00E+00	8.47E-05	1.55E-04	0.00E+00
4075	599531.1	4175799	0.001036	2.79E-03	0.00E+00	1.04E-03	2.79E-03	0.00E+00	1.68E-04	4.22E-04	0.00E+00	8.79E-05	1.61E-04	0.00E+00
4076	599545.7	4175804	0.00107	2.88E-03	0.00E+00	1.07E-03	2.88E-03	0.00E+00	1.74E-04	4.36E-04	0.00E+00	9.08E-05	1.66E-04	0.00E+00
4077	599487.6	4175775	0.000823	2.22E-03	0.00E+00	8.23E-04	2.22E-03	0.00E+00	1.34E-04	3.35E-04	0.00E+00	6.99E-05	1.28E-04	0.00E+00
4078	599502	4175779	0.000888	2.40E-03	0.00E+00	8.88E-04	2.40E-03	0.00E+00	1.45E-04	3.62E-04	0.00E+00	7.54E-05	1.38E-04	0.00E+00
4079	599516.3	4175784	0.000939	2.53E-03	0.00E+00	9.39E-04	2.53E-03	0.00E+00	1.53E-04	3.83E-04	0.00E+00	7.97E-05	1.46E-04	0.00E+00
4080	599530.7	4175789	0.000972	2.62E-03	0.00E+00	9.72E-04	2.62E-03	0.00E+00	1.58E-04	3.96E-04	0.00E+00	8.26E-05	1.51E-04	0.00E+00
4081	599545.1	4175794	0.001002	2.70E-03	0.00E+00	1.00E-03	2.70E-03	0.00E+00	1.63E-04	4.09E-04	0.00E+00	8.51E-05	1.56E-04	0.00E+00
4082	599488	4175765	0.000782	2.11E-03	0.00E+00	7.82E-04	2.11E-03	0.00E+00	1.27E-04	3.19E-04	0.00E+00	6.64E-05	1.22E-04	0.00E+00
4083	599502.1	4175769	0.000843	2.27E-03	0.00E+00	8.43E-04	2.27E-03	0.00E+00	1.37E-04	3.44E-04	0.00E+00	7.16E-05	1.31E-04	0.00E+00
4084	599516.2	4175774	0.000885	2.39E-03	0.00E+00	8.85E-04	2.39E-03	0.00E+00	1.44E-04	3.61E-04	0.00E+00	7.51E-05	1.37E-04	0.00E+00
4085	599530.4	4175779	0.000914	2.47E-03	0.00E+00	9.14E-04	2.47E-03	0.00E+00	1.49E-04	3.73E-04	0.00E+00	7.77E-05	1.42E-04	0.00E+00
4086	599544.5	4175783	0.000941	2.54E-03	0.00E+00	9.41E-04	2.54E-03	0.00E+00	1.53E-04	3.84E-04	0.00E+00	7.99E-05	1.46E-04	0.00E+00
4087	599488.8	4175755	0.000746	2.01E-03	0.00E+00	7.46E-04	2.01E-03	0.00E+00	1.21E-04	3.04E-04	0.00E+00	6.34E-05	1.16E-04	0.00E+00
4088	599503.5	4175760	0.000805	2.17E-03	0.00E+00	8.05E-04	2.17E-03	0.00E+00	1.31E-04	3.28E-04	0.00E+00	6.84E-05	1.25E-04	0.00E+00
4089	599518.1	4175765	0.000839	2.26E-03	0.00E+00	8.39E-04	2.26E-03	0.00E+00	1.37E-04	3.42E-04	0.00E+00	7.12E-05	1.30E-04	0.00E+00
4090	599532.8	4175769	0.000865	2.33E-03	0.00E+00	8.65E-04	2.33E-03	0.00E+00	1.41E-04	3.53E-04	0.00E+00	7.34E-05	1.34E-04	0.00E+00
4091	599547.5	4175774	0.000888	2.39E-03	0.00E+00	8.88E-04	2.39E-03	0.00E+00	1.44E-04	3.62E-04	0.00E+00	7.54E-05	1.38E-04	0.00E+00
4092	599489.1	4175745	0.000711	1.92E-03	0.00E+00	7.11E-04	1.92E-03	0.00E+00	1.16E-04	2.90E-04	0.00E+00	6.04E-05	1.10E-04	0.00E+00

4093	599503.6	4175750	0.000766	2.07E-03	0.00E+00	7.66E-04	2.07E-03	0.00E+00	1.25E-04	3.12E-04	0.00E+00	6.51E-05	1.19E-04	0.00E+00
4094	599518	4175754	0.000793	2.14E-03	0.00E+00	7.93E-04	2.14E-03	0.00E+00	1.29E-04	3.23E-04	0.00E+00	6.73E-05	1.23E-04	0.00E+00
4095	599489.5	4175735	0.000673	1.82E-03	0.00E+00	6.73E-04	1.82E-03	0.00E+00	1.10E-04	2.74E-04	0.00E+00	5.72E-05	1.05E-04	0.00E+00
4096	599503.8	4175739	0.000727	1.96E-03	0.00E+00	7.27E-04	1.96E-03	0.00E+00	1.18E-04	2.96E-04	0.00E+00	6.17E-05	1.13E-04	0.00E+00
4097	599518	4175744	0.000751	2.02E-03	0.00E+00	7.51E-04	2.02E-03	0.00E+00	1.22E-04	3.06E-04	0.00E+00	6.38E-05	1.17E-04	0.00E+00
4098	599489.9	4175725	0.000638	1.72E-03	0.00E+00	6.38E-04	1.72E-03	0.00E+00	1.04E-04	2.60E-04	0.00E+00	5.42E-05	9.92E-05	0.00E+00
4099	599504	4175729	0.000689	1.86E-03	0.00E+00	6.89E-04	1.86E-03	0.00E+00	1.12E-04	2.81E-04	0.00E+00	5.85E-05	1.07E-04	0.00E+00
4100	599490.6	4175715	0.000608	1.64E-03	0.00E+00	6.08E-04	1.64E-03	0.00E+00	9.89E-05	2.48E-04	0.00E+00	5.16E-05	9.45E-05	0.00E+00
4101	599505.2	4175720	0.000657	1.77E-03	0.00E+00	6.57E-04	1.77E-03	0.00E+00	1.07E-04	2.68E-04	0.00E+00	5.58E-05	1.02E-04	0.00E+00
4102	599475.6	4175712	0.000574	1.55E-03	0.00E+00	5.74E-04	1.55E-03	0.00E+00	9.33E-05	2.34E-04	0.00E+00	4.87E-05	8.92E-05	0.00E+00
4103	599491	4175705	0.000583	1.57E-03	0.00E+00	5.83E-04	1.57E-03	0.00E+00	9.48E-05	2.38E-04	0.00E+00	4.95E-05	9.05E-05	0.00E+00
4104	599505.4	4175710	0.000627	1.69E-03	0.00E+00	6.27E-04	1.69E-03	0.00E+00	1.02E-04	2.56E-04	0.00E+00	5.32E-05	9.74E-05	0.00E+00
4105	599476.1	4175702	0.000551	1.49E-03	0.00E+00	5.51E-04	1.49E-03	0.00E+00	8.97E-05	2.25E-04	0.00E+00	4.68E-05	8.56E-05	0.00E+00
4106	599492.1	4175685	0.000537	1.45E-03	0.00E+00	5.37E-04	1.45E-03	0.00E+00	8.74E-05	2.19E-04	0.00E+00	4.56E-05	8.35E-05	0.00E+00
4107	599506.7	4175690	0.000576	1.55E-03	0.00E+00	5.76E-04	1.55E-03	0.00E+00	9.37E-05	2.35E-04	0.00E+00	4.89E-05	8.95E-05	0.00E+00
4108	599477.1	4175682	0.000509	1.37E-03	0.00E+00	5.09E-04	1.37E-03	0.00E+00	8.28E-05	2.08E-04	0.00E+00	4.32E-05	7.91E-05	0.00E+00
4109	599492.9	4175665	0.000493	1.33E-03	0.00E+00	4.93E-04	1.33E-03	0.00E+00	8.02E-05	2.01E-04	0.00E+00	4.18E-05	7.66E-05	0.00E+00
4110	599507.2	4175670	0.000524	1.41E-03	0.00E+00	5.24E-04	1.41E-03	0.00E+00	8.52E-05	2.14E-04	0.00E+00	4.45E-05	8.14E-05	0.00E+00
4111	599478.1	4175662	0.000471	1.27E-03	0.00E+00	4.71E-04	1.27E-03	0.00E+00	7.66E-05	1.92E-04	0.00E+00	4.00E-05	7.32E-05	0.00E+00
4112	599494	4175645	0.00045	1.21E-03	0.00E+00	4.50E-04	1.21E-03	0.00E+00	7.33E-05	1.84E-04	0.00E+00	3.83E-05	7.00E-05	0.00E+00
4113	599508.5	4175650	0.000476	1.28E-03	0.00E+00	4.76E-04	1.28E-03	0.00E+00	7.75E-05	1.94E-04	0.00E+00	4.04E-05	7.40E-05	0.00E+00
4114	599479.1	4175642	0.000433	1.17E-03	0.00E+00	4.33E-04	1.17E-03	0.00E+00	7.04E-05	1.76E-04	0.00E+00	3.68E-05	6.73E-05	0.00E+00
4115	599495.1	4175625	0.000411	1.11E-03	0.00E+00	4.11E-04	1.11E-03	0.00E+00	6.68E-05	1.67E-04	0.00E+00	3.49E-05	6.38E-05	0.00E+00
4116	599509.8	4175630	0.000429	1.16E-03	0.00E+00	4.29E-04	1.16E-03	0.00E+00	6.98E-05	1.75E-04	0.00E+00	3.64E-05	6.67E-05	0.00E+00
4117	599480	4175622	0.000399	1.08E-03	0.00E+00	3.99E-04	1.08E-03	0.00E+00	6.49E-05	1.63E-04	0.00E+00	3.39E-05	6.20E-05	0.00E+00
4118	599496	4175605	0.000384	1.03E-03	0.00E+00	3.84E-04	1.03E-03	0.00E+00	6.24E-05	1.56E-04	0.00E+00	3.26E-05	5.96E-05	0.00E+00
4119	599510.3	4175610	0.000397	1.07E-03	0.00E+00	3.97E-04	1.07E-03	0.00E+00	6.46E-05	1.62E-04	0.00E+00	3.37E-05	6.17E-05	0.00E+00
4120	599481	4175602	0.000373	1.01E-03	0.00E+00	3.73E-04	1.01E-03	0.00E+00	6.07E-05	1.52E-04	0.00E+00	3.17E-05	5.79E-05	0.00E+00
4121	599497	4175585	0.00036	9.72E-04	0.00E+00	3.60E-04	9.72E-04	0.00E+00	5.86E-05	1.47E-04	0.00E+00	3.06E-05	5.60E-05	0.00E+00
4122	599511.6	4175590	0.000373	1.01E-03	0.00E+00	3.73E-04	1.01E-03	0.00E+00	6.07E-05	1.52E-04	0.00E+00	3.17E-05	5.80E-05	0.00E+00
4123	599526.2	4175595	0.000397	1.07E-03	0.00E+00	3.97E-04	1.07E-03	0.00E+00	6.46E-05	1.62E-04	0.00E+00	3.37E-05	6.17E-05	0.00E+00
4124	599482	4175582	0.00035	9.43E-04	0.00E+00	3.50E-04	9.43E-04	0.00E+00	5.69E-05	1.43E-04	0.00E+00	2.97E-05	5.43E-05	0.00E+00
4125	599497.9	4175565	0.00034	9.18E-04	0.00E+00	3.40E-04	9.18E-04	0.00E+00	5.54E-05	1.39E-04	0.00E+00	2.89E-05	5.29E-05	0.00E+00
4126	599512.2	4175570	0.000353	9.53E-04	0.00E+00	3.53E-04	9.53E-04	0.00E+00	5.75E-05	1.44E-04	0.00E+00	3.00E-05	5.49E-05	0.00E+00
4127	599526.5	4175574	0.000373	1.01E-03	0.00E+00	3.73E-04	1.01E-03	0.00E+00	6.06E-05	1.52E-04	0.00E+00	3.17E-05	5.79E-05	0.00E+00
4128	599483	4175562	0.000329	8.88E-04	0.00E+00	3.29E-04	8.88E-04	0.00E+00	5.36E-05	1.34E-04	0.00E+00	2.80E-05	5.12E-05	0.00E+00
4129	599499	4175545	0.000324	8.74E-04	0.00E+00	3.24E-04	8.74E-04	0.00E+00	5.27E-05	1.32E-04	0.00E+00	2.75E-05	5.04E-05	0.00E+00
4130	599513.4	4175550	0.000336	9.05E-04	0.00E+00	3.36E-04	9.05E-04	0.00E+00	5.46E-05	1.37E-04	0.00E+00	2.85E-05	5.22E-05	0.00E+00
4131	599527.9	4175555	0.000352	9.48E-04	0.00E+00	3.52E-04	9.48E-04	0.00E+00	5.72E-05	1.43E-04	0.00E+00	2.99E-05	5.46E-05	0.00E+00
4132	599484	4175542	0.000314	8.46E-04	0.00E+00	3.14E-04	8.46E-04	0.00E+00	5.11E-05	1.28E-04	0.00E+00	2.66E-05	4.88E-05	0.00E+00
4133	599500	4175525	0.000308	8.30E-04	0.00E+00	3.08E-04	8.30E-04	0.00E+00	5.01E-05	1.26E-04	0.00E+00	2.61E-05	4.78E-05	0.00E+00
4134	599514.7	4175530	0.000319	8.61E-04	0.00E+00	3.19E-04	8.61E-04	0.00E+00	5.19E-05	1.30E-04	0.00E+00	2.71E-05	4.96E-05	0.00E+00
4135	599529.3	4175535	0.000332	8.95E-04	0.00E+00	3.32E-04	8.95E-04	0.00E+00	5.40E-05	1.35E-04	0.00E+00	2.82E-05	5.16E-05	0.00E+00
4136	599485	4175522	0.000297	8.02E-04	0.00E+00	2.97E-04	8.02E-04	0.00E+00	4.84E-05	1.21E-04	0.00E+00	2.52E-05	4.62E-05	0.00E+00
4137	599500.9	4175505	0.000292	7.88E-04	0.00E+00	2.92E-04	7.88E-04	0.00E+00	4.75E-05	1.19E-04	0.00E+00	2.48E-05	4.54E-05	0.00E+00
4138	599515.3	4175510	0.000303	8.17E-04	0.00E+00	3.03E-04	8.17E-04	0.00E+00	4.93E-05	1.24E-04	0.00E+00	2.57E-05	4.71E-05	0.00E+00
4139	599529.7	4175515	0.000313	8.43E-04	0.00E+00	3.13E-04	8.43E-04	0.00E+00	5.09E-05	1.28E-04	0.00E+00	2.66E-05	4.86E-05	0.00E+00
4140	599485.9	4175502	0.000281	7.59E-04	0.00E+00	2.81E-04	7.59E-04	0.00E+00	4.58E-05	1.15E-04	0.00E+00	2.39E-05	4.37E-05	0.00E+00
4141	599501.9	4175485	0.000277	7.46E-04	0.00E+00	2.77E-04	7.46E-04	0.00E+00	4.50E-05	1.13E-04	0.00E+00	2.35E-05	4.30E-05	0.00E+00
4142	599516.5	4175490	0.000287	7.74E-04	0.00E+00	2.87E-04	7.74E-04	0.00E+00	4.67E-05	1.17E-04	0.00E+00	2.44E-05	4.46E-05	0.00E+00
4143	599531.1	4175495	0.000295	7.95E-04	0.00E+00	2.95E-04	7.95E-04	0.00E+00	4.80E-05	1.20E-04	0.00E+00	2.51E-05	4.58E-05	0.00E+00
4144	599486.9	4175482	0.000267	7.19E-04	0.00E+00	2.67E-04	7.19E-04	0.00E+00	4.34E-05	1.09E-04	0.00E+00	2.27E-05	4.15E-05	0.00E+00
4145	599502.8	4175465	0.00026	7.02E-04	0.00E+00	2.60E-04	7.02E-04	0.00E+00	4.24E-05	1.06E-04	0.00E+00	2.21E-05	4.05E-05	0.00E+00
4146	599517.2	4175470	0.000271	7.30E-04	0.00E+00	2.71E-04	7.30E-04	0.00E+00	4.40E-05	1.10E-04	0.00E+00	2.30E-05	4.21E-05	0.00E+00
4147	599531.5	4175475	0.000279	7.51E-04	0.00E+00	2.79E-04	7.51E-04	0.00E+00	4.53E-05	1.14E-04	0.00E+00	2.37E-05	4.33E-05	0.00E+00
4148	599768.2	4175553	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.94E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
4149	599487.9	4175462	0.000252	6.78E-04	0.00E+00	2.52E-04	6.78E-04	0.00E+00	4.09E-05	1.03E-04	0.00E+00	2.14E-05	3.91E-05	0.00E+00
4150	599503.9	4175445	0.000244	6.58E-04	0.00E+00	2.44E-04	6.58E-04	0.00E+00	3.97E-05	9.95E-05	0.00E+00	2.07E-05	3.79E-05	0.00E+00
4151	599518.4	4175450	0.000254	6.84E-04	0.00E+00	2.54E-04	6.84E-04	0.00E+00	4.13E-05	1.03E-04	0.00E+00	2.16E-05	3.94E-05	0.00E+00
4152	599532.9	4175455	0.000264	7.11E-04	0.00E+00	2.64E-04	7.11E-04	0.00E+00	4.29E-05	1.07E-04	0.00E+00	2.24E-05	4.09E-05	0.00E+00
4153	599569.1	4175467	0.000272	7.34E-04	0.00E+00	2.72E-04	7.34E-04	0.00E+00	4.43E-05	1.11E-04	0.00E+00	2.31E-05	4.23E-05	0.00E+00
4154	599764.8	4175532	0.000134	3.61E-04	0.00E+00	1.34E-04	3.61E-04	0.00E+00	2.18E-05	5.46E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
4155	599488.9	4175442	0.000237	6.39E-04	0.00E+00	2.37E-04	6.39E-04	0.00E+00	3.86E-05	9.66E-05	0.00E+00	2.01E-05	3.68E-05	0.00E+00
4156	599504.9	4175425	0.000231	6.23E-04	0.00E+00	2.31E-04	6.23E-04	0.00E+00	3.76E-05	9.42E-05	0.00E+00	1.96E-05	3.59E-05	0.00E+00
4157	599519.6	4175430	0.000239	6.45E-04	0.00E+00	2.39E-04	6.45E-04	0.00E+00	3.89E-05	9.75E-05	0.00E+00	2.03E-05	3.72E-05	0.00E+00
4158	599534.2	4175435	0.000248	6.70E-04	0.00E+00	2.48E-04	6.70E-04	0.00E+00	4.04E-05	1.01E-04	0.00E+00	2.11E-05	3.86E-05	0.00E+00
4159	599761.1	4175510	0.000135	3.65E-04	0.00E+00	1.35E-04	3.65E-04	0.00E+00	2.20E-05	5.51E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
4160	599489.9	4175422	0.000225	6.08E-04	0.00E+00	2.25E-04	6.08E-04	0.00E+00	3.67E-05	9.19E-05	0.00E+00	1.91E-05	3.50E-05	0.00E+00
4161	599505.8	4175405	0.000219	5.90E-04	0.00E+00	2.19E-04	5.90E-04	0.00E+00	3.56E-05	8.92E-05	0.00E+00	1.86E-05	3.40E-05	0.00E+00
4162	599520.2	4175410	0.000225	6.08E-04	0.00E+00	2.25E-04	6.08E-04	0.00E+00	3.67E-05	9.19E-05	0.00E+00	1.91E-05	3.50E-05	0.00E+00
4163	599534.6	4175415	0.000234	6.30E-04	0.00E+00	2.34E-04	6.30E-04	0.00E+00	3.80E-05	9.53E-05	0.00E+00	1.98E-05	3.63E-05	0.00E+00
4164	599490.8	4175402	0.000214	5.78E-04	0.00E+00	2.14E-04	5.78E-04	0.00E+00	3.49E-05	8.74E-05	0.00E+00	1.82E-05	3.33E-05	0.00E+00
4165	599506.8	4175385	0.000207	5.59E-04	0.00E+00	2.07E-04	5.59E-04	0.00E+00	3.37E-05	8.45E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
4166	599521.4	4175390	0.000213	5.73E-04	0.00E+00	2.13E-04	5.73E-04	0.00E+00	3.46E-05	8.66E-05	0.00E+00	1.80E-05	3.30E-05	0.00E+00
4167	599536	4175395	0.000219	5.91E-04	0.00E+00	2.19E-04	5.91E-04	0.00E+00	3.56E-05	8.93E-05	0.00E+00	1.86E-05	3.40E-05	0.00E+00
4168	599491.8	4175382	0.000204	5.50E-04	0.00E+00	2.04E-04	5.50E-04	0.00E+00	3.32E-05	8.32E-05	0.00E+00	1.73E-05	3.17E-05	0.00E+00
4169	599507.9	4175365	0.000198	5.33E-04	0.00E+00	1.98E-04	5.33E-04	0.00E+00	3.22E-05	8.06E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
4170	599522.6	4175370	0.000203	5.46E-04	0.00E+00	2.03E-04	5.46E-04	0.00E+00	3.29E-05	8.26E-05	0.00E+00	1.72E-05	3.15E-05	0.00E+00
4171	599537.3	4175375	0.000207	5.59E-04	0.00E+00	2.07E-04	5.59E-04	0.00E+00	3.37E-05	8.45E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
4172	599772.3	4175453	0.000126	3.40E-04	0.00E+00	1.26E-04	3.40E-04	0.00E+00	2.05E-05	5.14E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
4173	599492.8	4175362	0.000194	5.23E-04	0.00E+00	1.94E-04	5.23E-04	0.00E+00	3.15E-05	7.91E-05	0.00E+00	1.65E-05	3.01E-05	0.00E+00
4174	599508.8	4175345	0.000189	5.10E-04	0.00E+00	1.89E-04	5.10E-04	0.00E+00	3.08E-05	7.72E-05	0.00E+00	1.61E-05	2.94E-05	0.00E+00
4175	599523.3	4175350	0.000194	5.22E-04	0.00E+00	1.94E-04	5.22E-04	0.00E+00	3.15E-05	7.89E-05	0.00E+00	1.64E-05	3.01E-05	0.00E+00
4176	599777	4175434	0.000141	3.79E-04	0.00E+00	1.41E-04	3.79E-04	0.00E+00	2.29E-05	5.74E-05	0.00E+00	1.19E-05	2.19E-05	0.00E+00
4177	599493.8	4175342	0.000186	5.02E-04	0.00E+00	1.86E-04	5.02E-04	0.00E+00	3.03E-05	7.59E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
4178	599765.7	4175410	0.000182	4.91E-04	0.00E+00	1.82E-04	4.91E-04	0.00E+00	2.97E-05	7.43E-05	0.00E+00	1.55E-05	2.83E-05	0.00E+00
4179	599777.9	4175394	0.000158	4.26E-04	0.00E+00	1.58E-04	4.26E-04	0.00E+00	2.57E-05	6.44E-05	0.00E+00	1.34E-05	2.46E-05	0.00E+00
4180	599495.7	4175302	0.000173	4.65E-04	0.00E+00	1.73E-04	4.65E-04	0.00E+00	2.81E-05	7.03E-05	0.00E+00	1.46E-05	2.68E-05	0.00E+00
4181	599511.7	4175285	0.000169	4.55E-04	0.00E+00	1.69E-04	4.55E-04	0.00E+00	2.75E-05	6.89E-05	0.00E+00	1.43E-05	2.62E-05	0.00E+00
4182	599766.5	4175370	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.19E-05	5.50E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
4183	599781.1	4175375	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00

4184	599496.7	4175283	0.000166	4.47E-04	0.00E+00	1.66E-04	4.47E-04	0.00E+00	2.70E-05	6.76E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
4185	599512.8	4175265	0.000162	4.38E-04	0.00E+00	1.62E-04	4.38E-04	0.00E+00	2.64E-05	6.62E-05	0.00E+00	1.38E-05	2.52E-05	0.00E+00
4186	599769.5	4175350	0.000114	3.07E-04	0.00E+00	1.14E-04	3.07E-04	0.00E+00	1.85E-05	4.64E-05	0.00E+00	9.66E-06	1.77E-05	0.00E+00
4187	599497.7	4175263	0.000159	4.30E-04	0.00E+00	1.59E-04	4.30E-04	0.00E+00	2.59E-05	6.50E-05	0.00E+00	1.35E-05	2.48E-05	0.00E+00
4188	599513.7	4175245	0.000156	4.21E-04	0.00E+00	1.56E-04	4.21E-04	0.00E+00	2.54E-05	6.36E-05	0.00E+00	1.33E-05	2.43E-05	0.00E+00
4189	599542.7	4175255	0.000165	4.44E-04	0.00E+00	1.65E-04	4.44E-04	0.00E+00	2.68E-05	6.71E-05	0.00E+00	1.40E-05	2.56E-05	0.00E+00
4190	599782	4175334	9.68E-05	2.61E-04	0.00E+00	9.68E-05	2.61E-04	0.00E+00	1.58E-05	3.95E-05	0.00E+00	8.22E-06	1.50E-05	0.00E+00
4191	599498.7	4175243	0.000153	4.14E-04	0.00E+00	1.53E-04	4.14E-04	0.00E+00	2.50E-05	6.25E-05	0.00E+00	1.30E-05	2.38E-05	0.00E+00
4192	599514.7	4175225	0.00015	4.04E-04	0.00E+00	1.50E-04	4.04E-04	0.00E+00	2.44E-05	6.11E-05	0.00E+00	1.27E-05	2.33E-05	0.00E+00
4193	599543.9	4175235	0.000158	4.27E-04	0.00E+00	1.58E-04	4.27E-04	0.00E+00	2.58E-05	6.46E-05	0.00E+00	1.34E-05	2.46E-05	0.00E+00
4194	599733.8	4175298	9.77E-05	2.63E-04	0.00E+00	9.77E-05	2.63E-04	0.00E+00	1.59E-05	3.98E-05	0.00E+00	8.29E-06	1.52E-05	0.00E+00
4195	599770.4	4175310	9.43E-05	2.54E-04	0.00E+00	9.43E-05	2.54E-04	0.00E+00	1.53E-05	3.85E-05	0.00E+00	8.01E-06	1.47E-05	0.00E+00
4196	599499.7	4175223	0.000147	3.96E-04	0.00E+00	1.47E-04	3.96E-04	0.00E+00	2.39E-05	6.00E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
4197	599515.6	4175205	0.000144	3.87E-04	0.00E+00	1.44E-04	3.87E-04	0.00E+00	2.33E-05	5.85E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
4198	599544.5	4175215	0.000152	4.09E-04	0.00E+00	1.52E-04	4.09E-04	0.00E+00	2.47E-05	6.19E-05	0.00E+00	1.29E-05	2.36E-05	0.00E+00
4199	599732.4	4175277	9.22E-05	2.48E-04	0.00E+00	9.22E-05	2.48E-04	0.00E+00	1.50E-05	3.76E-05	0.00E+00	7.82E-06	1.43E-05	0.00E+00
4200	599783	4175294	9.16E-05	2.47E-04	0.00E+00	9.16E-05	2.47E-04	0.00E+00	1.49E-05	3.73E-05	0.00E+00	7.78E-06	1.42E-05	0.00E+00
4201	599500.6	4175203	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.29E-05	5.75E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
4202	599516.6	4175185	0.000138	3.73E-04	0.00E+00	1.38E-04	3.73E-04	0.00E+00	2.25E-05	5.64E-05	0.00E+00	1.18E-05	2.15E-05	0.00E+00
4203	599669.5	4175236	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.93E-06	1.63E-05	0.00E+00
4204	599735	4175258	9.02E-05	2.43E-04	0.00E+00	9.02E-05	2.43E-04	0.00E+00	1.47E-05	3.68E-05	0.00E+00	7.65E-06	1.40E-05	0.00E+00
4205	599785.9	4175275	9.97E-05	2.69E-04	0.00E+00	9.97E-05	2.69E-04	0.00E+00	1.62E-05	4.06E-05	0.00E+00	8.47E-06	1.55E-05	0.00E+00
4206	599501.6	4175183	0.000136	3.67E-04	0.00E+00	1.36E-04	3.67E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
4207	599517.7	4175165	0.000134	3.60E-04	0.00E+00	1.34E-04	3.60E-04	0.00E+00	2.18E-05	5.45E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
4208	599656.9	4175212	9.52E-05	2.57E-04	0.00E+00	9.52E-05	2.57E-04	0.00E+00	1.55E-05	3.88E-05	0.00E+00	8.09E-06	1.48E-05	0.00E+00
4209	599671.5	4175216	9.01E-05	2.43E-04	0.00E+00	9.01E-05	2.43E-04	0.00E+00	1.47E-05	3.67E-05	0.00E+00	7.65E-06	1.40E-05	0.00E+00
4210	599737.5	4175238	9.07E-05	2.45E-04	0.00E+00	9.07E-05	2.45E-04	0.00E+00	1.48E-05	3.70E-05	0.00E+00	7.70E-06	1.41E-05	0.00E+00
4211	599502.6	4175163	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.14E-05	5.35E-05	0.00E+00	1.11E-05	2.04E-05	0.00E+00
4212	599518.6	4175145	0.000129	3.49E-04	0.00E+00	1.29E-04	3.49E-04	0.00E+00	2.10E-05	5.27E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
4213	599533.1	4175150	0.000133	3.58E-04	0.00E+00	1.33E-04	3.58E-04	0.00E+00	2.16E-05	5.41E-05	0.00E+00	1.13E-05	2.06E-05	0.00E+00
4214	599656.4	4175191	9.1E-05	2.45E-04	0.00E+00	9.10E-05	2.45E-04	0.00E+00	1.48E-05	3.71E-05	0.00E+00	7.72E-06	1.41E-05	0.00E+00
4215	599670.9	4175196	8.35E-05	2.25E-04	0.00E+00	8.35E-05	2.25E-04	0.00E+00	1.36E-05	3.41E-05	0.00E+00	7.09E-06	1.30E-05	0.00E+00
4216	599736.2	4175218	9.01E-05	2.43E-04	0.00E+00	9.01E-05	2.43E-04	0.00E+00	1.47E-05	3.67E-05	0.00E+00	7.65E-06	1.40E-05	0.00E+00
4217	599779.7	4175232	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.30E-05	0.00E+00	8.96E-06	1.64E-05	0.00E+00
4218	599794.2	4175237	0.00011	2.97E-04	0.00E+00	1.10E-04	2.97E-04	0.00E+00	1.79E-05	4.50E-05	0.00E+00	9.36E-06	1.71E-05	0.00E+00
4219	599503.6	4175143	0.000127	3.42E-04	0.00E+00	1.27E-04	3.42E-04	0.00E+00	2.06E-05	5.17E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
4220	599519.6	4175125	0.000125	3.38E-04	0.00E+00	1.25E-04	3.38E-04	0.00E+00	2.04E-05	5.11E-05	0.00E+00	1.06E-05	1.95E-05	0.00E+00
4221	599658.3	4175172	9.1E-05	2.45E-04	0.00E+00	9.10E-05	2.45E-04	0.00E+00	1.48E-05	3.71E-05	0.00E+00	7.73E-06	1.41E-05	0.00E+00
4222	599672.9	4175176	8.61E-05	2.32E-04	0.00E+00	8.61E-05	2.32E-04	0.00E+00	1.40E-05	3.51E-05	0.00E+00	7.31E-06	1.34E-05	0.00E+00
4223	599738.6	4175198	9.06E-05	2.44E-04	0.00E+00	9.06E-05	2.44E-04	0.00E+00	1.47E-05	3.69E-05	0.00E+00	7.69E-06	1.41E-05	0.00E+00
4224	599775.1	4175210	0.000105	2.83E-04	0.00E+00	1.05E-04	2.83E-04	0.00E+00	1.71E-05	4.28E-05	0.00E+00	8.91E-06	1.63E-05	0.00E+00
4225	599504.6	4175123	0.000122	3.30E-04	0.00E+00	1.22E-04	3.30E-04	0.00E+00	1.99E-05	4.99E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
4226	599520.6	4175106	0.000122	3.28E-04	0.00E+00	1.22E-04	3.28E-04	0.00E+00	1.98E-05	4.96E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
4227	599623.5	4175140	0.00011	2.97E-04	0.00E+00	1.10E-04	2.97E-04	0.00E+00	1.79E-05	4.50E-05	0.00E+00	9.36E-06	1.71E-05	0.00E+00
4228	599638.2	4175145	0.000104	2.80E-04	0.00E+00	1.04E-04	2.80E-04	0.00E+00	1.69E-05	4.23E-05	0.00E+00	8.81E-06	1.61E-05	0.00E+00
4229	599652.9	4175149	9.89E-05	2.67E-04	0.00E+00	9.89E-05	2.67E-04	0.00E+00	1.61E-05	4.03E-05	0.00E+00	8.39E-06	1.54E-05	0.00E+00
4230	599667.6	4175154	9.47E-05	2.55E-04	0.00E+00	9.47E-05	2.55E-04	0.00E+00	1.54E-05	3.86E-05	0.00E+00	8.04E-06	1.47E-05	0.00E+00
4231	599733.7	4175176	8.77E-05	2.37E-04	0.00E+00	8.77E-05	2.37E-04	0.00E+00	1.43E-05	3.58E-05	0.00E+00	7.45E-06	1.36E-05	0.00E+00
4232	599777.7	4175191	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.36E-05	0.00E+00	9.08E-06	1.66E-05	0.00E+00
4233	599505.5	4175103	0.000118	3.19E-04	0.00E+00	1.18E-04	3.19E-04	0.00E+00	1.92E-05	4.82E-05	0.00E+00	1.00E-05	1.84E-05	0.00E+00
4234	599623.4	4175119	0.000109	2.93E-04	0.00E+00	1.09E-04	2.93E-04	0.00E+00	1.77E-05	4.43E-05	0.00E+00	9.22E-06	1.69E-05	0.00E+00
4235	599638	4175124	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.31E-05	0.00E+00	8.98E-06	1.64E-05	0.00E+00
4236	599652.5	4175129	0.000103	2.78E-04	0.00E+00	1.03E-04	2.78E-04	0.00E+00	1.68E-05	4.21E-05	0.00E+00	8.77E-06	1.60E-05	0.00E+00
4237	599667.1	4175134	0.000102	2.74E-04	0.00E+00	1.02E-04	2.74E-04	0.00E+00	1.65E-05	4.14E-05	0.00E+00	8.63E-06	1.58E-05	0.00E+00
4238	599681.6	4175139	9.78E-05	2.64E-04	0.00E+00	9.78E-05	2.64E-04	0.00E+00	1.59E-05	3.99E-05	0.00E+00	8.31E-06	1.52E-05	0.00E+00
4239	599696.2	4175143	9.5E-05	2.56E-04	0.00E+00	9.50E-05	2.56E-04	0.00E+00	1.55E-05	3.87E-05	0.00E+00	8.07E-06	1.48E-05	0.00E+00
4240	599710.7	4175148	9.46E-05	2.55E-04	0.00E+00	9.46E-05	2.55E-04	0.00E+00	1.54E-05	3.86E-05	0.00E+00	8.03E-06	1.47E-05	0.00E+00
4241	599725.3	4175153	9.18E-05	2.48E-04	0.00E+00	9.18E-05	2.48E-04	0.00E+00	1.49E-05	3.74E-05	0.00E+00	7.80E-06	1.43E-05	0.00E+00
4242	599739.8	4175158	9.48E-05	2.56E-04	0.00E+00	9.48E-05	2.56E-04	0.00E+00	1.54E-05	3.87E-05	0.00E+00	8.05E-06	1.47E-05	0.00E+00
4243	599776.2	4175170	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.74E-05	4.37E-05	0.00E+00	9.10E-06	1.67E-05	0.00E+00
4244	599790.8	4175175	0.000114	3.06E-04	0.00E+00	1.14E-04	3.06E-04	0.00E+00	1.85E-05	4.63E-05	0.00E+00	9.64E-06	1.76E-05	0.00E+00
4245	599805.3	4175180	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.94E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
4246	599819.9	4175184	0.000125	3.38E-04	0.00E+00	1.25E-04	3.38E-04	0.00E+00	2.04E-05	5.11E-05	0.00E+00	1.06E-05	1.95E-05	0.00E+00
4247	599834.4	4175189	0.000126	3.41E-04	0.00E+00	1.26E-04	3.41E-04	0.00E+00	2.05E-05	5.15E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
4248	599849	4175194	0.000125	3.37E-04	0.00E+00	1.25E-04	3.37E-04	0.00E+00	2.03E-05	5.10E-05	0.00E+00	1.06E-05	1.94E-05	0.00E+00
4249	599863.5	4175199	0.000121	3.26E-04	0.00E+00	1.21E-04	3.26E-04	0.00E+00	1.96E-05	4.92E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
4250	599878.1	4175204	0.000117	3.15E-04	0.00E+00	1.17E-04	3.15E-04	0.00E+00	1.90E-05	4.76E-05	0.00E+00	9.91E-06	1.81E-05	0.00E+00
4251	599892.6	4175209	0.000115	3.11E-04	0.00E+00	1.15E-04	3.11E-04	0.00E+00	1.88E-05	4.70E-05	0.00E+00	9.80E-06	1.79E-05	0.00E+00
4252	599907.2	4175213	0.000118	3.19E-04	0.00E+00	1.18E-04	3.19E-04	0.00E+00	1.93E-05	4.83E-05	0.00E+00	1.01E-05	1.84E-05	0.00E+00
4253	599921.7	4175218	0.000128	3.44E-04	0.00E+00	1.28E-04	3.44E-04	0.00E+00	2.08E-05	5.21E-05	0.00E+00	1.08E-05	1.99E-05	0.00E+00
4254	599936.3	4175223	0.000134	3.62E-04	0.00E+00	1.34E-04	3.62E-04	0.00E+00	2.18E-05	5.48E-05	0.00E+00	1.14E-05	2.09E-05	0.00E+00
4255	599972.7	4175235	0.000139	3.74E-04	0.00E+00	1.39E-04	3.74E-04	0.00E+00	2.26E-05	5.66E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
4256	599506.5	4175083	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.65E-05	0.00E+00	9.69E-06	1.77E-05	0.00E+00
4257	599421.3	4175664	0.000455	1.23E-03	0.00E+00	4.55E-04	1.23E-03	0.00E+00	7.40E-05	1.85E-04	0.00E+00	3.86E-05	7.07E-05	0.00E+00
4258	599370.1	4175665	0.000477	1.29E-03	0.00E+00	4.77E-04	1.29E-03	0.00E+00	7.76E-05	1.95E-04	0.00E+00	4.05E-05	7.41E-05	0.00E+00
4259	599378.6	4175661	0.000466	1.26E-03	0.00E+00	4.66E-04	1.26E-03	0.00E+00	7.58E-05	1.90E-04	0.00E+00	3.96E-05	7.24E-05	0.00E+00
4260	599387	4175658	0.000456	1.23E-03	0.00E+00	4.56E-04	1.23E-03	0.00E+00	7.41E-05	1.86E-04	0.00E+00	3.87E-05	7.08E-05	0.00E+00
4261	599395.5	4175655	0.000446	1.20E-03	0.00E+00	4.46E-04	1.20E-03	0.00E+00	7.26E-05	1.82E-04	0.00E+00	3.79E-05	6.93E-05	0.00E+00
4262	599403.9	4175652	0.000437	1.18E-03	0.00E+00	4.37E-04	1.18E-03	0.00E+00	7.11E-05	1.78E-04	0.00E+00	3.71E-05	6.79E-05	0.00E+00
4263	599412.4	4175648	0.000429	1.16E-03	0.00E+00	4.29E-04	1.16E-03	0.00E+00	6.97E-05	1.75E-04	0.00E+00	3.64E-05	6.66E-05	0.00E+00
4264	599420.9	4175645	0.000421	1.14E-03	0.00E+00	4.21E-04	1.14E-03	0.00E+00	6.85E-05	1.72E-04	0.00E+00	3.58E-05	6.55E-05	0.00E+00
4265	599471.6	4175625	0.0004	1.08E-03	0.00E+00	4.00E-04	1.08E-03	0.00E+00	6.50E-05	1.63E-04	0.00E+00	3.39E-05	6.21E-05	0.00E+00
4266	599329.7	4175661	0.000499	1.35E-03	0.00E+00	4.99E-04	1.35E-03	0.00E+00	8.12E-05	2.04E-04	0.00E+00	4.24E-05	7.76E-05	0.00E+00
4267	599346.5	4175654	0.000474	1.28E-03	0.00E+00	4.74E-04	1.28E-03	0.00E+00	7.71E-05	1.93E-04	0.00E+00	4.02E-05	7.36E-05	0.00E+00
4268	599363.3	4175648	0.00045	1.21E-03	0.00E+00	4.50E-04	1.21E-03	0.00E+00	7.32E-05	1.84E-04	0.00E+00	3.82E-05	7.00E-05	0.00E+00
4269	599380.1	4175641	0.00043	1.16E-03	0.00E+00	4.30E-04	1.16E-03	0.00E+00	7.00E-05	1.75E-04	0.00E+00	3.65E-05	6.69E-05	0.00E+00
4270	599396.9	4175635	0.000411	1.11E-03	0.00E+00	4.11E-04	1.11E-03	0.00E+00	6.69E-05	1.68E-04	0.00E+00	3.49E-05	6.39E-05	0.00E+00
4271	599405.4	4175631	0.000403	1.09E-03	0.00E+00	4.03E-04	1.09E-03	0.00E+00	6.56E-05	1.64E-04	0.00E+00	3.42E-05	6.27E-05	0.00E+00
4272	599422.2	4175625	0.00039	1.05E-03	0.00E+00	3.90E-04	1.05E-03	0.00E+00	6.35E-05	1.59E-04	0.00E+00	3.31E-05	6.06E-05	0.00E+00
4273	599281.2	4175660	0.000536	1.44E-03	0.00E+00	5.36E-04	1.44E-03	0.00E+00	8.71E-05	2.18E-04	0.00E+00	4.55E-05	8.32E-05	0.00E+00
4274	599297.9	4175654	0.000505	1.36E-03	0.00E+00	5.05E-04	1.36E-03	0.00E+00	8.21E-05	2.06E-04	0.00E+00	4.29E-05	7.84E-05	0.00E+00

4275	599314.7	4175647	0.00048	1.30E-03	0.00E+00	4.80E-04	1.30E-03	0.00E+00	7.82E-05	1.96E-04	0.00E+00	4.08E-05	7.47E-05	0.00E+00
4276	599331.4	4175641	0.000458	1.23E-03	0.00E+00	4.58E-04	1.23E-03	0.00E+00	7.45E-05	1.87E-04	0.00E+00	3.89E-05	7.12E-05	0.00E+00
4277	599348.1	4175634	0.000437	1.18E-03	0.00E+00	4.37E-04	1.18E-03	0.00E+00	7.11E-05	1.78E-04	0.00E+00	3.71E-05	6.79E-05	0.00E+00
4278	599364.9	4175628	0.000419	1.13E-03	0.00E+00	4.19E-04	1.13E-03	0.00E+00	6.82E-05	1.71E-04	0.00E+00	3.56E-05	6.51E-05	0.00E+00
4279	599381.6	4175621	0.000399	1.08E-03	0.00E+00	3.99E-04	1.08E-03	0.00E+00	6.49E-05	1.63E-04	0.00E+00	3.39E-05	6.20E-05	0.00E+00
4280	599398.3	4175615	0.000383	1.03E-03	0.00E+00	3.83E-04	1.03E-03	0.00E+00	6.22E-05	1.56E-04	0.00E+00	3.25E-05	5.95E-05	0.00E+00
4281	599415.1	4175608	0.000369	9.95E-04	0.00E+00	3.69E-04	9.95E-04	0.00E+00	6.00E-05	1.50E-04	0.00E+00	3.13E-05	5.73E-05	0.00E+00
4282	599431.8	4175602	0.000359	9.67E-04	0.00E+00	3.59E-04	9.67E-04	0.00E+00	5.83E-05	1.46E-04	0.00E+00	3.04E-05	5.57E-05	0.00E+00
4283	599266.4	4175646	0.000518	1.40E-03	0.00E+00	5.18E-04	1.40E-03	0.00E+00	8.43E-05	2.11E-04	0.00E+00	4.40E-05	8.05E-05	0.00E+00
4284	599283.1	4175640	0.000491	1.32E-03	0.00E+00	4.91E-04	1.32E-03	0.00E+00	7.98E-05	2.00E-04	0.00E+00	4.17E-05	7.62E-05	0.00E+00
4285	599299.8	4175633	0.000466	1.26E-03	0.00E+00	4.66E-04	1.26E-03	0.00E+00	7.58E-05	1.90E-04	0.00E+00	3.95E-05	7.24E-05	0.00E+00
4286	599316.4	4175627	0.000443	1.20E-03	0.00E+00	4.43E-04	1.20E-03	0.00E+00	7.21E-05	1.81E-04	0.00E+00	3.76E-05	6.89E-05	0.00E+00
4287	599333.1	4175620	0.000422	1.14E-03	0.00E+00	4.22E-04	1.14E-03	0.00E+00	6.87E-05	1.72E-04	0.00E+00	3.59E-05	6.56E-05	0.00E+00
4288	599349.7	4175614	0.000405	1.09E-03	0.00E+00	4.05E-04	1.09E-03	0.00E+00	6.59E-05	1.65E-04	0.00E+00	3.44E-05	6.30E-05	0.00E+00
4289	599366.4	4175607	0.000388	1.05E-03	0.00E+00	3.88E-04	1.05E-03	0.00E+00	6.31E-05	1.58E-04	0.00E+00	3.29E-05	6.02E-05	0.00E+00
4290	599383	4175601	0.000372	1.00E-03	0.00E+00	3.72E-04	1.00E-03	0.00E+00	6.06E-05	1.52E-04	0.00E+00	3.16E-05	5.79E-05	0.00E+00
4291	599399.7	4175594	0.000359	9.67E-04	0.00E+00	3.59E-04	9.67E-04	0.00E+00	5.84E-05	1.46E-04	0.00E+00	3.05E-05	5.57E-05	0.00E+00
4292	599416.4	4175588	0.000346	9.32E-04	0.00E+00	3.46E-04	9.32E-04	0.00E+00	5.62E-05	1.41E-04	0.00E+00	2.93E-05	5.37E-05	0.00E+00
4293	599433	4175582	0.000337	9.09E-04	0.00E+00	3.37E-04	9.09E-04	0.00E+00	5.49E-05	1.38E-04	0.00E+00	2.86E-05	5.24E-05	0.00E+00
4294	599152.2	4175671	0.000807	2.18E-03	0.00E+00	8.07E-04	2.18E-03	0.00E+00	1.31E-04	3.29E-04	0.00E+00	6.86E-05	1.25E-04	0.00E+00
4295	599168.8	4175664	0.00073	1.97E-03	0.00E+00	7.30E-04	1.97E-03	0.00E+00	1.19E-04	2.98E-04	0.00E+00	6.20E-05	1.13E-04	0.00E+00
4296	599251.7	4175632	0.000499	1.35E-03	0.00E+00	4.99E-04	1.35E-03	0.00E+00	8.12E-05	2.03E-04	0.00E+00	4.24E-05	7.75E-05	0.00E+00
4297	599268.3	4175626	0.000476	1.28E-03	0.00E+00	4.76E-04	1.28E-03	0.00E+00	7.74E-05	1.94E-04	0.00E+00	4.04E-05	7.39E-05	0.00E+00
4298	599284.9	4175619	0.000452	1.22E-03	0.00E+00	4.52E-04	1.22E-03	0.00E+00	7.35E-05	1.84E-04	0.00E+00	3.84E-05	7.02E-05	0.00E+00
4299	599301.5	4175613	0.000429	1.16E-03	0.00E+00	4.29E-04	1.16E-03	0.00E+00	6.98E-05	1.75E-04	0.00E+00	3.64E-05	6.67E-05	0.00E+00
4300	599318.1	4175607	0.00041	1.11E-03	0.00E+00	4.10E-04	1.11E-03	0.00E+00	6.68E-05	1.67E-04	0.00E+00	3.48E-05	6.38E-05	0.00E+00
4301	599334.7	4175600	0.000395	1.06E-03	0.00E+00	3.95E-04	1.06E-03	0.00E+00	6.42E-05	1.61E-04	0.00E+00	3.35E-05	6.13E-05	0.00E+00
4302	599351.3	4175594	0.000377	1.02E-03	0.00E+00	3.77E-04	1.02E-03	0.00E+00	6.13E-05	1.54E-04	0.00E+00	3.20E-05	5.85E-05	0.00E+00
4303	599367.9	4175587	0.00036	9.70E-04	0.00E+00	3.60E-04	9.70E-04	0.00E+00	5.85E-05	1.47E-04	0.00E+00	3.05E-05	5.59E-05	0.00E+00
4304	599384.4	4175581	0.000347	9.35E-04	0.00E+00	3.47E-04	9.35E-04	0.00E+00	5.64E-05	1.41E-04	0.00E+00	2.94E-05	5.39E-05	0.00E+00
4305	599401	4175574	0.000335	9.03E-04	0.00E+00	3.35E-04	9.03E-04	0.00E+00	5.45E-05	1.37E-04	0.00E+00	2.84E-05	5.21E-05	0.00E+00
4306	599417.6	4175568	0.000326	8.79E-04	0.00E+00	3.26E-04	8.79E-04	0.00E+00	5.31E-05	1.33E-04	0.00E+00	2.77E-05	5.07E-05	0.00E+00
4307	599434.2	4175561	0.000318	8.59E-04	0.00E+00	3.18E-04	8.59E-04	0.00E+00	5.18E-05	1.30E-04	0.00E+00	2.70E-05	4.95E-05	0.00E+00
4308	599109.9	4175675	0.000961	2.59E-03	0.00E+00	9.61E-04	2.59E-03	0.00E+00	1.56E-04	3.92E-04	0.00E+00	8.16E-05	1.49E-04	0.00E+00
4309	599121.6	4175663	0.000862	2.32E-03	0.00E+00	8.62E-04	2.32E-03	0.00E+00	1.40E-04	3.52E-04	0.00E+00	7.32E-05	1.34E-04	0.00E+00
4310	599130	4175660	0.00082	2.21E-03	0.00E+00	8.20E-04	2.21E-03	0.00E+00	1.33E-04	3.34E-04	0.00E+00	6.97E-05	1.27E-04	0.00E+00
4311	599138.5	4175657	0.00078	2.10E-03	0.00E+00	7.80E-04	2.10E-03	0.00E+00	1.27E-04	3.18E-04	0.00E+00	6.62E-05	1.21E-04	0.00E+00
4312	599146.9	4175653	0.000741	2.00E-03	0.00E+00	7.41E-04	2.00E-03	0.00E+00	1.21E-04	3.02E-04	0.00E+00	6.29E-05	1.15E-04	0.00E+00
4313	599155.4	4175650	0.000704	1.90E-03	0.00E+00	7.04E-04	1.90E-03	0.00E+00	1.15E-04	2.87E-04	0.00E+00	5.98E-05	1.09E-04	0.00E+00
4314	599163.8	4175647	0.000669	1.80E-03	0.00E+00	6.69E-04	1.80E-03	0.00E+00	1.09E-04	2.73E-04	0.00E+00	5.68E-05	1.04E-04	0.00E+00
4315	599172.3	4175644	0.000637	1.72E-03	0.00E+00	6.37E-04	1.72E-03	0.00E+00	1.04E-04	2.60E-04	0.00E+00	5.41E-05	9.90E-05	0.00E+00
4316	599239.9	4175617	0.000475	1.28E-03	0.00E+00	4.75E-04	1.28E-03	0.00E+00	7.72E-05	1.94E-04	0.00E+00	4.03E-05	7.38E-05	0.00E+00
4317	599248.3	4175614	0.000462	1.25E-03	0.00E+00	4.62E-04	1.25E-03	0.00E+00	7.52E-05	1.88E-04	0.00E+00	3.92E-05	7.18E-05	0.00E+00
4318	599256.8	4175611	0.000452	1.22E-03	0.00E+00	4.52E-04	1.22E-03	0.00E+00	7.35E-05	1.84E-04	0.00E+00	3.83E-05	7.02E-05	0.00E+00
4319	599265.2	4175607	0.000442	1.19E-03	0.00E+00	4.42E-04	1.19E-03	0.00E+00	7.18E-05	1.80E-04	0.00E+00	3.75E-05	6.86E-05	0.00E+00
4320	599273.7	4175604	0.000432	1.17E-03	0.00E+00	4.32E-04	1.17E-03	0.00E+00	7.03E-05	1.76E-04	0.00E+00	3.67E-05	6.71E-05	0.00E+00
4321	599282.1	4175601	0.000421	1.14E-03	0.00E+00	4.21E-04	1.14E-03	0.00E+00	6.85E-05	1.72E-04	0.00E+00	3.58E-05	6.54E-05	0.00E+00
4322	599290.6	4175598	0.000411	1.11E-03	0.00E+00	4.11E-04	1.11E-03	0.00E+00	6.68E-05	1.67E-04	0.00E+00	3.49E-05	6.38E-05	0.00E+00
4323	599299	4175594	0.0004	1.08E-03	0.00E+00	4.00E-04	1.08E-03	0.00E+00	6.51E-05	1.63E-04	0.00E+00	3.40E-05	6.22E-05	0.00E+00
4324	599307.5	4175591	0.000392	1.06E-03	0.00E+00	3.92E-04	1.06E-03	0.00E+00	6.37E-05	1.60E-04	0.00E+00	3.32E-05	6.08E-05	0.00E+00
4325	599315.9	4175588	0.000384	1.04E-03	0.00E+00	3.84E-04	1.04E-03	0.00E+00	6.25E-05	1.57E-04	0.00E+00	3.26E-05	5.97E-05	0.00E+00
4326	599324.4	4175585	0.000377	1.02E-03	0.00E+00	3.77E-04	1.02E-03	0.00E+00	6.13E-05	1.54E-04	0.00E+00	3.20E-05	5.85E-05	0.00E+00
4327	599332.8	4175581	0.00037	9.97E-04	0.00E+00	3.70E-04	9.97E-04	0.00E+00	6.01E-05	1.51E-04	0.00E+00	3.14E-05	5.74E-05	0.00E+00
4328	599341.3	4175578	0.000361	9.73E-04	0.00E+00	3.61E-04	9.73E-04	0.00E+00	5.87E-05	1.47E-04	0.00E+00	3.07E-05	5.61E-05	0.00E+00
4329	599349.7	4175575	0.000352	9.50E-04	0.00E+00	3.52E-04	9.50E-04	0.00E+00	5.73E-05	1.44E-04	0.00E+00	2.99E-05	5.48E-05	0.00E+00
4330	599358.2	4175571	0.000344	9.27E-04	0.00E+00	3.44E-04	9.27E-04	0.00E+00	5.60E-05	1.40E-04	0.00E+00	2.92E-05	5.35E-05	0.00E+00
4331	599366.6	4175568	0.000337	9.07E-04	0.00E+00	3.37E-04	9.07E-04	0.00E+00	5.47E-05	1.37E-04	0.00E+00	2.86E-05	5.23E-05	0.00E+00
4332	599375.1	4175565	0.00033	8.91E-04	0.00E+00	3.30E-04	8.91E-04	0.00E+00	5.38E-05	1.35E-04	0.00E+00	2.81E-05	5.13E-05	0.00E+00
4333	599383.5	4175562	0.000325	8.75E-04	0.00E+00	3.25E-04	8.75E-04	0.00E+00	5.28E-05	1.32E-04	0.00E+00	2.76E-05	5.05E-05	0.00E+00
4334	599392	4175558	0.000319	8.61E-04	0.00E+00	3.19E-04	8.61E-04	0.00E+00	5.20E-05	1.30E-04	0.00E+00	2.71E-05	4.96E-05	0.00E+00
4335	599400.4	4175555	0.000315	8.48E-04	0.00E+00	3.15E-04	8.48E-04	0.00E+00	5.12E-05	1.28E-04	0.00E+00	2.67E-05	4.89E-05	0.00E+00
4336	599408.9	4175552	0.00031	8.36E-04	0.00E+00	3.10E-04	8.36E-04	0.00E+00	5.05E-05	1.26E-04	0.00E+00	2.63E-05	4.82E-05	0.00E+00
4337	599417.3	4175548	0.000307	8.26E-04	0.00E+00	3.07E-04	8.26E-04	0.00E+00	4.99E-05	1.25E-04	0.00E+00	2.60E-05	4.76E-05	0.00E+00
4338	599425.8	4175545	0.000303	8.18E-04	0.00E+00	3.03E-04	8.18E-04	0.00E+00	4.94E-05	1.24E-04	0.00E+00	2.58E-05	4.71E-05	0.00E+00
4339	599434.2	4175542	0.000301	8.11E-04	0.00E+00	3.01E-04	8.11E-04	0.00E+00	4.89E-05	1.23E-04	0.00E+00	2.55E-05	4.67E-05	0.00E+00
4340	599476.5	4175525	0.000297	8.01E-04	0.00E+00	2.97E-04	8.01E-04	0.00E+00	4.83E-05	1.21E-04	0.00E+00	2.52E-05	4.62E-05	0.00E+00
4341	599107.3	4175649	0.000825	2.23E-03	0.00E+00	8.25E-04	2.23E-03	0.00E+00	1.34E-04	3.37E-04	0.00E+00	7.01E-05	1.28E-04	0.00E+00
4342	599115.8	4175646	0.00079	2.13E-03	0.00E+00	7.90E-04	2.13E-03	0.00E+00	1.29E-04	3.22E-04	0.00E+00	6.71E-05	1.23E-04	0.00E+00
4343	599124.2	4175643	0.000756	2.04E-03	0.00E+00	7.56E-04	2.04E-03	0.00E+00	1.23E-04	3.08E-04	0.00E+00	6.42E-05	1.17E-04	0.00E+00
4344	599141	4175636	0.000685	1.85E-03	0.00E+00	6.85E-04	1.85E-03	0.00E+00	1.11E-04	2.79E-04	0.00E+00	5.82E-05	1.06E-04	0.00E+00
4345	599157.8	4175630	0.000621	1.68E-03	0.00E+00	6.21E-04	1.68E-03	0.00E+00	1.01E-04	2.53E-04	0.00E+00	5.28E-05	9.66E-05	0.00E+00
4346	599166.2	4175626	0.000592	1.60E-03	0.00E+00	5.92E-04	1.60E-03	0.00E+00	9.64E-05	2.42E-04	0.00E+00	5.03E-05	9.21E-05	0.00E+00
4347	599241.9	4175597	0.000433	1.17E-03	0.00E+00	4.33E-04	1.17E-03	0.00E+00	7.05E-05	1.77E-04	0.00E+00	3.68E-05	6.73E-05	0.00E+00
4348	599250.4	4175594	0.000423	1.14E-03	0.00E+00	4.23E-04	1.14E-03	0.00E+00	6.89E-05	1.73E-04	0.00E+00	3.60E-05	6.58E-05	0.00E+00
4349	599258.8	4175590	0.000415	1.12E-03	0.00E+00	4.15E-04	1.12E-03	0.00E+00	6.75E-05	1.69E-04	0.00E+00	3.52E-05	6.44E-05	0.00E+00
4350	599267.2	4175587	0.000406	1.10E-03	0.00E+00	4.06E-04	1.10E-03	0.00E+00	6.61E-05	1.66E-04	0.00E+00	3.45E-05	6.31E-05	0.00E+00
4351	599275.6	4175584	0.000398	1.07E-03	0.00E+00	3.98E-04	1.07E-03	0.00E+00	6.47E-05	1.62E-04	0.00E+00	3.38E-05	6.18E-05	0.00E+00
4352	599292.4	4175577	0.000379	1.02E-03	0.00E+00	3.79E-04	1.02E-03	0.00E+00	6.17E-05	1.55E-04	0.00E+00	3.22E-05	5.89E-05	0.00E+00
4353	599309.3	4175571	0.000363	9.78E-04	0.00E+00	3.63E-04	9.78E-04	0.00E+00	5.90E-05	1.48E-04	0.00E+00	3.08E-05	5.64E-05	0.00E+00
4354	599317.7	4175568	0.000356	9.61E-04	0.00E+00	3.56E-04	9.61E-04	0.00E+00	5.80E-05	1.45E-04	0.00E+00	3.03E-05	5.54E-05	0.00E+00
4355	599334.5	4175561	0.000342	9.23E-04	0.00E+00	3.42E-04	9.23E-04	0.00E+00	5.57E-05	1.40E-04	0.00E+00	2.91E-05	5.32E-05	0.00E+00
4356	599351.3	4175554	0.000327	8.81E-04	0.00E+00	3.27E-04	8.81E-04	0.00E+00	5.32E-05	1.33E-04	0.00E+00	2.77E-05	5.08E-05	0.00E+00
4357	599359.7	4175551	0.00032	8.62E-04	0.00E+00	3.20E-04	8.62E-04	0.00E+00	5.20E-05	1.30E-04	0.00E+00	2.72E-05	4.97E-05	0.00E+00
4358	599376.6	4175545	0.000309	8.32E-04	0.00E+00	3.09E-04	8.32E-04	0.00E+00	5.02E-05	1.26E-04	0.00E+00	2.62E-05	4.79E-05	0.00E+00
4359	599385	4175541	0.000303	8.18E-04	0.00E+00	3.03E-04	8.18E-04	0.00E+00	4.94E-05	1.24E-04	0.00E+00	2.58E-05	4.72E-05	0.00E+00
4360	599401.8	4175535	0.000295	7.94E-04	0.00E+00	2.95E-04	7.94E-04	0.00E+00	4.79E-05	1.20E-04	0.00E+00	2.50E-05	4.58E-05	0.00E+00
4361	599418.6	4175528	0.000288	7.77E-04	0.00E+00	2.88E-04	7.77E-04	0.00E+00	4.69E-05	1.17E-04	0.00E+00	2.45E-05	4.48E-05	0.00E+00
4362	599427	4175525	0.000286	7.70E-04	0.00E+00	2.86E-04	7.70E-04	0.00E+00	4.65E-05	1.16E-04	0.00E+00	2.42E-05	4.44E-05	0.00E+00
4363	599469.1	4175509	0.000281	7.57E-04	0.00E+00	2.81E-04	7.57E-04	0.00E+00	4.57E-05	1.15E-04	0.00E+00	2.38E-05	4.36E-05	0.00E+00
4364	599109.9	4175629	0.000727	1.96E-03	0.00E+00	7.27E-04	1.96E-03	0.00E+00	1.18E-04	2.96E-04	0.00E+00	6.17E-05	1.13E-04	0.00E+00
4365	599126.6	4175622	0.000667	1.80E-03	0.00E+00	6.67E-04	1.80E-03	0.00E+00	1.08E-04	2.72E-04	0.00E+00	5.66E-05	1.04E-04	0.00E+00

4366	599143.4	4175616	0.000607	1.64E-03	0.00E+00	6.07E-04	1.64E-03	0.00E+00	9.87E-05	2.47E-04	0.00E+00	5.15E-05	9.43E-05	0.00E+00
4367	599252.3	4175573	0.00039	1.05E-03	0.00E+00	3.90E-04	1.05E-03	0.00E+00	6.35E-05	1.59E-04	0.00E+00	3.31E-05	6.06E-05	0.00E+00
4368	599269.1	4175567	0.000376	1.01E-03	0.00E+00	3.76E-04	1.01E-03	0.00E+00	6.11E-05	1.53E-04	0.00E+00	3.19E-05	5.84E-05	0.00E+00
4369	599285.8	4175560	0.000359	9.68E-04	0.00E+00	3.59E-04	9.68E-04	0.00E+00	5.84E-05	1.46E-04	0.00E+00	3.05E-05	5.58E-05	0.00E+00
4370	599302.6	4175554	0.000344	9.27E-04	0.00E+00	3.44E-04	9.27E-04	0.00E+00	5.59E-05	1.40E-04	0.00E+00	2.92E-05	5.34E-05	0.00E+00
4371	599319.3	4175547	0.00033	8.89E-04	0.00E+00	3.30E-04	8.89E-04	0.00E+00	5.36E-05	1.34E-04	0.00E+00	2.80E-05	5.12E-05	0.00E+00
4372	599336.1	4175541	0.000315	8.50E-04	0.00E+00	3.15E-04	8.50E-04	0.00E+00	5.13E-05	1.29E-04	0.00E+00	2.68E-05	4.90E-05	0.00E+00
4373	599352.9	4175534	0.000304	8.19E-04	0.00E+00	3.04E-04	8.19E-04	0.00E+00	4.94E-05	1.24E-04	0.00E+00	2.58E-05	4.72E-05	0.00E+00
4374	599369.6	4175528	0.000294	7.92E-04	0.00E+00	2.94E-04	7.92E-04	0.00E+00	4.78E-05	1.20E-04	0.00E+00	2.49E-05	4.56E-05	0.00E+00
4375	599386.4	4175521	0.000284	7.67E-04	0.00E+00	2.84E-04	7.67E-04	0.00E+00	4.63E-05	1.16E-04	0.00E+00	2.42E-05	4.42E-05	0.00E+00
4376	599403.1	4175515	0.000277	7.47E-04	0.00E+00	2.77E-04	7.47E-04	0.00E+00	4.50E-05	1.13E-04	0.00E+00	2.35E-05	4.30E-05	0.00E+00
4377	599419.9	4175508	0.000271	7.32E-04	0.00E+00	2.71E-04	7.32E-04	0.00E+00	4.41E-05	1.11E-04	0.00E+00	2.30E-05	4.22E-05	0.00E+00
4378	599470.2	4175489	0.000266	7.17E-04	0.00E+00	2.66E-04	7.17E-04	0.00E+00	4.33E-05	1.08E-04	0.00E+00	2.26E-05	4.13E-05	0.00E+00
4379	599112.3	4175608	0.000645	1.74E-03	0.00E+00	6.45E-04	1.74E-03	0.00E+00	1.05E-04	2.63E-04	0.00E+00	5.47E-05	1.00E-04	0.00E+00
4380	599129	4175602	0.000593	1.60E-03	0.00E+00	5.93E-04	1.60E-03	0.00E+00	9.64E-05	2.42E-04	0.00E+00	5.03E-05	9.21E-05	0.00E+00
4381	599145.7	4175595	0.000542	1.46E-03	0.00E+00	5.42E-04	1.46E-03	0.00E+00	8.81E-05	2.21E-04	0.00E+00	4.60E-05	8.42E-05	0.00E+00
4382	599262.5	4175550	0.000353	9.52E-04	0.00E+00	3.53E-04	9.52E-04	0.00E+00	5.74E-05	1.44E-04	0.00E+00	3.00E-05	5.49E-05	0.00E+00
4383	599279.2	4175543	0.000338	9.12E-04	0.00E+00	3.38E-04	9.12E-04	0.00E+00	5.50E-05	1.38E-04	0.00E+00	2.87E-05	5.26E-05	0.00E+00
4384	599295.9	4175537	0.000326	8.78E-04	0.00E+00	3.26E-04	8.78E-04	0.00E+00	5.30E-05	1.33E-04	0.00E+00	2.77E-05	5.06E-05	0.00E+00
4385	599312.6	4175530	0.000313	8.45E-04	0.00E+00	3.13E-04	8.45E-04	0.00E+00	5.10E-05	1.28E-04	0.00E+00	2.66E-05	4.87E-05	0.00E+00
4386	599329.3	4175524	0.0003	8.09E-04	0.00E+00	3.00E-04	8.09E-04	0.00E+00	4.88E-05	1.22E-04	0.00E+00	2.55E-05	4.66E-05	0.00E+00
4387	599346	4175517	0.000289	7.80E-04	0.00E+00	2.89E-04	7.80E-04	0.00E+00	4.71E-05	1.18E-04	0.00E+00	2.46E-05	4.49E-05	0.00E+00
4388	599362.7	4175511	0.00028	7.54E-04	0.00E+00	2.80E-04	7.54E-04	0.00E+00	4.55E-05	1.14E-04	0.00E+00	2.38E-05	4.35E-05	0.00E+00
4389	599379.4	4175504	0.000271	7.31E-04	0.00E+00	2.71E-04	7.31E-04	0.00E+00	4.41E-05	1.10E-04	0.00E+00	2.30E-05	4.21E-05	0.00E+00
4390	599396.1	4175498	0.000263	7.08E-04	0.00E+00	2.63E-04	7.08E-04	0.00E+00	4.27E-05	1.07E-04	0.00E+00	2.23E-05	4.08E-05	0.00E+00
4391	599412.8	4175491	0.000258	6.94E-04	0.00E+00	2.58E-04	6.94E-04	0.00E+00	4.19E-05	1.05E-04	0.00E+00	2.19E-05	4.00E-05	0.00E+00
4392	599429.5	4175485	0.000255	6.87E-04	0.00E+00	2.55E-04	6.87E-04	0.00E+00	4.14E-05	1.04E-04	0.00E+00	2.16E-05	3.96E-05	0.00E+00
4393	599462.9	4175472	0.000252	6.79E-04	0.00E+00	2.52E-04	6.79E-04	0.00E+00	4.10E-05	1.03E-04	0.00E+00	2.14E-05	3.91E-05	0.00E+00
4394	599114.6	4175588	0.000576	1.55E-03	0.00E+00	5.76E-04	1.55E-03	0.00E+00	9.38E-05	2.35E-04	0.00E+00	4.89E-05	8.96E-05	0.00E+00
4395	599131.2	4175581	0.00053	1.43E-03	0.00E+00	5.30E-04	1.43E-03	0.00E+00	8.63E-05	2.16E-04	0.00E+00	4.50E-05	8.24E-05	0.00E+00
4396	599147.8	4175575	0.000487	1.31E-03	0.00E+00	4.87E-04	1.31E-03	0.00E+00	7.93E-05	1.99E-04	0.00E+00	4.14E-05	7.57E-05	0.00E+00
4397	599164.5	4175568	0.000452	1.22E-03	0.00E+00	4.52E-04	1.22E-03	0.00E+00	7.35E-05	1.84E-04	0.00E+00	3.84E-05	7.02E-05	0.00E+00
4398	599280.9	4175523	0.000314	8.48E-04	0.00E+00	3.14E-04	8.48E-04	0.00E+00	5.12E-05	1.28E-04	0.00E+00	2.67E-05	4.89E-05	0.00E+00
4399	599297.6	4175517	0.000304	8.21E-04	0.00E+00	3.04E-04	8.21E-04	0.00E+00	4.95E-05	1.24E-04	0.00E+00	2.58E-05	4.73E-05	0.00E+00
4400	599314.2	4175510	0.000293	7.90E-04	0.00E+00	2.93E-04	7.90E-04	0.00E+00	4.76E-05	1.19E-04	0.00E+00	2.49E-05	4.55E-05	0.00E+00
4401	599330.8	4175504	0.000281	7.57E-04	0.00E+00	2.81E-04	7.57E-04	0.00E+00	4.57E-05	1.14E-04	0.00E+00	2.38E-05	4.36E-05	0.00E+00
4402	599347.5	4175497	0.000271	7.32E-04	0.00E+00	2.71E-04	7.32E-04	0.00E+00	4.41E-05	1.11E-04	0.00E+00	2.30E-05	4.22E-05	0.00E+00
4403	599364.1	4175491	0.000263	7.09E-04	0.00E+00	2.63E-04	7.09E-04	0.00E+00	4.28E-05	1.07E-04	0.00E+00	2.23E-05	4.08E-05	0.00E+00
4404	599380.7	4175484	0.000253	6.83E-04	0.00E+00	2.53E-04	6.83E-04	0.00E+00	4.12E-05	1.03E-04	0.00E+00	2.15E-05	3.94E-05	0.00E+00
4405	599397.4	4175478	0.000245	6.62E-04	0.00E+00	2.45E-04	6.62E-04	0.00E+00	3.99E-05	1.00E-04	0.00E+00	2.08E-05	3.81E-05	0.00E+00
4406	599414	4175471	0.000243	6.54E-04	0.00E+00	2.43E-04	6.54E-04	0.00E+00	3.95E-05	9.89E-05	0.00E+00	2.06E-05	3.77E-05	0.00E+00
4407	599430.6	4175465	0.00024	6.47E-04	0.00E+00	2.40E-04	6.47E-04	0.00E+00	3.90E-05	9.78E-05	0.00E+00	2.04E-05	3.73E-05	0.00E+00
4408	599463.9	4175452	0.000237	6.38E-04	0.00E+00	2.37E-04	6.38E-04	0.00E+00	3.85E-05	9.65E-05	0.00E+00	2.01E-05	3.68E-05	0.00E+00
4409	599118.2	4175567	0.000516	1.39E-03	0.00E+00	5.16E-04	1.39E-03	0.00E+00	8.39E-05	2.10E-04	0.00E+00	4.38E-05	8.01E-05	0.00E+00
4410	599126.6	4175563	0.000495	1.33E-03	0.00E+00	4.95E-04	1.33E-03	0.00E+00	8.05E-05	2.02E-04	0.00E+00	4.20E-05	7.69E-05	0.00E+00
4411	599135.1	4175560	0.000476	1.28E-03	0.00E+00	4.76E-04	1.28E-03	0.00E+00	7.74E-05	1.94E-04	0.00E+00	4.04E-05	7.39E-05	0.00E+00
4412	599143.5	4175557	0.000458	1.23E-03	0.00E+00	4.58E-04	1.23E-03	0.00E+00	7.44E-05	1.87E-04	0.00E+00	3.89E-05	7.11E-05	0.00E+00
4413	599152	4175553	0.000441	1.19E-03	0.00E+00	4.41E-04	1.19E-03	0.00E+00	7.17E-05	1.80E-04	0.00E+00	3.74E-05	6.84E-05	0.00E+00
4414	599160.4	4175550	0.000425	1.15E-03	0.00E+00	4.25E-04	1.15E-03	0.00E+00	6.92E-05	1.73E-04	0.00E+00	3.61E-05	6.61E-05	0.00E+00
4415	599168.9	4175547	0.000411	1.11E-03	0.00E+00	4.11E-04	1.11E-03	0.00E+00	6.68E-05	1.67E-04	0.00E+00	3.49E-05	6.38E-05	0.00E+00
4416	599177.3	4175544	0.000397	1.07E-03	0.00E+00	3.97E-04	1.07E-03	0.00E+00	6.45E-05	1.62E-04	0.00E+00	3.37E-05	6.16E-05	0.00E+00
4417	599278.7	4175504	0.000297	7.99E-04	0.00E+00	2.97E-04	7.99E-04	0.00E+00	4.82E-05	1.21E-04	0.00E+00	2.52E-05	4.61E-05	0.00E+00
4418	599287.1	4175501	0.000292	7.87E-04	0.00E+00	2.92E-04	7.87E-04	0.00E+00	4.75E-05	1.19E-04	0.00E+00	2.48E-05	4.53E-05	0.00E+00
4419	599295.6	4175498	0.000287	7.74E-04	0.00E+00	2.87E-04	7.74E-04	0.00E+00	4.67E-05	1.17E-04	0.00E+00	2.44E-05	4.46E-05	0.00E+00
4420	599304	4175494	0.000283	7.62E-04	0.00E+00	2.83E-04	7.62E-04	0.00E+00	4.60E-05	1.15E-04	0.00E+00	2.40E-05	4.39E-05	0.00E+00
4421	599312.5	4175491	0.000277	7.46E-04	0.00E+00	2.77E-04	7.46E-04	0.00E+00	4.50E-05	1.13E-04	0.00E+00	2.35E-05	4.30E-05	0.00E+00
4422	599320.9	4175488	0.000271	7.31E-04	0.00E+00	2.71E-04	7.31E-04	0.00E+00	4.41E-05	1.11E-04	0.00E+00	2.30E-05	4.21E-05	0.00E+00
4423	599329.4	4175485	0.000265	7.16E-04	0.00E+00	2.65E-04	7.16E-04	0.00E+00	4.32E-05	1.08E-04	0.00E+00	2.25E-05	4.12E-05	0.00E+00
4424	599337.8	4175481	0.000261	7.03E-04	0.00E+00	2.61E-04	7.03E-04	0.00E+00	4.24E-05	1.06E-04	0.00E+00	2.21E-05	4.05E-05	0.00E+00
4425	599346.2	4175478	0.000256	6.91E-04	0.00E+00	2.56E-04	6.91E-04	0.00E+00	4.17E-05	1.05E-04	0.00E+00	2.18E-05	3.98E-05	0.00E+00
4426	599354.7	4175475	0.000252	6.80E-04	0.00E+00	2.52E-04	6.80E-04	0.00E+00	4.10E-05	1.03E-04	0.00E+00	2.14E-05	3.92E-05	0.00E+00
4427	599363.1	4175471	0.000248	6.68E-04	0.00E+00	2.48E-04	6.68E-04	0.00E+00	4.03E-05	1.01E-04	0.00E+00	2.11E-05	3.85E-05	0.00E+00
4428	599371.6	4175468	0.000243	6.55E-04	0.00E+00	2.43E-04	6.55E-04	0.00E+00	3.95E-05	9.91E-05	0.00E+00	2.06E-05	3.78E-05	0.00E+00
4429	599380	4175465	0.000239	6.43E-04	0.00E+00	2.39E-04	6.43E-04	0.00E+00	3.88E-05	9.73E-05	0.00E+00	2.03E-05	3.71E-05	0.00E+00
4430	599388.5	4175462	0.000235	6.33E-04	0.00E+00	2.35E-04	6.33E-04	0.00E+00	3.82E-05	9.58E-05	0.00E+00	1.99E-05	3.65E-05	0.00E+00
4431	599396.9	4175458	0.000232	6.26E-04	0.00E+00	2.32E-04	6.26E-04	0.00E+00	3.78E-05	9.46E-05	0.00E+00	1.97E-05	3.61E-05	0.00E+00
4432	599405.4	4175455	0.00023	6.21E-04	0.00E+00	2.30E-04	6.21E-04	0.00E+00	3.74E-05	9.38E-05	0.00E+00	1.95E-05	3.58E-05	0.00E+00
4433	599413.8	4175452	0.000228	6.16E-04	0.00E+00	2.28E-04	6.16E-04	0.00E+00	3.72E-05	9.31E-05	0.00E+00	1.94E-05	3.55E-05	0.00E+00
4434	599422.3	4175449	0.000227	6.12E-04	0.00E+00	2.27E-04	6.12E-04	0.00E+00	3.69E-05	9.25E-05	0.00E+00	1.93E-05	3.53E-05	0.00E+00
4435	599464.5	4175432	0.000225	6.06E-04	0.00E+00	2.25E-04	6.06E-04	0.00E+00	3.65E-05	9.16E-05	0.00E+00	1.91E-05	3.49E-05	0.00E+00
4436	599473	4175429	0.000225	6.06E-04	0.00E+00	2.25E-04	6.06E-04	0.00E+00	3.66E-05	9.17E-05	0.00E+00	1.91E-05	3.49E-05	0.00E+00
4437	599481.4	4175426	0.000225	6.07E-04	0.00E+00	2.25E-04	6.07E-04	0.00E+00	3.66E-05	9.17E-05	0.00E+00	1.91E-05	3.50E-05	0.00E+00
4438	599128.9	4175543	0.000453	1.22E-03	0.00E+00	4.53E-04	1.22E-03	0.00E+00	7.37E-05	1.85E-04	0.00E+00	3.85E-05	7.04E-05	0.00E+00
4439	599137.4	4175539	0.000436	1.18E-03	0.00E+00	4.36E-04	1.18E-03	0.00E+00	7.10E-05	1.78E-04	0.00E+00	3.71E-05	6.78E-05	0.00E+00
4440	599154.2	4175533	0.000406	1.09E-03	0.00E+00	4.06E-04	1.09E-03	0.00E+00	6.60E-05	1.65E-04	0.00E+00	3.44E-05	6.30E-05	0.00E+00
4441	599162.6	4175530	0.000391	1.06E-03	0.00E+00	3.91E-04	1.06E-03	0.00E+00	6.37E-05	1.60E-04	0.00E+00	3.32E-05	6.08E-05	0.00E+00
4442	599179.4	4175523	0.000367	9.90E-04	0.00E+00	3.67E-04	9.90E-04	0.00E+00	5.97E-05	1.50E-04	0.00E+00	3.12E-05	5.70E-05	0.00E+00
4443	599187.9	4175520	0.000357	9.62E-04	0.00E+00	3.57E-04	9.62E-04	0.00E+00	5.81E-05	1.45E-04	0.00E+00	3.03E-05	5.54E-05	0.00E+00
4444	599280.4	4175484	0.000278	7.50E-04	0.00E+00	2.78E-04	7.50E-04	0.00E+00	4.52E-05	1.13E-04	0.00E+00	2.36E-05	4.32E-05	0.00E+00
4445	599297.3	4175477	0.00027	7.27E-04	0.00E+00	2.70E-04	7.27E-04	0.00E+00	4.39E-05	1.10E-04	0.00E+00	2.29E-05	4.19E-05	0.00E+00
4446	599305.7	4175474	0.000265	7.14E-04	0.00E+00	2.65E-04	7.14E-04	0.00E+00	4.31E-05	1.08E-04	0.00E+00	2.25E-05	4.12E-05	0.00E+00
4447	599322.5	4175468	0.000254	6.84E-04	0.00E+00	2.54E-04	6.84E-04	0.00E+00	4.12E-05	1.03E-04	0.00E+00	2.15E-05	3.94E-05	0.00E+00
4448	599330.9	4175464	0.000248	6.69E-04	0.00E+00	2.48E-04	6.69E-04	0.00E+00	4.03E-05	1.01E-04	0.00E+00	2.11E-05	3.85E-05	0.00E+00
4449	599347.8	4175458	0.000239	6.45E-04	0.00E+00	2.39E-04	6.45E-04	0.00E+00	3.89E-05	9.75E-05	0.00E+00	2.03E-05	3.72E-05	0.00E+00
4450	599356.2	4175455	0.000235	6.34E-04	0.00E+00	2.35E-04	6.34E-04	0.00E+00	3.82E-05	9.59E-05	0.00E+00	2.00E-05	3.65E-05	0.00E+00
4451	599373	4175448	0.000228	6.14E-04	0.00E+00	2.28E-04	6.14E-04	0.00E+00	3.70E-05	9.28E-05	0.00E+00	1.93E-05	3.54E-05	0.00E+00
4452	599381.4	4175445	0.000225	6.05E-04	0.00E+00	2.25E-04	6.05E-04	0.00E+00	3.65E-05	9.15E-05	0.00E+00	1.91E-05	3.49E-05	0.00E+00
4453	599398.3	4175438	0.00022	5.93E-04	0.00E+00	2.20E-04	5.93E-04	0.00E+00	3.58E-05	8.96E-05	0.00E+00	1.87E-05	3.42E-05	0.00E+00
4454	599406.7	4175435	0.000218	5.88E-04	0.00E+00	2.18E-04	5.88E-04	0.00E+00	3.55E-05	8.89E-05	0.00E+00	1.85E-05	3.39E-05	0.00E+00
4455	599474	4175409	0.000214	5.78E-04	0.00E+00	2.14E-04	5.78E-04	0.00E+00	3.49E-05	8.74E-05	0.00E+00	1.82E-05	3.33E-05	0.00E+00
4456	599122.8	4175526	0.000429	1.16E-03	0.00E+00	4.29E-04	1.16E-03	0.00E+00	6.99E-05	1.75E-04	0.00E+00	3.65E-05	6.67E-05	0.00E+00

4457	599131.2	4175522	0.000414	1.12E-03	0.00E+00	4.14E-04	1.12E-03	0.00E+00	6.73E-05	1.69E-04	0.00E+00	3.51E-05	6.43E-05	0.00E+00
4458	599147.9	4175516	0.000385	1.04E-03	0.00E+00	3.85E-04	1.04E-03	0.00E+00	6.27E-05	1.57E-04	0.00E+00	3.27E-05	5.99E-05	0.00E+00
4459	599164.7	4175509	0.000362	9.75E-04	0.00E+00	3.62E-04	9.75E-04	0.00E+00	5.89E-05	1.47E-04	0.00E+00	3.07E-05	5.62E-05	0.00E+00
4460	599173.1	4175506	0.000352	9.49E-04	0.00E+00	3.52E-04	9.49E-04	0.00E+00	5.72E-05	1.43E-04	0.00E+00	2.99E-05	5.47E-05	0.00E+00
4461	599189.9	4175500	0.000333	8.99E-04	0.00E+00	3.33E-04	8.99E-04	0.00E+00	5.42E-05	1.36E-04	0.00E+00	2.83E-05	5.18E-05	0.00E+00
4462	599206.7	4175493	0.000317	8.54E-04	0.00E+00	3.17E-04	8.54E-04	0.00E+00	5.15E-05	1.29E-04	0.00E+00	2.69E-05	4.92E-05	0.00E+00
4463	599290.5	4175460	0.000256	6.91E-04	0.00E+00	2.56E-04	6.91E-04	0.00E+00	4.17E-05	1.05E-04	0.00E+00	2.18E-05	3.98E-05	0.00E+00
4464	599298.9	4175457	0.000252	6.78E-04	0.00E+00	2.52E-04	6.78E-04	0.00E+00	4.09E-05	1.03E-04	0.00E+00	2.14E-05	3.91E-05	0.00E+00
4465	599315.7	4175451	0.000241	6.51E-04	0.00E+00	2.41E-04	6.51E-04	0.00E+00	3.93E-05	9.84E-05	0.00E+00	2.05E-05	3.75E-05	0.00E+00
4466	599332.5	4175444	0.000231	6.24E-04	0.00E+00	2.31E-04	6.24E-04	0.00E+00	3.76E-05	9.43E-05	0.00E+00	1.96E-05	3.59E-05	0.00E+00
4467	599349.2	4175438	0.000224	6.05E-04	0.00E+00	2.24E-04	6.05E-04	0.00E+00	3.65E-05	9.15E-05	0.00E+00	1.90E-05	3.49E-05	0.00E+00
4468	599366	4175431	0.000218	5.88E-04	0.00E+00	2.18E-04	5.88E-04	0.00E+00	3.55E-05	8.89E-05	0.00E+00	1.85E-05	3.39E-05	0.00E+00
4469	599382.8	4175425	0.000213	5.74E-04	0.00E+00	2.13E-04	5.74E-04	0.00E+00	3.46E-05	8.67E-05	0.00E+00	1.81E-05	3.31E-05	0.00E+00
4470	599391.2	4175421	0.000211	5.68E-04	0.00E+00	2.11E-04	5.68E-04	0.00E+00	3.43E-05	8.58E-05	0.00E+00	1.79E-05	3.27E-05	0.00E+00
4471	599407.9	4175415	0.000207	5.59E-04	0.00E+00	2.07E-04	5.59E-04	0.00E+00	3.37E-05	8.45E-05	0.00E+00	1.76E-05	3.22E-05	0.00E+00
4472	599466.7	4175392	0.000204	5.51E-04	0.00E+00	2.04E-04	5.51E-04	0.00E+00	3.33E-05	8.34E-05	0.00E+00	1.74E-05	3.18E-05	0.00E+00
4473	599475	4175389	0.000205	5.52E-04	0.00E+00	2.05E-04	5.52E-04	0.00E+00	3.33E-05	8.34E-05	0.00E+00	1.74E-05	3.18E-05	0.00E+00
4474	599125	4175505	0.000392	1.06E-03	0.00E+00	3.92E-04	1.06E-03	0.00E+00	6.38E-05	1.60E-04	0.00E+00	3.33E-05	6.10E-05	0.00E+00
4475	599141.7	4175499	0.000367	9.88E-04	0.00E+00	3.67E-04	9.88E-04	0.00E+00	5.96E-05	1.49E-04	0.00E+00	3.11E-05	5.70E-05	0.00E+00
4476	599158.4	4175492	0.000344	9.29E-04	0.00E+00	3.44E-04	9.29E-04	0.00E+00	5.60E-05	1.40E-04	0.00E+00	2.92E-05	5.35E-05	0.00E+00
4477	599175.1	4175486	0.000327	8.80E-04	0.00E+00	3.27E-04	8.80E-04	0.00E+00	5.31E-05	1.33E-04	0.00E+00	2.77E-05	5.07E-05	0.00E+00
4478	599191.8	4175479	0.000311	8.37E-04	0.00E+00	3.11E-04	8.37E-04	0.00E+00	5.05E-05	1.27E-04	0.00E+00	2.64E-05	4.83E-05	0.00E+00
4479	599208.6	4175473	0.000296	7.98E-04	0.00E+00	2.96E-04	7.98E-04	0.00E+00	4.81E-05	1.21E-04	0.00E+00	2.51E-05	4.60E-05	0.00E+00
4480	599292.2	4175440	0.00024	6.48E-04	0.00E+00	2.40E-04	6.48E-04	0.00E+00	3.91E-05	9.80E-05	0.00E+00	2.04E-05	3.74E-05	0.00E+00
4481	599308.9	4175434	0.000231	6.24E-04	0.00E+00	2.31E-04	6.24E-04	0.00E+00	3.76E-05	9.43E-05	0.00E+00	1.97E-05	3.60E-05	0.00E+00
4482	599325.6	4175427	0.000223	6.00E-04	0.00E+00	2.23E-04	6.00E-04	0.00E+00	3.62E-05	9.08E-05	0.00E+00	1.89E-05	3.46E-05	0.00E+00
4483	599342.3	4175421	0.000215	5.80E-04	0.00E+00	2.15E-04	5.80E-04	0.00E+00	3.50E-05	8.78E-05	0.00E+00	1.83E-05	3.35E-05	0.00E+00
4484	599359	4175414	0.000209	5.65E-04	0.00E+00	2.09E-04	5.65E-04	0.00E+00	3.41E-05	8.54E-05	0.00E+00	1.78E-05	3.25E-05	0.00E+00
4485	599375.8	4175408	0.000204	5.51E-04	0.00E+00	2.04E-04	5.51E-04	0.00E+00	3.32E-05	8.33E-05	0.00E+00	1.73E-05	3.17E-05	0.00E+00
4486	599392.5	4175401	0.0002	5.40E-04	0.00E+00	2.00E-04	5.40E-04	0.00E+00	3.26E-05	8.16E-05	0.00E+00	1.70E-05	3.11E-05	0.00E+00
4487	599409.2	4175395	0.000197	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.04E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
4488	599476.1	4175369	0.000195	5.25E-04	0.00E+00	1.95E-04	5.25E-04	0.00E+00	3.17E-05	7.93E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
4489	599127	4175485	0.000361	9.73E-04	0.00E+00	3.61E-04	9.73E-04	0.00E+00	5.87E-05	1.47E-04	0.00E+00	3.06E-05	5.61E-05	0.00E+00
4490	599143.7	4175478	0.000339	9.13E-04	0.00E+00	3.39E-04	9.13E-04	0.00E+00	5.51E-05	1.38E-04	0.00E+00	2.88E-05	5.26E-05	0.00E+00
4491	599160.4	4175472	0.000319	8.61E-04	0.00E+00	3.19E-04	8.61E-04	0.00E+00	5.19E-05	1.30E-04	0.00E+00	2.71E-05	4.96E-05	0.00E+00
4492	599177.1	4175465	0.000304	8.20E-04	0.00E+00	3.04E-04	8.20E-04	0.00E+00	4.95E-05	1.24E-04	0.00E+00	2.58E-05	4.72E-05	0.00E+00
4493	599193.7	4175459	0.00029	7.83E-04	0.00E+00	2.90E-04	7.83E-04	0.00E+00	4.72E-05	1.18E-04	0.00E+00	2.46E-05	4.51E-05	0.00E+00
4494	599210.4	4175452	0.000277	7.47E-04	0.00E+00	2.77E-04	7.47E-04	0.00E+00	4.51E-05	1.13E-04	0.00E+00	2.35E-05	4.31E-05	0.00E+00
4495	599227.1	4175446	0.000265	7.14E-04	0.00E+00	2.65E-04	7.14E-04	0.00E+00	4.31E-05	1.08E-04	0.00E+00	2.25E-05	4.11E-05	0.00E+00
4496	599327.1	4175407	0.000211	5.70E-04	0.00E+00	2.11E-04	5.70E-04	0.00E+00	3.44E-05	8.61E-05	0.00E+00	1.79E-05	3.28E-05	0.00E+00
4497	599343.8	4175401	0.000205	5.53E-04	0.00E+00	2.05E-04	5.53E-04	0.00E+00	3.34E-05	8.36E-05	0.00E+00	1.74E-05	3.19E-05	0.00E+00
4498	599360.4	4175394	0.000199	5.36E-04	0.00E+00	1.99E-04	5.36E-04	0.00E+00	3.23E-05	8.11E-05	0.00E+00	1.69E-05	3.09E-05	0.00E+00
4499	599377.1	4175388	0.000194	5.23E-04	0.00E+00	1.94E-04	5.23E-04	0.00E+00	3.16E-05	7.91E-05	0.00E+00	1.65E-05	3.02E-05	0.00E+00
4500	599393.8	4175381	0.000191	5.14E-04	0.00E+00	1.91E-04	5.14E-04	0.00E+00	3.10E-05	7.77E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00
4501	599410.4	4175375	0.000188	5.08E-04	0.00E+00	1.88E-04	5.08E-04	0.00E+00	3.06E-05	7.67E-05	0.00E+00	1.60E-05	2.92E-05	0.00E+00
4502	599477.1	4175349	0.000186	5.01E-04	0.00E+00	1.86E-04	5.01E-04	0.00E+00	3.02E-05	7.58E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
4503	599131.6	4175463	0.000327	8.82E-04	0.00E+00	3.27E-04	8.82E-04	0.00E+00	5.32E-05	1.33E-04	0.00E+00	2.78E-05	5.08E-05	0.00E+00
4504	599140.1	4175460	0.000317	8.55E-04	0.00E+00	3.17E-04	8.55E-04	0.00E+00	5.16E-05	1.29E-04	0.00E+00	2.69E-05	4.93E-05	0.00E+00
4505	599148.5	4175457	0.000308	8.30E-04	0.00E+00	3.08E-04	8.30E-04	0.00E+00	5.01E-05	1.26E-04	0.00E+00	2.61E-05	4.78E-05	0.00E+00
4506	599157	4175454	0.0003	8.09E-04	0.00E+00	3.00E-04	8.09E-04	0.00E+00	4.88E-05	1.22E-04	0.00E+00	2.55E-05	4.66E-05	0.00E+00
4507	599165.4	4175450	0.000293	7.91E-04	0.00E+00	2.93E-04	7.91E-04	0.00E+00	4.77E-05	1.20E-04	0.00E+00	2.49E-05	4.56E-05	0.00E+00
4508	599173.8	4175447	0.000287	7.75E-04	0.00E+00	2.87E-04	7.75E-04	0.00E+00	4.68E-05	1.17E-04	0.00E+00	2.44E-05	4.47E-05	0.00E+00
4509	599182.3	4175444	0.000282	7.59E-04	0.00E+00	2.82E-04	7.59E-04	0.00E+00	4.58E-05	1.15E-04	0.00E+00	2.39E-05	4.38E-05	0.00E+00
4510	599190.7	4175440	0.000275	7.42E-04	0.00E+00	2.75E-04	7.42E-04	0.00E+00	4.48E-05	1.12E-04	0.00E+00	2.34E-05	4.28E-05	0.00E+00
4511	599199.2	4175437	0.000269	7.25E-04	0.00E+00	2.69E-04	7.25E-04	0.00E+00	4.38E-05	1.10E-04	0.00E+00	2.28E-05	4.18E-05	0.00E+00
4512	599207.6	4175434	0.000263	7.10E-04	0.00E+00	2.63E-04	7.10E-04	0.00E+00	4.28E-05	1.07E-04	0.00E+00	2.23E-05	4.09E-05	0.00E+00
4513	599216.1	4175431	0.000258	6.95E-04	0.00E+00	2.58E-04	6.95E-04	0.00E+00	4.19E-05	1.05E-04	0.00E+00	2.19E-05	4.00E-05	0.00E+00
4514	599325.9	4175388	0.000203	5.47E-04	0.00E+00	2.03E-04	5.47E-04	0.00E+00	3.30E-05	8.26E-05	0.00E+00	1.72E-05	3.15E-05	0.00E+00
4515	599334.3	4175385	0.0002	5.39E-04	0.00E+00	2.00E-04	5.39E-04	0.00E+00	3.25E-05	8.15E-05	0.00E+00	1.70E-05	3.11E-05	0.00E+00
4516	599342.7	4175381	0.000197	5.30E-04	0.00E+00	1.97E-04	5.30E-04	0.00E+00	3.20E-05	8.01E-05	0.00E+00	1.67E-05	3.05E-05	0.00E+00
4517	599351.2	4175378	0.000193	5.21E-04	0.00E+00	1.93E-04	5.21E-04	0.00E+00	3.15E-05	7.88E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
4518	599359.6	4175375	0.000191	5.14E-04	0.00E+00	1.91E-04	5.14E-04	0.00E+00	3.10E-05	7.77E-05	0.00E+00	1.62E-05	2.96E-05	0.00E+00
4519	599368.1	4175372	0.000188	5.08E-04	0.00E+00	1.88E-04	5.08E-04	0.00E+00	3.06E-05	7.68E-05	0.00E+00	1.60E-05	2.93E-05	0.00E+00
4520	599376.5	4175368	0.000186	5.02E-04	0.00E+00	1.86E-04	5.02E-04	0.00E+00	3.03E-05	7.59E-05	0.00E+00	1.58E-05	2.89E-05	0.00E+00
4521	599385	4175365	0.000184	4.96E-04	0.00E+00	1.84E-04	4.96E-04	0.00E+00	2.99E-05	7.50E-05	0.00E+00	1.56E-05	2.86E-05	0.00E+00
4522	599393.4	4175362	0.000182	4.91E-04	0.00E+00	1.82E-04	4.91E-04	0.00E+00	2.96E-05	7.42E-05	0.00E+00	1.55E-05	2.83E-05	0.00E+00
4523	599401.9	4175358	0.000181	4.88E-04	0.00E+00	1.81E-04	4.88E-04	0.00E+00	2.94E-05	7.37E-05	0.00E+00	1.54E-05	2.81E-05	0.00E+00
4524	599133.7	4175443	0.000299	8.05E-04	0.00E+00	2.99E-04	8.05E-04	0.00E+00	4.86E-05	1.22E-04	0.00E+00	2.54E-05	4.64E-05	0.00E+00
4525	599142.2	4175440	0.00029	7.83E-04	0.00E+00	2.90E-04	7.83E-04	0.00E+00	4.73E-05	1.18E-04	0.00E+00	2.47E-05	4.51E-05	0.00E+00
4526	599159	4175433	0.000277	7.46E-04	0.00E+00	2.77E-04	7.46E-04	0.00E+00	4.50E-05	1.13E-04	0.00E+00	2.35E-05	4.30E-05	0.00E+00
4527	599167.4	4175430	0.000271	7.31E-04	0.00E+00	2.71E-04	7.31E-04	0.00E+00	4.41E-05	1.11E-04	0.00E+00	2.30E-05	4.22E-05	0.00E+00
4528	599184.3	4175423	0.000262	7.06E-04	0.00E+00	2.62E-04	7.06E-04	0.00E+00	4.26E-05	1.07E-04	0.00E+00	2.22E-05	4.07E-05	0.00E+00
4529	599192.7	4175420	0.000257	6.92E-04	0.00E+00	2.57E-04	6.92E-04	0.00E+00	4.18E-05	1.05E-04	0.00E+00	2.18E-05	3.99E-05	0.00E+00
4530	599209.5	4175414	0.000247	6.67E-04	0.00E+00	2.47E-04	6.67E-04	0.00E+00	4.03E-05	1.01E-04	0.00E+00	2.10E-05	3.85E-05	0.00E+00
4531	599217.9	4175410	0.000243	6.54E-04	0.00E+00	2.43E-04	6.54E-04	0.00E+00	3.95E-05	9.89E-05	0.00E+00	2.06E-05	3.77E-05	0.00E+00
4532	599319	4175371	0.000196	5.28E-04	0.00E+00	1.96E-04	5.28E-04	0.00E+00	3.19E-05	7.99E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
4533	599327.4	4175368	0.000193	5.20E-04	0.00E+00	1.93E-04	5.20E-04	0.00E+00	3.14E-05	7.86E-05	0.00E+00	1.64E-05	3.00E-05	0.00E+00
4534	599335.8	4175365	0.00019	5.12E-04	0.00E+00	1.90E-04	5.12E-04	0.00E+00	3.09E-05	7.74E-05	0.00E+00	1.61E-05	2.95E-05	0.00E+00
4535	599352.6	4175358	0.000185	4.99E-04	0.00E+00	1.85E-04	4.99E-04	0.00E+00	3.01E-05	7.54E-05	0.00E+00	1.57E-05	2.87E-05	0.00E+00
4536	599361	4175355	0.000183	4.93E-04	0.00E+00	1.83E-04	4.93E-04	0.00E+00	2.98E-05	7.46E-05	0.00E+00	1.55E-05	2.84E-05	0.00E+00
4537	599377.9	4175348	0.000178	4.80E-04	0.00E+00	1.78E-04	4.80E-04	0.00E+00	2.89E-05	7.25E-05	0.00E+00	1.51E-05	2.76E-05	0.00E+00
4538	599386.3	4175345	0.000176	4.74E-04	0.00E+00	1.76E-04	4.74E-04	0.00E+00	2.86E-05	7.16E-05	0.00E+00	1.49E-05	2.73E-05	0.00E+00
4539	599403.1	4175338	0.000173	4.66E-04	0.00E+00	1.73E-04	4.66E-04	0.00E+00	2.81E-05	7.05E-05	0.00E+00	1.47E-05	2.69E-05	0.00E+00
4540	599144.2	4175419	0.000266	7.16E-04	0.00E+00	2.66E-04	7.16E-04	0.00E+00	4.32E-05	1.08E-04	0.00E+00	2.26E-05	4.13E-05	0.00E+00
4541	599161	4175413	0.000256	6.90E-04	0.00E+00	2.56E-04	6.90E-04	0.00E+00	4.16E-05	1.04E-04	0.00E+00	2.17E-05	3.98E-05	0.00E+00
4542	599177.8	4175406	0.000248	6.70E-04	0.00E+00	2.48E-04	6.70E-04	0.00E+00	4.04E-05	1.01E-04	0.00E+00	2.11E-05	3.86E-05	0.00E+00
4543	599186.2	4175403	0.000244	6.59E-04	0.00E+00	2.44E-04	6.59E-04	0.00E+00	3.98E-05	9.96E-05	0.00E+00	2.08E-05	3.80E-05	0.00E+00
4544	599203	4175396	0.000237	6.39E-04	0.00E+00	2.37E-04	6.39E-04	0.00E+00	3.85E-05	9.66E-05	0.00E+00	2.01E-05	3.68E-05	0.00E+00
4545	599211.4	4175393	0.000233	6.29E-04	0.00E+00	2.33E-04	6.29E-04	0.00E+00	3.80E-05	9.52E-05	0.00E+00	1.98E-05	3.63E-05	0.00E+00
4546	599320.5	4175351	0.000187	5.03E-04	0.00E+00	1.87E-04	5.03E-04	0.00E+00	3.04E-05	7.61E-05	0.00E+00	1.59E-05	2.90E-05	0.00E+00
4547	599328.9	4175348	0.000183	4.95E-04	0.00E+00	1.83E-04	4.95E-04	0.00E+00	2.98E-05	7.48E-05	0.00E+00	1.56E-05	2.85E-05	0.00E+00

4548	599345.6	4175341	0.000178	4.81E-04	0.00E+00		1.78E-04	4.81E-04	0.00E+00		2.90E-05	7.27E-05	0.00E+00		1.51E-05	2.77E-05	0.00E+00
4549	599362.4	4175335	0.000174	4.70E-04	0.00E+00		1.74E-04	4.70E-04	0.00E+00		2.84E-05	7.11E-05	0.00E+00		1.48E-05	2.71E-05	0.00E+00
4550	599379.2	4175328	0.00017	4.58E-04	0.00E+00		1.70E-04	4.58E-04	0.00E+00		2.76E-05	6.92E-05	0.00E+00		1.44E-05	2.64E-05	0.00E+00
4551	599387.6	4175325	0.000168	4.52E-04	0.00E+00		1.68E-04	4.52E-04	0.00E+00		2.73E-05	6.84E-05	0.00E+00		1.43E-05	2.61E-05	0.00E+00
4552	599404.4	4175318	0.000166	4.46E-04	0.00E+00		1.66E-04	4.46E-04	0.00E+00		2.69E-05	6.75E-05	0.00E+00		1.41E-05	2.57E-05	0.00E+00
4553	599471.5	4175292	0.000165	4.46E-04	0.00E+00		1.65E-04	4.46E-04	0.00E+00		2.69E-05	6.74E-05	0.00E+00		1.40E-05	2.57E-05	0.00E+00
4554	599137.8	4175402	0.000253	6.83E-04	0.00E+00		2.53E-04	6.83E-04	0.00E+00		4.12E-05	1.03E-04	0.00E+00		2.15E-05	3.94E-05	0.00E+00
4555	599154.5	4175396	0.000245	6.60E-04	0.00E+00		2.45E-04	6.60E-04	0.00E+00		3.98E-05	9.97E-05	0.00E+00		2.08E-05	3.80E-05	0.00E+00
4556	599171.3	4175389	0.000237	6.38E-04	0.00E+00		2.37E-04	6.38E-04	0.00E+00		3.85E-05	9.65E-05	0.00E+00		2.01E-05	3.68E-05	0.00E+00
4557	599188	4175383	0.000229	6.18E-04	0.00E+00		2.29E-04	6.18E-04	0.00E+00		3.73E-05	9.35E-05	0.00E+00		1.95E-05	3.56E-05	0.00E+00
4558	599204.8	4175376	0.000224	6.03E-04	0.00E+00		2.24E-04	6.03E-04	0.00E+00		3.64E-05	9.12E-05	0.00E+00		1.90E-05	3.48E-05	0.00E+00
4559	599321.9	4175331	0.000177	4.78E-04	0.00E+00		1.77E-04	4.78E-04	0.00E+00		2.89E-05	7.24E-05	0.00E+00		1.51E-05	2.76E-05	0.00E+00
4560	599338.7	4175324	0.000172	4.64E-04	0.00E+00		1.72E-04	4.64E-04	0.00E+00		2.80E-05	7.01E-05	0.00E+00		1.46E-05	2.67E-05	0.00E+00
4561	599355.4	4175318	0.000168	4.53E-04	0.00E+00		1.68E-04	4.53E-04	0.00E+00		2.73E-05	6.85E-05	0.00E+00		1.43E-05	2.61E-05	0.00E+00
4562	599372.2	4175311	0.000164	4.43E-04	0.00E+00		1.64E-04	4.43E-04	0.00E+00		2.67E-05	6.69E-05	0.00E+00		1.39E-05	2.55E-05	0.00E+00
4563	599388.9	4175305	0.000161	4.33E-04	0.00E+00		1.61E-04	4.33E-04	0.00E+00		2.61E-05	6.55E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
4564	599405.6	4175298	0.000159	4.28E-04	0.00E+00		1.59E-04	4.28E-04	0.00E+00		2.58E-05	6.47E-05	0.00E+00		1.35E-05	2.47E-05	0.00E+00
4565	599472.6	4175272	0.000159	4.28E-04	0.00E+00		1.59E-04	4.28E-04	0.00E+00		2.58E-05	6.48E-05	0.00E+00		1.35E-05	2.47E-05	0.00E+00
4566	599126.1	4175387	0.000246	6.62E-04	0.00E+00		2.46E-04	6.62E-04	0.00E+00		3.99E-05	1.00E-04	0.00E+00		2.08E-05	3.82E-05	0.00E+00
4567	599134.5	4175384	0.000241	6.50E-04	0.00E+00		2.41E-04	6.50E-04	0.00E+00		3.92E-05	9.83E-05	0.00E+00		2.05E-05	3.75E-05	0.00E+00
4568	599143	4175381	0.000237	6.38E-04	0.00E+00		2.37E-04	6.38E-04	0.00E+00		3.85E-05	9.65E-05	0.00E+00		2.01E-05	3.68E-05	0.00E+00
4569	599151.5	4175377	0.000232	6.26E-04	0.00E+00		2.32E-04	6.26E-04	0.00E+00		3.78E-05	9.47E-05	0.00E+00		1.97E-05	3.61E-05	0.00E+00
4570	599160	4175374	0.000228	6.16E-04	0.00E+00		2.28E-04	6.16E-04	0.00E+00		3.72E-05	9.31E-05	0.00E+00		1.94E-05	3.55E-05	0.00E+00
4571	599168.4	4175371	0.000225	6.06E-04	0.00E+00		2.25E-04	6.06E-04	0.00E+00		3.66E-05	9.17E-05	0.00E+00		1.91E-05	3.49E-05	0.00E+00
4572	599176.9	4175367	0.000222	5.97E-04	0.00E+00		2.22E-04	5.97E-04	0.00E+00		3.60E-05	9.03E-05	0.00E+00		1.88E-05	3.44E-05	0.00E+00
4573	599185.4	4175364	0.000219	5.89E-04	0.00E+00		2.19E-04	5.89E-04	0.00E+00		3.56E-05	8.91E-05	0.00E+00		1.86E-05	3.40E-05	0.00E+00
4574	599193.8	4175361	0.000216	5.82E-04	0.00E+00		2.16E-04	5.82E-04	0.00E+00		3.51E-05	8.81E-05	0.00E+00		1.83E-05	3.36E-05	0.00E+00
4575	599202.3	4175358	0.000213	5.75E-04	0.00E+00		2.13E-04	5.75E-04	0.00E+00		3.47E-05	8.70E-05	0.00E+00		1.81E-05	3.32E-05	0.00E+00
4576	599312.4	4175315	0.000173	4.66E-04	0.00E+00		1.73E-04	4.66E-04	0.00E+00		2.81E-05	7.04E-05	0.00E+00		1.47E-05	2.68E-05	0.00E+00
4577	599320.8	4175312	0.00017	4.58E-04	0.00E+00		1.70E-04	4.58E-04	0.00E+00		2.76E-05	6.92E-05	0.00E+00		1.44E-05	2.64E-05	0.00E+00
4578	599329.3	4175308	0.000167	4.50E-04	0.00E+00		1.67E-04	4.50E-04	0.00E+00		2.72E-05	6.81E-05	0.00E+00		1.42E-05	2.59E-05	0.00E+00
4579	599337.8	4175305	0.000165	4.44E-04	0.00E+00		1.65E-04	4.44E-04	0.00E+00		2.68E-05	6.71E-05	0.00E+00		1.40E-05	2.56E-05	0.00E+00
4580	599346.3	4175302	0.000163	4.39E-04	0.00E+00		1.63E-04	4.39E-04	0.00E+00		2.65E-05	6.63E-05	0.00E+00		1.38E-05	2.53E-05	0.00E+00
4581	599354.7	4175298	0.000161	4.34E-04	0.00E+00		1.61E-04	4.34E-04	0.00E+00		2.62E-05	6.56E-05	0.00E+00		1.37E-05	2.50E-05	0.00E+00
4582	599363.2	4175295	0.000159	4.30E-04	0.00E+00		1.59E-04	4.30E-04	0.00E+00		2.59E-05	6.50E-05	0.00E+00		1.35E-05	2.48E-05	0.00E+00
4583	599371.7	4175292	0.000157	4.24E-04	0.00E+00		1.57E-04	4.24E-04	0.00E+00		2.56E-05	6.42E-05	0.00E+00		1.34E-05	2.45E-05	0.00E+00
4584	599380.1	4175289	0.000156	4.20E-04	0.00E+00		1.56E-04	4.20E-04	0.00E+00		2.53E-05	6.35E-05	0.00E+00		1.32E-05	2.42E-05	0.00E+00
4585	599388.6	4175285	0.000154	4.15E-04	0.00E+00		1.54E-04	4.15E-04	0.00E+00		2.51E-05	6.28E-05	0.00E+00		1.31E-05	2.39E-05	0.00E+00
4586	599397.1	4175282	0.000153	4.13E-04	0.00E+00		1.53E-04	4.13E-04	0.00E+00		2.49E-05	6.24E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
4587	599405.5	4175279	0.000152	4.11E-04	0.00E+00		1.52E-04	4.11E-04	0.00E+00		2.48E-05	6.22E-05	0.00E+00		1.29E-05	2.37E-05	0.00E+00
4588	599473.3	4175252	0.000153	4.12E-04	0.00E+00		1.53E-04	4.12E-04	0.00E+00		2.49E-05	6.23E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
4589	599481.7	4175249	0.000153	4.13E-04	0.00E+00		1.53E-04	4.13E-04	0.00E+00		2.49E-05	6.24E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
4590	599490.2	4175246	0.000153	4.13E-04	0.00E+00		1.53E-04	4.13E-04	0.00E+00		2.49E-05	6.25E-05	0.00E+00		1.30E-05	2.38E-05	0.00E+00
4591	599128.2	4175367	0.000231	6.24E-04	0.00E+00		2.31E-04	6.24E-04	0.00E+00		3.76E-05	9.43E-05	0.00E+00		1.96E-05	3.59E-05	0.00E+00
4592	599136.6	4175363	0.000227	6.11E-04	0.00E+00		2.27E-04	6.11E-04	0.00E+00		3.69E-05	9.25E-05	0.00E+00		1.93E-05	3.52E-05	0.00E+00
4593	599145	4175360	0.000222	5.99E-04	0.00E+00		2.22E-04	5.99E-04	0.00E+00		3.61E-05	9.06E-05	0.00E+00		1.89E-05	3.45E-05	0.00E+00
4594	599153.5	4175357	0.000218	5.87E-04	0.00E+00		2.18E-04	5.87E-04	0.00E+00		3.54E-05	8.87E-05	0.00E+00		1.85E-05	3.38E-05	0.00E+00
4595	599161.9	4175354	0.000215	5.79E-04	0.00E+00		2.15E-04	5.79E-04	0.00E+00		3.50E-05	8.76E-05	0.00E+00		1.82E-05	3.34E-05	0.00E+00
4596	599170.4	4175350	0.000212	5.73E-04	0.00E+00		2.12E-04	5.73E-04	0.00E+00		3.45E-05	8.66E-05	0.00E+00		1.80E-05	3.30E-05	0.00E+00
4597	599178.8	4175347	0.00021	5.66E-04	0.00E+00		2.10E-04	5.66E-04	0.00E+00		3.41E-05	8.56E-05	0.00E+00		1.78E-05	3.26E-05	0.00E+00
4598	599187.3	4175344	0.000207	5.59E-04	0.00E+00		2.07E-04	5.59E-04	0.00E+00		3.37E-05	8.45E-05	0.00E+00		1.76E-05	3.22E-05	0.00E+00
4599	599195.7	4175341	0.000204	5.51E-04	0.00E+00		2.04E-04	5.51E-04	0.00E+00		3.33E-05	8.34E-05	0.00E+00		1.74E-05	3.18E-05	0.00E+00
4600	599204.1	4175337	0.000201	5.43E-04	0.00E+00		2.01E-04	5.43E-04	0.00E+00		3.28E-05	8.21E-05	0.00E+00		1.71E-05	3.13E-05	0.00E+00
4601	599305.5	4175298	0.000167	4.51E-04	0.00E+00		1.67E-04	4.51E-04	0.00E+00		2.72E-05	6.82E-05	0.00E+00		1.42E-05	2.60E-05	0.00E+00
4602	599313.9	4175295	0.000165	4.44E-04	0.00E+00		1.65E-04	4.44E-04	0.00E+00		2.68E-05	6.71E-05	0.00E+00		1.40E-05	2.56E-05	0.00E+00
4603	599322.4	4175291	0.000162	4.36E-04	0.00E+00		1.62E-04	4.36E-04	0.00E+00		2.63E-05	6.60E-05	0.00E+00		1.37E-05	2.52E-05	0.00E+00
4604	599330.8	4175288	0.000159	4.29E-04	0.00E+00		1.59E-04	4.29E-04	0.00E+00		2.59E-05	6.49E-05	0.00E+00		1.35E-05	2.47E-05	0.00E+00
4605	599339.2	4175285	0.000157	4.24E-04	0.00E+00		1.57E-04	4.24E-04	0.00E+00		2.56E-05	6.41E-05	0.00E+00		1.34E-05	2.44E-05	0.00E+00
4606	599347.7	4175282	0.000156	4.19E-04	0.00E+00		1.56E-04	4.19E-04	0.00E+00		2.53E-05	6.34E-05	0.00E+00		1.32E-05	2.42E-05	0.00E+00
4607	599356.1	4175278	0.000154	4.15E-04	0.00E+00		1.54E-04	4.15E-04	0.00E+00		2.50E-05	6.28E-05	0.00E+00		1.31E-05	2.39E-05	0.00E+00
4608	599364.6	4175275	0.000153	4.11E-04	0.00E+00		1.53E-04	4.11E-04	0.00E+00		2.48E-05	6.22E-05	0.00E+00		1.29E-05	2.37E-05	0.00E+00
4609	599373	4175272	0.000151	4.06E-04	0.00E+00		1.51E-04	4.06E-04	0.00E+00		2.45E-05	6.14E-05	0.00E+00		1.28E-05	2.34E-05	0.00E+00
4610	599381.5	4175268	0.000149	4.02E-04	0.00E+00		1.49E-04	4.02E-04	0.00E+00		2.43E-05	6.08E-05	0.00E+00		1.27E-05	2.32E-05	0.00E+00
4611	599389.9	4175265	0.000148	3.98E-04	0.00E+00		1.48E-04	3.98E-04	0.00E+00		2.40E-05	6.03E-05	0.00E+00		1.25E-05	2.30E-05	0.00E+00
4612	599398.3	4175262	0.000147	3.96E-04	0.00E+00		1.47E-04	3.96E-04	0.00E+00		2.39E-05	5.99E-05	0.00E+00		1.25E-05	2.28E-05	0.00E+00
4613	599406.8	4175259	0.000147	3.95E-04	0.00E+00		1.47E-04	3.95E-04	0.00E+00		2.38E-05	5.97E-05	0.00E+00		1.24E-05	2.28E-05	0.00E+00
4614	599474.3	4175232	0.000147	3.96E-04	0.00E+00		1.47E-04	3.96E-04	0.00E+00		2.39E-05	5.99E-05	0.00E+00		1.25E-05	2.28E-05	0.00E+00
4615	599482.8	4175229	0.000147	3.97E-04	0.00E+00		1.47E-04	3.97E-04	0.00E+00		2.39E-05	6.00E-05	0.00E+00		1.25E-05	2.29E-05	0.00E+00
4616	599491.2	4175226	0.000147	3.97E-04	0.00E+00		1.47E-04	3.97E-04	0.00E+00		2.39E-05	6.00E-05	0.00E+00		1.25E-05	2.29E-05	0.00E+00
4617	599121.7	4175350	0.000222	5.99E-04	0.00E+00		2.22E-04	5.99E-04	0.00E+00		3.61E-05	9.05E-05	0.00E+00		1.89E-05	3.45E-05	0.00E+00
4618	599130.2	4175346	0.000218	5.87E-04	0.00E+00		2.18E-04	5.87E-04	0.00E+00		3.54E-05	8.87E-05	0.00E+00		1.85E-05	3.38E-05	0.00E+00
4619	599147	4175340	0.00021	5.65E-04	0.00E+00		2.10E-04	5.65E-04	0.00E+00		3.41E-05	8.55E-05	0.00E+00		1.78E-05	3.26E-05	0.00E+00
4620	599155.4	4175337	0.000206	5.56E-04	0.00E+00		2.06E-04	5.56E-04	0.00E+00		3.36E-05	8.41E-05	0.00E+00		1.75E-05	3.21E-05	0.00E+00
4621	599172.3	4175330	0.000202	5.44E-04	0.00E+00		2.02E-04	5.44E-04	0.00E+00		3.28E-05	8.22E-05	0.00E+00		1.71E-05	3.13E-05	0.00E+00
4622	599180.7	4175327	0.000199	5.38E-04	0.00E+00		1.99E-04	5.38E-04	0.00E+00		3.24E-05	8.13E-05	0.00E+00		1.69E-05	3.10E-05	0.00E+00
4623	599189.1	4175323	0.000197	5.30E-04	0.00E+00		1.97E-04	5.30E-04	0.00E+00		3.20E-05	8.02E-05	0.00E+00		1.67E-05	3.06E-05	0.00E+00
4624	599205.9	4175317	0.000191	5.14E-04	0.00E+00		1.91E-04	5.14E-04	0.00E+00		3.10E-05	7.78E-05	0.00E+00		1.62E-05	2.96E-05	0.00E+00
4625	599298.6	4175281	0.000162	4.36E-04	0.00E+00		1.62E-04	4.36E-04	0.00E+00		2.63E-05	6.60E-05	0.00E+00		1.37E-05	2.52E-05	0.00E+00
4626	599307	4175278	0.00016	4.30E-04	0.00E+00		1.60E-04	4.30E-04	0.00E+00		2.60E-05	6.51E-05	0.00E+00		1.36E-05	2.48E-05	0.00E+00
4627	599323.8	4175271	0.000155	4.17E-04	0.00E+00		1.55E-04	4.17E-04	0.00E+00		2.51E-05	6.30E-05	0.00E+00		1.31E-05	2.40E-05	0.00E+00
4628	599332.2	4175268	0.000152	4.10E-04	0.00E+00		1.52E-04	4.10E-04	0.00E+00		2.47E-05	6.20E-05	0.00E+00		1.29E-05	2.36E-05	0.00E+00
4629	599340.7	4175265	0.00015	4.05E-04	0.00E+00		1.50E-04	4.05E-04	0.00E+00		2.45E-05	6.13E-05	0.00E+00		1.28E-05	2.34E-05	0.00E+00
4630	599357.5	4175258	0.000147	3.98E-04	0.00E+00		1.47E-04	3.98E-04	0.00E+00		2.40E-05	6.01E-05	0.00E+00		1.25E-05	2.29E-05	0.00E+00
4631	599365.9	4175255	0.000146	3.94E-04	0.00E+00		1.46E-04	3.94E-04	0.00E+00		2.38E-05	5.96E-05	0.00E+00		1.24E-05	2.27E-05	0.00E+00
4632	599382.8	4175248	0.000143	3.86E-04	0.00E+00		1.43E-04	3.86E-04	0.00E+00		2.33E-05	5.84E-05	0.00E+00		1.22E-05	2.22E-05	0.00E+00
4633	599391.2	4175245	0.000142	3.83E-04	0.00E+00		1.42E-04	3.83E-04	0.00E+00		2.31E-05	5.79E-05	0.00E+00		1.21E-05	2.21E-05	0.00E+00
4634	599399.6	4175242	0.000141	3.81E-04	0.00E+00		1.41E-04	3.81E-04	0.00E+00		2.30E-05	5.76E-05	0.00E+00		1.20E-05	2.20E-05	0.00E+00
4635	599475.4	4175212	0.000141	3.79E-04	0.00E+00		1.41E-04	3.79E-04	0.00E+00		2.29E-05	5.73E-05	0.00E+00		1.19E-05	2.19E-05	0.00E+00
4636	599483.8	4175209	0.000141	3.79E-04	0.00E+00		1.41E-04	3.79E-04	0.00E+00		2.29E-05	5.74E-05	0.00E+00		1.19E-05	2.19E-05	0.00E+00
4637	599123.7	4175329	0.000208	5.61E-04	0.00E+00		2.08E-04	5.61E-04	0.00E+00		3.39E-05	8.49E-05	0.00E+00		1.77E-05	3.24E-05	0.00E+00
4638	599132.1	4175326	0.000205	5.52E-04	0.00E+00		2.05E-04	5.52E-04	0.00E+00		3.33E-05	8.35E-05	0.00E+00		1.74E-05	3.18E-05	0.00E+00

4639	599148.9	4175319	0.000199	5.36E-04	0.00E+00	1.99E-04	5.36E-04	0.00E+00	3.23E-05	8.10E-05	0.00E+00	1.69E-05	3.09E-05	0.00E+00
4640	599165.7	4175313	0.000194	5.23E-04	0.00E+00	1.94E-04	5.23E-04	0.00E+00	3.16E-05	7.91E-05	0.00E+00	1.65E-05	3.01E-05	0.00E+00
4641	599174.1	4175310	0.000192	5.17E-04	0.00E+00	1.92E-04	5.17E-04	0.00E+00	3.12E-05	7.82E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
4642	599190.9	4175303	0.000187	5.04E-04	0.00E+00	1.87E-04	5.04E-04	0.00E+00	3.04E-05	7.63E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
4643	599199.3	4175300	0.000184	4.97E-04	0.00E+00	1.84E-04	4.97E-04	0.00E+00	3.00E-05	7.51E-05	0.00E+00	1.56E-05	2.86E-05	0.00E+00
4644	599291.7	4175264	0.000157	4.22E-04	0.00E+00	1.57E-04	4.22E-04	0.00E+00	2.55E-05	6.38E-05	0.00E+00	1.33E-05	2.43E-05	0.00E+00
4645	599308.5	4175258	0.000152	4.11E-04	0.00E+00	1.52E-04	4.11E-04	0.00E+00	2.48E-05	6.21E-05	0.00E+00	1.29E-05	2.37E-05	0.00E+00
4646	599325.3	4175251	0.000148	3.98E-04	0.00E+00	1.48E-04	3.98E-04	0.00E+00	2.40E-05	6.02E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
4647	599333.7	4175248	0.000145	3.92E-04	0.00E+00	1.45E-04	3.92E-04	0.00E+00	2.37E-05	5.93E-05	0.00E+00	1.24E-05	2.26E-05	0.00E+00
4648	599350.5	4175241	0.000143	3.85E-04	0.00E+00	1.43E-04	3.85E-04	0.00E+00	2.32E-05	5.81E-05	0.00E+00	1.21E-05	2.22E-05	0.00E+00
4649	599358.9	4175238	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.77E-05	0.00E+00	1.20E-05	2.20E-05	0.00E+00
4650	599375.7	4175231	0.000139	3.74E-04	0.00E+00	1.39E-04	3.74E-04	0.00E+00	2.26E-05	5.66E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
4651	599384.1	4175228	0.000138	3.71E-04	0.00E+00	1.38E-04	3.71E-04	0.00E+00	2.24E-05	5.61E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
4652	599400.9	4175222	0.000136	3.66E-04	0.00E+00	1.36E-04	3.66E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
4653	599468	4175196	0.000135	3.64E-04	0.00E+00	1.35E-04	3.64E-04	0.00E+00	2.20E-05	5.51E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
4654	599476.4	4175192	0.000135	3.65E-04	0.00E+00	1.35E-04	3.65E-04	0.00E+00	2.20E-05	5.52E-05	0.00E+00	1.15E-05	2.10E-05	0.00E+00
4655	599493.2	4175186	0.000136	3.66E-04	0.00E+00	1.36E-04	3.66E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
4656	599125.6	4175309	0.000197	5.32E-04	0.00E+00	1.97E-04	5.32E-04	0.00E+00	3.21E-05	8.05E-05	0.00E+00	1.68E-05	3.07E-05	0.00E+00
4657	599142.4	4175302	0.000192	5.17E-04	0.00E+00	1.92E-04	5.17E-04	0.00E+00	3.12E-05	7.82E-05	0.00E+00	1.63E-05	2.98E-05	0.00E+00
4658	599159.2	4175296	0.000187	5.03E-04	0.00E+00	1.87E-04	5.03E-04	0.00E+00	3.04E-05	7.61E-05	0.00E+00	1.59E-05	2.90E-05	0.00E+00
4659	599175.9	4175289	0.000182	4.92E-04	0.00E+00	1.82E-04	4.92E-04	0.00E+00	2.97E-05	7.44E-05	0.00E+00	1.55E-05	2.83E-05	0.00E+00
4660	599293.2	4175244	0.00015	4.03E-04	0.00E+00	1.50E-04	4.03E-04	0.00E+00	2.43E-05	6.10E-05	0.00E+00	1.27E-05	2.32E-05	0.00E+00
4661	599309.9	4175237	0.000146	3.93E-04	0.00E+00	1.46E-04	3.93E-04	0.00E+00	2.37E-05	5.94E-05	0.00E+00	1.24E-05	2.26E-05	0.00E+00
4662	599326.7	4175231	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.76E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
4663	599343.4	4175224	0.000138	3.72E-04	0.00E+00	1.38E-04	3.72E-04	0.00E+00	2.25E-05	5.63E-05	0.00E+00	1.17E-05	2.15E-05	0.00E+00
4664	599360.2	4175218	0.000136	3.66E-04	0.00E+00	1.36E-04	3.66E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
4665	599377	4175211	0.000133	3.60E-04	0.00E+00	1.33E-04	3.60E-04	0.00E+00	2.17E-05	5.44E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
4666	599393.7	4175205	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00
4667	599477.5	4175172	0.000131	3.53E-04	0.00E+00	1.31E-04	3.53E-04	0.00E+00	2.13E-05	5.33E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
4668	599114.2	4175294	0.000196	5.27E-04	0.00E+00	1.96E-04	5.27E-04	0.00E+00	3.18E-05	7.97E-05	0.00E+00	1.66E-05	3.04E-05	0.00E+00
4669	599122.7	4175290	0.00019	5.12E-04	0.00E+00	1.90E-04	5.12E-04	0.00E+00	3.09E-05	7.75E-05	0.00E+00	1.61E-05	2.95E-05	0.00E+00
4670	599131.2	4175287	0.000187	5.05E-04	0.00E+00	1.87E-04	5.05E-04	0.00E+00	3.04E-05	7.63E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
4671	599139.6	4175284	0.000184	4.97E-04	0.00E+00	1.84E-04	4.97E-04	0.00E+00	3.00E-05	7.52E-05	0.00E+00	1.57E-05	2.87E-05	0.00E+00
4672	599148.1	4175281	0.000182	4.90E-04	0.00E+00	1.82E-04	4.90E-04	0.00E+00	2.95E-05	7.40E-05	0.00E+00	1.54E-05	2.82E-05	0.00E+00
4673	599156.6	4175277	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.29E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
4674	599165	4175274	0.000176	4.76E-04	0.00E+00	1.76E-04	4.76E-04	0.00E+00	2.87E-05	7.19E-05	0.00E+00	1.50E-05	2.74E-05	0.00E+00
4675	599173.5	4175271	0.000174	4.69E-04	0.00E+00	1.74E-04	4.69E-04	0.00E+00	2.83E-05	7.09E-05	0.00E+00	1.48E-05	2.70E-05	0.00E+00
4676	599182	4175267	0.000171	4.62E-04	0.00E+00	1.71E-04	4.62E-04	0.00E+00	2.79E-05	6.99E-05	0.00E+00	1.46E-05	2.66E-05	0.00E+00
4677	599275.1	4175231	0.000147	3.97E-04	0.00E+00	1.47E-04	3.97E-04	0.00E+00	2.39E-05	6.00E-05	0.00E+00	1.25E-05	2.29E-05	0.00E+00
4678	599283.5	4175228	0.000145	3.92E-04	0.00E+00	1.45E-04	3.92E-04	0.00E+00	2.36E-05	5.92E-05	0.00E+00	1.23E-05	2.26E-05	0.00E+00
4679	599292	4175225	0.000143	3.86E-04	0.00E+00	1.43E-04	3.86E-04	0.00E+00	2.33E-05	5.84E-05	0.00E+00	1.22E-05	2.23E-05	0.00E+00
4680	599300.5	4175221	0.000141	3.81E-04	0.00E+00	1.41E-04	3.81E-04	0.00E+00	2.30E-05	5.76E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
4681	599308.9	4175218	0.000139	3.75E-04	0.00E+00	1.39E-04	3.75E-04	0.00E+00	2.26E-05	5.67E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
4682	599317.4	4175215	0.000137	3.70E-04	0.00E+00	1.37E-04	3.70E-04	0.00E+00	2.23E-05	5.60E-05	0.00E+00	1.17E-05	2.13E-05	0.00E+00
4683	599325.8	4175212	0.000136	3.65E-04	0.00E+00	1.36E-04	3.65E-04	0.00E+00	2.21E-05	5.53E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
4684	599334.3	4175208	0.000134	3.62E-04	0.00E+00	1.34E-04	3.62E-04	0.00E+00	2.18E-05	5.47E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
4685	599342.8	4175205	0.000133	3.58E-04	0.00E+00	1.33E-04	3.58E-04	0.00E+00	2.16E-05	5.42E-05	0.00E+00	1.13E-05	2.06E-05	0.00E+00
4686	599351.2	4175202	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.37E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
4687	599359.7	4175198	0.00013	3.52E-04	0.00E+00	1.30E-04	3.52E-04	0.00E+00	2.12E-05	5.32E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
4688	599368.2	4175195	0.000129	3.48E-04	0.00E+00	1.29E-04	3.48E-04	0.00E+00	2.10E-05	5.26E-05	0.00E+00	1.10E-05	2.01E-05	0.00E+00
4689	599376.6	4175192	0.000128	3.45E-04	0.00E+00	1.28E-04	3.45E-04	0.00E+00	2.08E-05	5.21E-05	0.00E+00	1.09E-05	1.99E-05	0.00E+00
4690	599385.1	4175189	0.000127	3.41E-04	0.00E+00	1.27E-04	3.41E-04	0.00E+00	2.06E-05	5.16E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
4691	599393.6	4175185	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.04E-05	5.12E-05	0.00E+00	1.07E-05	1.95E-05	0.00E+00
4692	599402	4175182	0.000125	3.38E-04	0.00E+00	1.25E-04	3.38E-04	0.00E+00	2.04E-05	5.10E-05	0.00E+00	1.06E-05	1.95E-05	0.00E+00
4693	599469.7	4175156	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.05E-05	5.13E-05	0.00E+00	1.07E-05	1.95E-05	0.00E+00
4694	599478.2	4175153	0.000126	3.40E-04	0.00E+00	1.26E-04	3.40E-04	0.00E+00	2.05E-05	5.15E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
4695	599486.7	4175149	0.000127	3.41E-04	0.00E+00	1.27E-04	3.41E-04	0.00E+00	2.06E-05	5.16E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
4696	599495.1	4175146	0.000127	3.42E-04	0.00E+00	1.27E-04	3.42E-04	0.00E+00	2.06E-05	5.17E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
4697	599107.8	4175277	0.000192	5.18E-04	0.00E+00	1.92E-04	5.18E-04	0.00E+00	3.13E-05	7.84E-05	0.00E+00	1.63E-05	2.99E-05	0.00E+00
4698	599116.2	4175273	0.000187	5.04E-04	0.00E+00	1.87E-04	5.04E-04	0.00E+00	3.04E-05	7.63E-05	0.00E+00	1.59E-05	2.91E-05	0.00E+00
4699	599124.7	4175270	0.000182	4.91E-04	0.00E+00	1.82E-04	4.91E-04	0.00E+00	2.97E-05	7.43E-05	0.00E+00	1.55E-05	2.83E-05	0.00E+00
4700	599133.1	4175267	0.000179	4.84E-04	0.00E+00	1.79E-04	4.84E-04	0.00E+00	2.92E-05	7.31E-05	0.00E+00	1.52E-05	2.79E-05	0.00E+00
4701	599141.6	4175264	0.000176	4.75E-04	0.00E+00	1.76E-04	4.75E-04	0.00E+00	2.87E-05	7.19E-05	0.00E+00	1.50E-05	2.74E-05	0.00E+00
4702	599150	4175260	0.000173	4.67E-04	0.00E+00	1.73E-04	4.67E-04	0.00E+00	2.82E-05	7.06E-05	0.00E+00	1.47E-05	2.69E-05	0.00E+00
4703	599158.4	4175257	0.000171	4.60E-04	0.00E+00	1.71E-04	4.60E-04	0.00E+00	2.77E-05	6.95E-05	0.00E+00	1.45E-05	2.65E-05	0.00E+00
4704	599166.9	4175254	0.000168	4.53E-04	0.00E+00	1.68E-04	4.53E-04	0.00E+00	2.74E-05	6.85E-05	0.00E+00	1.43E-05	2.61E-05	0.00E+00
4705	599175.3	4175250	0.000166	4.47E-04	0.00E+00	1.66E-04	4.47E-04	0.00E+00	2.70E-05	6.76E-05	0.00E+00	1.41E-05	2.58E-05	0.00E+00
4706	599268.2	4175214	0.000143	3.85E-04	0.00E+00	1.43E-04	3.85E-04	0.00E+00	2.32E-05	5.82E-05	0.00E+00	1.21E-05	2.22E-05	0.00E+00
4707	599276.6	4175211	0.000141	3.80E-04	0.00E+00	1.41E-04	3.80E-04	0.00E+00	2.29E-05	5.74E-05	0.00E+00	1.20E-05	2.19E-05	0.00E+00
4708	599285.1	4175208	0.000139	3.74E-04	0.00E+00	1.39E-04	3.74E-04	0.00E+00	2.26E-05	5.65E-05	0.00E+00	1.18E-05	2.15E-05	0.00E+00
4709	599293.5	4175205	0.000136	3.68E-04	0.00E+00	1.36E-04	3.68E-04	0.00E+00	2.22E-05	5.56E-05	0.00E+00	1.16E-05	2.12E-05	0.00E+00
4710	599302	4175201	0.000134	3.62E-04	0.00E+00	1.34E-04	3.62E-04	0.00E+00	2.19E-05	5.48E-05	0.00E+00	1.14E-05	2.09E-05	0.00E+00
4711	599310.4	4175198	0.000133	3.58E-04	0.00E+00	1.33E-04	3.58E-04	0.00E+00	2.16E-05	5.41E-05	0.00E+00	1.13E-05	2.06E-05	0.00E+00
4712	599318.8	4175195	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00
4713	599327.3	4175191	0.00013	3.51E-04	0.00E+00	1.30E-04	3.51E-04	0.00E+00	2.12E-05	5.30E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
4714	599335.7	4175188	0.000129	3.47E-04	0.00E+00	1.29E-04	3.47E-04	0.00E+00	2.09E-05	5.25E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
4715	599344.2	4175185	0.000127	3.43E-04	0.00E+00	1.27E-04	3.43E-04	0.00E+00	2.07E-05	5.19E-05	0.00E+00	1.08E-05	1.98E-05	0.00E+00
4716	599352.6	4175182	0.000126	3.39E-04	0.00E+00	1.26E-04	3.39E-04	0.00E+00	2.05E-05	5.13E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
4717	599361.1	4175178	0.000125	3.36E-04	0.00E+00	1.25E-04	3.36E-04	0.00E+00	2.03E-05	5.08E-05	0.00E+00	1.06E-05	1.94E-05	0.00E+00
4718	599369.5	4175175	0.000123	3.32E-04	0.00E+00	1.23E-04	3.32E-04	0.00E+00	2.00E-05	5.02E-05	0.00E+00	1.05E-05	1.91E-05	0.00E+00
4719	599377.9	4175172	0.000122	3.29E-04	0.00E+00	1.22E-04	3.29E-04	0.00E+00	1.99E-05	4.98E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
4720	599386.4	4175169	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.95E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
4721	599394.8	4175165	0.000121	3.26E-04	0.00E+00	1.21E-04	3.26E-04	0.00E+00	1.97E-05	4.93E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
4722	599403.3	4175162	0.00012	3.25E-04	0.00E+00	1.20E-04	3.25E-04	0.00E+00	1.96E-05	4.91E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
4723	599470.8	4175136	0.000121	3.26E-04	0.00E+00	1.21E-04	3.26E-04	0.00E+00	1.97E-05	4.93E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
4724	599479.2	4175133	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.98E-05	4.95E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
4725	599487.7	4175129	0.000122	3.28E-04	0.00E+00	1.22E-04	3.28E-04	0.00E+00	1.98E-05	4.97E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
4726	599496.1	4175126	0.000122	3.29E-04	0.00E+00	1.22E-04	3.29E-04	0.00E+00	1.99E-05	4.98E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
4727	599109.7	4175256	0.000184	4.97E-04	0.00E+00	1.84E-04	4.97E-04	0.00E+00	3.00E-05	7.52E-05	0.00E+00	1.57E-05	2.87E-05	0.00E+00
4728	599118.2	4175253	0.000179	4.82E-04	0.00E+00	1.79E-04	4.82E-04	0.00E+00	2.91E-05	7.29E-05	0.00E+00	1.52E-05	2.78E-05	0.00E+00
4729	599135	4175246	0.000171	4.61E-04	0.00E+00	1.71E-04	4.61E-04	0.00E+00	2.78E-05	6.97E-05	0.00E+00	1.45E-05	2.66E-05	0.00E+00

4730	599143.4	4175243	0.000168	4.53E-04	0.00E+00		1.68E-04	4.53E-04	0.00E+00		2.73E-05	6.85E-05	0.00E+00		1.43E-05	2.61E-05	0.00E+00
4731	599151.9	4175240	0.000165	4.45E-04	0.00E+00		1.65E-04	4.45E-04	0.00E+00		2.69E-05	6.74E-05	0.00E+00		1.40E-05	2.57E-05	0.00E+00
4732	599168.7	4175233	0.000161	4.33E-04	0.00E+00		1.61E-04	4.33E-04	0.00E+00		2.61E-05	6.55E-05	0.00E+00		1.36E-05	2.49E-05	0.00E+00
4733	599261.3	4175197	0.000138	3.73E-04	0.00E+00		1.38E-04	3.73E-04	0.00E+00		2.25E-05	5.64E-05	0.00E+00		1.17E-05	2.15E-05	0.00E+00
4734	599269.8	4175194	0.000137	3.68E-04	0.00E+00		1.37E-04	3.68E-04	0.00E+00		2.22E-05	5.57E-05	0.00E+00		1.16E-05	2.12E-05	0.00E+00
4735	599278.2	4175191	0.000135	3.63E-04	0.00E+00		1.35E-04	3.63E-04	0.00E+00		2.19E-05	5.50E-05	0.00E+00		1.14E-05	2.09E-05	0.00E+00
4736	599295	4175184	0.000131	3.53E-04	0.00E+00		1.31E-04	3.53E-04	0.00E+00		2.13E-05	5.33E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
4737	599303.4	4175181	0.000129	3.47E-04	0.00E+00		1.29E-04	3.47E-04	0.00E+00		2.10E-05	5.25E-05	0.00E+00		1.09E-05	2.00E-05	0.00E+00
4738	599311.9	4175178	0.000127	3.44E-04	0.00E+00		1.27E-04	3.44E-04	0.00E+00		2.07E-05	5.20E-05	0.00E+00		1.08E-05	1.98E-05	0.00E+00
4739	599328.7	4175171	0.000125	3.36E-04	0.00E+00		1.25E-04	3.36E-04	0.00E+00		2.03E-05	5.09E-05	0.00E+00		1.06E-05	1.94E-05	0.00E+00
4740	599337.1	4175168	0.000123	3.32E-04	0.00E+00		1.23E-04	3.32E-04	0.00E+00		2.01E-05	5.03E-05	0.00E+00		1.05E-05	1.92E-05	0.00E+00
4741	599345.5	4175165	0.000122	3.28E-04	0.00E+00		1.22E-04	3.28E-04	0.00E+00		1.98E-05	4.96E-05	0.00E+00		1.03E-05	1.89E-05	0.00E+00
4742	599362.4	4175158	0.000119	3.21E-04	0.00E+00		1.19E-04	3.21E-04	0.00E+00		1.93E-05	4.85E-05	0.00E+00		1.01E-05	1.85E-05	0.00E+00
4743	599370.8	4175155	0.000118	3.18E-04	0.00E+00		1.18E-04	3.18E-04	0.00E+00		1.92E-05	4.81E-05	0.00E+00		1.00E-05	1.83E-05	0.00E+00
4744	599379.2	4175152	0.000117	3.17E-04	0.00E+00		1.17E-04	3.17E-04	0.00E+00		1.91E-05	4.79E-05	0.00E+00		9.97E-06	1.82E-05	0.00E+00
4745	599396.1	4175145	0.000117	3.14E-04	0.00E+00		1.17E-04	3.14E-04	0.00E+00		1.90E-05	4.75E-05	0.00E+00		9.90E-06	1.81E-05	0.00E+00
4746	599463.4	4175119	0.000116	3.12E-04	0.00E+00		1.16E-04	3.12E-04	0.00E+00		1.88E-05	4.72E-05	0.00E+00		9.83E-06	1.80E-05	0.00E+00
4747	599471.9	4175116	0.000116	3.14E-04	0.00E+00		1.16E-04	3.14E-04	0.00E+00		1.89E-05	4.74E-05	0.00E+00		9.87E-06	1.81E-05	0.00E+00
4748	599488.7	4175109	0.000117	3.15E-04	0.00E+00		1.17E-04	3.15E-04	0.00E+00		1.90E-05	4.77E-05	0.00E+00		9.94E-06	1.82E-05	0.00E+00
4749	599497.1	4175106	0.000118	3.17E-04	0.00E+00		1.18E-04	3.17E-04	0.00E+00		1.91E-05	4.79E-05	0.00E+00		9.98E-06	1.83E-05	0.00E+00
4750	599136.9	4175226	0.000162	4.38E-04	0.00E+00		1.62E-04	4.38E-04	0.00E+00		2.64E-05	6.62E-05	0.00E+00		1.38E-05	2.52E-05	0.00E+00
4751	599153.7	4175220	0.000158	4.25E-04	0.00E+00		1.58E-04	4.25E-04	0.00E+00		2.57E-05	6.43E-05	0.00E+00		1.34E-05	2.45E-05	0.00E+00
4752	599254.5	4175181	0.000134	3.61E-04	0.00E+00		1.34E-04	3.61E-04	0.00E+00		2.18E-05	5.47E-05	0.00E+00		1.14E-05	2.08E-05	0.00E+00
4753	599271.3	4175174	0.000131	3.53E-04	0.00E+00		1.31E-04	3.53E-04	0.00E+00		2.13E-05	5.34E-05	0.00E+00		1.11E-05	2.03E-05	0.00E+00
4754	599288.1	4175167	0.000127	3.43E-04	0.00E+00		1.27E-04	3.43E-04	0.00E+00		2.07E-05	5.18E-05	0.00E+00		1.08E-05	1.97E-05	0.00E+00
4755	599296.5	4175164	0.000125	3.38E-04	0.00E+00		1.25E-04	3.38E-04	0.00E+00		2.04E-05	5.11E-05	0.00E+00		1.06E-05	1.95E-05	0.00E+00
4756	599313.3	4175158	0.000122	3.29E-04	0.00E+00		1.22E-04	3.29E-04	0.00E+00		1.99E-05	4.98E-05	0.00E+00		1.04E-05	1.90E-05	0.00E+00
4757	599330.1	4175151	0.000119	3.21E-04	0.00E+00		1.19E-04	3.21E-04	0.00E+00		1.94E-05	4.86E-05	0.00E+00		1.01E-05	1.85E-05	0.00E+00
4758	599338.5	4175148	0.000118	3.17E-04	0.00E+00		1.18E-04	3.17E-04	0.00E+00		1.91E-05	4.79E-05	0.00E+00		9.99E-06	1.83E-05	0.00E+00
4759	599355.3	4175141	0.000115	3.10E-04	0.00E+00		1.15E-04	3.10E-04	0.00E+00		1.87E-05	4.69E-05	0.00E+00		9.77E-06	1.79E-05	0.00E+00
4760	599372.1	4175135	0.000114	3.06E-04	0.00E+00		1.14E-04	3.06E-04	0.00E+00		1.85E-05	4.63E-05	0.00E+00		9.64E-06	1.76E-05	0.00E+00
4761	599388.9	4175128	0.000112	3.03E-04	0.00E+00		1.12E-04	3.03E-04	0.00E+00		1.83E-05	4.58E-05	0.00E+00		9.54E-06	1.75E-05	0.00E+00
4762	599397.3	4175125	0.000112	3.02E-04	0.00E+00		1.12E-04	3.02E-04	0.00E+00		1.82E-05	4.56E-05	0.00E+00		9.50E-06	1.74E-05	0.00E+00
4763	599472.9	4175096	0.000111	3.00E-04	0.00E+00		1.11E-04	3.00E-04	0.00E+00		1.81E-05	4.54E-05	0.00E+00		9.45E-06	1.73E-05	0.00E+00
4764	599489.7	4175089	0.000112	3.02E-04	0.00E+00		1.12E-04	3.02E-04	0.00E+00		1.82E-05	4.57E-05	0.00E+00		9.52E-06	1.74E-05	0.00E+00
4765	599510.6	4176283	0.000683	1.84E-03	0.00E+00		6.83E-04	1.84E-03	0.00E+00		1.11E-04	2.78E-04	0.00E+00		5.80E-05	1.06E-04	0.00E+00
4766	599520	4176285	0.000524	1.41E-03	0.00E+00		5.24E-04	1.41E-03	0.00E+00		8.52E-05	2.14E-04	0.00E+00		4.45E-05	8.14E-05	0.00E+00
4767	599529.4	4176287	0.000435	1.17E-03	0.00E+00		4.35E-04	1.17E-03	0.00E+00		7.08E-05	1.78E-04	0.00E+00		3.70E-05	6.77E-05	0.00E+00
4768	599538.8	4176289	0.000392	1.06E-03	0.00E+00		3.92E-04	1.06E-03	0.00E+00		6.38E-05	1.60E-04	0.00E+00		3.33E-05	6.10E-05	0.00E+00
4769	599548.2	4176290	0.000378	1.02E-03	0.00E+00		3.78E-04	1.02E-03	0.00E+00		6.15E-05	1.54E-04	0.00E+00		3.21E-05	5.87E-05	0.00E+00
4770	599518.2	4176295	0.000445	1.20E-03	0.00E+00		4.45E-04	1.20E-03	0.00E+00		7.24E-05	1.81E-04	0.00E+00		3.78E-05	6.91E-05	0.00E+00
4771	599527.6	4176297	0.000381	1.03E-03	0.00E+00		3.81E-04	1.03E-03	0.00E+00		6.20E-05	1.55E-04	0.00E+00		3.24E-05	5.92E-05	0.00E+00
4772	599537	4176298	0.000348	9.39E-04	0.00E+00		3.48E-04	9.39E-04	0.00E+00		5.67E-05	1.42E-04	0.00E+00		2.96E-05	5.41E-05	0.00E+00
4773	599546.4	4176300	0.000334	9.00E-04	0.00E+00		3.34E-04	9.00E-04	0.00E+00		5.43E-05	1.36E-04	0.00E+00		2.84E-05	5.19E-05	0.00E+00
4774	599516.4	4176305	0.000381	1.03E-03	0.00E+00		3.81E-04	1.03E-03	0.00E+00		6.19E-05	1.55E-04	0.00E+00		3.23E-05	5.91E-05	0.00E+00
4775	599525.8	4176306	0.000334	9.00E-04	0.00E+00		3.34E-04	9.00E-04	0.00E+00		5.43E-05	1.36E-04	0.00E+00		2.83E-05	5.19E-05	0.00E+00
4776	599535.2	4176308	0.000309	8.34E-04	0.00E+00		3.09E-04	8.34E-04	0.00E+00		5.03E-05	1.26E-04	0.00E+00		2.63E-05	4.81E-05	0.00E+00
4777	599544.6	4176310	0.000297	8.01E-04	0.00E+00		2.97E-04	8.01E-04	0.00E+00		4.83E-05	1.21E-04	0.00E+00		2.52E-05	4.62E-05	0.00E+00
4778	599514.6	4176315	0.000326	8.79E-04	0.00E+00		3.26E-04	8.79E-04	0.00E+00		5.31E-05	1.33E-04	0.00E+00		2.77E-05	5.07E-05	0.00E+00
4779	599524	4176316	0.000294	7.93E-04	0.00E+00		2.94E-04	7.93E-04	0.00E+00		4.79E-05	1.20E-04	0.00E+00		2.50E-05	4.57E-05	0.00E+00
4780	599533.4	4176318	0.000279	7.53E-04	0.00E+00		2.79E-04	7.53E-04	0.00E+00		4.54E-05	1.14E-04	0.00E+00		2.37E-05	4.34E-05	0.00E+00
4781	599542.8	4176320	0.00027	7.28E-04	0.00E+00		2.70E-04	7.28E-04	0.00E+00		4.39E-05	1.10E-04	0.00E+00		2.29E-05	4.19E-05	0.00E+00
4782	599512.8	4176324	0.000327	8.82E-04	0.00E+00		3.27E-04	8.82E-04	0.00E+00		5.32E-05	1.33E-04	0.00E+00		2.78E-05	5.08E-05	0.00E+00
4783	599522.2	4176326	0.000289	7.80E-04	0.00E+00		2.89E-04	7.80E-04	0.00E+00		4.71E-05	1.18E-04	0.00E+00		2.46E-05	4.50E-05	0.00E+00
4784	599531.6	4176328	0.000267	7.20E-04	0.00E+00		2.67E-04	7.20E-04	0.00E+00		4.34E-05	1.09E-04	0.00E+00		2.27E-05	4.15E-05	0.00E+00
4785	599541	4176330	0.000253	6.83E-04	0.00E+00		2.53E-04	6.83E-04	0.00E+00		4.12E-05	1.03E-04	0.00E+00		2.15E-05	3.93E-05	0.00E+00
4786	599511	4176334	0.000343	9.26E-04	0.00E+00		3.43E-04	9.26E-04	0.00E+00		5.59E-05	1.40E-04	0.00E+00		2.92E-05	5.34E-05	0.00E+00
4787	599520.4	4176336	0.00029	7.81E-04	0.00E+00		2.90E-04	7.81E-04	0.00E+00		4.71E-05	1.18E-04	0.00E+00		2.46E-05	4.50E-05	0.00E+00
4788	599529.8	4176338	0.000259	6.97E-04	0.00E+00		2.59E-04	6.97E-04	0.00E+00		4.21E-05	1.05E-04	0.00E+00		2.20E-05	4.02E-05	0.00E+00
4789	599539.2	4176339	0.00024	6.47E-04	0.00E+00		2.40E-04	6.47E-04	0.00E+00		3.90E-05	9.78E-05	0.00E+00		2.04E-05	3.73E-05	0.00E+00
4790	599518.6	4176346	0.000296	7.99E-04	0.00E+00		2.96E-04	7.99E-04	0.00E+00		4.82E-05	1.21E-04	0.00E+00		2.52E-05	4.60E-05	0.00E+00
4791	599528	4176348	0.000259	6.99E-04	0.00E+00		2.59E-04	6.99E-04	0.00E+00		4.22E-05	1.06E-04	0.00E+00		2.20E-05	4.03E-05	0.00E+00
4792	599537.4	4176349	0.000237	6.39E-04	0.00E+00		2.37E-04	6.39E-04	0.00E+00		3.86E-05	9.66E-05	0.00E+00		2.01E-05	3.68E-05	0.00E+00
4793	599516.8	4176356	0.000361	9.73E-04	0.00E+00		3.61E-04	9.73E-04	0.00E+00		5.87E-05	1.47E-04	0.00E+00		3.06E-05	5.61E-05	0.00E+00
4794	599526.2	4176357	0.000297	8.02E-04	0.00E+00		2.97E-04	8.02E-04	0.00E+00		4.84E-05	1.21E-04	0.00E+00		2.53E-05	4.62E-05	0.00E+00
4795	599535.6	4176359	0.000257	6.93E-04	0.00E+00		2.57E-04	6.93E-04	0.00E+00		4.18E-05	1.05E-04	0.00E+00		2.18E-05	4.00E-05	0.00E+00
4796	599515	4176365	0.000456	1.23E-03	0.00E+00		4.56E-04	1.23E-03	0.00E+00		7.42E-05	1.86E-04	0.00E+00		3.87E-05	7.09E-05	0.00E+00
4797	599524.4	4176367	0.000361	9.72E-04	0.00E+00		3.61E-04	9.72E-04	0.00E+00		5.87E-05	1.47E-04	0.00E+00		3.06E-05	5.60E-05	0.00E+00
4798	599533.8	4176369	0.000294	7.93E-04	0.00E+00		2.94E-04	7.93E-04	0.00E+00		4.78E-05	1.20E-04	0.00E+00		2.50E-05	4.57E-05	0.00E+00
4799	599513.2	4176375	0.000556	1.50E-03	0.00E+00		5.56E-04	1.50E-03	0.00E+00		9.04E-05	2.26E-04	0.00E+00		4.72E-05	8.63E-05	0.00E+00
4800	599522.6	4176377	0.000443	1.19E-03	0.00E+00		4.43E-04	1.19E-03	0.00E+00		7.20E-05	1.81E-04	0.00E+00		3.76E-05	6.88E-05	0.00E+00
4801	599532	4176379	0.000344	9.27E-04	0.00E+00		3.44E-04	9.27E-04	0.00E+00		5.59E-05	1.40E-04	0.00E+00		2.92E-05	5.34E-05	0.00E+00
4802	599520.8	4176387	0.000479	1.29E-03	0.00E+00		4.79E-04	1.29E-03	0.00E+00		7.80E-05	1.95E-04	0.00E+00		4.07E-05	7.45E-05	0.00E+00
4803	599530.2	4176389	0.000381	1.03E-03	0.00E+00		3.81E-04	1.03E-03	0.00E+00		6.21E-05	1.56E-04	0.00E+00		3.24E-05	5.93E-05	0.00E+00
4804	599519	4176397	0.000508	1.37E-03	0.00E+00		5.08E-04	1.37E-03	0.00E+00		8.26E-05	2.07E-04	0.00E+00		4.31E-05	7.89E-05	0.00E+00
4805	599528.4	4176398	0.000419	1.13E-03	0.00E+00		4.19E-04	1.13E-03	0.00E+00		6.82E-05	1.71E-04	0.00E+00		3.56E-05	6.51E-05	0.00E+00
4806	599517.2	4176407	0.000526	1.42E-03	0.00E+00		5.26E-04	1.42E-03	0.00E+00		8.55E-05	2.14E-04	0.00E+00		4.46E-05	8.17E-05	0.00E+00
4807	599526.6	4176408	0.000449	1.21E-03	0.00E+00		4.49E-04	1.21E-03	0.00E+00		7.31E-05	1.83E-04	0.00E+00		3.82E-05	6.98E-05	0.00E+00
4808	599515.4	4176416	0.000526	1.42E-03	0.00E+00		5.26E-04	1.42E-03	0.00E+00		8.56E-05	2.14E-04	0.00E+00		4.47E-05	8.17E-05	0.00E+00
4809	599524.8	4176418	0.000464	1.25E-03	0.00E+00		4.64E-04	1.25E-03	0.00E+00		7.55E-05	1.89E-04	0.00E+00		3.94E-05	7.21E-05	0.00E+00
4810	599513.6	4176426	0.000521	1.40E-03	0.00E+00		5.21E-04	1.40E-03	0.00E+00		8.47E-05	2.12E-04	0.00E+00		4.42E-05	8.09E-05	0.00E+00
4811	599523	4176428	0.000472	1.27E-03	0.00E+00		4.72E-04	1.27E-03	0.00E+00		7.68E-05	1.93E-04	0.00E+00		4.01E-05	7.34E-05	0.00E+00
4812	599500.6	4176444	0.000489	1.32E-03	0.00E+00		4.89E-04	1.32E-03	0.00E+00		7.96E-05	1.99E-04	0.00E+00		4.15E-05	7.60E-05	0.00E+00
4813	599510	4176446	0.000485	1.31E-03	0.00E+00		4.85E-04	1.31E-03	0.00E+00		7.89E-05	1.98E-04	0.00E+00		4.12E-05	7.54E-05	0.00E+00
4814	599519.4	4176448	0.000469	1.26E-03	0.00E+00		4.69E-04	1.26E-03	0.00E+00		7.62E-05	1.91E-04	0.00E+00		3.98E-05	7.28E-05	0.00E+00
4815	599489.8	4176503	0.00039	1.05E-03	0.00E+00		3.90E-04	1.05E-03	0.00E+00		6.34E-05	1.59E-04	0.00E+00		3.31E-05	6.05E-05	0.00E+00
4816	599499.2	4176505	0.000389	1.05E-03	0.00E+00		3.89E-04	1.05E-03	0.00E+00		6.33E-05	1.59E-04	0.00E+00		3.31E-05	6.05E-05	0.00E+00
4817	599508.6	4176507	0.000388	1.05E-03	0.00E+00		3.88E-04	1.05E-03	0.00E+00		6.31E-05	1.58E-04	0.00E+00		3.30E-05	6.03E-05	0.00E+00
4818	599495.6	4176525	0.00036	9.69E-04	0.00E+00		3.60E-04	9.69E-04	0.00E+00		5.85E-05	1.47E-04	0.00E+00		3.05E-05	5.59E-05	0.00E+00
4819	599505	4176526	0.000356	9.61E-04	0.00E+00		3.56E-04	9.61E-04	0.00E+00		5.80E-05	1.45E-04	0.00E+00		3.03E-05	5.54E-05	0.00E+00
4820	599514.4	4176528	0.000352	9.50E-04	0.00E+00		3.52E-04	9.50E-04	0.00E+00		5.73E-05	1.44E-04	0.00E+00		2.99E-05	5.48E-05	0.00E+00

4821	599501.4	4176546	0.000327	8.82E-04	0.00E+00	3.27E-04	8.82E-04	0.00E+00	5.32E-05	1.33E-04	0.00E+00	2.78E-05	5.08E-05	0.00E+00
4822	599322.7	4176835	0.000127	3.43E-04	0.00E+00	1.27E-04	3.43E-04	0.00E+00	2.07E-05	5.19E-05	0.00E+00	1.08E-05	1.98E-05	0.00E+00
4823	599314.5	4176831	0.000123	3.33E-04	0.00E+00	1.23E-04	3.33E-04	0.00E+00	2.01E-05	5.03E-05	0.00E+00	1.05E-05	1.92E-05	0.00E+00
4824	599306.3	4176826	0.000123	3.31E-04	0.00E+00	1.23E-04	3.31E-04	0.00E+00	2.00E-05	5.00E-05	0.00E+00	1.04E-05	1.91E-05	0.00E+00
4825	599298.1	4176821	0.000122	3.29E-04	0.00E+00	1.22E-04	3.29E-04	0.00E+00	1.99E-05	4.98E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
4826	599289.8	4176817	0.000122	3.29E-04	0.00E+00	1.22E-04	3.29E-04	0.00E+00	1.98E-05	4.97E-05	0.00E+00	1.04E-05	1.89E-05	0.00E+00
4827	599281.6	4176812	0.000122	3.29E-04	0.00E+00	1.22E-04	3.29E-04	0.00E+00	1.99E-05	4.98E-05	0.00E+00	1.04E-05	1.90E-05	0.00E+00
4828	599330.9	4176840	0.000128	3.45E-04	0.00E+00	1.28E-04	3.45E-04	0.00E+00	2.08E-05	5.22E-05	0.00E+00	1.09E-05	1.99E-05	0.00E+00
4829	599340.3	4176842	0.00013	3.50E-04	0.00E+00	1.30E-04	3.50E-04	0.00E+00	2.11E-05	5.29E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
4830	599349.7	4176844	0.000132	3.55E-04	0.00E+00	1.32E-04	3.55E-04	0.00E+00	2.14E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
4831	599359.1	4176845	0.000134	3.61E-04	0.00E+00	1.34E-04	3.61E-04	0.00E+00	2.18E-05	5.46E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
4832	599368.5	4176847	0.000136	3.67E-04	0.00E+00	1.36E-04	3.67E-04	0.00E+00	2.21E-05	5.55E-05	0.00E+00	1.16E-05	2.11E-05	0.00E+00
4833	599377.9	4176849	0.000138	3.72E-04	0.00E+00	1.38E-04	3.72E-04	0.00E+00	2.25E-05	5.63E-05	0.00E+00	1.17E-05	2.15E-05	0.00E+00
4834	599387.3	4176850	0.00014	3.78E-04	0.00E+00	1.40E-04	3.78E-04	0.00E+00	2.28E-05	5.71E-05	0.00E+00	1.19E-05	2.18E-05	0.00E+00
4835	599319	4176855	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.83E-05	0.00E+00	1.01E-05	1.84E-05	0.00E+00
4836	599310.8	4176850	0.000118	3.18E-04	0.00E+00	1.18E-04	3.18E-04	0.00E+00	1.92E-05	4.81E-05	0.00E+00	1.00E-05	1.83E-05	0.00E+00
4837	599302.5	4176846	0.000118	3.17E-04	0.00E+00	1.18E-04	3.17E-04	0.00E+00	1.91E-05	4.79E-05	0.00E+00	9.98E-06	1.83E-05	0.00E+00
4838	599294.2	4176841	0.000117	3.14E-04	0.00E+00	1.17E-04	3.14E-04	0.00E+00	1.90E-05	4.75E-05	0.00E+00	9.90E-06	1.81E-05	0.00E+00
4839	599285.9	4176836	0.000116	3.13E-04	0.00E+00	1.16E-04	3.13E-04	0.00E+00	1.89E-05	4.73E-05	0.00E+00	9.85E-06	1.80E-05	0.00E+00
4840	599277.7	4176832	0.000116	3.12E-04	0.00E+00	1.16E-04	3.12E-04	0.00E+00	1.88E-05	4.72E-05	0.00E+00	9.84E-06	1.80E-05	0.00E+00
4841	599269.4	4176827	0.000116	3.14E-04	0.00E+00	1.16E-04	3.14E-04	0.00E+00	1.89E-05	4.74E-05	0.00E+00	9.88E-06	1.81E-05	0.00E+00
4842	599261.1	4176822	0.000117	3.16E-04	0.00E+00	1.17E-04	3.16E-04	0.00E+00	1.91E-05	4.78E-05	0.00E+00	9.95E-06	1.82E-05	0.00E+00
4843	599252.8	4176818	0.000118	3.18E-04	0.00E+00	1.18E-04	3.18E-04	0.00E+00	1.92E-05	4.81E-05	0.00E+00	1.00E-05	1.83E-05	0.00E+00
4844	599244.6	4176813	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
4845	599236.3	4176808	0.000119	3.22E-04	0.00E+00	1.19E-04	3.22E-04	0.00E+00	1.94E-05	4.87E-05	0.00E+00	1.01E-05	1.86E-05	0.00E+00
4846	599228	4176804	0.00012	3.24E-04	0.00E+00	1.20E-04	3.24E-04	0.00E+00	1.96E-05	4.90E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
4847	599219.7	4176799	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.94E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
4848	599211.5	4176794	0.000122	3.28E-04	0.00E+00	1.22E-04	3.28E-04	0.00E+00	1.98E-05	4.97E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
4849	599203.2	4176790	0.000121	3.25E-04	0.00E+00	1.21E-04	3.25E-04	0.00E+00	1.96E-05	4.91E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
4850	599194.9	4176785	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.83E-05	0.00E+00	1.01E-05	1.84E-05	0.00E+00
4851	599186.6	4176780	0.000116	3.12E-04	0.00E+00	1.16E-04	3.12E-04	0.00E+00	1.88E-05	4.72E-05	0.00E+00	9.83E-06	1.80E-05	0.00E+00
4852	599327.3	4176860	0.000119	3.21E-04	0.00E+00	1.19E-04	3.21E-04	0.00E+00	1.94E-05	4.86E-05	0.00E+00	1.01E-05	1.85E-05	0.00E+00
4853	599336.7	4176861	0.000121	3.27E-04	0.00E+00	1.21E-04	3.27E-04	0.00E+00	1.97E-05	4.94E-05	0.00E+00	1.03E-05	1.88E-05	0.00E+00
4854	599346.1	4176863	0.000124	3.33E-04	0.00E+00	1.24E-04	3.33E-04	0.00E+00	2.01E-05	5.04E-05	0.00E+00	1.05E-05	1.92E-05	0.00E+00
4855	599355.5	4176865	0.000128	3.46E-04	0.00E+00	1.28E-04	3.46E-04	0.00E+00	2.08E-05	5.22E-05	0.00E+00	1.09E-05	1.99E-05	0.00E+00
4856	599364.9	4176867	0.00013	3.51E-04	0.00E+00	1.30E-04	3.51E-04	0.00E+00	2.12E-05	5.31E-05	0.00E+00	1.11E-05	2.02E-05	0.00E+00
4857	599374.3	4176868	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.39E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
4858	599383.7	4176870	0.000134	3.62E-04	0.00E+00	1.34E-04	3.62E-04	0.00E+00	2.18E-05	5.47E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00
4859	599393.1	4176872	0.000136	3.67E-04	0.00E+00	1.36E-04	3.67E-04	0.00E+00	2.21E-05	5.54E-05	0.00E+00	1.15E-05	2.11E-05	0.00E+00
4860	599402.5	4176874	0.000138	3.71E-04	0.00E+00	1.38E-04	3.71E-04	0.00E+00	2.24E-05	5.61E-05	0.00E+00	1.17E-05	2.14E-05	0.00E+00
4861	599411.9	4176875	0.000139	3.75E-04	0.00E+00	1.39E-04	3.75E-04	0.00E+00	2.26E-05	5.67E-05	0.00E+00	1.18E-05	2.16E-05	0.00E+00
4862	599315.5	4176875	0.000113	3.05E-04	0.00E+00	1.13E-04	3.05E-04	0.00E+00	1.84E-05	4.62E-05	0.00E+00	9.61E-06	1.76E-05	0.00E+00
4863	599307.3	4176870	0.000113	3.04E-04	0.00E+00	1.13E-04	3.04E-04	0.00E+00	1.83E-05	4.59E-05	0.00E+00	9.56E-06	1.75E-05	0.00E+00
4864	599299.2	4176866	0.000112	3.02E-04	0.00E+00	1.12E-04	3.02E-04	0.00E+00	1.82E-05	4.57E-05	0.00E+00	9.51E-06	1.74E-05	0.00E+00
4865	599291	4176861	0.000111	3.00E-04	0.00E+00	1.11E-04	3.00E-04	0.00E+00	1.81E-05	4.53E-05	0.00E+00	9.43E-06	1.73E-05	0.00E+00
4866	599282.8	4176856	0.00011	2.97E-04	0.00E+00	1.10E-04	2.97E-04	0.00E+00	1.79E-05	4.49E-05	0.00E+00	9.36E-06	1.71E-05	0.00E+00
4867	599274.6	4176852	0.00011	2.95E-04	0.00E+00	1.10E-04	2.95E-04	0.00E+00	1.78E-05	4.46E-05	0.00E+00	9.30E-06	1.70E-05	0.00E+00
4868	599266.4	4176847	0.00011	2.96E-04	0.00E+00	1.10E-04	2.96E-04	0.00E+00	1.79E-05	4.48E-05	0.00E+00	9.32E-06	1.71E-05	0.00E+00
4869	599258.3	4176842	0.00011	2.98E-04	0.00E+00	1.10E-04	2.98E-04	0.00E+00	1.80E-05	4.50E-05	0.00E+00	9.38E-06	1.72E-05	0.00E+00
4870	599250.1	4176838	0.000111	3.00E-04	0.00E+00	1.11E-04	3.00E-04	0.00E+00	1.81E-05	4.54E-05	0.00E+00	9.46E-06	1.73E-05	0.00E+00
4871	599241.9	4176833	0.000113	3.04E-04	0.00E+00	1.13E-04	3.04E-04	0.00E+00	1.83E-05	4.59E-05	0.00E+00	9.57E-06	1.75E-05	0.00E+00
4872	599233.7	4176829	0.000114	3.06E-04	0.00E+00	1.14E-04	3.06E-04	0.00E+00	1.85E-05	4.63E-05	0.00E+00	9.65E-06	1.77E-05	0.00E+00
4873	599225.5	4176824	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.70E-06	1.78E-05	0.00E+00
4874	599217.4	4176819	0.000115	3.10E-04	0.00E+00	1.15E-04	3.10E-04	0.00E+00	1.87E-05	4.68E-05	0.00E+00	9.75E-06	1.78E-05	0.00E+00
4875	599209.2	4176815	0.000116	3.11E-04	0.00E+00	1.16E-04	3.11E-04	0.00E+00	1.88E-05	4.71E-05	0.00E+00	9.81E-06	1.79E-05	0.00E+00
4876	599201	4176810	0.000116	3.12E-04	0.00E+00	1.16E-04	3.12E-04	0.00E+00	1.88E-05	4.72E-05	0.00E+00	9.83E-06	1.80E-05	0.00E+00
4877	599192.8	4176805	0.000116	3.11E-04	0.00E+00	1.16E-04	3.11E-04	0.00E+00	1.88E-05	4.71E-05	0.00E+00	9.81E-06	1.79E-05	0.00E+00
4878	599184.6	4176801	0.000115	3.09E-04	0.00E+00	1.15E-04	3.09E-04	0.00E+00	1.86E-05	4.67E-05	0.00E+00	9.72E-06	1.78E-05	0.00E+00
4879	599176.5	4176796	0.000109	2.95E-04	0.00E+00	1.09E-04	2.95E-04	0.00E+00	1.78E-05	4.46E-05	0.00E+00	9.30E-06	1.70E-05	0.00E+00
4880	599323.7	4176879	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.65E-05	0.00E+00	9.69E-06	1.77E-05	0.00E+00
4881	599333.1	4176881	0.000116	3.14E-04	0.00E+00	1.16E-04	3.14E-04	0.00E+00	1.89E-05	4.74E-05	0.00E+00	9.87E-06	1.81E-05	0.00E+00
4882	599342.5	4176883	0.000119	3.20E-04	0.00E+00	1.19E-04	3.20E-04	0.00E+00	1.93E-05	4.84E-05	0.00E+00	1.01E-05	1.84E-05	0.00E+00
4883	599351.9	4176885	0.000123	3.32E-04	0.00E+00	1.23E-04	3.32E-04	0.00E+00	2.00E-05	5.01E-05	0.00E+00	1.04E-05	1.91E-05	0.00E+00
4884	599361.3	4176886	0.000125	3.37E-04	0.00E+00	1.25E-04	3.37E-04	0.00E+00	2.03E-05	5.09E-05	0.00E+00	1.06E-05	1.94E-05	0.00E+00
4885	599370.7	4176888	0.000127	3.42E-04	0.00E+00	1.27E-04	3.42E-04	0.00E+00	2.06E-05	5.17E-05	0.00E+00	1.08E-05	1.97E-05	0.00E+00
4886	599380.1	4176890	0.000129	3.47E-04	0.00E+00	1.29E-04	3.47E-04	0.00E+00	2.09E-05	5.25E-05	0.00E+00	1.09E-05	2.00E-05	0.00E+00
4887	599389.5	4176891	0.00013	3.52E-04	0.00E+00	1.30E-04	3.52E-04	0.00E+00	2.12E-05	5.32E-05	0.00E+00	1.11E-05	2.03E-05	0.00E+00
4888	599398.9	4176893	0.000132	3.56E-04	0.00E+00	1.32E-04	3.56E-04	0.00E+00	2.15E-05	5.38E-05	0.00E+00	1.12E-05	2.05E-05	0.00E+00
4889	599408.3	4176895	0.000133	3.60E-04	0.00E+00	1.33E-04	3.60E-04	0.00E+00	2.17E-05	5.44E-05	0.00E+00	1.13E-05	2.07E-05	0.00E+00
4890	599417.7	4176897	0.000135	3.63E-04	0.00E+00	1.35E-04	3.63E-04	0.00E+00	2.19E-05	5.49E-05	0.00E+00	1.14E-05	2.09E-05	0.00E+00
4891	599311.9	4176894	0.000108	2.92E-04	0.00E+00	1.08E-04	2.92E-04	0.00E+00	1.76E-05	4.42E-05	0.00E+00	9.20E-06	1.68E-05	0.00E+00
4892	599303.6	4176890	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.75E-05	4.37E-05	0.00E+00	9.11E-06	1.67E-05	0.00E+00
4893	599295.4	4176885	0.000106	2.87E-04	0.00E+00	1.06E-04	2.87E-04	0.00E+00	1.73E-05	4.34E-05	0.00E+00	9.04E-06	1.65E-05	0.00E+00
4894	599287.1	4176880	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.31E-05	0.00E+00	8.98E-06	1.64E-05	0.00E+00
4895	599278.9	4176876	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.93E-06	1.64E-05	0.00E+00
4896	599270.7	4176871	0.000105	2.82E-04	0.00E+00	1.05E-04	2.82E-04	0.00E+00	1.70E-05	4.27E-05	0.00E+00	8.89E-06	1.63E-05	0.00E+00
4897	599262.4	4176866	0.000104	2.82E-04	0.00E+00	1.04E-04	2.82E-04	0.00E+00	1.70E-05	4.26E-05	0.00E+00	8.87E-06	1.62E-05	0.00E+00
4898	599254.2	4176862	0.000104	2.81E-04	0.00E+00	1.04E-04	2.81E-04	0.00E+00	1.70E-05	4.25E-05	0.00E+00	8.85E-06	1.62E-05	0.00E+00
4899	599246	4176857	0.000104	2.81E-04	0.00E+00	1.04E-04	2.81E-04	0.00E+00	1.69E-05	4.25E-05	0.00E+00	8.85E-06	1.62E-05	0.00E+00
4900	599237.7	4176853	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.93E-06	1.63E-05	0.00E+00
4901	599229.5	4176848	0.000107	2.87E-04	0.00E+00	1.07E-04	2.87E-04	0.00E+00	1.73E-05	4.34E-05	0.00E+00	9.05E-06	1.66E-05	0.00E+00
4902	599221.2	4176843	0.000108	2.90E-04	0.00E+00	1.08E-04	2.90E-04	0.00E+00	1.75E-05	4.39E-05	0.00E+00	9.14E-06	1.67E-05	0.00E+00
4903	599213	4176839	0.000109	2.93E-04	0.00E+00	1.09E-04	2.93E-04	0.00E+00	1.77E-05	4.43E-05	0.00E+00	9.22E-06	1.69E-05	0.00E+00
4904	599204.8	4176834	0.00011	2.95E-04	0.00E+00	1.10E-04	2.95E-04	0.00E+00	1.78E-05	4.47E-05	0.00E+00	9.30E-06	1.70E-05	0.00E+00
4905	599196.5	4176829	0.000111	2.99E-04	0.00E+00	1.11E-04	2.99E-04	0.00E+00	1.80E-05	4.51E-05	0.00E+00	9.40E-06	1.72E-05	0.00E+00
4906	599188.3	4176825	0.000112	3.01E-04	0.00E+00	1.12E-04	3.01E-04	0.00E+00	1.82E-05	4.55E-05	0.00E+00	9.49E-06	1.74E-05	0.00E+00
4907	599180.1	4176820	0.00011	2.96E-04	0.00E+00	1.10E-04	2.96E-04	0.00E+00	1.79E-05	4.48E-05	0.00E+00	9.33E-06	1.71E-05	0.00E+00
4908	599171.8	4176815	0.000105	2.82E-04	0.00E+00	1.05E-04	2.82E-04	0.00E+00	1.70E-05	4.26E-05	0.00E+00	8.88E-06	1.63E-05	0.00E+00
4909	599163.6	4176811	9.77E-05	2.63E-04	0.00E+00	9.77E-05	2.63E-04	0.00E+00	1.59E-05	3.98E-05	0.00E+00	8.30E-06	1.52E-05	0.00E+00
4910	599320.1	4176899	0.00011	2.95E-04	0.00E+00	1.10E-04	2.95E-04	0.00E+00	1.78E-05	4.47E-05	0.00E+00	9.30E-06	1.70E-05	0.00E+00
4911	599329.5	4176901	0.000112	3.01E-04	0.00E+00	1.12E-04	3.01E-04	0.00E+00	1.82E-05	4.55E-05	0.00E+00	9.48E-06	1.74E-05	0.00E+00

4912	599338.9	4176903	0.000114	3.07E-04	0.00E+00		1.14E-04	3.07E-04	0.00E+00		1.85E-05	4.64E-05	0.00E+00		9.66E-06	1.77E-05	0.00E+00
4913	599348.3	4176904	0.000116	3.12E-04	0.00E+00		1.16E-04	3.12E-04	0.00E+00		1.88E-05	4.72E-05	0.00E+00		9.83E-06	1.80E-05	0.00E+00
4914	599357.7	4176906	0.000118	3.18E-04	0.00E+00		1.18E-04	3.18E-04	0.00E+00		1.92E-05	4.80E-05	0.00E+00		1.00E-05	1.83E-05	0.00E+00
4915	599367.1	4176908	0.000121	3.27E-04	0.00E+00		1.21E-04	3.27E-04	0.00E+00		1.98E-05	4.95E-05	0.00E+00		1.03E-05	1.89E-05	0.00E+00
4916	599376.5	4176909	0.000123	3.32E-04	0.00E+00		1.23E-04	3.32E-04	0.00E+00		2.01E-05	5.03E-05	0.00E+00		1.05E-05	1.92E-05	0.00E+00
4917	599385.9	4176911	0.000125	3.37E-04	0.00E+00		1.25E-04	3.37E-04	0.00E+00		2.04E-05	5.10E-05	0.00E+00		1.06E-05	1.94E-05	0.00E+00
4918	599395.3	4176913	0.000127	3.42E-04	0.00E+00		1.27E-04	3.42E-04	0.00E+00		2.06E-05	5.17E-05	0.00E+00		1.08E-05	1.97E-05	0.00E+00
4919	599404.7	4176915	0.000128	3.45E-04	0.00E+00		1.28E-04	3.45E-04	0.00E+00		2.08E-05	5.22E-05	0.00E+00		1.09E-05	1.99E-05	0.00E+00
4920	599414.1	4176916	0.000129	3.48E-04	0.00E+00		1.29E-04	3.48E-04	0.00E+00		2.10E-05	5.26E-05	0.00E+00		1.10E-05	2.00E-05	0.00E+00
4921	599423.5	4176918	0.00013	3.50E-04	0.00E+00		1.30E-04	3.50E-04	0.00E+00		2.11E-05	5.30E-05	0.00E+00		1.10E-05	2.02E-05	0.00E+00
4922	599308.2	4176914	0.000104	2.81E-04	0.00E+00		1.04E-04	2.81E-04	0.00E+00		1.69E-05	4.25E-05	0.00E+00		8.84E-06	1.62E-05	0.00E+00
4923	599299.9	4176909	0.000103	2.78E-04	0.00E+00		1.03E-04	2.78E-04	0.00E+00		1.68E-05	4.20E-05	0.00E+00		8.76E-06	1.60E-05	0.00E+00
4924	599291.6	4176905	0.000102	2.76E-04	0.00E+00		1.02E-04	2.76E-04	0.00E+00		1.66E-05	4.17E-05	0.00E+00		8.68E-06	1.59E-05	0.00E+00
4925	599283.3	4176900	0.000101	2.74E-04	0.00E+00		1.01E-04	2.74E-04	0.00E+00		1.65E-05	4.14E-05	0.00E+00		8.62E-06	1.58E-05	0.00E+00
4926	599275	4176895	0.000101	2.72E-04	0.00E+00		1.01E-04	2.72E-04	0.00E+00		1.64E-05	4.12E-05	0.00E+00		8.57E-06	1.57E-05	0.00E+00
4927	599266.7	4176891	0.000101	2.71E-04	0.00E+00		1.01E-04	2.71E-04	0.00E+00		1.64E-05	4.10E-05	0.00E+00		8.54E-06	1.56E-05	0.00E+00
4928	599258.4	4176886	0.0001	2.70E-04	0.00E+00		1.00E-04	2.70E-04	0.00E+00		1.63E-05	4.09E-05	0.00E+00		8.51E-06	1.56E-05	0.00E+00
4929	599250.1	4176881	0.0001	2.70E-04	0.00E+00		1.00E-04	2.70E-04	0.00E+00		1.63E-05	4.08E-05	0.00E+00		8.50E-06	1.55E-05	0.00E+00
4930	599241.9	4176877	9.98E-05	2.69E-04	0.00E+00		9.98E-05	2.69E-04	0.00E+00		1.62E-05	4.07E-05	0.00E+00		8.47E-06	1.55E-05	0.00E+00
4931	599233.6	4176872	9.94E-05	2.68E-04	0.00E+00		9.94E-05	2.68E-04	0.00E+00		1.62E-05	4.05E-05	0.00E+00		8.44E-06	1.54E-05	0.00E+00
4932	599225.3	4176867	9.97E-05	2.69E-04	0.00E+00		9.97E-05	2.69E-04	0.00E+00		1.62E-05	4.06E-05	0.00E+00		8.46E-06	1.55E-05	0.00E+00
4933	599217	4176863	0.000101	2.72E-04	0.00E+00		1.01E-04	2.72E-04	0.00E+00		1.64E-05	4.11E-05	0.00E+00		8.55E-06	1.57E-05	0.00E+00
4934	599208.7	4176858	0.000102	2.75E-04	0.00E+00		1.02E-04	2.75E-04	0.00E+00		1.66E-05	4.16E-05	0.00E+00		8.67E-06	1.59E-05	0.00E+00
4935	599200.4	4176853	0.000103	2.78E-04	0.00E+00		1.03E-04	2.78E-04	0.00E+00		1.68E-05	4.20E-05	0.00E+00		8.75E-06	1.60E-05	0.00E+00
4936	599192.1	4176848	0.000104	2.80E-04	0.00E+00		1.04E-04	2.80E-04	0.00E+00		1.69E-05	4.23E-05	0.00E+00		8.81E-06	1.61E-05	0.00E+00
4937	599183.8	4176844	0.000105	2.82E-04	0.00E+00		1.05E-04	2.82E-04	0.00E+00		1.70E-05	4.27E-05	0.00E+00		8.89E-06	1.63E-05	0.00E+00
4938	599175.5	4176839	0.000103	2.77E-04	0.00E+00		1.03E-04	2.77E-04	0.00E+00		1.67E-05	4.19E-05	0.00E+00		8.73E-06	1.60E-05	0.00E+00
4939	599167.2	4176834	9.92E-05	2.68E-04	0.00E+00		9.92E-05	2.68E-04	0.00E+00		1.61E-05	4.05E-05	0.00E+00		8.43E-06	1.54E-05	0.00E+00
4940	599158.9	4176830	9.36E-05	2.52E-04	0.00E+00		9.36E-05	2.52E-04	0.00E+00		1.52E-05	3.82E-05	0.00E+00		7.95E-06	1.45E-05	0.00E+00
4941	599150.6	4176825	8.59E-05	2.32E-04	0.00E+00		8.59E-05	2.32E-04	0.00E+00		1.40E-05	3.50E-05	0.00E+00		7.29E-06	1.33E-05	0.00E+00
4942	599316.5	4176919	0.000105	2.84E-04	0.00E+00		1.05E-04	2.84E-04	0.00E+00		1.71E-05	4.29E-05	0.00E+00		8.94E-06	1.64E-05	0.00E+00
4943	599325.9	4176920	0.000107	2.89E-04	0.00E+00		1.07E-04	2.89E-04	0.00E+00		1.74E-05	4.37E-05	0.00E+00		9.10E-06	1.67E-05	0.00E+00
4944	599335.3	4176922	0.000109	2.94E-04	0.00E+00		1.09E-04	2.94E-04	0.00E+00		1.78E-05	4.45E-05	0.00E+00		9.27E-06	1.70E-05	0.00E+00
4945	599344.7	4176924	0.000111	2.99E-04	0.00E+00		1.11E-04	2.99E-04	0.00E+00		1.80E-05	4.52E-05	0.00E+00		9.42E-06	1.72E-05	0.00E+00
4946	599354.1	4176926	0.000113	3.04E-04	0.00E+00		1.13E-04	3.04E-04	0.00E+00		1.84E-05	4.60E-05	0.00E+00		9.58E-06	1.75E-05	0.00E+00
4947	599363.5	4176927	0.000115	3.09E-04	0.00E+00		1.15E-04	3.09E-04	0.00E+00		1.87E-05	4.68E-05	0.00E+00		9.75E-06	1.78E-05	0.00E+00
4948	599372.9	4176929	0.000118	3.19E-04	0.00E+00		1.18E-04	3.19E-04	0.00E+00		1.92E-05	4.82E-05	0.00E+00		1.00E-05	1.84E-05	0.00E+00
4949	599382.3	4176931	0.00012	3.23E-04	0.00E+00		1.20E-04	3.23E-04	0.00E+00		1.95E-05	4.89E-05	0.00E+00		1.02E-05	1.86E-05	0.00E+00
4950	599391.7	4176933	0.000122	3.28E-04	0.00E+00		1.22E-04	3.28E-04	0.00E+00		1.98E-05	4.95E-05	0.00E+00		1.03E-05	1.89E-05	0.00E+00
4951	599401.1	4176934	0.000123	3.31E-04	0.00E+00		1.23E-04	3.31E-04	0.00E+00		2.00E-05	5.01E-05	0.00E+00		1.04E-05	1.91E-05	0.00E+00
4952	599410.5	4176936	0.000124	3.34E-04	0.00E+00		1.24E-04	3.34E-04	0.00E+00		2.02E-05	5.06E-05	0.00E+00		1.05E-05	1.93E-05	0.00E+00
4953	599419.9	4176938	0.000125	3.37E-04	0.00E+00		1.25E-04	3.37E-04	0.00E+00		2.04E-05	5.10E-05	0.00E+00		1.06E-05	1.94E-05	0.00E+00
4954	599304.7	4176934	0.0001	2.70E-04	0.00E+00		1.00E-04	2.70E-04	0.00E+00		1.63E-05	4.08E-05	0.00E+00		8.51E-06	1.56E-05	0.00E+00
4955	599296.5	4176929	9.92E-05	2.68E-04	0.00E+00		9.92E-05	2.68E-04	0.00E+00		1.61E-05	4.05E-05	0.00E+00		8.43E-06	1.54E-05	0.00E+00
4956	599288.3	4176925	9.84E-05	2.65E-04	0.00E+00		9.84E-05	2.65E-04	0.00E+00		1.60E-05	4.01E-05	0.00E+00		8.35E-06	1.53E-05	0.00E+00
4957	599280.1	4176920	9.76E-05	2.63E-04	0.00E+00		9.76E-05	2.63E-04	0.00E+00		1.59E-05	3.98E-05	0.00E+00		8.29E-06	1.52E-05	0.00E+00
4958	599271.9	4176915	9.71E-05	2.62E-04	0.00E+00		9.71E-05	2.62E-04	0.00E+00		1.58E-05	3.96E-05	0.00E+00		8.24E-06	1.51E-05	0.00E+00
4959	599263.7	4176911	9.67E-05	2.61E-04	0.00E+00		9.67E-05	2.61E-04	0.00E+00		1.57E-05	3.94E-05	0.00E+00		8.21E-06	1.50E-05	0.00E+00
4960	599255.5	4176906	9.63E-05	2.60E-04	0.00E+00		9.63E-05	2.60E-04	0.00E+00		1.57E-05	3.93E-05	0.00E+00		8.18E-06	1.50E-05	0.00E+00
4961	599247.2	4176901	9.61E-05	2.59E-04	0.00E+00		9.61E-05	2.59E-04	0.00E+00		1.56E-05	3.92E-05	0.00E+00		8.16E-06	1.49E-05	0.00E+00
4962	599239	4176897	9.53E-05	2.57E-04	0.00E+00		9.53E-05	2.57E-04	0.00E+00		1.55E-05	3.88E-05	0.00E+00		8.09E-06	1.48E-05	0.00E+00
4963	599230.8	4176892	9.37E-05	2.53E-04	0.00E+00		9.37E-05	2.53E-04	0.00E+00		1.52E-05	3.82E-05	0.00E+00		7.95E-06	1.46E-05	0.00E+00
4964	599222.6	4176887	9.19E-05	2.48E-04	0.00E+00		9.19E-05	2.48E-04	0.00E+00		1.50E-05	3.75E-05	0.00E+00		7.81E-06	1.43E-05	0.00E+00
4965	599214.4	4176883	9.09E-05	2.45E-04	0.00E+00		9.09E-05	2.45E-04	0.00E+00		1.48E-05	3.71E-05	0.00E+00		7.72E-06	1.41E-05	0.00E+00
4966	599206.2	4176878	9.15E-05	2.47E-04	0.00E+00		9.15E-05	2.47E-04	0.00E+00		1.49E-05	3.73E-05	0.00E+00		7.77E-06	1.42E-05	0.00E+00
4967	599198	4176874	9.24E-05	2.49E-04	0.00E+00		9.24E-05	2.49E-04	0.00E+00		1.50E-05	3.77E-05	0.00E+00		7.85E-06	1.44E-05	0.00E+00
4968	599189.8	4176869	9.36E-05	2.52E-04	0.00E+00		9.36E-05	2.52E-04	0.00E+00		1.52E-05	3.82E-05	0.00E+00		7.95E-06	1.45E-05	0.00E+00
4969	599181.6	4176864	9.49E-05	2.56E-04	0.00E+00		9.49E-05	2.56E-04	0.00E+00		1.54E-05	3.87E-05	0.00E+00		8.06E-06	1.48E-05	0.00E+00
4970	599173.4	4176860	9.58E-05	2.58E-04	0.00E+00		9.58E-05	2.58E-04	0.00E+00		1.56E-05	3.91E-05	0.00E+00		8.14E-06	1.49E-05	0.00E+00
4971	599165.2	4176855	9.58E-05	2.58E-04	0.00E+00		9.58E-05	2.58E-04	0.00E+00		1.56E-05	3.90E-05	0.00E+00		8.13E-06	1.49E-05	0.00E+00
4972	599157	4176850	9.33E-05	2.51E-04	0.00E+00		9.33E-05	2.51E-04	0.00E+00		1.52E-05	3.80E-05	0.00E+00		7.92E-06	1.45E-05	0.00E+00
4973	599148.8	4176846	8.92E-05	2.40E-04	0.00E+00		8.92E-05	2.40E-04	0.00E+00		1.45E-05	3.64E-05	0.00E+00		7.57E-06	1.39E-05	0.00E+00
4974	599140.6	4176841	8.36E-05	2.25E-04	0.00E+00		8.36E-05	2.25E-04	0.00E+00		1.36E-05	3.41E-05	0.00E+00		7.10E-06	1.30E-05	0.00E+00
4975	599312.9	4176938	0.000101	2.72E-04	0.00E+00		1.01E-04	2.72E-04	0.00E+00		1.64E-05	4.12E-05	0.00E+00		8.57E-06	1.57E-05	0.00E+00
4976	599322.3	4176940	0.000103	2.76E-04	0.00E+00		1.03E-04	2.76E-04	0.00E+00		1.67E-05	4.18E-05	0.00E+00		8.70E-06	1.59E-05	0.00E+00
4977	599331.7	4176942	0.000104	2.81E-04	0.00E+00		1.04E-04	2.81E-04	0.00E+00		1.69E-05	4.24E-05	0.00E+00		8.84E-06	1.62E-05	0.00E+00
4978	599341.1	4176944	0.000106	2.86E-04	0.00E+00		1.06E-04	2.86E-04	0.00E+00		1.73E-05	4.33E-05	0.00E+00		9.01E-06	1.65E-05	0.00E+00
4979	599350.5	4176945	0.000108	2.92E-04	0.00E+00		1.08E-04	2.92E-04	0.00E+00		1.76E-05	4.41E-05	0.00E+00		9.19E-06	1.68E-05	0.00E+00
4980	599359.9	4176947	0.00011	2.97E-04	0.00E+00		1.10E-04	2.97E-04	0.00E+00		1.79E-05	4.50E-05	0.00E+00		9.37E-06	1.71E-05	0.00E+00
4981	599369.3	4176949	0.000112	3.03E-04	0.00E+00		1.12E-04	3.03E-04	0.00E+00		1.83E-05	4.58E-05	0.00E+00		9.54E-06	1.75E-05	0.00E+00
4982	599378.7	4176950	0.000114	3.08E-04	0.00E+00		1.14E-04	3.08E-04	0.00E+00		1.86E-05	4.66E-05	0.00E+00		9.70E-06	1.77E-05	0.00E+00
4983	599388.1	4176952	0.000117	3.14E-04	0.00E+00		1.17E-04	3.14E-04	0.00E+00		1.90E-05	4.75E-05	0.00E+00		9.90E-06	1.81E-05	0.00E+00
4984	599397.5	4176954	0.000118	3.18E-04	0.00E+00		1.18E-04	3.18E-04	0.00E+00		1.92E-05	4.81E-05	0.00E+00		1.00E-05	1.83E-05	0.00E+00
4985	599406.9	4176956	0.000119	3.21E-04	0.00E+00		1.19E-04	3.21E-04	0.00E+00		1.94E-05	4.86E-05	0.00E+00		1.01E-05	1.85E-05	0.00E+00
4986	599301	4176953	9.61E-05	2.59E-04	0.00E+00		9.61E-05	2.59E-04	0.00E+00		1.56E-05	3.92E-05	0.00E+00		8.16E-06	1.49E-05	0.00E+00
4987	599292.8	4176949	9.54E-05	2.57E-04	0.00E+00		9.54E-05	2.57E-04	0.00E+00		1.55E-05	3.89E-05	0.00E+00		8.10E-06	1.48E-05	0.00E+00
4988	599284.5	4176944	9.47E-05	2.55E-04	0.00E+00		9.47E-05	2.55E-04	0.00E+00		1.54E-05	3.86E-05	0.00E+00		8.04E-06	1.47E-05	0.00E+00
4989	599276.2	4176939	9.4E-05	2.53E-04	0.00E+00		9.40E-05	2.53E-04	0.00E+00		1.53E-05	3.83E-05	0.00E+00		7.98E-06	1.46E-05	0.00E+00
4990	599268	4176935	9.34E-05	2.52E-04	0.00E+00		9.34E-05	2.52E-04	0.00E+00		1.52E-05	3.81E-05	0.00E+00		7.93E-06	1.45E-05	0.00E+00
4991	599259.7	4176930	9.3E-05	2.51E-04	0.00E+00		9.30E-05	2.51E-04	0.00E+00		1.51E-05	3.79E-05	0.00E+00		7.90E-06	1.44E-05	0.00E+00
4992	599251.5	4176925	9.27E-05	2.50E-04	0.00E+00		9.27E-05	2.50E-04	0.00E+00		1.51E-05	3.78E-05	0.00E+00		7.87E-06	1.44E-05	0.00E+00
4993	599243.2	4176921	9.24E-05	2.49E-04	0.00E+00		9.24E-05	2.49E-04	0.00E+00		1.50E-05	3.77E-05	0.00E+00		7.84E-06	1.44E-05	0.00E+00
4994	599235	4176916	9.09E-05	2.45E-04	0.00E+00		9.09E-05	2.45E-04	0.00E+00		1.48E-05	3.71E-05	0.00E+00		7.72E-06	1.41E-05	0.00E+00
4995	599226.7	4176911	8.93E-05	2.41E-04	0.00E+00		8.93E-05	2.41E-04	0.00E+00		1.45E-05	3.64E-05	0.00E+00		7.58E-06	1.39E-05	0.00E+00
4996	599218.4	4176907	8.75E-05	2.36E-04	0.00E+00		8.75E-05	2.36E-04	0.00E+00		1.42E-05	3.57E-05	0.00E+00		7.43E-06	1.36E-05	0.00E+00
4997	599210.2	4176902	8.55E-05	2.31E-04	0.00E+00		8.55E-05	2.31E-04	0.00E+00		1.39E-05	3.49E-05	0.00E+00		7.26E-06	1.33E-05	0.00E+00
4998	599201.9	4176897	8.36E-05	2.25E-04	0.00E+00		8.36E-05	2.25E-04	0.00E+00		1.36E-05	3.41E-05	0.00E+00		7.10E-06	1.30E-05	0.00E+00
4999	599193.7	4176893	8.22E-05	2.22E-04	0.00E+00		8.22E-05	2.22E-04	0.00E+00		1.34E-05	3.35E-05	0.00E+00		6.98E-06	1.28E-05	0.00E+00
5000	599185.4	4176888	8.13E-05	2.19E-04	0.00E+00		8.13E-05	2.19E-04	0.00E+00		1.32E-05	3.32E-05	0.00E+00		6.91E-06	1.26E-05	0.00E+00
5001	599177.2	4176883	8.31E-05	2.24E-04	0.00E+00		8.31E-05	2.24E-04	0.00E+00		1.35E-05	3.39E-05	0.00E+00		7.05E-06	1.29E-05	0.00E+00
5002	599168.9	4176879	8.52E-05	2.30E-04	0.00E+00		8.52E-05	2.30E-04	0.00E+00		1.39E-05	3.47E-05	0.00E+00		7.23E-06	1.32E-05	0.00E+00

5003	599160.6	4176874	8.65E-05	2.33E-04	0.00E+00	8.65E-05	2.33E-04	0.00E+00	1.41E-05	3.53E-05	0.00E+00	7.35E-06	1.34E-05	0.00E+00
5004	599152.4	4176869	8.71E-05	2.35E-04	0.00E+00	8.71E-05	2.35E-04	0.00E+00	1.42E-05	3.55E-05	0.00E+00	7.40E-06	1.35E-05	0.00E+00
5005	599144.1	4176865	8.7E-05	2.35E-04	0.00E+00	8.70E-05	2.35E-04	0.00E+00	1.42E-05	3.55E-05	0.00E+00	7.39E-06	1.35E-05	0.00E+00
5006	599135.9	4176860	8.61E-05	2.32E-04	0.00E+00	8.61E-05	2.32E-04	0.00E+00	1.40E-05	3.51E-05	0.00E+00	7.31E-06	1.34E-05	0.00E+00
5007	599127.6	4176855	8.4E-05	2.26E-04	0.00E+00	8.40E-05	2.26E-04	0.00E+00	1.37E-05	3.42E-05	0.00E+00	7.13E-06	1.31E-05	0.00E+00
5008	599309.3	4176958	9.66E-05	2.61E-04	0.00E+00	9.66E-05	2.61E-04	0.00E+00	1.57E-05	3.94E-05	0.00E+00	8.21E-06	1.50E-05	0.00E+00
5009	599318.7	4176960	9.8E-05	2.64E-04	0.00E+00	9.80E-05	2.64E-04	0.00E+00	1.59E-05	3.99E-05	0.00E+00	8.32E-06	1.52E-05	0.00E+00
5010	599328.1	4176962	9.94E-05	2.68E-04	0.00E+00	9.94E-05	2.68E-04	0.00E+00	1.62E-05	4.05E-05	0.00E+00	8.44E-06	1.54E-05	0.00E+00
5011	599337.5	4176963	0.000101	2.73E-04	0.00E+00	1.01E-04	2.73E-04	0.00E+00	1.65E-05	4.12E-05	0.00E+00	8.59E-06	1.57E-05	0.00E+00
5012	599346.9	4176965	0.000103	2.78E-04	0.00E+00	1.03E-04	2.78E-04	0.00E+00	1.68E-05	4.21E-05	0.00E+00	8.77E-06	1.60E-05	0.00E+00
5013	599356.3	4176967	0.000105	2.84E-04	0.00E+00	1.05E-04	2.84E-04	0.00E+00	1.71E-05	4.29E-05	0.00E+00	8.94E-06	1.64E-05	0.00E+00
5014	599365.7	4176968	0.000107	2.89E-04	0.00E+00	1.07E-04	2.89E-04	0.00E+00	1.75E-05	4.37E-05	0.00E+00	9.11E-06	1.67E-05	0.00E+00
5015	599375.1	4176970	0.000109	2.94E-04	0.00E+00	1.09E-04	2.94E-04	0.00E+00	1.78E-05	4.45E-05	0.00E+00	9.27E-06	1.70E-05	0.00E+00
5016	599384.5	4176972	0.000111	2.99E-04	0.00E+00	1.11E-04	2.99E-04	0.00E+00	1.80E-05	4.52E-05	0.00E+00	9.41E-06	1.72E-05	0.00E+00
5017	599393.9	4176974	0.000112	3.03E-04	0.00E+00	1.12E-04	3.03E-04	0.00E+00	1.83E-05	4.58E-05	0.00E+00	9.54E-06	1.75E-05	0.00E+00
5018	599297.4	4176973	9.18E-05	2.48E-04	0.00E+00	9.18E-05	2.48E-04	0.00E+00	1.49E-05	3.74E-05	0.00E+00	7.80E-06	1.43E-05	0.00E+00
5019	599289.1	4176968	9.14E-05	2.46E-04	0.00E+00	9.14E-05	2.46E-04	0.00E+00	1.49E-05	3.73E-05	0.00E+00	7.76E-06	1.42E-05	0.00E+00
5020	599280.7	4176964	9.1E-05	2.45E-04	0.00E+00	9.10E-05	2.45E-04	0.00E+00	1.48E-05	3.71E-05	0.00E+00	7.73E-06	1.41E-05	0.00E+00
5021	599272.4	4176959	9.05E-05	2.44E-04	0.00E+00	9.05E-05	2.44E-04	0.00E+00	1.47E-05	3.69E-05	0.00E+00	7.69E-06	1.41E-05	0.00E+00
5022	599264.1	4176954	8.98E-05	2.42E-04	0.00E+00	8.98E-05	2.42E-04	0.00E+00	1.46E-05	3.66E-05	0.00E+00	7.63E-06	1.40E-05	0.00E+00
5023	599255.8	4176950	8.94E-05	2.41E-04	0.00E+00	8.94E-05	2.41E-04	0.00E+00	1.45E-05	3.64E-05	0.00E+00	7.59E-06	1.39E-05	0.00E+00
5024	599247.5	4176945	8.92E-05	2.41E-04	0.00E+00	8.92E-05	2.41E-04	0.00E+00	1.45E-05	3.64E-05	0.00E+00	7.58E-06	1.39E-05	0.00E+00
5025	599239.2	4176940	8.81E-05	2.37E-04	0.00E+00	8.81E-05	2.37E-04	0.00E+00	1.43E-05	3.59E-05	0.00E+00	7.48E-06	1.37E-05	0.00E+00
5026	599230.9	4176936	8.62E-05	2.32E-04	0.00E+00	8.62E-05	2.32E-04	0.00E+00	1.40E-05	3.51E-05	0.00E+00	7.32E-06	1.34E-05	0.00E+00
5027	599222.6	4176931	8.43E-05	2.27E-04	0.00E+00	8.43E-05	2.27E-04	0.00E+00	1.37E-05	3.43E-05	0.00E+00	7.15E-06	1.31E-05	0.00E+00
5028	599214.3	4176926	8.24E-05	2.22E-04	0.00E+00	8.24E-05	2.22E-04	0.00E+00	1.34E-05	3.36E-05	0.00E+00	6.99E-06	1.28E-05	0.00E+00
5029	599206	4176921	7.99E-05	2.15E-04	0.00E+00	7.99E-05	2.15E-04	0.00E+00	1.30E-05	3.26E-05	0.00E+00	6.79E-06	1.24E-05	0.00E+00
5030	599197.7	4176917	7.71E-05	2.08E-04	0.00E+00	7.71E-05	2.08E-04	0.00E+00	1.25E-05	3.14E-05	0.00E+00	6.55E-06	1.20E-05	0.00E+00
5031	599189.3	4176912	7.44E-05	2.01E-04	0.00E+00	7.44E-05	2.01E-04	0.00E+00	1.21E-05	3.03E-05	0.00E+00	6.32E-06	1.16E-05	0.00E+00
5032	599181	4176907	7.3E-05	1.97E-04	0.00E+00	7.30E-05	1.97E-04	0.00E+00	1.19E-05	2.97E-05	0.00E+00	6.20E-06	1.13E-05	0.00E+00
5033	599172.7	4176903	7.36E-05	1.98E-04	0.00E+00	7.36E-05	1.98E-04	0.00E+00	1.20E-05	3.00E-05	0.00E+00	6.25E-06	1.14E-05	0.00E+00
5034	599164.4	4176898	7.49E-05	2.02E-04	0.00E+00	7.49E-05	2.02E-04	0.00E+00	1.22E-05	3.05E-05	0.00E+00	6.36E-06	1.16E-05	0.00E+00
5035	599156.1	4176893	7.67E-05	2.07E-04	0.00E+00	7.67E-05	2.07E-04	0.00E+00	1.25E-05	3.13E-05	0.00E+00	6.52E-06	1.19E-05	0.00E+00
5036	599147.8	4176889	7.93E-05	2.14E-04	0.00E+00	7.93E-05	2.14E-04	0.00E+00	1.29E-05	3.23E-05	0.00E+00	6.74E-06	1.23E-05	0.00E+00
5037	599139.5	4176884	8.11E-05	2.19E-04	0.00E+00	8.11E-05	2.19E-04	0.00E+00	1.32E-05	3.31E-05	0.00E+00	6.89E-06	1.26E-05	0.00E+00
5038	599131.2	4176879	8.14E-05	2.19E-04	0.00E+00	8.14E-05	2.19E-04	0.00E+00	1.32E-05	3.32E-05	0.00E+00	6.91E-06	1.26E-05	0.00E+00
5039	599122.9	4176874	8.05E-05	2.17E-04	0.00E+00	8.05E-05	2.17E-04	0.00E+00	1.31E-05	3.28E-05	0.00E+00	6.83E-06	1.25E-05	0.00E+00
5040	599114.6	4176870	7.47E-05	2.01E-04	0.00E+00	7.47E-05	2.01E-04	0.00E+00	1.22E-05	3.05E-05	0.00E+00	6.34E-06	1.16E-05	0.00E+00
5041	599305.7	4176978	9.22E-05	2.49E-04	0.00E+00	9.22E-05	2.49E-04	0.00E+00	1.50E-05	3.76E-05	0.00E+00	7.83E-06	1.43E-05	0.00E+00
5042	599315.1	4176979	9.36E-05	2.52E-04	0.00E+00	9.36E-05	2.52E-04	0.00E+00	1.52E-05	3.81E-05	0.00E+00	7.95E-06	1.45E-05	0.00E+00
5043	599324.5	4176981	9.51E-05	2.56E-04	0.00E+00	9.51E-05	2.56E-04	0.00E+00	1.55E-05	3.88E-05	0.00E+00	8.07E-06	1.48E-05	0.00E+00
5044	599333.9	4176983	9.67E-05	2.61E-04	0.00E+00	9.67E-05	2.61E-04	0.00E+00	1.57E-05	3.94E-05	0.00E+00	8.21E-06	1.50E-05	0.00E+00
5045	599343.3	4176985	9.87E-05	2.66E-04	0.00E+00	9.87E-05	2.66E-04	0.00E+00	1.61E-05	4.02E-05	0.00E+00	8.38E-06	1.53E-05	0.00E+00
5046	599352.7	4176986	0.000101	2.71E-04	0.00E+00	1.01E-04	2.71E-04	0.00E+00	1.64E-05	4.10E-05	0.00E+00	8.54E-06	1.56E-05	0.00E+00
5047	599362.1	4176988	0.000102	2.76E-04	0.00E+00	1.02E-04	2.76E-04	0.00E+00	1.67E-05	4.18E-05	0.00E+00	8.70E-06	1.59E-05	0.00E+00
5048	599371.5	4176990	0.000104	2.81E-04	0.00E+00	1.04E-04	2.81E-04	0.00E+00	1.69E-05	4.24E-05	0.00E+00	8.84E-06	1.62E-05	0.00E+00
5049	599380.9	4176992	0.000106	2.85E-04	0.00E+00	1.06E-04	2.85E-04	0.00E+00	1.72E-05	4.30E-05	0.00E+00	8.96E-06	1.64E-05	0.00E+00
5050	599390.3	4176993	0.000107	2.88E-04	0.00E+00	1.07E-04	2.88E-04	0.00E+00	1.74E-05	4.35E-05	0.00E+00	9.07E-06	1.66E-05	0.00E+00
5051	599293.8	4176993	8.73E-05	2.35E-04	0.00E+00	8.73E-05	2.35E-04	0.00E+00	1.42E-05	3.56E-05	0.00E+00	7.42E-06	1.36E-05	0.00E+00
5052	599285.6	4176988	8.7E-05	2.35E-04	0.00E+00	8.70E-05	2.35E-04	0.00E+00	1.42E-05	3.55E-05	0.00E+00	7.39E-06	1.35E-05	0.00E+00
5053	599277.4	4176983	8.7E-05	2.35E-04	0.00E+00	8.70E-05	2.35E-04	0.00E+00	1.42E-05	3.55E-05	0.00E+00	7.39E-06	1.35E-05	0.00E+00
5054	599269.2	4176979	8.67E-05	2.34E-04	0.00E+00	8.67E-05	2.34E-04	0.00E+00	1.41E-05	3.54E-05	0.00E+00	7.37E-06	1.35E-05	0.00E+00
5055	599260.9	4176974	8.6E-05	2.32E-04	0.00E+00	8.60E-05	2.32E-04	0.00E+00	1.40E-05	3.51E-05	0.00E+00	7.31E-06	1.34E-05	0.00E+00
5056	599252.7	4176970	8.53E-05	2.30E-04	0.00E+00	8.53E-05	2.30E-04	0.00E+00	1.39E-05	3.48E-05	0.00E+00	7.24E-06	1.32E-05	0.00E+00
5057	599244.5	4176965	8.47E-05	2.28E-04	0.00E+00	8.47E-05	2.28E-04	0.00E+00	1.38E-05	3.45E-05	0.00E+00	7.19E-06	1.32E-05	0.00E+00
5058	599236.3	4176960	8.34E-05	2.25E-04	0.00E+00	8.34E-05	2.25E-04	0.00E+00	1.36E-05	3.40E-05	0.00E+00	7.08E-06	1.30E-05	0.00E+00
5059	599228	4176956	8.16E-05	2.20E-04	0.00E+00	8.16E-05	2.20E-04	0.00E+00	1.33E-05	3.33E-05	0.00E+00	6.93E-06	1.27E-05	0.00E+00
5060	599219.8	4176951	7.93E-05	2.14E-04	0.00E+00	7.93E-05	2.14E-04	0.00E+00	1.29E-05	3.23E-05	0.00E+00	6.74E-06	1.23E-05	0.00E+00
5061	599211.6	4176946	7.66E-05	2.06E-04	0.00E+00	7.66E-05	2.06E-04	0.00E+00	1.25E-05	3.12E-05	0.00E+00	6.50E-06	1.19E-05	0.00E+00
5062	599203.4	4176942	7.39E-05	1.99E-04	0.00E+00	7.39E-05	1.99E-04	0.00E+00	1.20E-05	3.01E-05	0.00E+00	6.27E-06	1.15E-05	0.00E+00
5063	599195.1	4176937	7.11E-05	1.92E-04	0.00E+00	7.11E-05	1.92E-04	0.00E+00	1.16E-05	2.90E-05	0.00E+00	6.04E-06	1.10E-05	0.00E+00
5064	599186.9	4176932	6.81E-05	1.84E-04	0.00E+00	6.81E-05	1.84E-04	0.00E+00	1.11E-05	2.78E-05	0.00E+00	5.78E-06	1.06E-05	0.00E+00
5065	599178.7	4176928	6.55E-05	1.77E-04	0.00E+00	6.55E-05	1.77E-04	0.00E+00	1.07E-05	2.67E-05	0.00E+00	5.56E-06	1.02E-05	0.00E+00
5066	599170.5	4176923	6.4E-05	1.73E-04	0.00E+00	6.40E-05	1.73E-04	0.00E+00	1.04E-05	2.61E-05	0.00E+00	5.43E-06	9.94E-06	0.00E+00
5067	599162.2	4176918	6.34E-05	1.71E-04	0.00E+00	6.34E-05	1.71E-04	0.00E+00	1.03E-05	2.58E-05	0.00E+00	5.38E-06	9.85E-06	0.00E+00
5068	599154	4176914	6.38E-05	1.72E-04	0.00E+00	6.38E-05	1.72E-04	0.00E+00	1.04E-05	2.60E-05	0.00E+00	5.41E-06	9.91E-06	0.00E+00
5069	599145.8	4176909	6.64E-05	1.79E-04	0.00E+00	6.64E-05	1.79E-04	0.00E+00	1.08E-05	2.71E-05	0.00E+00	5.64E-06	1.03E-05	0.00E+00
5070	599137.5	4176904	6.91E-05	1.86E-04	0.00E+00	6.91E-05	1.86E-04	0.00E+00	1.12E-05	2.82E-05	0.00E+00	5.87E-06	1.07E-05	0.00E+00
5071	599129.3	4176900	7.17E-05	1.93E-04	0.00E+00	7.17E-05	1.93E-04	0.00E+00	1.17E-05	2.92E-05	0.00E+00	6.08E-06	1.11E-05	0.00E+00
5072	599121.1	4176895	7.28E-05	1.96E-04	0.00E+00	7.28E-05	1.96E-04	0.00E+00	1.18E-05	2.97E-05	0.00E+00	6.18E-06	1.13E-05	0.00E+00
5073	599112.9	4176891	7.02E-05	1.89E-04	0.00E+00	7.02E-05	1.89E-04	0.00E+00	1.14E-05	2.86E-05	0.00E+00	5.96E-06	1.09E-05	0.00E+00
5074	599104.6	4176886	6.6E-05	1.78E-04	0.00E+00	6.60E-05	1.78E-04	0.00E+00	1.07E-05	2.69E-05	0.00E+00	5.60E-06	1.03E-05	0.00E+00
5075	599096.4	4176881	5.99E-05	1.62E-04	0.00E+00	5.99E-05	1.62E-04	0.00E+00	9.75E-06	2.44E-05	0.00E+00	5.09E-06	9.31E-06	0.00E+00
5076	599302.1	4176997	8.79E-05	2.37E-04	0.00E+00	8.79E-05	2.37E-04	0.00E+00	1.43E-05	3.59E-05	0.00E+00	7.47E-06	1.37E-05	0.00E+00
5077	599311.5	4176999	8.96E-05	2.42E-04	0.00E+00	8.96E-05	2.42E-04	0.00E+00	1.46E-05	3.65E-05	0.00E+00	7.61E-06	1.39E-05	0.00E+00
5078	599320.9	4177001	9.14E-05	2.46E-04	0.00E+00	9.14E-05	2.46E-04	0.00E+00	1.49E-05	3.73E-05	0.00E+00	7.76E-06	1.42E-05	0.00E+00
5079	599330.3	4177003	9.33E-05	2.52E-04	0.00E+00	9.33E-05	2.52E-04	0.00E+00	1.52E-05	3.80E-05	0.00E+00	7.92E-06	1.45E-05	0.00E+00
5080	599339.7	4177004	9.5E-05	2.56E-04	0.00E+00	9.50E-05	2.56E-04	0.00E+00	1.55E-05	3.87E-05	0.00E+00	8.07E-06	1.48E-05	0.00E+00
5081	599349.1	4177006	9.65E-05	2.60E-04	0.00E+00	9.65E-05	2.60E-04	0.00E+00	1.57E-05	3.94E-05	0.00E+00	8.20E-06	1.50E-05	0.00E+00
5082	599358.5	4177008	9.78E-05	2.64E-04	0.00E+00	9.78E-05	2.64E-04	0.00E+00	1.59E-05	3.99E-05	0.00E+00	8.31E-06	1.52E-05	0.00E+00
5083	599367.9	4177010	9.91E-05	2.67E-04	0.00E+00	9.91E-05	2.67E-04	0.00E+00	1.61E-05	4.04E-05	0.00E+00	8.42E-06	1.54E-05	0.00E+00
5084	599377.3	4177011	0.0001	2.71E-04	0.00E+00	1.00E-04	2.71E-04	0.00E+00	1.63E-05	4.09E-05	0.00E+00	8.52E-06	1.56E-05	0.00E+00
5085	599386.7	4177013	0.000102	2.74E-04	0.00E+00	1.02E-04	2.74E-04	0.00E+00	1.65E-05	4.14E-05	0.00E+00	8.62E-06	1.58E-05	0.00E+00
5086	599290.2	4177012	8.26E-05	2.23E-04	0.00E+00	8.26E-05	2.23E-04	0.00E+00	1.34E-05	3.37E-05	0.00E+00	7.01E-06	1.28E-05	0.00E+00
5087	599281.9	4177008	8.2E-05	2.21E-04	0.00E+00	8.20E-05	2.21E-04	0.00E+00	1.33E-05	3.34E-05	0.00E+00	6.97E-06	1.27E-05	0.00E+00
5088	599273.6	4177003	8.17E-05	2.20E-04	0.00E+00	8.17E-05	2.20E-04	0.00E+00	1.33E-05	3.33E-05	0.00E+00	6.93E-06	1.27E-05	0.00E+00
5089	599265.4	4176998	8.14E-05	2.19E-04	0.00E+00	8.14E-05	2.19E-04	0.00E+00	1.32E-05	3.32E-05	0.00E+00	6.91E-06	1.26E-05	0.00E+00
5090	599257.1	4176994	8.1E-05	2.18E-04	0.00E+00	8.10E-05	2.18E-04	0.00E+00	1.32E-05	3.30E-05	0.00E+00	6.88E-06	1.26E-05	0.00E+00
5091	599248.8	4176989	8.06E-05	2.17E-04	0.00E+00	8.06E-05	2.17E-04	0.00E+00	1.31E-05	3.29E-05	0.00E+00	6.85E-06	1.25E-05	0.00E+00
5092	599240.5	4176984	7.99E-05	2.16E-04	0.00E+00	7.99E-05	2.16E-04	0.00E+00	1.30E-05	3.26E-05	0.00E+00	6.79E-06	1.24E-05	0.00E+00
5093	599232.3	4176980	7.87E-05	2.12E-04	0.00E+00	7.87E-05	2.12E-04	0.00E+00	1.28E-05	3.21E-05	0.00E+00	6.68E-06	1.22E-05	0.00E+00

5094	599224	4176975	7.71E-05	2.08E-04	0.00E+00	7.71E-05	2.08E-04	0.00E+00	1.26E-05	3.15E-05	0.00E+00	6.55E-06	1.20E-05	0.00E+00
5095	599215.7	4176970	7.53E-05	2.03E-04	0.00E+00	7.53E-05	2.03E-04	0.00E+00	1.22E-05	3.07E-05	0.00E+00	6.39E-06	1.17E-05	0.00E+00
5096	599207.4	4176966	7.26E-05	1.96E-04	0.00E+00	7.26E-05	1.96E-04	0.00E+00	1.18E-05	2.96E-05	0.00E+00	6.16E-06	1.13E-05	0.00E+00
5097	599199.2	4176961	6.94E-05	1.87E-04	0.00E+00	6.94E-05	1.87E-04	0.00E+00	1.13E-05	2.83E-05	0.00E+00	5.89E-06	1.08E-05	0.00E+00
5098	599190.9	4176956	6.6E-05	1.78E-04	0.00E+00	6.60E-05	1.78E-04	0.00E+00	1.07E-05	2.69E-05	0.00E+00	5.60E-06	1.03E-05	0.00E+00
5099	599182.6	4176952	6.23E-05	1.68E-04	0.00E+00	6.23E-05	1.68E-04	0.00E+00	1.01E-05	2.54E-05	0.00E+00	5.29E-06	9.67E-06	0.00E+00
5100	599174.3	4176947	5.75E-05	1.55E-04	0.00E+00	5.75E-05	1.55E-04	0.00E+00	9.36E-06	2.35E-05	0.00E+00	4.88E-06	8.94E-06	0.00E+00
5101	599166.1	4176942	5.42E-05	1.46E-04	0.00E+00	5.42E-05	1.46E-04	0.00E+00	8.82E-06	2.21E-05	0.00E+00	4.60E-06	8.43E-06	0.00E+00
5102	599157.8	4176938	5.19E-05	1.40E-04	0.00E+00	5.19E-05	1.40E-04	0.00E+00	8.44E-06	2.12E-05	0.00E+00	4.41E-06	8.07E-06	0.00E+00
5103	599149.5	4176933	5.21E-05	1.40E-04	0.00E+00	5.21E-05	1.40E-04	0.00E+00	8.48E-06	2.12E-05	0.00E+00	4.42E-06	8.10E-06	0.00E+00
5104	599141.2	4176928	5.43E-05	1.46E-04	0.00E+00	5.43E-05	1.46E-04	0.00E+00	8.84E-06	2.21E-05	0.00E+00	4.61E-06	8.44E-06	0.00E+00
5105	599133	4176924	5.68E-05	1.53E-04	0.00E+00	5.68E-05	1.53E-04	0.00E+00	9.25E-06	2.32E-05	0.00E+00	4.83E-06	8.83E-06	0.00E+00
5106	599124.7	4176919	5.96E-05	1.61E-04	0.00E+00	5.96E-05	1.61E-04	0.00E+00	9.70E-06	2.43E-05	0.00E+00	5.06E-06	9.26E-06	0.00E+00
5107	599116.4	4176914	6.13E-05	1.65E-04	0.00E+00	6.13E-05	1.65E-04	0.00E+00	9.97E-06	2.50E-05	0.00E+00	5.20E-06	9.52E-06	0.00E+00
5108	599108.1	4176910	6.1E-05	1.64E-04	0.00E+00	6.10E-05	1.64E-04	0.00E+00	9.92E-06	2.49E-05	0.00E+00	5.18E-06	9.47E-06	0.00E+00
5109	599099.9	4176905	5.92E-05	1.60E-04	0.00E+00	5.92E-05	1.60E-04	0.00E+00	9.64E-06	2.41E-05	0.00E+00	5.03E-06	9.20E-06	0.00E+00
5110	599091.6	4176900	5.47E-05	1.48E-04	0.00E+00	5.47E-05	1.48E-04	0.00E+00	8.90E-06	2.23E-05	0.00E+00	4.65E-06	8.51E-06	0.00E+00
5111	599298.5	4177017	8.3E-05	2.24E-04	0.00E+00	8.30E-05	2.24E-04	0.00E+00	1.35E-05	3.39E-05	0.00E+00	7.05E-06	1.29E-05	0.00E+00
5112	599307.9	4177019	8.45E-05	2.28E-04	0.00E+00	8.45E-05	2.28E-04	0.00E+00	1.38E-05	3.45E-05	0.00E+00	7.18E-06	1.31E-05	0.00E+00
5113	599317.3	4177021	8.63E-05	2.33E-04	0.00E+00	8.63E-05	2.33E-04	0.00E+00	1.40E-05	3.52E-05	0.00E+00	7.33E-06	1.34E-05	0.00E+00
5114	599326.7	4177022	8.81E-05	2.38E-04	0.00E+00	8.81E-05	2.38E-04	0.00E+00	1.43E-05	3.59E-05	0.00E+00	7.48E-06	1.37E-05	0.00E+00
5115	599336.1	4177024	8.98E-05	2.42E-04	0.00E+00	8.98E-05	2.42E-04	0.00E+00	1.46E-05	3.66E-05	0.00E+00	7.62E-06	1.40E-05	0.00E+00
5116	599345.5	4177026	9.11E-05	2.45E-04	0.00E+00	9.11E-05	2.45E-04	0.00E+00	1.48E-05	3.71E-05	0.00E+00	7.73E-06	1.41E-05	0.00E+00
5117	599354.9	4177027	9.23E-05	2.49E-04	0.00E+00	9.23E-05	2.49E-04	0.00E+00	1.50E-05	3.76E-05	0.00E+00	7.84E-06	1.43E-05	0.00E+00
5118	599364.3	4177029	9.35E-05	2.52E-04	0.00E+00	9.35E-05	2.52E-04	0.00E+00	1.52E-05	3.81E-05	0.00E+00	7.94E-06	1.45E-05	0.00E+00
5119	599373.7	4177031	9.5E-05	2.56E-04	0.00E+00	9.50E-05	2.56E-04	0.00E+00	1.55E-05	3.87E-05	0.00E+00	8.07E-06	1.48E-05	0.00E+00
5120	599383.1	4177033	9.66E-05	2.60E-04	0.00E+00	9.66E-05	2.60E-04	0.00E+00	1.57E-05	3.94E-05	0.00E+00	8.20E-06	1.50E-05	0.00E+00
5121	599392.5	4177034	9.79E-05	2.64E-04	0.00E+00	9.79E-05	2.64E-04	0.00E+00	1.59E-05	3.99E-05	0.00E+00	8.32E-06	1.52E-05	0.00E+00
5122	599192.6	4176771	0.000118	3.18E-04	0.00E+00	1.18E-04	3.18E-04	0.00E+00	1.92E-05	4.81E-05	0.00E+00	1.00E-05	1.83E-05	0.00E+00
5123	599198.1	4176776	0.00012	3.24E-04	0.00E+00	1.20E-04	3.24E-04	0.00E+00	1.95E-05	4.90E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
5124	599207.1	4176780	0.000123	3.31E-04	0.00E+00	1.23E-04	3.31E-04	0.00E+00	2.00E-05	5.01E-05	0.00E+00	1.04E-05	1.91E-05	0.00E+00
5125	599211.8	4176773	0.000125	3.38E-04	0.00E+00	1.25E-04	3.38E-04	0.00E+00	2.04E-05	5.11E-05	0.00E+00	1.06E-05	1.95E-05	0.00E+00
5126	599204.6	4176769	0.000123	3.32E-04	0.00E+00	1.23E-04	3.32E-04	0.00E+00	2.00E-05	5.02E-05	0.00E+00	1.05E-05	1.91E-05	0.00E+00
5127	599197.1	4176766	0.00012	3.24E-04	0.00E+00	1.20E-04	3.24E-04	0.00E+00	1.95E-05	4.90E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
5128	599199.9	4176763	0.000122	3.28E-04	0.00E+00	1.22E-04	3.28E-04	0.00E+00	1.98E-05	4.97E-05	0.00E+00	1.03E-05	1.89E-05	0.00E+00
5129	599169.4	4176794	0.000103	2.77E-04	0.00E+00	1.03E-04	2.77E-04	0.00E+00	1.67E-05	4.19E-05	0.00E+00	8.73E-06	1.60E-05	0.00E+00
5130	599174	4176783	0.000105	2.83E-04	0.00E+00	1.05E-04	2.83E-04	0.00E+00	1.71E-05	4.28E-05	0.00E+00	8.92E-06	1.63E-05	0.00E+00
5131	599178.4	4176775	0.000109	2.93E-04	0.00E+00	1.09E-04	2.93E-04	0.00E+00	1.77E-05	4.42E-05	0.00E+00	9.21E-06	1.69E-05	0.00E+00
5132	599181.1	4176771	0.000111	2.99E-04	0.00E+00	1.11E-04	2.99E-04	0.00E+00	1.81E-05	4.53E-05	0.00E+00	9.42E-06	1.72E-05	0.00E+00
5133	599184.7	4176768	0.000114	3.08E-04	0.00E+00	1.14E-04	3.08E-04	0.00E+00	1.86E-05	4.66E-05	0.00E+00	9.71E-06	1.78E-05	0.00E+00
5134	599188.4	4176762	0.000116	3.12E-04	0.00E+00	1.16E-04	3.12E-04	0.00E+00	1.89E-05	4.72E-05	0.00E+00	9.84E-06	1.80E-05	0.00E+00
5135	599191.6	4176760	0.000118	3.17E-04	0.00E+00	1.18E-04	3.17E-04	0.00E+00	1.91E-05	4.80E-05	0.00E+00	9.99E-06	1.83E-05	0.00E+00
5136	599195.5	4176753	0.00012	3.24E-04	0.00E+00	1.20E-04	3.24E-04	0.00E+00	1.96E-05	4.90E-05	0.00E+00	1.02E-05	1.87E-05	0.00E+00
5137	599206.2	4176756	0.000126	3.40E-04	0.00E+00	1.26E-04	3.40E-04	0.00E+00	2.05E-05	5.14E-05	0.00E+00	1.07E-05	1.96E-05	0.00E+00
5138	599216.7	4176763	0.000128	3.46E-04	0.00E+00	1.28E-04	3.46E-04	0.00E+00	2.09E-05	5.23E-05	0.00E+00	1.09E-05	1.99E-05	0.00E+00
5139	599200.8	4176746	0.000124	3.35E-04	0.00E+00	1.24E-04	3.35E-04	0.00E+00	2.02E-05	5.07E-05	0.00E+00	1.06E-05	1.93E-05	0.00E+00
5140	599210.8	4176749	0.00013	3.50E-04	0.00E+00	1.30E-04	3.50E-04	0.00E+00	2.11E-05	5.29E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
5141	599223.3	4176755	0.000131	3.54E-04	0.00E+00	1.31E-04	3.54E-04	0.00E+00	2.14E-05	5.36E-05	0.00E+00	1.12E-05	2.04E-05	0.00E+00
5142	599207.4	4176739	0.00013	3.51E-04	0.00E+00	1.30E-04	3.51E-04	0.00E+00	2.11E-05	5.30E-05	0.00E+00	1.10E-05	2.02E-05	0.00E+00
5143	599212.5	4176743	0.000132	3.57E-04	0.00E+00	1.32E-04	3.57E-04	0.00E+00	2.15E-05	5.40E-05	0.00E+00	1.12E-05	2.06E-05	0.00E+00
5144	599225.2	4176747	0.000134	3.61E-04	0.00E+00	1.34E-04	3.61E-04	0.00E+00	2.18E-05	5.46E-05	0.00E+00	1.14E-05	2.08E-05	0.00E+00

			UnMitigated	T2	T2L3	T4
			7.44E-02	7.44E-02	1.21E-02	6.31E-03
			Yr 1	Yr 1	Yr 1	Yr 1
1	599561.5	4176293	5.08E-03	5.08E-03	8.26E-04	4.31E-04
2	599570.7	4176294	5.10E-03	5.10E-03	8.30E-04	4.33E-04
3	599580	4176296	5.24E-03	5.24E-03	8.52E-04	4.45E-04
4	599589.3	4176297	5.39E-03	5.39E-03	8.77E-04	4.58E-04
5	599598.6	4176299	5.50E-03	5.50E-03	8.94E-04	4.67E-04
6	599607.9	4176300	5.53E-03	5.53E-03	9.00E-04	4.70E-04
7	599617.2	4176302	5.51E-03	5.51E-03	8.96E-04	4.68E-04
8	599626.5	4176303	5.45E-03	5.45E-03	8.86E-04	4.63E-04
9	599635.8	4176304	5.35E-03	5.35E-03	8.70E-04	4.54E-04
10	599645.1	4176306	5.26E-03	5.26E-03	8.55E-04	4.46E-04
11	599654.4	4176307	5.24E-03	5.24E-03	8.52E-04	4.45E-04
12	599663.7	4176309	5.10E-03	5.10E-03	8.29E-04	4.33E-04
13	599673	4176310	5.03E-03	5.03E-03	8.18E-04	4.27E-04
14	599682.2	4176312	4.96E-03	4.96E-03	8.06E-04	4.21E-04
15	599559.9	4176302	4.47E-03	4.47E-03	7.28E-04	3.80E-04
16	599569.2	4176304	4.49E-03	4.49E-03	7.31E-04	3.81E-04
17	599578.5	4176305	4.58E-03	4.58E-03	7.44E-04	3.88E-04
18	599587.7	4176307	4.69E-03	4.69E-03	7.62E-04	3.98E-04
19	599597	4176308	4.77E-03	4.77E-03	7.76E-04	4.05E-04
20	599606.3	4176310	4.81E-03	4.81E-03	7.83E-04	4.09E-04
21	599615.6	4176311	4.83E-03	4.83E-03	7.86E-04	4.10E-04
22	599624.9	4176313	4.89E-03	4.89E-03	7.95E-04	4.15E-04
23	599634.2	4176314	4.90E-03	4.90E-03	7.98E-04	4.16E-04
24	599643.5	4176316	4.89E-03	4.89E-03	7.95E-04	4.15E-04
25	599652.8	4176317	4.85E-03	4.85E-03	7.89E-04	4.12E-04
26	599662.1	4176319	4.79E-03	4.79E-03	7.79E-04	4.07E-04
27	599671.4	4176320	4.78E-03	4.78E-03	7.77E-04	4.06E-04
28	599680.7	4176322	4.74E-03	4.74E-03	7.70E-04	4.02E-04
29	599558.3	4176312	3.96E-03	3.96E-03	6.45E-04	3.37E-04
30	599567.6	4176314	3.98E-03	3.98E-03	6.47E-04	3.38E-04
31	599576.9	4176315	4.03E-03	4.03E-03	6.55E-04	3.42E-04
32	599586.2	4176317	4.11E-03	4.11E-03	6.69E-04	3.49E-04
33	599595.5	4176318	4.20E-03	4.20E-03	6.83E-04	3.56E-04
34	599604.8	4176320	4.42E-03	4.42E-03	7.19E-04	3.75E-04
35	599614	4176321	4.48E-03	4.48E-03	7.28E-04	3.80E-04
36	599623.3	4176323	4.51E-03	4.51E-03	7.33E-04	3.83E-04
37	599632.6	4176324	4.51E-03	4.51E-03	7.34E-04	3.83E-04
38	599641.9	4176326	4.55E-03	4.55E-03	7.40E-04	3.86E-04
39	599651.2	4176327	4.57E-03	4.57E-03	7.44E-04	3.88E-04
40	599660.5	4176329	4.51E-03	4.51E-03	7.34E-04	3.83E-04
41	599669.8	4176330	4.48E-03	4.48E-03	7.29E-04	3.81E-04
42	599679.1	4176332	4.44E-03	4.44E-03	7.22E-04	3.77E-04
43	599556.7	4176322	3.61E-03	3.61E-03	5.87E-04	3.06E-04
44	599566	4176324	3.62E-03	3.62E-03	5.89E-04	3.08E-04

45	599575.3	4176325	3.66E-03	3.66E-03	5.96E-04	3.11E-04
46	599584.6	4176327	3.73E-03	3.73E-03	6.08E-04	3.17E-04
47	599593.9	4176328	3.80E-03	3.80E-03	6.18E-04	3.23E-04
48	599603.2	4176330	3.99E-03	3.99E-03	6.50E-04	3.39E-04
49	599612.5	4176331	4.07E-03	4.07E-03	6.62E-04	3.45E-04
50	599621.8	4176333	4.12E-03	4.12E-03	6.70E-04	3.50E-04
51	599631.1	4176334	4.15E-03	4.15E-03	6.75E-04	3.52E-04
52	599640.3	4176336	4.22E-03	4.22E-03	6.87E-04	3.58E-04
53	599649.6	4176337	4.30E-03	4.30E-03	7.00E-04	3.65E-04
54	599658.9	4176339	4.25E-03	4.25E-03	6.91E-04	3.60E-04
55	599668.2	4176340	4.26E-03	4.26E-03	6.93E-04	3.62E-04
56	599677.5	4176342	4.26E-03	4.26E-03	6.92E-04	3.61E-04
57	599555.1	4176332	3.34E-03	3.34E-03	5.43E-04	2.84E-04
58	599564.4	4176334	3.34E-03	3.34E-03	5.44E-04	2.84E-04
59	599573.7	4176335	3.36E-03	3.36E-03	5.47E-04	2.85E-04
60	599583	4176337	3.41E-03	3.41E-03	5.54E-04	2.89E-04
61	599592.3	4176338	3.46E-03	3.46E-03	5.62E-04	2.94E-04
62	599601.6	4176340	3.59E-03	3.59E-03	5.84E-04	3.05E-04
63	599610.9	4176341	3.70E-03	3.70E-03	6.02E-04	3.14E-04
64	599620.2	4176342	3.77E-03	3.77E-03	6.13E-04	3.20E-04
65	599629.5	4176344	3.82E-03	3.82E-03	6.21E-04	3.24E-04
66	599638.8	4176345	3.88E-03	3.88E-03	6.30E-04	3.29E-04
67	599648.1	4176347	3.94E-03	3.94E-03	6.42E-04	3.35E-04
68	599657.3	4176348	4.03E-03	4.03E-03	6.56E-04	3.42E-04
69	599666.6	4176350	4.12E-03	4.12E-03	6.71E-04	3.50E-04
70	599675.9	4176351	4.15E-03	4.15E-03	6.75E-04	3.53E-04
71	599553.6	4176342	3.11E-03	3.11E-03	5.06E-04	2.64E-04
72	599562.9	4176343	3.10E-03	3.10E-03	5.04E-04	2.63E-04
73	599572.1	4176345	3.10E-03	3.10E-03	5.05E-04	2.64E-04
74	599581.4	4176346	3.13E-03	3.13E-03	5.10E-04	2.66E-04
75	599590.7	4176348	3.17E-03	3.17E-03	5.16E-04	2.69E-04
76	599600	4176349	3.29E-03	3.29E-03	5.36E-04	2.80E-04
77	599609.3	4176351	3.41E-03	3.41E-03	5.55E-04	2.89E-04
78	599618.6	4176352	3.44E-03	3.44E-03	5.59E-04	2.92E-04
79	599627.9	4176354	3.53E-03	3.53E-03	5.74E-04	3.00E-04
80	599637.2	4176355	3.62E-03	3.62E-03	5.88E-04	3.07E-04
81	599646.5	4176357	3.75E-03	3.75E-03	6.10E-04	3.18E-04
82	599655.8	4176358	3.92E-03	3.92E-03	6.37E-04	3.33E-04
83	599665.1	4176360	4.08E-03	4.08E-03	6.63E-04	3.46E-04
84	599674.4	4176361	4.12E-03	4.12E-03	6.70E-04	3.50E-04
85	599552	4176352	3.03E-03	3.03E-03	4.92E-04	2.57E-04
86	599561.3	4176353	2.99E-03	2.99E-03	4.87E-04	2.54E-04
87	599570.6	4176355	2.98E-03	2.98E-03	4.85E-04	2.53E-04
88	599579.9	4176356	2.98E-03	2.98E-03	4.84E-04	2.53E-04
89	599589.2	4176358	2.99E-03	2.99E-03	4.86E-04	2.54E-04
90	599598.4	4176359	3.01E-03	3.01E-03	4.89E-04	2.55E-04
91	599607.7	4176361	3.18E-03	3.18E-03	5.18E-04	2.70E-04

92	599617	4176362	3.18E-03	3.18E-03	5.18E-04	2.70E-04
93	599626.3	4176364	3.28E-03	3.28E-03	5.34E-04	2.79E-04
94	599635.6	4176365	3.40E-03	3.40E-03	5.53E-04	2.89E-04
95	599644.9	4176367	3.60E-03	3.60E-03	5.86E-04	3.06E-04
96	599654.2	4176368	3.82E-03	3.82E-03	6.21E-04	3.24E-04
97	599663.5	4176370	4.07E-03	4.07E-03	6.62E-04	3.45E-04
98	599672.8	4176371	4.13E-03	4.13E-03	6.73E-04	3.51E-04
99	599550.4	4176362	3.08E-03	3.08E-03	5.01E-04	2.61E-04
100	599559.7	4176363	2.98E-03	2.98E-03	4.85E-04	2.53E-04
101	599569	4176365	2.91E-03	2.91E-03	4.73E-04	2.47E-04
102	599578.3	4176366	2.86E-03	2.86E-03	4.66E-04	2.43E-04
103	599587.6	4176368	2.84E-03	2.84E-03	4.62E-04	2.41E-04
104	599596.9	4176369	2.83E-03	2.83E-03	4.60E-04	2.40E-04
105	599606.2	4176371	2.98E-03	2.98E-03	4.85E-04	2.53E-04
106	599615.4	4176372	2.99E-03	2.99E-03	4.86E-04	2.54E-04
107	599624.7	4176374	3.11E-03	3.11E-03	5.06E-04	2.64E-04
108	599634	4176375	3.23E-03	3.23E-03	5.25E-04	2.74E-04
109	599643.3	4176377	3.47E-03	3.47E-03	5.65E-04	2.95E-04
110	599652.6	4176378	3.74E-03	3.74E-03	6.08E-04	3.18E-04
111	599661.9	4176380	4.05E-03	4.05E-03	6.58E-04	3.44E-04
112	599671.2	4176381	4.13E-03	4.13E-03	6.72E-04	3.51E-04
113	599548.8	4176372	3.23E-03	3.23E-03	5.25E-04	2.74E-04
114	599558.1	4176373	3.03E-03	3.03E-03	4.93E-04	2.57E-04
115	599567.4	4176375	2.89E-03	2.89E-03	4.70E-04	2.45E-04
116	599576.7	4176376	2.79E-03	2.79E-03	4.54E-04	2.37E-04
117	599586	4176378	2.72E-03	2.72E-03	4.43E-04	2.31E-04
118	599595.3	4176379	2.69E-03	2.69E-03	4.38E-04	2.29E-04
119	599604.6	4176381	2.69E-03	2.69E-03	4.38E-04	2.29E-04
120	599613.9	4176382	2.84E-03	2.84E-03	4.62E-04	2.41E-04
121	599623.2	4176383	3.00E-03	3.00E-03	4.88E-04	2.55E-04
122	599632.5	4176385	3.17E-03	3.17E-03	5.15E-04	2.69E-04
123	599641.7	4176386	3.41E-03	3.41E-03	5.55E-04	2.90E-04
124	599651	4176388	3.70E-03	3.70E-03	6.02E-04	3.14E-04
125	599660.3	4176389	4.02E-03	4.02E-03	6.54E-04	3.41E-04
126	599669.6	4176391	4.12E-03	4.12E-03	6.70E-04	3.50E-04
127	599547.3	4176381	3.43E-03	3.43E-03	5.59E-04	2.92E-04
128	599556.5	4176383	3.10E-03	3.10E-03	5.05E-04	2.63E-04
129	599565.8	4176384	2.88E-03	2.88E-03	4.69E-04	2.45E-04
130	599575.1	4176386	2.73E-03	2.73E-03	4.45E-04	2.32E-04
131	599584.4	4176387	2.65E-03	2.65E-03	4.31E-04	2.25E-04
132	599593.7	4176389	2.60E-03	2.60E-03	4.22E-04	2.20E-04
133	599603	4176390	2.57E-03	2.57E-03	4.18E-04	2.18E-04
134	599612.3	4176392	2.74E-03	2.74E-03	4.45E-04	2.32E-04
135	599621.6	4176393	2.93E-03	2.93E-03	4.77E-04	2.49E-04
136	599630.9	4176395	3.15E-03	3.15E-03	5.12E-04	2.67E-04
137	599640.2	4176396	3.41E-03	3.41E-03	5.55E-04	2.90E-04
138	599649.5	4176398	3.71E-03	3.71E-03	6.04E-04	3.15E-04

139	599658.8	4176399	4.05E-03	4.05E-03	6.59E-04	3.44E-04
140	599668	4176401	4.17E-03	4.17E-03	6.78E-04	3.54E-04
141	599545.7	4176391	3.70E-03	3.70E-03	6.01E-04	3.14E-04
142	599555	4176393	3.22E-03	3.22E-03	5.24E-04	2.74E-04
143	599564.3	4176394	2.91E-03	2.91E-03	4.74E-04	2.47E-04
144	599573.5	4176396	2.70E-03	2.70E-03	4.40E-04	2.29E-04
145	599582.8	4176397	2.60E-03	2.60E-03	4.22E-04	2.20E-04
146	599592.1	4176399	2.53E-03	2.53E-03	4.11E-04	2.15E-04
147	599601.4	4176400	2.49E-03	2.49E-03	4.04E-04	2.11E-04
148	599610.7	4176402	2.64E-03	2.64E-03	4.30E-04	2.24E-04
149	599620	4176403	2.88E-03	2.88E-03	4.69E-04	2.45E-04
150	599629.3	4176405	3.17E-03	3.17E-03	5.16E-04	2.69E-04
151	599638.6	4176406	3.49E-03	3.49E-03	5.67E-04	2.96E-04
152	599647.9	4176408	3.77E-03	3.77E-03	6.14E-04	3.20E-04
153	599657.2	4176409	4.04E-03	4.04E-03	6.57E-04	3.43E-04
154	599666.5	4176411	4.10E-03	4.10E-03	6.67E-04	3.48E-04
155	599544.1	4176401	4.07E-03	4.07E-03	6.62E-04	3.46E-04
156	599553.4	4176403	3.43E-03	3.43E-03	5.57E-04	2.91E-04
157	599562.7	4176404	3.00E-03	3.00E-03	4.88E-04	2.54E-04
158	599572	4176406	2.71E-03	2.71E-03	4.41E-04	2.30E-04
159	599581.3	4176407	2.59E-03	2.59E-03	4.21E-04	2.20E-04
160	599590.6	4176409	2.53E-03	2.53E-03	4.12E-04	2.15E-04
161	599599.8	4176410	2.50E-03	2.50E-03	4.07E-04	2.13E-04
162	599609.1	4176412	2.66E-03	2.66E-03	4.33E-04	2.26E-04
163	599618.4	4176413	2.96E-03	2.96E-03	4.82E-04	2.51E-04
164	599627.7	4176415	3.31E-03	3.31E-03	5.38E-04	2.81E-04
165	599637	4176416	3.62E-03	3.62E-03	5.90E-04	3.08E-04
166	599646.3	4176418	3.78E-03	3.78E-03	6.15E-04	3.21E-04
167	599655.6	4176419	3.88E-03	3.88E-03	6.32E-04	3.30E-04
168	599664.9	4176421	3.86E-03	3.86E-03	6.29E-04	3.28E-04
169	599542.5	4176411	4.47E-03	4.47E-03	7.27E-04	3.79E-04
170	599551.8	4176413	3.73E-03	3.73E-03	6.07E-04	3.17E-04
171	599561.1	4176414	3.22E-03	3.22E-03	5.25E-04	2.74E-04
172	599570.4	4176416	2.89E-03	2.89E-03	4.71E-04	2.46E-04
173	599579.7	4176417	2.76E-03	2.76E-03	4.49E-04	2.34E-04
174	599589	4176419	2.72E-03	2.72E-03	4.43E-04	2.31E-04
175	599598.3	4176420	2.71E-03	2.71E-03	4.41E-04	2.30E-04
176	599607.6	4176421	2.85E-03	2.85E-03	4.64E-04	2.42E-04
177	599616.9	4176423	3.20E-03	3.20E-03	5.20E-04	2.71E-04
178	599626.1	4176424	3.59E-03	3.59E-03	5.84E-04	3.05E-04
179	599635.4	4176426	3.94E-03	3.94E-03	6.41E-04	3.35E-04
180	599644.7	4176427	3.90E-03	3.90E-03	6.35E-04	3.31E-04
181	599654	4176429	3.81E-03	3.81E-03	6.19E-04	3.23E-04
182	599663.3	4176430	3.67E-03	3.67E-03	5.98E-04	3.12E-04
183	599540.9	4176421	4.82E-03	4.82E-03	7.83E-04	4.09E-04
184	599550.2	4176422	4.10E-03	4.10E-03	6.67E-04	3.48E-04
185	599559.5	4176424	3.55E-03	3.55E-03	5.78E-04	3.02E-04

186	599568.8	4176425	3.17E-03	3.17E-03	5.15E-04	2.69E-04
187	599578.1	4176427	3.01E-03	3.01E-03	4.90E-04	2.56E-04
188	599587.4	4176428	3.03E-03	3.03E-03	4.92E-04	2.57E-04
189	599596.7	4176430	3.07E-03	3.07E-03	5.00E-04	2.61E-04
190	599606	4176431	3.22E-03	3.22E-03	5.24E-04	2.73E-04
191	599615.3	4176433	3.63E-03	3.63E-03	5.90E-04	3.08E-04
192	599624.6	4176434	4.07E-03	4.07E-03	6.63E-04	3.46E-04
193	599633.9	4176436	4.53E-03	4.53E-03	7.37E-04	3.85E-04
194	599643.1	4176437	4.11E-03	4.11E-03	6.69E-04	3.49E-04
195	599652.4	4176439	3.75E-03	3.75E-03	6.09E-04	3.18E-04
196	599661.7	4176440	3.44E-03	3.44E-03	5.60E-04	2.92E-04
197	599539.4	4176431	5.13E-03	5.13E-03	8.35E-04	4.36E-04
198	599548.7	4176432	4.49E-03	4.49E-03	7.30E-04	3.81E-04
199	599557.9	4176434	3.95E-03	3.95E-03	6.43E-04	3.36E-04
200	599567.2	4176435	3.54E-03	3.54E-03	5.76E-04	3.01E-04
201	599576.5	4176437	3.38E-03	3.38E-03	5.51E-04	2.87E-04
202	599585.8	4176438	3.52E-03	3.52E-03	5.73E-04	2.99E-04
203	599595.1	4176440	3.65E-03	3.65E-03	5.94E-04	3.10E-04
204	599604.4	4176441	3.79E-03	3.79E-03	6.17E-04	3.22E-04
205	599613.7	4176443	4.10E-03	4.10E-03	6.67E-04	3.48E-04
206	599623	4176444	4.35E-03	4.35E-03	7.08E-04	3.70E-04
207	599632.3	4176446	4.53E-03	4.53E-03	7.38E-04	3.85E-04
208	599641.6	4176447	4.05E-03	4.05E-03	6.59E-04	3.44E-04
209	599650.9	4176449	3.57E-03	3.57E-03	5.81E-04	3.03E-04
210	599536.2	4176451	5.78E-03	5.78E-03	9.41E-04	4.91E-04
211	599629.1	4176465	4.78E-03	4.78E-03	7.77E-04	4.06E-04
212	599638.4	4176467	4.08E-03	4.08E-03	6.64E-04	3.46E-04
213	599626	4176485	3.63E-03	3.63E-03	5.90E-04	3.08E-04
214	599567.1	4176496	4.02E-03	4.02E-03	6.55E-04	3.42E-04
215	599576.4	4176498	3.54E-03	3.54E-03	5.75E-04	3.00E-04
216	599585.6	4176499	3.23E-03	3.23E-03	5.26E-04	2.75E-04
217	599594.9	4176500	2.94E-03	2.94E-03	4.78E-04	2.50E-04
218	599604.2	4176502	2.69E-03	2.69E-03	4.37E-04	2.28E-04
219	599613.5	4176503	2.62E-03	2.62E-03	4.27E-04	2.23E-04
220	599622.8	4176505	2.54E-03	2.54E-03	4.13E-04	2.16E-04
221	599526.7	4176510	5.10E-03	5.10E-03	8.30E-04	4.33E-04
222	599536	4176511	5.03E-03	5.03E-03	8.19E-04	4.27E-04
223	599545.3	4176513	4.90E-03	4.90E-03	7.97E-04	4.16E-04
224	599554.6	4176514	4.45E-03	4.45E-03	7.25E-04	3.78E-04
225	599563.9	4176516	3.95E-03	3.95E-03	6.42E-04	3.35E-04
226	599573.2	4176517	3.42E-03	3.42E-03	5.57E-04	2.91E-04
227	599582.5	4176519	2.95E-03	2.95E-03	4.79E-04	2.50E-04
228	599591.8	4176520	2.53E-03	2.53E-03	4.11E-04	2.15E-04
229	599601.1	4176522	2.19E-03	2.19E-03	3.57E-04	1.86E-04
230	599610.4	4176523	1.99E-03	1.99E-03	3.24E-04	1.69E-04
231	599619.7	4176525	1.84E-03	1.84E-03	2.99E-04	1.56E-04
232	599628.9	4176526	1.72E-03	1.72E-03	2.79E-04	1.46E-04

233	599523.6	4176530	4.71E-03	4.71E-03	7.66E-04	4.00E-04
234	599532.9	4176531	4.68E-03	4.68E-03	7.61E-04	3.97E-04
235	599542.2	4176533	4.66E-03	4.66E-03	7.59E-04	3.96E-04
236	599551.5	4176534	4.44E-03	4.44E-03	7.22E-04	3.77E-04
237	599560.8	4176536	4.18E-03	4.18E-03	6.79E-04	3.55E-04
238	599570	4176537	3.93E-03	3.93E-03	6.39E-04	3.34E-04
239	599579.3	4176539	3.54E-03	3.54E-03	5.76E-04	3.01E-04
240	599588.6	4176540	3.05E-03	3.05E-03	4.96E-04	2.59E-04
241	599597.9	4176541	2.61E-03	2.61E-03	4.24E-04	2.21E-04
242	599607.2	4176543	2.26E-03	2.26E-03	3.67E-04	1.92E-04
243	599616.5	4176544	1.99E-03	1.99E-03	3.23E-04	1.69E-04
244	599625.8	4176546	1.78E-03	1.78E-03	2.90E-04	1.51E-04
245	599635.1	4176547	1.63E-03	1.63E-03	2.66E-04	1.39E-04
246	599515.6	4176549	4.34E-03	4.34E-03	7.07E-04	3.69E-04
247	599529.7	4176551	4.38E-03	4.38E-03	7.12E-04	3.72E-04
248	599539	4176552	4.42E-03	4.42E-03	7.19E-04	3.75E-04
249	599548.3	4176554	4.42E-03	4.42E-03	7.19E-04	3.75E-04
250	599557.6	4176555	4.40E-03	4.40E-03	7.16E-04	3.74E-04
251	599566.9	4176557	4.39E-03	4.39E-03	7.14E-04	3.73E-04
252	599576.2	4176558	4.28E-03	4.28E-03	6.96E-04	3.63E-04
253	599585.5	4176560	3.87E-03	3.87E-03	6.30E-04	3.29E-04
254	599594.8	4176561	3.43E-03	3.43E-03	5.58E-04	2.91E-04
255	599604.1	4176563	3.01E-03	3.01E-03	4.90E-04	2.56E-04
256	599613.3	4176564	2.53E-03	2.53E-03	4.12E-04	2.15E-04
257	599622.6	4176566	2.15E-03	2.15E-03	3.50E-04	1.83E-04
258	599631.9	4176567	1.87E-03	1.87E-03	3.05E-04	1.59E-04
259	599641.2	4176569	1.72E-03	1.72E-03	2.80E-04	1.46E-04
260	599512.2	4176568	4.04E-03	4.04E-03	6.57E-04	3.43E-04
261	599526.6	4176571	4.06E-03	4.06E-03	6.60E-04	3.45E-04
262	599535.9	4176572	4.08E-03	4.08E-03	6.63E-04	3.46E-04
263	599545.1	4176574	4.09E-03	4.09E-03	6.66E-04	3.47E-04
264	599554.4	4176575	4.11E-03	4.11E-03	6.68E-04	3.49E-04
265	599563.7	4176577	4.13E-03	4.13E-03	6.72E-04	3.51E-04
266	599573	4176578	4.17E-03	4.17E-03	6.78E-04	3.54E-04
267	599582.3	4176579	4.04E-03	4.04E-03	6.57E-04	3.43E-04
268	599591.6	4176581	3.91E-03	3.91E-03	6.35E-04	3.32E-04
269	599600.9	4176582	3.78E-03	3.78E-03	6.15E-04	3.21E-04
270	599610.2	4176584	3.46E-03	3.46E-03	5.63E-04	2.94E-04
271	599619.5	4176585	3.02E-03	3.02E-03	4.92E-04	2.57E-04
272	599628.8	4176587	2.60E-03	2.60E-03	4.23E-04	2.21E-04
273	599638.1	4176588	2.27E-03	2.27E-03	3.70E-04	1.93E-04
274	599508.8	4176588	3.80E-03	3.80E-03	6.18E-04	3.23E-04
275	599523.4	4176590	3.76E-03	3.76E-03	6.11E-04	3.19E-04
276	599532.7	4176592	3.74E-03	3.74E-03	6.09E-04	3.18E-04
277	599542	4176593	3.73E-03	3.73E-03	6.06E-04	3.16E-04
278	599551.3	4176595	3.76E-03	3.76E-03	6.12E-04	3.19E-04
279	599560.6	4176596	3.81E-03	3.81E-03	6.20E-04	3.24E-04

280	599569.9	4176598	3.86E-03	3.86E-03	6.29E-04	3.28E-04
281	599579.2	4176599	3.87E-03	3.87E-03	6.29E-04	3.29E-04
282	599588.5	4176601	3.85E-03	3.85E-03	6.26E-04	3.27E-04
283	599597.7	4176602	3.84E-03	3.84E-03	6.25E-04	3.26E-04
284	599607	4176604	3.78E-03	3.78E-03	6.14E-04	3.21E-04
285	599616.3	4176605	3.58E-03	3.58E-03	5.82E-04	3.04E-04
286	599625.6	4176607	3.37E-03	3.37E-03	5.48E-04	2.86E-04
287	599634.9	4176608	3.15E-03	3.15E-03	5.12E-04	2.67E-04
288	599520.3	4176610	3.44E-03	3.44E-03	5.60E-04	2.92E-04
289	599529.5	4176612	3.40E-03	3.40E-03	5.53E-04	2.89E-04
290	599538.8	4176613	3.36E-03	3.36E-03	5.46E-04	2.85E-04
291	599548.1	4176615	3.37E-03	3.37E-03	5.49E-04	2.86E-04
292	599557.4	4176616	3.45E-03	3.45E-03	5.61E-04	2.93E-04
293	599566.7	4176618	3.51E-03	3.51E-03	5.71E-04	2.98E-04
294	599576	4176619	3.56E-03	3.56E-03	5.79E-04	3.02E-04
295	599585.3	4176620	3.60E-03	3.60E-03	5.86E-04	3.06E-04
296	599594.6	4176622	3.65E-03	3.65E-03	5.94E-04	3.10E-04
297	599603.9	4176623	3.70E-03	3.70E-03	6.03E-04	3.15E-04
298	599613.2	4176625	3.64E-03	3.64E-03	5.92E-04	3.09E-04
299	599622.5	4176626	3.59E-03	3.59E-03	5.83E-04	3.04E-04
300	599631.8	4176628	3.54E-03	3.54E-03	5.76E-04	3.01E-04
301	599526.4	4176631	3.12E-03	3.12E-03	5.07E-04	2.65E-04
302	599535.7	4176633	3.00E-03	3.00E-03	4.88E-04	2.55E-04
303	599545	4176634	2.90E-03	2.90E-03	4.71E-04	2.46E-04
304	599554.3	4176636	2.95E-03	2.95E-03	4.79E-04	2.50E-04
305	599563.6	4176637	2.99E-03	2.99E-03	4.86E-04	2.54E-04
306	599572.8	4176639	3.03E-03	3.03E-03	4.93E-04	2.57E-04
307	599582.1	4176640	3.15E-03	3.15E-03	5.12E-04	2.67E-04
308	599591.4	4176642	3.27E-03	3.27E-03	5.32E-04	2.78E-04
309	599600.7	4176643	3.39E-03	3.39E-03	5.52E-04	2.88E-04
310	599610	4176645	3.45E-03	3.45E-03	5.61E-04	2.93E-04
311	599619.3	4176646	3.48E-03	3.48E-03	5.67E-04	2.96E-04
312	599628.6	4176648	3.51E-03	3.51E-03	5.71E-04	2.98E-04
313	599532.5	4176653	2.76E-03	2.76E-03	4.50E-04	2.35E-04
314	599541.8	4176654	2.61E-03	2.61E-03	4.24E-04	2.22E-04
315	599551.1	4176656	2.59E-03	2.59E-03	4.21E-04	2.20E-04
316	599560.4	4176657	2.59E-03	2.59E-03	4.22E-04	2.20E-04
317	599569.7	4176658	2.58E-03	2.58E-03	4.20E-04	2.19E-04
318	599579	4176660	2.66E-03	2.66E-03	4.33E-04	2.26E-04
319	599588.3	4176661	2.80E-03	2.80E-03	4.55E-04	2.37E-04
320	599597.6	4176663	2.92E-03	2.92E-03	4.75E-04	2.48E-04
321	599606.9	4176664	3.02E-03	3.02E-03	4.92E-04	2.57E-04
322	599616.2	4176666	3.11E-03	3.11E-03	5.07E-04	2.64E-04
323	599625.4	4176667	3.20E-03	3.20E-03	5.21E-04	2.72E-04
324	599548	4176675	2.43E-03	2.43E-03	3.95E-04	2.06E-04
325	599557.2	4176677	2.36E-03	2.36E-03	3.84E-04	2.01E-04
326	599566.5	4176678	2.31E-03	2.31E-03	3.76E-04	1.96E-04

327	599575.8	4176680	0.002310719	2.31E-03	3.76E-04	1.96E-04
328	599585.1	4176681	0.002444878	2.44E-03	3.98E-04	2.08E-04
329	599594.4	4176683	0.002561598	2.56E-03	4.17E-04	2.18E-04
330	599603.7	4176684	0.002661561	2.66E-03	4.33E-04	2.26E-04
331	599613	4176686	0.002767649	2.77E-03	4.50E-04	2.35E-04
332	599622.3	4176687	0.002854473	2.85E-03	4.64E-04	2.42E-04
333	599563.4	4176698	0.002440933	2.44E-03	3.97E-04	2.07E-04
334	599572.7	4176699	0.002423687	2.42E-03	3.94E-04	2.06E-04
335	599582	4176701	0.002462317	2.46E-03	4.01E-04	2.09E-04
336	599591.3	4176702	0.002498322	2.50E-03	4.06E-04	2.12E-04
337	599600.5	4176704	0.002523072	2.52E-03	4.10E-04	2.14E-04
338	599609.8	4176705	0.002537857	2.54E-03	4.13E-04	2.15E-04
339	599619.1	4176707	0.002545063	2.55E-03	4.14E-04	2.16E-04
340	599597.4	4176724	0.002413203	2.41E-03	3.93E-04	2.05E-04
341	599606.7	4176725	0.002398596	2.40E-03	3.90E-04	2.04E-04
342	599616	4176727	0.002364385	2.36E-03	3.85E-04	2.01E-04
343	599706.8	4176314	0.004703532	4.70E-03	7.65E-04	3.99E-04
344	599698.1	4176317	0.004744	4.74E-03	7.72E-04	4.03E-04
345	599689.4	4176319	0.004760772	4.76E-03	7.74E-04	4.04E-04
346	599705.1	4176324	0.004450117	4.45E-03	7.24E-04	3.78E-04
347	599696.5	4176327	0.004463285	4.46E-03	7.26E-04	3.79E-04
348	599687.8	4176329	0.004520629	4.52E-03	7.35E-04	3.84E-04
349	599694.8	4176336	0.004320525	4.32E-03	7.03E-04	3.67E-04
350	599701.8	4176344	0.004159273	4.16E-03	6.77E-04	3.53E-04
351	599684.6	4176349	0.004178981	4.18E-03	6.80E-04	3.55E-04
352	599700.2	4176354	0.004099972	4.10E-03	6.67E-04	3.48E-04
353	599707.2	4176361	0.003999756	4.00E-03	6.51E-04	3.40E-04
354	599690	4176366	0.00415862	4.16E-03	6.77E-04	3.53E-04
355	599707.1	4176371	0.003986899	3.99E-03	6.49E-04	3.39E-04
356	599698.1	4176373	0.00412527	4.13E-03	6.71E-04	3.50E-04
357	599689.1	4176376	0.004211501	4.21E-03	6.85E-04	3.58E-04
358	599680.2	4176378	0.004168423	4.17E-03	6.78E-04	3.54E-04
359	599705.4	4176380	0.003926723	3.93E-03	6.39E-04	3.33E-04
360	599696.4	4176383	0.004023542	4.02E-03	6.55E-04	3.42E-04
361	599687.5	4176386	0.004058464	4.06E-03	6.60E-04	3.45E-04
362	599678.6	4176388	0.004076023	4.08E-03	6.63E-04	3.46E-04
363	599712.6	4176388	0.003661252	3.66E-03	5.96E-04	3.11E-04
364	599703.7	4176390	0.003755387	3.76E-03	6.11E-04	3.19E-04
365	599694.8	4176393	0.003861341	3.86E-03	6.28E-04	3.28E-04
366	599685.9	4176396	0.003932877	3.93E-03	6.40E-04	3.34E-04
367	599677	4176398	0.004025307	4.03E-03	6.55E-04	3.42E-04
368	599702	4176400	0.003596745	3.60E-03	5.85E-04	3.05E-04
369	599693.1	4176403	0.003710633	3.71E-03	6.04E-04	3.15E-04
370	599684.2	4176405	0.003839572	3.84E-03	6.25E-04	3.26E-04
371	599675.3	4176408	0.003945926	3.95E-03	6.42E-04	3.35E-04
372	599691.5	4176413	0.003409453	3.41E-03	5.55E-04	2.90E-04
373	599682.6	4176415	0.003501497	3.50E-03	5.70E-04	2.97E-04

374	599673.7	4176418	0.003642078	3.64E-03	5.93E-04	3.09E-04
375	599681	4176425	0.003208281	3.21E-03	5.22E-04	2.72E-04
376	599672.1	4176428	0.003388544	3.39E-03	5.51E-04	2.88E-04
377	599646.9	4176586	0.001931701	1.93E-03	3.14E-04	1.64E-04
378	599661.9	4176600	0.001898736	1.90E-03	3.09E-04	1.61E-04
379	599652.9	4176603	0.002232569	2.23E-03	3.63E-04	1.90E-04
380	599643.9	4176606	0.002667819	2.67E-03	4.34E-04	2.27E-04
381	599667.6	4176617	0.002242609	2.24E-03	3.65E-04	1.90E-04
382	599658.6	4176620	0.002615087	2.62E-03	4.25E-04	2.22E-04
383	599649.7	4176623	0.003014331	3.01E-03	4.90E-04	2.56E-04
384	599640.7	4176625	0.003342974	3.34E-03	5.44E-04	2.84E-04
385	599932.1	4176559	0.001919452	1.92E-03	3.12E-04	1.63E-04
386	599923.2	4176562	0.001922225	1.92E-03	3.13E-04	1.63E-04
387	599914.3	4176564	0.00192832	1.93E-03	3.14E-04	1.64E-04
388	599905.3	4176567	0.001938285	1.94E-03	3.15E-04	1.65E-04
389	599798.2	4176598	0.001712853	1.71E-03	2.79E-04	1.45E-04
390	599789.3	4176601	0.001680866	1.68E-03	2.73E-04	1.43E-04
391	599691.1	4176629	0.002161657	2.16E-03	3.52E-04	1.84E-04
392	599682.2	4176632	0.002460938	2.46E-03	4.00E-04	2.09E-04
393	599673.2	4176635	0.002785918	2.79E-03	4.53E-04	2.37E-04
394	599664.3	4176637	0.003097018	3.10E-03	5.04E-04	2.63E-04
395	599655.4	4176640	0.003317513	3.32E-03	5.40E-04	2.82E-04
396	599646.5	4176642	0.003461592	3.46E-03	5.63E-04	2.94E-04
397	599637.5	4176645	0.003544131	3.54E-03	5.77E-04	3.01E-04
398	599945.8	4176574	0.001956243	1.96E-03	3.18E-04	1.66E-04
399	599936.9	4176576	0.001965067	1.97E-03	3.20E-04	1.67E-04
400	599928	4176579	0.001977227	1.98E-03	3.22E-04	1.68E-04
401	599919.1	4176582	0.001996415	2.00E-03	3.25E-04	1.70E-04
402	599910.2	4176584	0.002020869	2.02E-03	3.29E-04	1.72E-04
403	599901.3	4176587	0.002043884	2.04E-03	3.33E-04	1.74E-04
404	599892.4	4176589	0.002050779	2.05E-03	3.34E-04	1.74E-04
405	599883.5	4176592	0.002057348	2.06E-03	3.35E-04	1.75E-04
406	599874.6	4176595	0.002063384	2.06E-03	3.36E-04	1.75E-04
407	599830.1	4176608	0.001910273	1.91E-03	3.11E-04	1.62E-04
408	599821.2	4176610	0.001889112	1.89E-03	3.07E-04	1.60E-04
409	599812.3	4176613	0.001869864	1.87E-03	3.04E-04	1.59E-04
410	599803.4	4176615	0.001851817	1.85E-03	3.01E-04	1.57E-04
411	599794.5	4176618	0.001832835	1.83E-03	2.98E-04	1.56E-04
412	599785.6	4176621	0.001808041	1.81E-03	2.94E-04	1.54E-04
413	599776.7	4176623	0.001798951	1.80E-03	2.93E-04	1.53E-04
414	599767.8	4176626	0.001796904	1.80E-03	2.92E-04	1.53E-04
415	599758.9	4176628	0.001799084	1.80E-03	2.93E-04	1.53E-04
416	599750	4176631	0.001822173	1.82E-03	2.96E-04	1.55E-04
417	599741.1	4176634	0.00188232	1.88E-03	3.06E-04	1.60E-04
418	599714.4	4176641	0.002274951	2.27E-03	3.70E-04	1.93E-04
419	599705.5	4176644	0.002503408	2.50E-03	4.07E-04	2.13E-04
420	599696.6	4176647	0.002737634	2.74E-03	4.45E-04	2.32E-04

421	599687.7	4176649	0.00294631	2.95E-03	4.79E-04	2.50E-04
422	599678.8	4176652	0.003129123	3.13E-03	5.09E-04	2.66E-04
423	599669.9	4176654	0.00326435	3.26E-03	5.31E-04	2.77E-04
424	599661	4176657	0.003341832	3.34E-03	5.44E-04	2.84E-04
425	599652.1	4176660	0.00335331	3.35E-03	5.46E-04	2.85E-04
426	599643.2	4176662	0.00334634	3.35E-03	5.44E-04	2.84E-04
427	599634.3	4176665	0.003323889	3.32E-03	5.41E-04	2.82E-04
428	600237	4176084	0.002922761	2.92E-03	4.75E-04	2.48E-04
429	600236.6	4176075	0.002948134	2.95E-03	4.80E-04	2.50E-04
430	600012.7	4176573	0.001809999	1.81E-03	2.94E-04	1.54E-04
431	599959.4	4176589	0.002031293	2.03E-03	3.30E-04	1.72E-04
432	599950.6	4176591	0.002034482	2.03E-03	3.31E-04	1.73E-04
433	599941.7	4176594	0.002046315	2.05E-03	3.33E-04	1.74E-04
434	599932.8	4176596	0.00206715	2.07E-03	3.36E-04	1.76E-04
435	599923.9	4176599	0.002101035	2.10E-03	3.42E-04	1.78E-04
436	599915.1	4176602	0.002136684	2.14E-03	3.48E-04	1.81E-04
437	599906.2	4176604	0.00217306	2.17E-03	3.54E-04	1.85E-04
438	599897.3	4176607	0.002191789	2.19E-03	3.57E-04	1.86E-04
439	599888.5	4176609	0.002201591	2.20E-03	3.58E-04	1.87E-04
440	599879.6	4176612	0.002210548	2.21E-03	3.60E-04	1.88E-04
441	599870.7	4176615	0.002198981	2.20E-03	3.58E-04	1.87E-04
442	599861.8	4176617	0.002148963	2.15E-03	3.50E-04	1.82E-04
443	599853	4176620	0.00210753	2.11E-03	3.43E-04	1.79E-04
444	599844.1	4176622	0.002072059	2.07E-03	3.37E-04	1.76E-04
445	599835.2	4176625	0.002076656	2.08E-03	3.38E-04	1.76E-04
446	599826.3	4176627	0.002076849	2.08E-03	3.38E-04	1.76E-04
447	599817.5	4176630	0.002070813	2.07E-03	3.37E-04	1.76E-04
448	599808.6	4176633	0.002056681	2.06E-03	3.35E-04	1.75E-04
449	599799.7	4176635	0.002035846	2.04E-03	3.31E-04	1.73E-04
450	599790.9	4176638	0.002009791	2.01E-03	3.27E-04	1.71E-04
451	599782	4176640	0.001990499	1.99E-03	3.24E-04	1.69E-04
452	599773.1	4176643	0.002013395	2.01E-03	3.28E-04	1.71E-04
453	599764.2	4176646	0.002044981	2.04E-03	3.33E-04	1.74E-04
454	599755.4	4176648	0.002088282	2.09E-03	3.40E-04	1.77E-04
455	599746.5	4176651	0.002188794	2.19E-03	3.56E-04	1.86E-04
456	599737.6	4176653	0.002303082	2.30E-03	3.75E-04	1.96E-04
457	599728.8	4176656	0.002417162	2.42E-03	3.93E-04	2.05E-04
458	599719.9	4176659	0.002557268	2.56E-03	4.16E-04	2.17E-04
459	599711	4176661	0.002739533	2.74E-03	4.46E-04	2.33E-04
460	599702.1	4176664	0.002916029	2.92E-03	4.74E-04	2.48E-04
461	599693.3	4176666	0.003070845	3.07E-03	5.00E-04	2.61E-04
462	599684.4	4176669	0.003162682	3.16E-03	5.15E-04	2.69E-04
463	599675.5	4176672	0.003222695	3.22E-03	5.24E-04	2.74E-04
464	599666.6	4176674	0.003257514	3.26E-03	5.30E-04	2.77E-04
465	599657.8	4176677	0.003236041	3.24E-03	5.26E-04	2.75E-04
466	599648.9	4176679	0.003174426	3.17E-03	5.16E-04	2.70E-04
467	599640	4176682	0.00309994	3.10E-03	5.04E-04	2.63E-04

468	599631.2	4176685	0.002995973	3.00E-03	4.87E-04	2.54E-04
469	600258.2	4176111	0.002421388	2.42E-03	3.94E-04	2.06E-04
470	600257.8	4176102	0.002511624	2.51E-03	4.09E-04	2.13E-04
471	600257.4	4176093	0.002587534	2.59E-03	4.21E-04	2.20E-04
472	600257	4176083	0.002663163	2.66E-03	4.33E-04	2.26E-04
473	600256.6	4176074	0.002695312	2.70E-03	4.38E-04	2.29E-04
474	600275	4176128	0.002100709	2.10E-03	3.42E-04	1.78E-04
475	600271.4	4176137	0.002065534	2.07E-03	3.36E-04	1.75E-04
476	600026.1	4176588	0.001804808	1.80E-03	2.94E-04	1.53E-04
477	600017.3	4176590	0.001822144	1.82E-03	2.96E-04	1.55E-04
478	600008.4	4176593	0.00184025	1.84E-03	2.99E-04	1.56E-04
479	599999.6	4176596	0.001866171	1.87E-03	3.04E-04	1.58E-04
480	599990.7	4176598	0.001905127	1.91E-03	3.10E-04	1.62E-04
481	599981.9	4176601	0.001957637	1.96E-03	3.18E-04	1.66E-04
482	599973	4176603	0.002009821	2.01E-03	3.27E-04	1.71E-04
483	599964.2	4176606	0.002061367	2.06E-03	3.35E-04	1.75E-04
484	599955.4	4176609	0.002094392	2.09E-03	3.41E-04	1.78E-04
485	599946.5	4176611	0.002137737	2.14E-03	3.48E-04	1.82E-04
486	599937.7	4176614	0.00219262	2.19E-03	3.57E-04	1.86E-04
487	599928.8	4176616	0.002244136	2.24E-03	3.65E-04	1.91E-04
488	599920	4176619	0.002282914	2.28E-03	3.71E-04	1.94E-04
489	599911.1	4176622	0.002328944	2.33E-03	3.79E-04	1.98E-04
490	599902.3	4176624	0.002376694	2.38E-03	3.87E-04	2.02E-04
491	599893.4	4176627	0.002390425	2.39E-03	3.89E-04	2.03E-04
492	599884.6	4176629	0.00240257	2.40E-03	3.91E-04	2.04E-04
493	599875.7	4176632	0.002412194	2.41E-03	3.92E-04	2.05E-04
494	599866.9	4176634	0.002397603	2.40E-03	3.90E-04	2.04E-04
495	599858	4176637	0.002381513	2.38E-03	3.87E-04	2.02E-04
496	599849.2	4176640	0.002372408	2.37E-03	3.86E-04	2.01E-04
497	599840.3	4176642	0.002371414	2.37E-03	3.86E-04	2.01E-04
498	599831.5	4176645	0.002370747	2.37E-03	3.86E-04	2.01E-04
499	599822.6	4176647	0.002354732	2.35E-03	3.83E-04	2.00E-04
500	599813.8	4176650	0.002329937	2.33E-03	3.79E-04	1.98E-04
501	599804.9	4176653	0.002304624	2.30E-03	3.75E-04	1.96E-04
502	599796.1	4176655	0.002280719	2.28E-03	3.71E-04	1.94E-04
503	599787.2	4176658	0.002260641	2.26E-03	3.68E-04	1.92E-04
504	599778.4	4176660	0.002287749	2.29E-03	3.72E-04	1.94E-04
505	599769.5	4176663	0.002355206	2.36E-03	3.83E-04	2.00E-04
506	599760.7	4176666	0.002436099	2.44E-03	3.96E-04	2.07E-04
507	599751.8	4176668	0.00252844	2.53E-03	4.11E-04	2.15E-04
508	599743	4176671	0.002615087	2.62E-03	4.25E-04	2.22E-04
509	599734.2	4176673	0.002691827	2.69E-03	4.38E-04	2.29E-04
510	599725.3	4176676	0.002756156	2.76E-03	4.48E-04	2.34E-04
511	599716.5	4176678	0.002870266	2.87E-03	4.67E-04	2.44E-04
512	599707.6	4176681	0.002980061	2.98E-03	4.85E-04	2.53E-04
513	599698.8	4176684	0.003062452	3.06E-03	4.98E-04	2.60E-04
514	599689.9	4176686	0.003100755	3.10E-03	5.04E-04	2.63E-04

515	599681.1	4176689	0.003095283	3.10E-03	5.04E-04	2.63E-04
516	599672.2	4176691	0.003079816	3.08E-03	5.01E-04	2.62E-04
517	599663.4	4176694	0.003053272	3.05E-03	4.97E-04	2.59E-04
518	599654.5	4176697	0.002958648	2.96E-03	4.81E-04	2.51E-04
519	599645.7	4176699	0.002844879	2.84E-03	4.63E-04	2.42E-04
520	599636.8	4176702	0.002708777	2.71E-03	4.41E-04	2.30E-04
521	599628	4176704	0.002602852	2.60E-03	4.23E-04	2.21E-04
522	600278.6	4176120	0.002134845	2.13E-03	3.47E-04	1.81E-04
523	600278.2	4176110	0.002213855	2.21E-03	3.60E-04	1.88E-04
524	600277.8	4176101	0.002286088	2.29E-03	3.72E-04	1.94E-04
525	600277.4	4176092	0.002349378	2.35E-03	3.82E-04	1.99E-04
526	600277	4176082	0.002414508	2.41E-03	3.93E-04	2.05E-04
527	600276.6	4176073	0.002438738	2.44E-03	3.97E-04	2.07E-04
528	600294.9	4176128	0.001946263	1.95E-03	3.17E-04	1.65E-04
529	600291.2	4176136	0.00191401	1.91E-03	3.11E-04	1.63E-04
530	600287.6	4176145	0.001875662	1.88E-03	3.05E-04	1.59E-04
531	600283.9	4176154	0.001835638	1.84E-03	2.99E-04	1.56E-04
532	600280.3	4176162	0.001798195	1.80E-03	2.93E-04	1.53E-04
533	600276.6	4176171	0.001753455	1.75E-03	2.85E-04	1.49E-04
534	600273	4176179	0.001704474	1.70E-03	2.77E-04	1.45E-04
535	600269.3	4176188	0.001657896	1.66E-03	2.70E-04	1.41E-04
536	600265.7	4176197	0.001613453	1.61E-03	2.62E-04	1.37E-04
537	600262	4176205	0.001561477	1.56E-03	2.54E-04	1.33E-04
538	600020.5	4176608	0.001804111	1.80E-03	2.93E-04	1.53E-04
539	600011.5	4176611	0.001846152	1.85E-03	3.00E-04	1.57E-04
540	600002.5	4176614	0.001899329	1.90E-03	3.09E-04	1.61E-04
541	599993.5	4176616	0.001961641	1.96E-03	3.19E-04	1.67E-04
542	599984.5	4176619	0.001996757	2.00E-03	3.25E-04	1.70E-04
543	599975.5	4176622	0.002039568	2.04E-03	3.32E-04	1.73E-04
544	599966.5	4176624	0.002090447	2.09E-03	3.40E-04	1.78E-04
545	599957.5	4176627	0.00214874	2.15E-03	3.50E-04	1.82E-04
546	599948.6	4176629	0.002217206	2.22E-03	3.61E-04	1.88E-04
547	599939.6	4176632	0.002296023	2.30E-03	3.74E-04	1.95E-04
548	599930.6	4176635	0.002375062	2.38E-03	3.86E-04	2.02E-04
549	599921.6	4176637	0.002447962	2.45E-03	3.98E-04	2.08E-04
550	599912.6	4176640	0.002518504	2.52E-03	4.10E-04	2.14E-04
551	599903.6	4176643	0.002604306	2.60E-03	4.24E-04	2.21E-04
552	599894.6	4176645	0.002621092	2.62E-03	4.26E-04	2.23E-04
553	599885.6	4176648	0.002620099	2.62E-03	4.26E-04	2.22E-04
554	599876.6	4176650	0.002619328	2.62E-03	4.26E-04	2.22E-04
555	599867.7	4176653	0.002621433	2.62E-03	4.26E-04	2.23E-04
556	599858.7	4176656	0.002618675	2.62E-03	4.26E-04	2.22E-04
557	599849.7	4176658	0.002615279	2.62E-03	4.25E-04	2.22E-04
558	599840.7	4176661	0.002610475	2.61E-03	4.25E-04	2.22E-04
559	599831.7	4176664	0.002601607	2.60E-03	4.23E-04	2.21E-04
560	599822.7	4176666	0.002592027	2.59E-03	4.22E-04	2.20E-04
561	599813.7	4176669	0.00258184	2.58E-03	4.20E-04	2.19E-04

562	599804.7	4176671	0.002574618	2.57E-03	4.19E-04	2.19E-04
563	599795.7	4176674	0.002570555	2.57E-03	4.18E-04	2.18E-04
564	599786.8	4176677	0.002564623	2.56E-03	4.17E-04	2.18E-04
565	599777.8	4176679	0.002587905	2.59E-03	4.21E-04	2.20E-04
566	599768.8	4176682	0.002635269	2.64E-03	4.29E-04	2.24E-04
567	599759.8	4176685	0.002679341	2.68E-03	4.36E-04	2.28E-04
568	599750.8	4176687	0.002716992	2.72E-03	4.42E-04	2.31E-04
569	599741.8	4176690	0.002753828	2.75E-03	4.48E-04	2.34E-04
570	599732.8	4176692	0.002794771	2.79E-03	4.55E-04	2.37E-04
571	599723.8	4176695	0.002839422	2.84E-03	4.62E-04	2.41E-04
572	599714.9	4176698	0.002907146	2.91E-03	4.73E-04	2.47E-04
573	599705.9	4176700	0.00295537	2.96E-03	4.81E-04	2.51E-04
574	599696.9	4176703	0.0029858	2.99E-03	4.86E-04	2.54E-04
575	599687.9	4176706	0.0029745	2.97E-03	4.84E-04	2.53E-04
576	599678.9	4176708	0.002911877	2.91E-03	4.74E-04	2.47E-04
577	599669.9	4176711	0.002838636	2.84E-03	4.62E-04	2.41E-04
578	599660.9	4176714	0.002744041	2.74E-03	4.46E-04	2.33E-04
579	599651.9	4176716	0.002612995	2.61E-03	4.25E-04	2.22E-04
580	599642.9	4176719	0.002492375	2.49E-03	4.05E-04	2.12E-04
581	599634	4176721	0.002383441	2.38E-03	3.88E-04	2.02E-04
582	599625	4176724	0.002367084	2.37E-03	3.85E-04	2.01E-04
583	600298.5	4176119	0.001982802	1.98E-03	3.23E-04	1.68E-04
584	600298.1	4176110	0.002052084	2.05E-03	3.34E-04	1.74E-04
585	600297.7	4176100	0.002110407	2.11E-03	3.43E-04	1.79E-04
586	600297.3	4176091	0.00215918	2.16E-03	3.51E-04	1.83E-04
587	600296.9	4176082	0.002208324	2.21E-03	3.59E-04	1.88E-04
588	600296.5	4176072	0.00222296	2.22E-03	3.62E-04	1.89E-04
589	600314.9	4176127	0.001831516	1.83E-03	2.98E-04	1.56E-04
590	600311.2	4176135	0.001795599	1.80E-03	2.92E-04	1.52E-04
591	600307.6	4176144	0.001752417	1.75E-03	2.85E-04	1.49E-04
592	600304	4176153	0.001713654	1.71E-03	2.79E-04	1.46E-04
593	600300.3	4176161	0.00167879	1.68E-03	2.73E-04	1.43E-04
594	600296.7	4176170	0.001642919	1.64E-03	2.67E-04	1.40E-04
595	600293	4176178	0.001601709	1.60E-03	2.61E-04	1.36E-04
596	600289.4	4176187	0.00155602	1.56E-03	2.53E-04	1.32E-04
597	600285.8	4176196	0.001516456	1.52E-03	2.47E-04	1.29E-04
598	600282.1	4176204	0.001472517	1.47E-03	2.40E-04	1.25E-04
599	600278.5	4176213	0.001432716	1.43E-03	2.33E-04	1.22E-04
600	600274.8	4176221	0.001396681	1.40E-03	2.27E-04	1.19E-04
601	600087.8	4176608	0.001519822	1.52E-03	2.47E-04	1.29E-04
602	599989.2	4176636	0.00197257	1.97E-03	3.21E-04	1.67E-04
603	599980.2	4176639	0.002030345	2.03E-03	3.30E-04	1.72E-04
604	599971.3	4176642	0.002096987	2.10E-03	3.41E-04	1.78E-04
605	599962.3	4176644	0.002173579	2.17E-03	3.54E-04	1.85E-04
606	599953.4	4176647	0.002255065	2.26E-03	3.67E-04	1.91E-04
607	599944.4	4176649	0.002337085	2.34E-03	3.80E-04	1.98E-04
608	599935.4	4176652	0.002428937	2.43E-03	3.95E-04	2.06E-04

609	599926.5	4176655	0.002495949	2.50E-03	4.06E-04	2.12E-04
610	599917.5	4176657	0.002556215	2.56E-03	4.16E-04	2.17E-04
611	599908.5	4176660	0.002615398	2.62E-03	4.25E-04	2.22E-04
612	599899.6	4176663	0.002659144	2.66E-03	4.33E-04	2.26E-04
613	599890.6	4176665	0.002690211	2.69E-03	4.38E-04	2.28E-04
614	599881.7	4176668	0.002728663	2.73E-03	4.44E-04	2.32E-04
615	599872.7	4176670	0.002770496	2.77E-03	4.51E-04	2.35E-04
616	599863.7	4176673	0.002784213	2.78E-03	4.53E-04	2.36E-04
617	599854.8	4176676	0.002796106	2.80E-03	4.55E-04	2.37E-04
618	599845.8	4176678	0.002792962	2.79E-03	4.54E-04	2.37E-04
619	599836.9	4176681	0.002784376	2.78E-03	4.53E-04	2.36E-04
620	599827.9	4176684	0.002765424	2.77E-03	4.50E-04	2.35E-04
621	599818.9	4176686	0.002740837	2.74E-03	4.46E-04	2.33E-04
622	599810	4176689	0.002714501	2.71E-03	4.42E-04	2.30E-04
623	599801	4176691	0.002686667	2.69E-03	4.37E-04	2.28E-04
624	599792	4176694	0.002660953	2.66E-03	4.33E-04	2.26E-04
625	599783.1	4176697	0.002641601	2.64E-03	4.30E-04	2.24E-04
626	599774.1	4176699	0.002667048	2.67E-03	4.34E-04	2.26E-04
627	599765.2	4176702	0.002689024	2.69E-03	4.37E-04	2.28E-04
628	599756.2	4176704	0.002708139	2.71E-03	4.41E-04	2.30E-04
629	599747.2	4176707	0.002737872	2.74E-03	4.45E-04	2.32E-04
630	599738.3	4176710	0.002759834	2.76E-03	4.49E-04	2.34E-04
631	599729.3	4176712	0.002775419	2.78E-03	4.52E-04	2.36E-04
632	599720.4	4176715	0.002778044	2.78E-03	4.52E-04	2.36E-04
633	599711.4	4176718	0.002757757	2.76E-03	4.49E-04	2.34E-04
634	599702.4	4176720	0.00272328	2.72E-03	4.43E-04	2.31E-04
635	599693.5	4176723	0.002672727	2.67E-03	4.35E-04	2.27E-04
636	599684.5	4176725	0.002588587	2.59E-03	4.21E-04	2.20E-04
637	599675.5	4176728	0.002495712	2.50E-03	4.06E-04	2.12E-04
638	599666.6	4176731	0.002395319	2.40E-03	3.90E-04	2.03E-04
639	599657.6	4176733	0.002301866	2.30E-03	3.74E-04	1.95E-04
640	599648.7	4176736	0.002228803	2.23E-03	3.63E-04	1.89E-04
641	599639.7	4176739	0.002203015	2.20E-03	3.58E-04	1.87E-04
642	599630.7	4176741	0.002206396	2.21E-03	3.59E-04	1.87E-04
643	599621.8	4176744	0.002245441	2.25E-03	3.65E-04	1.91E-04
644	600318.5	4176118	0.001871806	1.87E-03	3.05E-04	1.59E-04
645	600318.1	4176109	0.0019422	1.94E-03	3.16E-04	1.65E-04
646	600317.7	4176099	0.00200033	2.00E-03	3.25E-04	1.70E-04
647	600317.3	4176090	0.002053315	2.05E-03	3.34E-04	1.74E-04
648	600316.9	4176081	0.002106566	2.11E-03	3.43E-04	1.79E-04
649	600316.5	4176071	0.002101391	2.10E-03	3.42E-04	1.78E-04
650	600334.9	4176126	0.001701716	1.70E-03	2.77E-04	1.44E-04
651	600331.2	4176134	0.001675335	1.68E-03	2.73E-04	1.42E-04
652	600327.6	4176143	0.001642059	1.64E-03	2.67E-04	1.39E-04
653	600324	4176152	0.001605609	1.61E-03	2.61E-04	1.36E-04
654	600320.3	4176160	0.001563968	1.56E-03	2.54E-04	1.33E-04
655	600316.7	4176169	0.001530217	1.53E-03	2.49E-04	1.30E-04

656	600313.1	4176177	0.00149792	1.50E-03	2.44E-04	1.27E-04
657	600309.5	4176186	0.001465266	1.47E-03	2.38E-04	1.24E-04
658	600305.8	4176194	0.001432508	1.43E-03	2.33E-04	1.22E-04
659	600302.2	4176203	0.001393582	1.39E-03	2.27E-04	1.18E-04
660	600298.6	4176212	0.001354522	1.35E-03	2.20E-04	1.15E-04
661	600101.2	4176622	0.001360409	1.36E-03	2.21E-04	1.16E-04
662	600092.2	4176625	0.001361329	1.36E-03	2.21E-04	1.16E-04
663	600083.3	4176628	0.00136425	1.36E-03	2.22E-04	1.16E-04
664	600074.3	4176630	0.001385974	1.39E-03	2.25E-04	1.18E-04
665	600065.4	4176633	0.001412044	1.41E-03	2.30E-04	1.20E-04
666	600056.5	4176635	0.00144449	1.44E-03	2.35E-04	1.23E-04
667	599949.2	4176667	0.002260389	2.26E-03	3.68E-04	1.92E-04
668	599940.3	4176669	0.002366743	2.37E-03	3.85E-04	2.01E-04
669	599931.4	4176672	0.002469539	2.47E-03	4.02E-04	2.10E-04
670	599922.4	4176675	0.002526734	2.53E-03	4.11E-04	2.15E-04
671	599913.5	4176677	0.002567485	2.57E-03	4.18E-04	2.18E-04
672	599904.6	4176680	0.002604128	2.60E-03	4.24E-04	2.21E-04
673	599895.6	4176683	0.002641201	2.64E-03	4.30E-04	2.24E-04
674	599886.7	4176685	0.002678377	2.68E-03	4.36E-04	2.27E-04
675	599877.7	4176688	0.00271416	2.71E-03	4.42E-04	2.30E-04
676	599868.8	4176690	0.002746057	2.75E-03	4.47E-04	2.33E-04
677	599859.9	4176693	0.002783768	2.78E-03	4.53E-04	2.36E-04
678	599850.9	4176696	0.002830079	2.83E-03	4.60E-04	2.40E-04
679	599842	4176698	0.00286908	2.87E-03	4.67E-04	2.44E-04
680	599833.1	4176701	0.002845472	2.85E-03	4.63E-04	2.42E-04
681	599824.1	4176703	0.002817623	2.82E-03	4.58E-04	2.39E-04
682	599815.2	4176706	0.002787015	2.79E-03	4.53E-04	2.37E-04
683	599806.3	4176709	0.002732845	2.73E-03	4.45E-04	2.32E-04
684	599797.3	4176711	0.002688313	2.69E-03	4.37E-04	2.28E-04
685	599788.4	4176714	0.002652752	2.65E-03	4.32E-04	2.25E-04
686	599779.5	4176716	0.002632659	2.63E-03	4.28E-04	2.24E-04
687	599770.5	4176719	0.002620247	2.62E-03	4.26E-04	2.22E-04
688	599761.6	4176722	0.002604766	2.60E-03	4.24E-04	2.21E-04
689	599752.6	4176724	0.002591138	2.59E-03	4.22E-04	2.20E-04
690	599743.7	4176727	0.00260002	2.60E-03	4.23E-04	2.21E-04
691	599734.8	4176730	0.002602704	2.60E-03	4.23E-04	2.21E-04
692	599725.8	4176732	0.002599738	2.60E-03	4.23E-04	2.21E-04
693	599716.9	4176735	0.002552537	2.55E-03	4.15E-04	2.17E-04
694	599708	4176737	0.002481446	2.48E-03	4.04E-04	2.11E-04
695	599699	4176740	0.002413678	2.41E-03	3.93E-04	2.05E-04
696	599690.1	4176743	0.002346131	2.35E-03	3.82E-04	1.99E-04
697	599681.2	4176745	0.002274536	2.27E-03	3.70E-04	1.93E-04
698	599672.2	4176748	0.002203727	2.20E-03	3.59E-04	1.87E-04
699	599663.3	4176750	0.002134356	2.13E-03	3.47E-04	1.81E-04
700	599654.3	4176753	0.002131316	2.13E-03	3.47E-04	1.81E-04
701	599645.4	4176756	0.002138686	2.14E-03	3.48E-04	1.82E-04
702	599636.5	4176758	0.002155487	2.16E-03	3.51E-04	1.83E-04

703	600338.5	4176117	0.001730233	1.73E-03	2.81E-04	1.47E-04
704	600338.1	4176108	0.001797157	1.80E-03	2.92E-04	1.53E-04
705	600337.7	4176099	0.001854234	1.85E-03	3.02E-04	1.57E-04
706	600337.3	4176089	0.001910051	1.91E-03	3.11E-04	1.62E-04
707	600336.9	4176080	0.001965956	1.97E-03	3.20E-04	1.67E-04
708	600336.5	4176070	0.001954657	1.95E-03	3.18E-04	1.66E-04
709	600354.9	4176125	0.001566697	1.57E-03	2.55E-04	1.33E-04
710	600351.2	4176134	0.001541013	1.54E-03	2.51E-04	1.31E-04
711	600347.6	4176142	0.001518428	1.52E-03	2.47E-04	1.29E-04
712	600344	4176151	0.001494568	1.49E-03	2.43E-04	1.27E-04
713	600340.4	4176159	0.001468113	1.47E-03	2.39E-04	1.25E-04
714	600336.8	4176168	0.0014393	1.44E-03	2.34E-04	1.22E-04
715	600333.1	4176176	0.001409434	1.41E-03	2.29E-04	1.20E-04
716	600329.5	4176185	0.001381081	1.38E-03	2.25E-04	1.17E-04
717	600325.9	4176193	0.001353247	1.35E-03	2.20E-04	1.15E-04
718	600322.3	4176202	0.001322447	1.32E-03	2.15E-04	1.12E-04
719	600105.6	4176640	0.0012202	1.22E-03	1.99E-04	1.04E-04
720	600096.7	4176643	0.001225494	1.23E-03	1.99E-04	1.04E-04
721	600087.8	4176645	0.001232286	1.23E-03	2.00E-04	1.05E-04
722	600078.9	4176648	0.00124882	1.25E-03	2.03E-04	1.06E-04
723	600070	4176650	0.001277321	1.28E-03	2.08E-04	1.08E-04
724	600061	4176653	0.001311043	1.31E-03	2.13E-04	1.11E-04
725	600052.1	4176656	0.001352728	1.35E-03	2.20E-04	1.15E-04
726	600043.2	4176658	0.001405297	1.41E-03	2.29E-04	1.19E-04
727	600034.3	4176661	0.001459052	1.46E-03	2.37E-04	1.24E-04
728	600025.4	4176663	0.001512956	1.51E-03	2.46E-04	1.28E-04
729	600016.5	4176666	0.001549169	1.55E-03	2.52E-04	1.32E-04
730	599918.4	4176695	0.0023024	2.30E-03	3.75E-04	1.95E-04
731	599909.5	4176697	0.002387459	2.39E-03	3.88E-04	2.03E-04
732	599900.6	4176700	0.002468916	2.47E-03	4.02E-04	2.10E-04
733	599891.7	4176702	0.002518282	2.52E-03	4.10E-04	2.14E-04
734	599882.8	4176705	0.002567322	2.57E-03	4.18E-04	2.18E-04
735	599873.9	4176708	0.002598419	2.60E-03	4.23E-04	2.21E-04
736	599865	4176710	0.002649016	2.65E-03	4.31E-04	2.25E-04
737	599856.1	4176713	0.002690582	2.69E-03	4.38E-04	2.28E-04
738	599847.1	4176716	0.002721619	2.72E-03	4.43E-04	2.31E-04
739	599838.2	4176718	0.002705292	2.71E-03	4.40E-04	2.30E-04
740	599829.3	4176721	0.002666959	2.67E-03	4.34E-04	2.26E-04
741	599820.4	4176723	0.002639629	2.64E-03	4.29E-04	2.24E-04
742	599811.5	4176726	0.002618675	2.62E-03	4.26E-04	2.22E-04
743	599802.6	4176729	0.002592828	2.59E-03	4.22E-04	2.20E-04
744	599793.7	4176731	0.00257619	2.58E-03	4.19E-04	2.19E-04
745	599784.8	4176734	0.002568538	2.57E-03	4.18E-04	2.18E-04
746	599775.8	4176736	0.002541771	2.54E-03	4.14E-04	2.16E-04
747	599766.9	4176739	0.002500354	2.50E-03	4.07E-04	2.12E-04
748	599758	4176742	0.002466395	2.47E-03	4.01E-04	2.09E-04
749	599749.1	4176744	0.002445189	2.45E-03	3.98E-04	2.08E-04

750	599740.2	4176747	0.002427988	2.43E-03	3.95E-04	2.06E-04
751	599731.3	4176749	0.00240567	2.41E-03	3.91E-04	2.04E-04
752	599722.4	4176752	0.002374039	2.37E-03	3.86E-04	2.02E-04
753	599713.5	4176755	0.00231889	2.32E-03	3.77E-04	1.97E-04
754	599704.5	4176757	0.002267848	2.27E-03	3.69E-04	1.93E-04
755	599695.6	4176760	0.002221418	2.22E-03	3.61E-04	1.89E-04
756	599686.7	4176762	0.002159269	2.16E-03	3.51E-04	1.83E-04
757	599677.8	4176765	0.0020911	2.09E-03	3.40E-04	1.78E-04
758	599668.9	4176768	0.002038278	2.04E-03	3.32E-04	1.73E-04
759	599660	4176770	0.002035979	2.04E-03	3.31E-04	1.73E-04
760	600358.5	4176116	0.001591239	1.59E-03	2.59E-04	1.35E-04
761	600358.1	4176107	0.001653403	1.65E-03	2.69E-04	1.40E-04
762	600357.7	4176098	0.001706417	1.71E-03	2.78E-04	1.45E-04
763	600357.3	4176088	0.00176041	1.76E-03	2.86E-04	1.49E-04
764	600356.9	4176079	0.001816242	1.82E-03	2.95E-04	1.54E-04
765	600356.5	4176070	0.001806929	1.81E-03	2.94E-04	1.53E-04
766	600374.9	4176124	0.001452305	1.45E-03	2.36E-04	1.23E-04
767	600371.2	4176133	0.001435949	1.44E-03	2.34E-04	1.22E-04
768	600367.6	4176141	0.001417412	1.42E-03	2.31E-04	1.20E-04
769	600364	4176150	0.00139852	1.40E-03	2.28E-04	1.19E-04
770	600360.4	4176158	0.001379198	1.38E-03	2.24E-04	1.17E-04
771	600356.8	4176167	0.001357399	1.36E-03	2.21E-04	1.15E-04
772	600353.2	4176175	0.001329668	1.33E-03	2.16E-04	1.13E-04
773	600349.6	4176184	0.001300603	1.30E-03	2.12E-04	1.10E-04
774	600346	4176192	0.001274445	1.27E-03	2.07E-04	1.08E-04
775	600092.3	4176663	0.001108047	1.11E-03	1.80E-04	9.41E-05
776	600083.4	4176665	0.001112525	1.11E-03	1.81E-04	9.45E-05
777	600074.5	4176668	0.001142184	1.14E-03	1.86E-04	9.70E-05
778	600065.7	4176670	0.001177151	1.18E-03	1.92E-04	1.00E-04
779	600056.8	4176673	0.001218598	1.22E-03	1.98E-04	1.03E-04
780	600047.9	4176676	0.001255271	1.26E-03	2.04E-04	1.07E-04
781	600039	4176678	0.001278315	1.28E-03	2.08E-04	1.09E-04
782	600030.1	4176681	0.001303554	1.30E-03	2.12E-04	1.11E-04
783	600021.2	4176683	0.001332516	1.33E-03	2.17E-04	1.13E-04
784	600012.3	4176686	0.001365659	1.37E-03	2.22E-04	1.16E-04
785	600003.4	4176689	0.001403666	1.40E-03	2.28E-04	1.19E-04
786	599994.5	4176691	0.001447782	1.45E-03	2.36E-04	1.23E-04
787	599985.6	4176694	0.001495191	1.50E-03	2.43E-04	1.27E-04
788	599976.8	4176696	0.00154435	1.54E-03	2.51E-04	1.31E-04
789	599879	4176725	0.002312246	2.31E-03	3.76E-04	1.96E-04
790	599870.1	4176728	0.002364118	2.36E-03	3.85E-04	2.01E-04
791	599861.2	4176730	0.002403638	2.40E-03	3.91E-04	2.04E-04
792	599852.3	4176733	0.002435788	2.44E-03	3.96E-04	2.07E-04
793	599843.4	4176735	0.002460063	2.46E-03	4.00E-04	2.09E-04
794	599834.5	4176738	0.002445249	2.45E-03	3.98E-04	2.08E-04
795	599825.6	4176741	0.002428284	2.43E-03	3.95E-04	2.06E-04
796	599816.7	4176743	0.002414033	2.41E-03	3.93E-04	2.05E-04

797	599807.8	4176746	0.00238955	2.39E-03	3.89E-04	2.03E-04
798	599798.9	4176748	0.002367544	2.37E-03	3.85E-04	2.01E-04
799	599790.1	4176751	0.002354717	2.35E-03	3.83E-04	2.00E-04
800	599781.2	4176754	0.002342157	2.34E-03	3.81E-04	1.99E-04
801	599772.3	4176756	0.002319038	2.32E-03	3.77E-04	1.97E-04
802	599763.4	4176759	0.002302756	2.30E-03	3.75E-04	1.96E-04
803	599754.5	4176761	0.002291218	2.29E-03	3.73E-04	1.95E-04
804	599745.6	4176764	0.002264304	2.26E-03	3.68E-04	1.92E-04
805	599736.7	4176767	0.002228491	2.23E-03	3.63E-04	1.89E-04
806	599727.8	4176769	0.002195052	2.20E-03	3.57E-04	1.86E-04
807	599718.9	4176772	0.002163065	2.16E-03	3.52E-04	1.84E-04
808	599710	4176774	0.002127104	2.13E-03	3.46E-04	1.81E-04
809	599701.1	4176777	0.002091322	2.09E-03	3.40E-04	1.78E-04
810	599692.3	4176780	0.002056325	2.06E-03	3.35E-04	1.75E-04
811	599683.4	4176782	0.002038412	2.04E-03	3.32E-04	1.73E-04
812	600378.5	4176116	0.001466408	1.47E-03	2.39E-04	1.25E-04
813	600378.1	4176106	0.001507618	1.51E-03	2.45E-04	1.28E-04
814	600377.7	4176097	0.001558556	1.56E-03	2.54E-04	1.32E-04
815	600377.3	4176087	0.001612964	1.61E-03	2.62E-04	1.37E-04
816	600376.9	4176078	0.00167366	1.67E-03	2.72E-04	1.42E-04
817	600376.5	4176069	0.001666512	1.67E-03	2.71E-04	1.42E-04
818	600394.8	4176123	0.001354151	1.35E-03	2.20E-04	1.15E-04
819	600391.2	4176132	0.001342036	1.34E-03	2.18E-04	1.14E-04
820	600387.6	4176140	0.001327622	1.33E-03	2.16E-04	1.13E-04
821	600384	4176149	0.001310213	1.31E-03	2.13E-04	1.11E-04
822	600380.4	4176157	0.001293337	1.29E-03	2.10E-04	1.10E-04
823	600376.8	4176166	0.001276209	1.28E-03	2.08E-04	1.08E-04
824	600373.2	4176174	0.00125407	1.25E-03	2.04E-04	1.06E-04
825	600369.6	4176183	0.001231322	1.23E-03	2.00E-04	1.05E-04
826	600061.4	4176691	0.001061543	1.06E-03	1.73E-04	9.01E-05
827	600052.6	4176693	0.001084587	1.08E-03	1.76E-04	9.21E-05
828	600043.7	4176696	0.001104058	1.10E-03	1.80E-04	9.37E-05
829	600034.8	4176698	0.001125723	1.13E-03	1.83E-04	9.56E-05
830	600025.9	4176701	0.001150429	1.15E-03	1.87E-04	9.77E-05
831	600017.1	4176703	0.001178307	1.18E-03	1.92E-04	1.00E-04
832	600008.2	4176706	0.001209463	1.21E-03	1.97E-04	1.03E-04
833	599999.3	4176709	0.001242443	1.24E-03	2.02E-04	1.05E-04
834	599990.5	4176711	0.001276654	1.28E-03	2.08E-04	1.08E-04
835	599981.6	4176714	0.001310984	1.31E-03	2.13E-04	1.11E-04
836	599972.7	4176716	0.001352995	1.35E-03	2.20E-04	1.15E-04
837	599963.9	4176719	0.001404852	1.40E-03	2.29E-04	1.19E-04
838	599955	4176722	0.001466719	1.47E-03	2.39E-04	1.25E-04
839	599946.1	4176724	0.001535333	1.54E-03	2.50E-04	1.30E-04
840	599857.4	4176750	0.002124495	2.12E-03	3.46E-04	1.80E-04
841	599848.5	4176753	0.002142527	2.14E-03	3.49E-04	1.82E-04
842	599839.7	4176755	0.002145819	2.15E-03	3.49E-04	1.82E-04
843	599830.8	4176758	0.00213274	2.13E-03	3.47E-04	1.81E-04

844	599821.9	4176761	0.002121736	2.12E-03	3.45E-04	1.80E-04
845	599813.1	4176763	0.002114025	2.11E-03	3.44E-04	1.80E-04
846	599804.2	4176766	0.002110229	2.11E-03	3.43E-04	1.79E-04
847	599795.3	4176768	0.002103007	2.10E-03	3.42E-04	1.79E-04
848	599786.5	4176771	0.002099448	2.10E-03	3.42E-04	1.78E-04
849	599777.6	4176774	0.002083907	2.08E-03	3.39E-04	1.77E-04
850	599768.7	4176776	0.002068396	2.07E-03	3.36E-04	1.76E-04
851	599759.9	4176779	0.002058208	2.06E-03	3.35E-04	1.75E-04
852	599751	4176781	0.002048703	2.05E-03	3.33E-04	1.74E-04
853	599742.1	4176784	0.002036499	2.04E-03	3.31E-04	1.73E-04
854	599733.2	4176786	0.002032005	2.03E-03	3.31E-04	1.73E-04
855	599724.4	4176789	0.002035905	2.04E-03	3.31E-04	1.73E-04
856	599715.5	4176792	0.002005506	2.01E-03	3.26E-04	1.70E-04
857	599706.6	4176794	0.001970746	1.97E-03	3.21E-04	1.67E-04
858	600398.4	4176115	0.001366192	1.37E-03	2.22E-04	1.16E-04
859	600398	4176105	0.001402405	1.40E-03	2.28E-04	1.19E-04
860	600397.6	4176096	0.00144581	1.45E-03	2.35E-04	1.23E-04
861	600397.3	4176087	0.001491973	1.49E-03	2.43E-04	1.27E-04
862	600396.9	4176077	0.001541161	1.54E-03	2.51E-04	1.31E-04
863	600396.5	4176068	0.001536594	1.54E-03	2.50E-04	1.30E-04
864	600414.8	4176123	0.001270189	1.27E-03	2.07E-04	1.08E-04
865	600411.1	4176131	0.00125969	1.26E-03	2.05E-04	1.07E-04
866	600407.5	4176140	0.001247055	1.25E-03	2.03E-04	1.06E-04
867	600403.8	4176148	0.001232389	1.23E-03	2.00E-04	1.05E-04
868	600400.2	4176157	0.001217308	1.22E-03	1.98E-04	1.03E-04
869	600396.5	4176166	0.001201856	1.20E-03	1.96E-04	1.02E-04
870	600392.9	4176174	0.001183957	1.18E-03	1.93E-04	1.01E-04
871	600028.4	4176719	0.001006912	1.01E-03	1.64E-04	8.55E-05
872	600019.4	4176722	0.001026961	1.03E-03	1.67E-04	8.72E-05
873	600010.4	4176724	0.001050807	1.05E-03	1.71E-04	8.92E-05
874	600001.4	4176727	0.001078018	1.08E-03	1.75E-04	9.15E-05
875	599992.4	4176730	0.001108566	1.11E-03	1.80E-04	9.41E-05
876	599983.5	4176732	0.00114337	1.14E-03	1.86E-04	9.71E-05
877	599974.5	4176735	0.001186033	1.19E-03	1.93E-04	1.01E-04
878	599965.5	4176737	0.001247115	1.25E-03	2.03E-04	1.06E-04
879	599956.5	4176740	0.001311636	1.31E-03	2.13E-04	1.11E-04
880	599947.5	4176743	0.001376647	1.38E-03	2.24E-04	1.17E-04
881	599938.5	4176745	0.001443141	1.44E-03	2.35E-04	1.23E-04
882	599929.5	4176748	0.001506639	1.51E-03	2.45E-04	1.28E-04
883	599920.6	4176751	0.001569544	1.57E-03	2.55E-04	1.33E-04
884	599911.6	4176753	0.00163497	1.63E-03	2.66E-04	1.39E-04
885	599839.7	4176774	0.001799514	1.80E-03	2.93E-04	1.53E-04
886	599830.7	4176777	0.001773326	1.77E-03	2.88E-04	1.51E-04
887	599821.7	4176779	0.00178172	1.78E-03	2.90E-04	1.51E-04
888	599812.7	4176782	0.001802406	1.80E-03	2.93E-04	1.53E-04
889	599803.7	4176785	0.001795644	1.80E-03	2.92E-04	1.52E-04
890	599794.7	4176787	0.001792322	1.79E-03	2.92E-04	1.52E-04

891	599785.8	4176790	0.001791744	1.79E-03	2.91E-04	1.52E-04
892	599776.8	4176793	0.001790424	1.79E-03	2.91E-04	1.52E-04
893	599767.8	4176795	0.001793434	1.79E-03	2.92E-04	1.52E-04
894	599758.8	4176798	0.001823864	1.82E-03	2.97E-04	1.55E-04
895	599749.8	4176800	0.001864125	1.86E-03	3.03E-04	1.58E-04
896	599740.8	4176803	0.00189494	1.89E-03	3.08E-04	1.61E-04
897	599731.8	4176806	0.001919378	1.92E-03	3.12E-04	1.63E-04
898	600418.4	4176114	0.001279739	1.28E-03	2.08E-04	1.09E-04
899	600418	4176105	0.001309842	1.31E-03	2.13E-04	1.11E-04
900	600417.6	4176095	0.001345402	1.35E-03	2.19E-04	1.14E-04
901	600417.2	4176086	0.001382267	1.38E-03	2.25E-04	1.17E-04
902	600416.8	4176076	0.001422884	1.42E-03	2.31E-04	1.21E-04
903	600416.4	4176067	0.001420897	1.42E-03	2.31E-04	1.21E-04
904	600434.8	4176122	0.001192692	1.19E-03	1.94E-04	1.01E-04
905	600431.1	4176130	0.001185589	1.19E-03	1.93E-04	1.01E-04
906	600427.5	4176139	0.001176187	1.18E-03	1.91E-04	9.99E-05
907	600423.8	4176147	0.001164205	1.16E-03	1.89E-04	9.89E-05
908	600420.2	4176156	0.001150444	1.15E-03	1.87E-04	9.77E-05
909	600416.6	4176165	0.001136282	1.14E-03	1.85E-04	9.65E-05
910	600015.2	4176742	0.000944319	9.44E-04	1.54E-04	8.02E-05
911	600006.2	4176744	0.000978174	9.78E-04	1.59E-04	8.31E-05
912	599997.3	4176747	0.001016507	1.02E-03	1.65E-04	8.63E-05
913	599988.3	4176750	0.001061009	1.06E-03	1.73E-04	9.01E-05
914	599979.3	4176752	0.001112614	1.11E-03	1.81E-04	9.45E-05
915	599970.4	4176755	0.001173028	1.17E-03	1.91E-04	9.96E-05
916	599961.4	4176757	0.001236171	1.24E-03	2.01E-04	1.05E-04
917	599952.4	4176760	0.001279857	1.28E-03	2.08E-04	1.09E-04
918	599943.5	4176763	0.001321972	1.32E-03	2.15E-04	1.12E-04
919	599934.5	4176765	0.001360083	1.36E-03	2.21E-04	1.15E-04
920	599925.5	4176768	0.001393434	1.39E-03	2.27E-04	1.18E-04
921	599916.6	4176771	0.001420437	1.42E-03	2.31E-04	1.21E-04
922	599907.6	4176773	0.001440813	1.44E-03	2.34E-04	1.22E-04
923	599898.7	4176776	0.001451727	1.45E-03	2.36E-04	1.23E-04
924	599889.7	4176778	0.001458192	1.46E-03	2.37E-04	1.24E-04
925	599880.7	4176781	0.001463501	1.46E-03	2.38E-04	1.24E-04
926	599818	4176799	0.001517049	1.52E-03	2.47E-04	1.29E-04
927	599809	4176802	0.001557651	1.56E-03	2.53E-04	1.32E-04
928	599800.1	4176805	0.001575609	1.58E-03	2.56E-04	1.34E-04
929	599791.1	4176807	0.001601382	1.60E-03	2.61E-04	1.36E-04
930	599782.1	4176810	0.001635237	1.64E-03	2.66E-04	1.39E-04
931	599773.2	4176812	0.001687466	1.69E-03	2.75E-04	1.43E-04
932	599764.2	4176815	0.001748873	1.75E-03	2.85E-04	1.48E-04
933	599755.2	4176818	0.001818763	1.82E-03	2.96E-04	1.54E-04
934	600438.4	4176113	0.00119889	1.20E-03	1.95E-04	1.02E-04
935	600438	4176104	0.001222795	1.22E-03	1.99E-04	1.04E-04
936	600437.6	4176094	0.001248316	1.25E-03	2.03E-04	1.06E-04
937	600437.2	4176085	0.001275023	1.28E-03	2.07E-04	1.08E-04

938	600436.8	4176076	0.001302116	1.30E-03	2.12E-04	1.11E-04
939	600436.4	4176066	0.001306876	1.31E-03	2.13E-04	1.11E-04
940	600454.8	4176121	0.001126791	1.13E-03	1.83E-04	9.57E-05
941	600451.1	4176129	0.001117389	1.12E-03	1.82E-04	9.49E-05
942	600447.5	4176138	0.001109767	1.11E-03	1.81E-04	9.42E-05
943	600443.9	4176147	0.001101063	1.10E-03	1.79E-04	9.35E-05
944	600046.8	4176751	0.000834702	8.35E-04	1.36E-04	7.09E-05
945	600037.8	4176754	0.000852956	8.53E-04	1.39E-04	7.24E-05
946	600028.9	4176757	0.000872902	8.73E-04	1.42E-04	7.41E-05
947	599993.1	4176767	0.000999705	1.00E-03	1.63E-04	8.49E-05
948	599984.2	4176770	0.001032863	1.03E-03	1.68E-04	8.77E-05
949	599975.3	4176772	0.001065621	1.07E-03	1.73E-04	9.05E-05
950	599966.3	4176775	0.001096896	1.10E-03	1.78E-04	9.31E-05
951	599957.4	4176777	0.001114068	1.11E-03	1.81E-04	9.46E-05
952	599948.4	4176780	0.001127547	1.13E-03	1.83E-04	9.57E-05
953	599939.5	4176783	0.001142614	1.14E-03	1.86E-04	9.70E-05
954	599930.5	4176785	0.001157413	1.16E-03	1.88E-04	9.83E-05
955	599921.6	4176788	0.001167408	1.17E-03	1.90E-04	9.91E-05
956	599912.7	4176791	0.001173028	1.17E-03	1.91E-04	9.96E-05
957	599903.7	4176793	0.00117334	1.17E-03	1.91E-04	9.96E-05
958	599894.8	4176796	0.001181199	1.18E-03	1.92E-04	1.00E-04
959	599885.8	4176798	0.001208811	1.21E-03	1.97E-04	1.03E-04
960	599876.9	4176801	0.001237668	1.24E-03	2.01E-04	1.05E-04
961	599867.9	4176804	0.001247307	1.25E-03	2.03E-04	1.06E-04
962	599859	4176806	0.001245928	1.25E-03	2.03E-04	1.06E-04
963	599796.4	4176825	0.001459423	1.46E-03	2.37E-04	1.24E-04
964	599787.5	4176827	0.001522491	1.52E-03	2.48E-04	1.29E-04
965	599778.5	4176830	0.001621832	1.62E-03	2.64E-04	1.38E-04
966	600458.4	4176112	0.001136119	1.14E-03	1.85E-04	9.65E-05
967	600458	4176103	0.001159756	1.16E-03	1.89E-04	9.85E-05
968	600457.6	4176093	0.001185381	1.19E-03	1.93E-04	1.01E-04
969	600457.2	4176084	0.00121148	1.21E-03	1.97E-04	1.03E-04
970	600456.8	4176075	0.001235741	1.24E-03	2.01E-04	1.05E-04
971	600456.4	4176065	0.001245647	1.25E-03	2.03E-04	1.06E-04
972	600474.7	4176120	0.001073288	1.07E-03	1.75E-04	9.11E-05
973	600471.1	4176129	0.001060327	1.06E-03	1.72E-04	9.00E-05
974	600051.5	4176769	0.000796235	7.96E-04	1.30E-04	6.76E-05
975	600042.6	4176771	0.000811391	8.11E-04	1.32E-04	6.89E-05
976	600033.7	4176774	0.000828192	8.28E-04	1.35E-04	7.03E-05
977	600024.8	4176777	0.000847677	8.48E-04	1.38E-04	7.20E-05
978	600015.8	4176779	0.000866525	8.67E-04	1.41E-04	7.36E-05
979	600006.9	4176782	0.000884884	8.85E-04	1.44E-04	7.51E-05
980	599980.2	4176790	0.000931625	9.32E-04	1.52E-04	7.91E-05
981	599971.2	4176792	0.000942169	9.42E-04	1.53E-04	8.00E-05
982	599962.3	4176795	0.000949865	9.50E-04	1.55E-04	8.07E-05
983	599953.4	4176797	0.000966177	9.66E-04	1.57E-04	8.20E-05
984	599944.5	4176800	0.000986656	9.87E-04	1.61E-04	8.38E-05

985	599935.5	4176803	0.001008796	1.01E-03	1.64E-04	8.57E-05
986	599926.6	4176805	0.001027391	1.03E-03	1.67E-04	8.72E-05
987	599917.7	4176808	0.001046447	1.05E-03	1.70E-04	8.89E-05
988	599908.8	4176810	0.001068542	1.07E-03	1.74E-04	9.07E-05
989	599899.9	4176813	0.001092284	1.09E-03	1.78E-04	9.27E-05
990	599890.9	4176816	0.001115625	1.12E-03	1.81E-04	9.47E-05
991	599882	4176818	0.001139144	1.14E-03	1.85E-04	9.67E-05
992	599873.1	4176821	0.001162055	1.16E-03	1.89E-04	9.87E-05
993	599864.2	4176824	0.001160186	1.16E-03	1.89E-04	9.85E-05
994	599855.2	4176826	0.001161654	1.16E-03	1.89E-04	9.86E-05
995	599846.3	4176829	0.001196013	1.20E-03	1.95E-04	1.02E-04
996	599837.4	4176831	0.001257643	1.26E-03	2.05E-04	1.07E-04
997	600478.4	4176111	0.001091987	1.09E-03	1.78E-04	9.27E-05
998	600478	4176102	0.001117434	1.12E-03	1.82E-04	9.49E-05
999	600477.6	4176093	0.001142688	1.14E-03	1.86E-04	9.70E-05
1000	600477.2	4176083	0.001170315	1.17E-03	1.90E-04	9.94E-05
1001	600476.8	4176074	0.001196399	1.20E-03	1.95E-04	1.02E-04
1002	600476.4	4176064	0.00121234	1.21E-03	1.97E-04	1.03E-04
1003	600038.5	4176791	0.00077976	7.80E-04	1.27E-04	6.62E-05
1004	600029.6	4176794	0.000798326	7.98E-04	1.30E-04	6.78E-05
1005	600020.7	4176797	0.00081403	8.14E-04	1.32E-04	6.91E-05
1006	600011.8	4176799	0.000818301	8.18E-04	1.33E-04	6.95E-05
1007	600002.9	4176802	0.000824544	8.25E-04	1.34E-04	7.00E-05
1008	599976.2	4176810	0.000848478	8.48E-04	1.38E-04	7.20E-05
1009	599967.3	4176812	0.000856219	8.56E-04	1.39E-04	7.27E-05
1010	599958.4	4176815	0.000869832	8.70E-04	1.42E-04	7.39E-05
1011	599949.4	4176817	0.000891201	8.91E-04	1.45E-04	7.57E-05
1012	599940.5	4176820	0.000911813	9.12E-04	1.48E-04	7.74E-05
1013	599931.6	4176823	0.000933241	9.33E-04	1.52E-04	7.92E-05
1014	599922.7	4176825	0.000956197	9.56E-04	1.56E-04	8.12E-05
1015	599913.8	4176828	0.000999883	1.00E-03	1.63E-04	8.49E-05
1016	599904.9	4176830	0.001058562	1.06E-03	1.72E-04	8.99E-05
1017	599896	4176833	0.00111168	1.11E-03	1.81E-04	9.44E-05
1018	599887.1	4176836	0.001166667	1.17E-03	1.90E-04	9.91E-05
1019	599878.2	4176838	0.001225434	1.23E-03	1.99E-04	1.04E-04
1020	599869.3	4176841	0.001276714	1.28E-03	2.08E-04	1.08E-04
1021	599860.4	4176843	0.001319703	1.32E-03	2.15E-04	1.12E-04
1022	599851.5	4176846	0.001368713	1.37E-03	2.23E-04	1.16E-04
1023	599842.6	4176849	0.001426087	1.43E-03	2.32E-04	1.21E-04
1024	599833.7	4176851	0.001511266	1.51E-03	2.46E-04	1.28E-04
1025	599824.8	4176854	0.001599469	1.60E-03	2.60E-04	1.36E-04
1026	600498.4	4176111	0.00108309	1.08E-03	1.76E-04	9.20E-05
1027	600498	4176101	0.00110649	1.11E-03	1.80E-04	9.40E-05
1028	600497.6	4176092	0.001130409	1.13E-03	1.84E-04	9.60E-05
1029	600497.2	4176082	0.001154877	1.15E-03	1.88E-04	9.81E-05
1030	600496.8	4176073	0.00117942	1.18E-03	1.92E-04	1.00E-04
1031	600496.4	4176064	0.001202405	1.20E-03	1.96E-04	1.02E-04

1032	600031.5	4176812	0.000729282	7.29E-04	1.19E-04	6.19E-05
1033	600022.5	4176815	0.000738387	7.38E-04	1.20E-04	6.27E-05
1034	600013.5	4176817	0.000745253	7.45E-04	1.21E-04	6.33E-05
1035	600004.5	4176820	0.000754106	7.54E-04	1.23E-04	6.40E-05
1036	599995.5	4176823	0.000765346	7.65E-04	1.25E-04	6.50E-05
1037	599977.5	4176828	0.000788895	7.89E-04	1.28E-04	6.70E-05
1038	599968.5	4176831	0.000813378	8.13E-04	1.32E-04	6.91E-05
1039	599959.5	4176833	0.000845186	8.45E-04	1.37E-04	7.18E-05
1040	599950.5	4176836	0.000889021	8.89E-04	1.45E-04	7.55E-05
1041	599941.5	4176839	0.00093551	9.36E-04	1.52E-04	7.94E-05
1042	599932.5	4176841	0.000987338	9.87E-04	1.61E-04	8.38E-05
1043	599923.5	4176844	0.001052749	1.05E-03	1.71E-04	8.94E-05
1044	599914.5	4176846	0.001129846	1.13E-03	1.84E-04	9.59E-05
1045	599905.5	4176849	0.001221683	1.22E-03	1.99E-04	1.04E-04
1046	599896.4	4176852	0.001293945	1.29E-03	2.11E-04	1.10E-04
1047	599887.4	4176854	0.001360335	1.36E-03	2.21E-04	1.16E-04
1048	599878.4	4176857	0.00141888	1.42E-03	2.31E-04	1.20E-04
1049	599869.4	4176860	0.001458726	1.46E-03	2.37E-04	1.24E-04
1050	599860.4	4176862	0.001495325	1.50E-03	2.43E-04	1.27E-04
1051	599851.4	4176865	0.001539056	1.54E-03	2.50E-04	1.31E-04
1052	599842.4	4176868	0.001591284	1.59E-03	2.59E-04	1.35E-04
1053	599833.4	4176870	0.001649132	1.65E-03	2.68E-04	1.40E-04
1054	599824.4	4176873	0.001705082	1.71E-03	2.77E-04	1.45E-04
1055	599815.4	4176875	0.001757503	1.76E-03	2.86E-04	1.49E-04
1056	599806.4	4176878	0.001793479	1.79E-03	2.92E-04	1.52E-04
1057	600517.9	4176100	0.001128882	1.13E-03	1.84E-04	9.59E-05
1058	600517.5	4176091	0.001150592	1.15E-03	1.87E-04	9.77E-05
1059	600517.1	4176082	0.00117328	1.17E-03	1.91E-04	9.96E-05
1060	600516.7	4176072	0.001196621	1.20E-03	1.95E-04	1.02E-04
1061	600516.3	4176063	0.001219043	1.22E-03	1.98E-04	1.04E-04
1062	600027.3	4176832	0.00069473	6.95E-04	1.13E-04	5.90E-05
1063	600018.4	4176835	0.00071291	7.13E-04	1.16E-04	6.05E-05
1064	600009.4	4176838	0.000733923	7.34E-04	1.19E-04	6.23E-05
1065	600000.4	4176840	0.00075851	7.59E-04	1.23E-04	6.44E-05
1066	599982.4	4176845	0.000816477	8.16E-04	1.33E-04	6.93E-05
1067	599973.4	4176848	0.000853713	8.54E-04	1.39E-04	7.25E-05
1068	599964.5	4176851	0.000895279	8.95E-04	1.46E-04	7.60E-05
1069	599955.5	4176853	0.000945816	9.46E-04	1.54E-04	8.03E-05
1070	599946.5	4176856	0.001003383	1.00E-03	1.63E-04	8.52E-05
1071	599937.5	4176859	0.001061498	1.06E-03	1.73E-04	9.01E-05
1072	599928.5	4176861	0.001132174	1.13E-03	1.84E-04	9.61E-05
1073	599919.5	4176864	0.001214743	1.21E-03	1.98E-04	1.03E-04
1074	599910.5	4176866	0.0013044	1.30E-03	2.12E-04	1.11E-04
1075	599901.6	4176869	0.001386686	1.39E-03	2.26E-04	1.18E-04
1076	599892.6	4176872	0.001426725	1.43E-03	2.32E-04	1.21E-04
1077	599883.6	4176874	0.001464806	1.46E-03	2.38E-04	1.24E-04
1078	599874.6	4176877	0.001501998	1.50E-03	2.44E-04	1.28E-04

1079	599865.6	4176880	0.001548709	1.55E-03	2.52E-04	1.32E-04
1080	599856.6	4176882	0.001602865	1.60E-03	2.61E-04	1.36E-04
1081	599847.6	4176885	0.001662464	1.66E-03	2.70E-04	1.41E-04
1082	599838.7	4176887	0.001686828	1.69E-03	2.74E-04	1.43E-04
1083	599829.7	4176890	0.001692923	1.69E-03	2.75E-04	1.44E-04
1084	599820.7	4176893	0.001709724	1.71E-03	2.78E-04	1.45E-04
1085	599811.7	4176895	0.001731493	1.73E-03	2.82E-04	1.47E-04
1086	599802.7	4176898	0.001741592	1.74E-03	2.83E-04	1.48E-04
1087	599793.7	4176901	0.001756199	1.76E-03	2.86E-04	1.49E-04
1088	600537.5	4176090	0.001201693	1.20E-03	1.95E-04	1.02E-04
1089	600537.1	4176081	0.001223225	1.22E-03	1.99E-04	1.04E-04
1090	600536.7	4176071	0.001242948	1.24E-03	2.02E-04	1.06E-04
1091	600536.3	4176062	0.001260402	1.26E-03	2.05E-04	1.07E-04
1092	600032.2	4176850	0.000695634	6.96E-04	1.13E-04	5.91E-05
1093	600023.2	4176852	0.000716617	7.17E-04	1.17E-04	6.08E-05
1094	600014.3	4176855	0.0007411	7.41E-04	1.21E-04	6.29E-05
1095	599987.4	4176863	0.000844207	8.44E-04	1.37E-04	7.17E-05
1096	599978.4	4176865	0.000886841	8.87E-04	1.44E-04	7.53E-05
1097	599969.4	4176868	0.000934606	9.35E-04	1.52E-04	7.94E-05
1098	599960.5	4176871	0.000988154	9.88E-04	1.61E-04	8.39E-05
1099	599951.5	4176873	0.001047589	1.05E-03	1.70E-04	8.90E-05
1100	599942.5	4176876	0.00111386	1.11E-03	1.81E-04	9.46E-05
1101	599933.6	4176879	0.001186745	1.19E-03	1.93E-04	1.01E-04
1102	599924.6	4176881	0.00126921	1.27E-03	2.06E-04	1.08E-04
1103	599915.6	4176884	0.001355501	1.36E-03	2.21E-04	1.15E-04
1104	599906.7	4176886	0.001432241	1.43E-03	2.33E-04	1.22E-04
1105	599897.7	4176889	0.001421372	1.42E-03	2.31E-04	1.21E-04
1106	599888.7	4176892	0.001393315	1.39E-03	2.27E-04	1.18E-04
1107	599879.8	4176894	0.001367334	1.37E-03	2.22E-04	1.16E-04
1108	599870.8	4176897	0.001353691	1.35E-03	2.20E-04	1.15E-04
1109	599861.8	4176900	0.001368624	1.37E-03	2.23E-04	1.16E-04
1110	599852.9	4176902	0.001392826	1.39E-03	2.27E-04	1.18E-04
1111	599843.9	4176905	0.001427466	1.43E-03	2.32E-04	1.21E-04
1112	599834.9	4176907	0.001465058	1.47E-03	2.38E-04	1.24E-04
1113	599826	4176910	0.001514158	1.51E-03	2.46E-04	1.29E-04
1114	599817	4176913	0.00157248	1.57E-03	2.56E-04	1.34E-04
1115	599808	4176915	0.0016159	1.62E-03	2.63E-04	1.37E-04
1116	599799.1	4176918	0.001656562	1.66E-03	2.69E-04	1.41E-04
1117	599790.1	4176920	0.001692596	1.69E-03	2.75E-04	1.44E-04
1118	600046	4176864	0.000668408	6.68E-04	1.09E-04	5.68E-05
1119	600037	4176867	0.000686811	6.87E-04	1.12E-04	5.83E-05
1120	600028.1	4176870	0.000709618	7.10E-04	1.15E-04	6.03E-05
1121	599992.3	4176880	0.000870366	8.70E-04	1.42E-04	7.39E-05
1122	599983.4	4176883	0.000918531	9.19E-04	1.49E-04	7.80E-05
1123	599974.4	4176885	0.000973087	9.73E-04	1.58E-04	8.26E-05
1124	599965.5	4176888	0.001015068	1.02E-03	1.65E-04	8.62E-05
1125	599956.5	4176891	0.001050199	1.05E-03	1.71E-04	8.92E-05

1126	599947.6	4176893	0.001078997	1.08E-03	1.76E-04	9.16E-05
1127	599938.6	4176896	0.001100099	1.10E-03	1.79E-04	9.34E-05
1128	599929.7	4176898	0.001115654	1.12E-03	1.81E-04	9.47E-05
1129	599920.7	4176901	0.001128007	1.13E-03	1.84E-04	9.58E-05
1130	599911.8	4176904	0.001134843	1.13E-03	1.85E-04	9.64E-05
1131	599902.8	4176906	0.001135095	1.14E-03	1.85E-04	9.64E-05
1132	599893.9	4176909	0.001112288	1.11E-03	1.81E-04	9.44E-05
1133	599884.9	4176912	0.001090445	1.09E-03	1.77E-04	9.26E-05
1134	599876	4176914	0.001070841	1.07E-03	1.74E-04	9.09E-05
1135	599867	4176917	0.001093767	1.09E-03	1.78E-04	9.29E-05
1136	599858.1	4176919	0.001155352	1.16E-03	1.88E-04	9.81E-05
1137	599849.1	4176922	0.001231218	1.23E-03	2.00E-04	1.05E-04
1138	599840.2	4176925	0.00131647	1.32E-03	2.14E-04	1.12E-04
1139	599831.3	4176927	0.001401886	1.40E-03	2.28E-04	1.19E-04
1140	599822.3	4176930	0.001487777	1.49E-03	2.42E-04	1.26E-04
1141	599813.4	4176933	0.001568358	1.57E-03	2.55E-04	1.33E-04
1142	599804.4	4176935	0.001601249	1.60E-03	2.60E-04	1.36E-04
1143	599795.5	4176938	0.001628297	1.63E-03	2.65E-04	1.38E-04
1144	599786.5	4176940	0.001649488	1.65E-03	2.68E-04	1.40E-04
1145	600059.8	4176879	0.000629778	6.30E-04	1.02E-04	5.35E-05
1146	600050.8	4176882	0.000646683	6.47E-04	1.05E-04	5.49E-05
1147	600041.9	4176885	0.000668512	6.69E-04	1.09E-04	5.68E-05
1148	600033	4176887	0.000693425	6.93E-04	1.13E-04	5.89E-05
1149	600006.2	4176895	0.000787782	7.88E-04	1.28E-04	6.69E-05
1150	599997.2	4176898	0.000826664	8.27E-04	1.34E-04	7.02E-05
1151	599988.3	4176900	0.000860594	8.61E-04	1.40E-04	7.31E-05
1152	599979.4	4176903	0.000890267	8.90E-04	1.45E-04	7.56E-05
1153	599970.5	4176905	0.000921259	9.21E-04	1.50E-04	7.82E-05
1154	599961.5	4176908	0.000947774	9.48E-04	1.54E-04	8.05E-05
1155	599952.6	4176911	0.000953617	9.54E-04	1.55E-04	8.10E-05
1156	599943.7	4176913	0.000952237	9.52E-04	1.55E-04	8.09E-05
1157	599934.7	4176916	0.000944111	9.44E-04	1.54E-04	8.02E-05
1158	599925.8	4176918	0.00094245	9.42E-04	1.53E-04	8.00E-05
1159	599916.9	4176921	0.000944838	9.45E-04	1.54E-04	8.02E-05
1160	599908	4176924	0.000951526	9.52E-04	1.55E-04	8.08E-05
1161	599899	4176926	0.000957428	9.57E-04	1.56E-04	8.13E-05
1162	599890.1	4176929	0.000963315	9.63E-04	1.57E-04	8.18E-05
1163	599881.2	4176932	0.000975178	9.75E-04	1.59E-04	8.28E-05
1164	599872.2	4176934	0.001000388	1.00E-03	1.63E-04	8.49E-05
1165	599863.3	4176937	0.00107001	1.07E-03	1.74E-04	9.09E-05
1166	599854.4	4176939	0.001156168	1.16E-03	1.88E-04	9.82E-05
1167	599845.4	4176942	0.001258533	1.26E-03	2.05E-04	1.07E-04
1168	599836.5	4176945	0.001346677	1.35E-03	2.19E-04	1.14E-04
1169	599827.6	4176947	0.001431381	1.43E-03	2.33E-04	1.22E-04
1170	599818.7	4176950	0.001511014	1.51E-03	2.46E-04	1.28E-04
1171	599809.7	4176952	0.001561818	1.56E-03	2.54E-04	1.33E-04
1172	599800.8	4176955	0.001584314	1.58E-03	2.58E-04	1.35E-04

1173	599791.9	4176958	0.001603829	1.60E-03	2.61E-04	1.36E-04
1174	599782.9	4176960	0.001620779	1.62E-03	2.64E-04	1.38E-04
1175	599649	4176999	0.001325783	1.33E-03	2.16E-04	1.13E-04
1176	599640.1	4177002	0.001322269	1.32E-03	2.15E-04	1.12E-04
1177	599631.1	4177005	0.001322209	1.32E-03	2.15E-04	1.12E-04
1178	599622.2	4177007	0.001314216	1.31E-03	2.14E-04	1.12E-04
1179	600073.5	4176894	0.000590318	5.90E-04	9.60E-05	5.01E-05
1180	600064.6	4176897	0.000603368	6.03E-04	9.82E-05	5.12E-05
1181	600055.7	4176899	0.000615394	6.15E-04	1.00E-04	5.23E-05
1182	600046.8	4176902	0.000630964	6.31E-04	1.03E-04	5.36E-05
1183	600028.9	4176907	0.000669046	6.69E-04	1.09E-04	5.68E-05
1184	600020	4176910	0.000692387	6.92E-04	1.13E-04	5.88E-05
1185	600011.1	4176912	0.000722119	7.22E-04	1.17E-04	6.13E-05
1186	600002.2	4176915	0.000756641	7.57E-04	1.23E-04	6.42E-05
1187	599993.3	4176918	0.000789013	7.89E-04	1.28E-04	6.70E-05
1188	599984.4	4176920	0.00080583	8.06E-04	1.31E-04	6.84E-05
1189	599975.5	4176923	0.000818508	8.19E-04	1.33E-04	6.95E-05
1190	599966.6	4176925	0.000826086	8.26E-04	1.34E-04	7.01E-05
1191	599957.6	4176928	0.000823313	8.23E-04	1.34E-04	6.99E-05
1192	599948.7	4176931	0.000817975	8.18E-04	1.33E-04	6.95E-05
1193	599939.8	4176933	0.00081403	8.14E-04	1.32E-04	6.91E-05
1194	599930.9	4176936	0.000814119	8.14E-04	1.32E-04	6.91E-05
1195	599922	4176938	0.00082444	8.24E-04	1.34E-04	7.00E-05
1196	599913.1	4176941	0.000837104	8.37E-04	1.36E-04	7.11E-05
1197	599904.2	4176944	0.000854543	8.55E-04	1.39E-04	7.26E-05
1198	599895.3	4176946	0.000871478	8.71E-04	1.42E-04	7.40E-05
1199	599886.3	4176949	0.000912807	9.13E-04	1.48E-04	7.75E-05
1200	599877.4	4176951	0.000967912	9.68E-04	1.57E-04	8.22E-05
1201	599868.5	4176954	0.001051237	1.05E-03	1.71E-04	8.93E-05
1202	599859.6	4176957	0.001152727	1.15E-03	1.88E-04	9.79E-05
1203	599850.7	4176959	0.001256665	1.26E-03	2.04E-04	1.07E-04
1204	599841.8	4176962	0.001351274	1.35E-03	2.20E-04	1.15E-04
1205	599832.9	4176964	0.001418554	1.42E-03	2.31E-04	1.20E-04
1206	599823.9	4176967	0.001476759	1.48E-03	2.40E-04	1.25E-04
1207	599815	4176970	0.001525294	1.53E-03	2.48E-04	1.30E-04
1208	599806.1	4176972	0.001549525	1.55E-03	2.52E-04	1.32E-04
1209	599797.2	4176975	0.001567468	1.57E-03	2.55E-04	1.33E-04
1210	599788.3	4176977	0.001582475	1.58E-03	2.57E-04	1.34E-04
1211	599779.4	4176980	0.001594709	1.59E-03	2.59E-04	1.35E-04
1212	599690.3	4177006	0.001378115	1.38E-03	2.24E-04	1.17E-04
1213	599681.3	4177009	0.001303169	1.30E-03	2.12E-04	1.11E-04
1214	599672.4	4177011	0.001221104	1.22E-03	1.99E-04	1.04E-04
1215	599663.5	4177014	0.001134517	1.13E-03	1.85E-04	9.63E-05
1216	599654.6	4177017	0.00113425	1.13E-03	1.85E-04	9.63E-05
1217	599645.7	4177019	0.001136385	1.14E-03	1.85E-04	9.65E-05
1218	599636.8	4177022	0.001140894	1.14E-03	1.86E-04	9.69E-05
1219	599627.9	4177024	0.001162307	1.16E-03	1.89E-04	9.87E-05

1220	599619	4177027	0.001200521	1.20E-03	1.95E-04	1.02E-04
1221	599610	4177030	0.001247367	1.25E-03	2.03E-04	1.06E-04
1222	599601.1	4177032	0.001287628	1.29E-03	2.09E-04	1.09E-04
1223	599592.2	4177035	0.001299387	1.30E-03	2.11E-04	1.10E-04
1224	600093.4	4176907	0.000553957	5.54E-04	9.01E-05	4.70E-05
1225	600084.4	4176910	0.000558925	5.59E-04	9.09E-05	4.75E-05
1226	600075.4	4176912	0.000566917	5.67E-04	9.22E-05	4.81E-05
1227	600066.4	4176915	0.000579715	5.80E-04	9.43E-05	4.92E-05
1228	600039.4	4176923	0.000629066	6.29E-04	1.02E-04	5.34E-05
1229	600030.4	4176926	0.000647914	6.48E-04	1.05E-04	5.50E-05
1230	600021.4	4176928	0.000666525	6.67E-04	1.08E-04	5.66E-05
1231	600012.4	4176931	0.000684987	6.85E-04	1.11E-04	5.82E-05
1232	600003.4	4176933	0.000701788	7.02E-04	1.14E-04	5.96E-05
1233	599994.4	4176936	0.00071251	7.13E-04	1.16E-04	6.05E-05
1234	599985.4	4176939	0.000717878	7.18E-04	1.17E-04	6.10E-05
1235	599976.4	4176941	0.000715802	7.16E-04	1.16E-04	6.08E-05
1236	599967.4	4176944	0.000709425	7.09E-04	1.15E-04	6.02E-05
1237	599958.4	4176947	0.00070944	7.09E-04	1.15E-04	6.02E-05
1238	599949.4	4176949	0.000724951	7.25E-04	1.18E-04	6.16E-05
1239	599940.4	4176952	0.000742094	7.42E-04	1.21E-04	6.30E-05
1240	599931.4	4176954	0.000761772	7.62E-04	1.24E-04	6.47E-05
1241	599922.4	4176957	0.000792557	7.93E-04	1.29E-04	6.73E-05
1242	599913.4	4176960	0.000826457	8.26E-04	1.34E-04	7.02E-05
1243	599904.4	4176962	0.000866466	8.66E-04	1.41E-04	7.36E-05
1244	599895.4	4176965	0.000923884	9.24E-04	1.50E-04	7.84E-05
1245	599886.4	4176968	0.000999542	1.00E-03	1.63E-04	8.49E-05
1246	599877.4	4176970	0.001096866	1.10E-03	1.78E-04	9.31E-05
1247	599868.4	4176973	0.001192855	1.19E-03	1.94E-04	1.01E-04
1248	599859.4	4176976	0.001274697	1.27E-03	2.07E-04	1.08E-04
1249	599850.4	4176978	0.001346381	1.35E-03	2.19E-04	1.14E-04
1250	599841.4	4176981	0.001409019	1.41E-03	2.29E-04	1.20E-04
1251	599832.4	4176983	0.001450778	1.45E-03	2.36E-04	1.23E-04
1252	599823.4	4176986	0.001484084	1.48E-03	2.41E-04	1.26E-04
1253	599814.4	4176989	0.001509264	1.51E-03	2.46E-04	1.28E-04
1254	599805.4	4176991	0.001526955	1.53E-03	2.48E-04	1.30E-04
1255	599796.4	4176994	0.001541695	1.54E-03	2.51E-04	1.31E-04
1256	599787.4	4176997	0.001553633	1.55E-03	2.53E-04	1.32E-04
1257	599778.4	4176999	0.001563005	1.56E-03	2.54E-04	1.33E-04
1258	599769.4	4177002	0.001570078	1.57E-03	2.55E-04	1.33E-04
1259	599706.4	4177020	0.001377448	1.38E-03	2.24E-04	1.17E-04
1260	599697.3	4177023	0.001267861	1.27E-03	2.06E-04	1.08E-04
1261	599688.3	4177026	0.001165584	1.17E-03	1.90E-04	9.90E-05
1262	599679.3	4177028	0.001073777	1.07E-03	1.75E-04	9.12E-05
1263	599670.3	4177031	0.000979419	9.79E-04	1.59E-04	8.32E-05
1264	599661.3	4177033	0.000910004	9.10E-04	1.48E-04	7.73E-05
1265	599652.3	4177036	0.00092123	9.21E-04	1.50E-04	7.82E-05
1266	599643.3	4177039	0.000941219	9.41E-04	1.53E-04	7.99E-05

1267	599634.3	4177041	0.000968905	9.69E-04	1.58E-04	8.23E-05
1268	599625.3	4177044	0.001039373	1.04E-03	1.69E-04	8.83E-05
1269	599616.3	4177047	0.001112481	1.11E-03	1.81E-04	9.45E-05
1270	599607.3	4177049	0.001181644	1.18E-03	1.92E-04	1.00E-04
1271	599598.3	4177052	0.001216329	1.22E-03	1.98E-04	1.03E-04
1272	599589.3	4177054	0.001230803	1.23E-03	2.00E-04	1.05E-04
1273	599580.3	4177057	0.001245735	1.25E-03	2.03E-04	1.06E-04
1274	599718.5	4176021	0.02477284	2.48E-02	4.03E-03	2.10E-03
1275	599701.4	4176017	0.0267502	2.68E-02	4.35E-03	2.27E-03
1276	599719.9	4176011	0.02321422	2.32E-02	3.78E-03	1.97E-03
1277	599728.4	4176015	0.02267281	2.27E-02	3.69E-03	1.93E-03
1278	599736.9	4176019	0.02237289	2.24E-02	3.64E-03	1.90E-03
1279	599711.4	4176007	0.0239383	2.39E-02	3.89E-03	2.03E-03
1280	599701.9	4176007	0.02532521	2.53E-02	4.12E-03	2.15E-03
1281	599692.3	4176006	0.02685021	2.69E-02	4.37E-03	2.28E-03
1282	599682.8	4176006	0.02871493	2.87E-02	4.67E-03	2.44E-03
1283	599673.3	4176005	0.03066489	3.07E-02	4.99E-03	2.60E-03
1284	599720.1	4176001	0.02185815	2.19E-02	3.56E-03	1.86E-03
1285	599736.7	4176008	0.02090521	2.09E-02	3.40E-03	1.78E-03
1286	599744.9	4176012	0.02061871	2.06E-02	3.35E-03	1.75E-03
1287	599711.9	4175997	0.02248637	2.25E-02	3.66E-03	1.91E-03
1288	599702.3	4175997	0.0237897	2.38E-02	3.87E-03	2.02E-03
1289	599692.8	4175996	0.02516062	2.52E-02	4.09E-03	2.14E-03
1290	599683.3	4175996	0.02675346	2.68E-02	4.35E-03	2.27E-03
1291	599673.8	4175995	0.02837669	2.84E-02	4.62E-03	2.41E-03
1292	599720.4	4175991	0.02042949	2.04E-02	3.32E-03	1.73E-03
1293	599736.6	4175998	0.01954398	1.95E-02	3.18E-03	1.66E-03
1294	599752.7	4176005	0.01889397	1.89E-02	3.07E-03	1.60E-03
1295	599768.9	4176012	0.01982439	1.98E-02	3.23E-03	1.68E-03
1296	599702.8	4175987	0.02209397	2.21E-02	3.59E-03	1.88E-03
1297	599693.3	4175986	0.02327158	2.33E-02	3.79E-03	1.98E-03
1298	599683.8	4175986	0.02457283	2.46E-02	4.00E-03	2.09E-03
1299	599674.3	4175985	0.02586152	2.59E-02	4.21E-03	2.20E-03
1300	599720.8	4175981	0.01910104	1.91E-02	3.11E-03	1.62E-03
1301	599736.6	4175988	0.01821877	1.82E-02	2.96E-03	1.55E-03
1302	599752.5	4175995	0.01752451	1.75E-02	2.85E-03	1.49E-03
1303	599768.4	4176002	0.01810298	1.81E-02	2.95E-03	1.54E-03
1304	599784.2	4176009	0.01944069	1.94E-02	3.16E-03	1.65E-03
1305	599703.3	4175977	0.0205939	2.06E-02	3.35E-03	1.75E-03
1306	599693.8	4175976	0.02160483	2.16E-02	3.51E-03	1.83E-03
1307	599684.3	4175976	0.02262601	2.26E-02	3.68E-03	1.92E-03
1308	599674.7	4175975	0.02357207	2.36E-02	3.83E-03	2.00E-03
1309	599721.9	4175971	0.01777843	1.78E-02	2.89E-03	1.51E-03
1310	599730.5	4175975	0.01738819	1.74E-02	2.83E-03	1.48E-03
1311	599739.1	4175979	0.01696654	1.70E-02	2.76E-03	1.44E-03
1312	599747.7	4175983	0.01653382	1.65E-02	2.69E-03	1.40E-03
1313	599756.3	4175986	0.01629671	1.63E-02	2.65E-03	1.38E-03

1314	599764.9	4175990	0.01655808	1.66E-02	2.69E-03	1.41E-03
1315	599773.5	4175994	0.01695592	1.70E-02	2.76E-03	1.44E-03
1316	599782.1	4175998	0.01754668	1.75E-02	2.85E-03	1.49E-03
1317	599790.7	4176002	0.01768745	1.77E-02	2.88E-03	1.50E-03
1318	599713.3	4175967	0.01812304	1.81E-02	2.95E-03	1.54E-03
1319	599703.8	4175967	0.01898546	1.90E-02	3.09E-03	1.61E-03
1320	599694.3	4175966	0.01981543	1.98E-02	3.22E-03	1.68E-03
1321	599684.7	4175966	0.02055284	2.06E-02	3.34E-03	1.75E-03
1322	599675.2	4175965	0.02119193	2.12E-02	3.45E-03	1.80E-03
1323	599722.2	4175961	0.01640883	1.64E-02	2.67E-03	1.39E-03
1324	599730.6	4175965	0.01615202	1.62E-02	2.63E-03	1.37E-03
1325	599739	4175969	0.01583605	1.58E-02	2.58E-03	1.34E-03
1326	599747.4	4175972	0.01548376	1.55E-02	2.52E-03	1.31E-03
1327	599755.9	4175976	0.01524504	1.52E-02	2.48E-03	1.29E-03
1328	599764.3	4175980	0.01539738	1.54E-02	2.50E-03	1.31E-03
1329	599772.7	4175983	0.01564663	1.56E-02	2.55E-03	1.33E-03
1330	599781.1	4175987	0.01606509	1.61E-02	2.61E-03	1.36E-03
1331	599789.5	4175991	0.01632905	1.63E-02	2.66E-03	1.39E-03
1332	599797.9	4175995	0.01641221	1.64E-02	2.67E-03	1.39E-03
1333	599810	4176007	0.01694695	1.69E-02	2.76E-03	1.44E-03
1334	599813.7	4176015	0.01732381	1.73E-02	2.82E-03	1.47E-03
1335	599713.8	4175957	0.01658243	1.66E-02	2.70E-03	1.41E-03
1336	599704.3	4175957	0.01728257	1.73E-02	2.81E-03	1.47E-03
1337	599694.7	4175956	0.01794198	1.79E-02	2.92E-03	1.52E-03
1338	599685.2	4175956	0.01844105	1.84E-02	3.00E-03	1.57E-03
1339	599675.7	4175955	0.01881857	1.88E-02	3.06E-03	1.60E-03
1340	599722.5	4175951	0.01500521	1.50E-02	2.44E-03	1.27E-03
1341	599730.8	4175955	0.0148604	1.49E-02	2.42E-03	1.26E-03
1342	599747.3	4175962	0.01448467	1.45E-02	2.36E-03	1.23E-03
1343	599755.6	4175966	0.01425708	1.43E-02	2.32E-03	1.21E-03
1344	599772.1	4175973	0.01450594	1.45E-02	2.36E-03	1.23E-03
1345	599780.4	4175977	0.01475679	1.48E-02	2.40E-03	1.25E-03
1346	599796.9	4175984	0.01525697	1.53E-02	2.48E-03	1.30E-03
1347	599805.2	4175988	0.01546503	1.55E-02	2.52E-03	1.31E-03
1348	599817.1	4176000	0.01530198	1.53E-02	2.49E-03	1.30E-03
1349	599820.7	4176008	0.01487563	1.49E-02	2.42E-03	1.26E-03
1350	599824.3	4176016	0.01433613	1.43E-02	2.33E-03	1.22E-03
1351	599714.3	4175947	0.01502575	1.50E-02	2.44E-03	1.28E-03
1352	599704.7	4175947	0.01552145	1.55E-02	2.53E-03	1.32E-03
1353	599695.2	4175946	0.01595986	1.60E-02	2.60E-03	1.36E-03
1354	599685.7	4175946	0.01629878	1.63E-02	2.65E-03	1.38E-03
1355	599676.2	4175945	0.01655073	1.66E-02	2.69E-03	1.41E-03
1356	599666.6	4175945	0.01672288	1.67E-02	2.72E-03	1.42E-03
1357	599722.9	4175941	0.01360264	1.36E-02	2.21E-03	1.16E-03
1358	599739.2	4175948	0.01357064	1.36E-02	2.21E-03	1.15E-03
1359	599755.4	4175955	0.01349551	1.35E-02	2.20E-03	1.15E-03
1360	599771.7	4175963	0.01344843	1.34E-02	2.19E-03	1.14E-03

1361	599788	4175970	0.01380548	1.38E-02	2.25E-03	1.17E-03
1362	599804.2	4175977	0.01421573	1.42E-02	2.31E-03	1.21E-03
1363	599824.1	4175992	0.01356712	1.36E-02	2.21E-03	1.15E-03
1364	599827.7	4176001	0.01320808	1.32E-02	2.15E-03	1.12E-03
1365	599834.8	4176017	0.01225974	1.23E-02	1.99E-03	1.04E-03
1366	599705.2	4175937	0.01377915	1.38E-02	2.24E-03	1.17E-03
1367	599695.7	4175936	0.01402946	1.40E-02	2.28E-03	1.19E-03
1368	599686.2	4175936	0.01424057	1.42E-02	2.32E-03	1.21E-03
1369	599676.6	4175936	0.01441102	1.44E-02	2.34E-03	1.22E-03
1370	599667.1	4175935	0.01454776	1.45E-02	2.37E-03	1.24E-03
1371	599723.9	4175931	0.01221236	1.22E-02	1.99E-03	1.04E-03
1372	599732.5	4175935	0.01242912	1.24E-02	2.02E-03	1.06E-03
1373	599741.2	4175939	0.01259012	1.26E-02	2.05E-03	1.07E-03
1374	599749.8	4175943	0.01279209	1.28E-02	2.08E-03	1.09E-03
1375	599758.4	4175947	0.0127813	1.28E-02	2.08E-03	1.09E-03
1376	599767.1	4175950	0.01287355	1.29E-02	2.09E-03	1.09E-03
1377	599775.7	4175954	0.01256243	1.26E-02	2.04E-03	1.07E-03
1378	599784.4	4175958	0.01268003	1.27E-02	2.06E-03	1.08E-03
1379	599793	4175962	0.01285033	1.29E-02	2.09E-03	1.09E-03
1380	599801.7	4175966	0.01303637	1.30E-02	2.12E-03	1.11E-03
1381	599810.3	4175970	0.01326129	1.33E-02	2.16E-03	1.13E-03
1382	599819	4175973	0.01301257	1.30E-02	2.12E-03	1.10E-03
1383	599831.4	4175986	0.01226966	1.23E-02	2.00E-03	1.04E-03
1384	599835.2	4175995	0.01192447	1.19E-02	1.94E-03	1.01E-03
1385	599839	4176003	0.01149285	1.15E-02	1.87E-03	9.76E-04
1386	599842.8	4176012	0.0109982	1.10E-02	1.79E-03	9.34E-04
1387	599846.6	4176021	0.01076071	1.08E-02	1.75E-03	9.14E-04
1388	599850.4	4176029	0.01071612	1.07E-02	1.74E-03	9.10E-04
1389	599715.2	4175927	0.01193439	1.19E-02	1.94E-03	1.01E-03
1390	599705.7	4175927	0.01209665	1.21E-02	1.97E-03	1.03E-03
1391	599696.2	4175926	0.01220142	1.22E-02	1.98E-03	1.04E-03
1392	599686.6	4175926	0.01231789	1.23E-02	2.00E-03	1.05E-03
1393	599677.1	4175926	0.01242873	1.24E-02	2.02E-03	1.06E-03
1394	599667.6	4175925	0.01252778	1.25E-02	2.04E-03	1.06E-03
1395	599724.2	4175921	0.01084297	1.08E-02	1.76E-03	9.21E-04
1396	599732.7	4175925	0.01123716	1.12E-02	1.83E-03	9.54E-04
1397	599741.2	4175929	0.0115632	1.16E-02	1.88E-03	9.82E-04
1398	599749.7	4175932	0.01175597	1.18E-02	1.91E-03	9.98E-04
1399	599758.2	4175936	0.01194384	1.19E-02	1.94E-03	1.01E-03
1400	599766.7	4175940	0.01209067	1.21E-02	1.97E-03	1.03E-03
1401	599775.2	4175944	0.01219154	1.22E-02	1.98E-03	1.04E-03
1402	599783.7	4175948	0.01191215	1.19E-02	1.94E-03	1.01E-03
1403	599792.2	4175951	0.01198411	1.20E-02	1.95E-03	1.02E-03
1404	599800.7	4175955	0.01206449	1.21E-02	1.96E-03	1.02E-03
1405	599809.2	4175959	0.01223575	1.22E-02	1.99E-03	1.04E-03
1406	599817.7	4175963	0.01221706	1.22E-02	1.99E-03	1.04E-03
1407	599826.2	4175966	0.01184527	1.18E-02	1.93E-03	1.01E-03

1408	599838.4	4175979	0.01124371	1.12E-02	1.83E-03	9.55E-04
1409	599842.2	4175987	0.01098844	1.10E-02	1.79E-03	9.33E-04
1410	599845.9	4175996	0.01063626	1.06E-02	1.73E-03	9.03E-04
1411	599849.6	4176004	0.01030443	1.03E-02	1.68E-03	8.75E-04
1412	599853.4	4176013	0.00999885	1.00E-02	1.63E-03	8.49E-04
1413	599857.1	4176021	0.00986334	9.86E-03	1.60E-03	8.38E-04
1414	599860.8	4176030	0.009822383	9.82E-03	1.60E-03	8.34E-04
1415	599864.5	4176038	0.00980309	9.80E-03	1.59E-03	8.32E-04
1416	599715.7	4175917	0.01043991	1.04E-02	1.70E-03	8.86E-04
1417	599706.2	4175917	0.01043961	1.04E-02	1.70E-03	8.86E-04
1418	599696.6	4175916	0.01037848	1.04E-02	1.69E-03	8.81E-04
1419	599687.1	4175916	0.01032911	1.03E-02	1.68E-03	8.77E-04
1420	599677.6	4175916	0.01028644	1.03E-02	1.67E-03	8.73E-04
1421	599668.1	4175915	0.01023235	1.02E-02	1.66E-03	8.69E-04
1422	599724.6	4175911	0.009934773	9.93E-03	1.62E-03	8.44E-04
1423	599732.9	4175915	0.01010108	1.01E-02	1.64E-03	8.58E-04
1424	599741.3	4175919	0.01053032	1.05E-02	1.71E-03	8.94E-04
1425	599749.7	4175922	0.01083063	1.08E-02	1.76E-03	9.20E-04
1426	599758	4175926	0.01105061	1.11E-02	1.80E-03	9.38E-04
1427	599766.4	4175930	0.01125493	1.13E-02	1.83E-03	9.56E-04
1428	599774.8	4175933	0.01140088	1.14E-02	1.85E-03	9.68E-04
1429	599783.2	4175937	0.01134054	1.13E-02	1.84E-03	9.63E-04
1430	599791.5	4175941	0.0113003	1.13E-02	1.84E-03	9.60E-04
1431	599799.9	4175945	0.01135773	1.14E-02	1.85E-03	9.64E-04
1432	599808.3	4175948	0.0114492	1.14E-02	1.86E-03	9.72E-04
1433	599816.7	4175952	0.0114677	1.15E-02	1.87E-03	9.74E-04
1434	599825	4175956	0.01128774	1.13E-02	1.84E-03	9.58E-04
1435	599833.4	4175959	0.01102499	1.10E-02	1.79E-03	9.36E-04
1436	599845.5	4175972	0.01048855	1.05E-02	1.71E-03	8.91E-04
1437	599849.1	4175980	0.01020898	1.02E-02	1.66E-03	8.67E-04
1438	599852.8	4175988	0.009897522	9.90E-03	1.61E-03	8.40E-04
1439	599856.5	4175997	0.009641289	9.64E-03	1.57E-03	8.19E-04
1440	599860.2	4176005	0.009401117	9.40E-03	1.53E-03	7.98E-04
1441	599863.8	4176014	0.009177197	9.18E-03	1.49E-03	7.79E-04
1442	599867.5	4176022	0.009083018	9.08E-03	1.48E-03	7.71E-04
1443	599871.2	4176030	0.009045411	9.05E-03	1.47E-03	7.68E-04
1444	599874.9	4176039	0.009041243	9.04E-03	1.47E-03	7.68E-04
1445	599716.2	4175907	0.009164132	9.16E-03	1.49E-03	7.78E-04
1446	599706.7	4175907	0.008919318	8.92E-03	1.45E-03	7.57E-04
1447	599697.1	4175906	0.008742673	8.74E-03	1.42E-03	7.42E-04
1448	599687.6	4175906	0.008586731	8.59E-03	1.40E-03	7.29E-04
1449	599678.1	4175906	0.00845149	8.45E-03	1.37E-03	7.18E-04
1450	599668.6	4175905	0.008311591	8.31E-03	1.35E-03	7.06E-04
1451	599724.9	4175901	0.008674	8.67E-03	1.41E-03	7.37E-04
1452	599733.2	4175905	0.009268174	9.27E-03	1.51E-03	7.87E-04
1453	599741.4	4175908	0.009725682	9.73E-03	1.58E-03	8.26E-04
1454	599758	4175916	0.01029562	1.03E-02	1.67E-03	8.74E-04

1455	599766.2	4175919	0.01051295	1.05E-02	1.71E-03	8.93E-04
1456	599782.8	4175927	0.01071097	1.07E-02	1.74E-03	9.09E-04
1457	599791	4175930	0.01072322	1.07E-02	1.74E-03	9.11E-04
1458	599799.3	4175934	0.0107044	1.07E-02	1.74E-03	9.09E-04
1459	599807.6	4175938	0.01073494	1.07E-02	1.75E-03	9.12E-04
1460	599815.8	4175941	0.01078743	1.08E-02	1.75E-03	9.16E-04
1461	599832.4	4175949	0.01056371	1.06E-02	1.72E-03	8.97E-04
1462	599840.6	4175952	0.0103826	1.04E-02	1.69E-03	8.82E-04
1463	599852.5	4175964	0.009808918	9.81E-03	1.60E-03	8.33E-04
1464	599856.1	4175973	0.009566417	9.57E-03	1.56E-03	8.12E-04
1465	599859.8	4175981	0.009272474	9.27E-03	1.51E-03	7.87E-04
1466	599863.4	4175989	0.00900119	9.00E-03	1.46E-03	7.64E-04
1467	599867	4175998	0.008811749	8.81E-03	1.43E-03	7.48E-04
1468	599870.6	4176006	0.00863365	8.63E-03	1.40E-03	7.33E-04
1469	599874.3	4176014	0.008470811	8.47E-03	1.38E-03	7.19E-04
1470	599877.9	4176022	0.008423491	8.42E-03	1.37E-03	7.15E-04
1471	599881.5	4176031	0.008425687	8.43E-03	1.37E-03	7.15E-04
1472	599885.1	4176039	0.008461736	8.46E-03	1.38E-03	7.18E-04
1473	599716.7	4175897	0.007972731	7.97E-03	1.30E-03	6.77E-04
1474	599707.1	4175897	0.00758182	7.58E-03	1.23E-03	6.44E-04
1475	599697.6	4175896	0.007308623	7.31E-03	1.19E-03	6.21E-04
1476	599688.1	4175896	0.007088055	7.09E-03	1.15E-03	6.02E-04
1477	599678.6	4175896	0.006910861	6.91E-03	1.12E-03	5.87E-04
1478	599669	4175895	0.00674479	6.74E-03	1.10E-03	5.73E-04
1479	599725.8	4175891	0.007613317	7.61E-03	1.24E-03	6.46E-04
1480	599734.5	4175895	0.008271478	8.27E-03	1.35E-03	7.02E-04
1481	599743.2	4175899	0.008819682	8.82E-03	1.43E-03	7.49E-04
1482	599751.8	4175903	0.00924857	9.25E-03	1.50E-03	7.85E-04
1483	599760.5	4175907	0.009616718	9.62E-03	1.56E-03	8.17E-04
1484	599769.2	4175911	0.009901199	9.90E-03	1.61E-03	8.41E-04
1485	599777.9	4175914	0.01009089	1.01E-02	1.64E-03	8.57E-04
1486	599786.6	4175918	0.01019606	1.02E-02	1.66E-03	8.66E-04
1487	599795.2	4175922	0.010254	1.03E-02	1.67E-03	8.71E-04
1488	599803.9	4175926	0.01028213	1.03E-02	1.67E-03	8.73E-04
1489	599812.6	4175930	0.01008929	1.01E-02	1.64E-03	8.57E-04
1490	599821.3	4175934	0.01010292	1.01E-02	1.64E-03	8.58E-04
1491	599829.9	4175937	0.01005335	1.01E-02	1.64E-03	8.54E-04
1492	599838.6	4175941	0.009955266	9.96E-03	1.62E-03	8.45E-04
1493	599847.3	4175945	0.009717318	9.72E-03	1.58E-03	8.25E-04
1494	599859.8	4175958	0.009233087	9.23E-03	1.50E-03	7.84E-04
1495	599863.6	4175966	0.009000404	9.00E-03	1.46E-03	7.64E-04
1496	599867.4	4175975	0.008718547	8.72E-03	1.42E-03	7.40E-04
1497	599871.2	4175984	0.008396948	8.40E-03	1.37E-03	7.13E-04
1498	599875	4175993	0.008219384	8.22E-03	1.34E-03	6.98E-04
1499	599878.8	4176001	0.008102071	8.10E-03	1.32E-03	6.88E-04
1500	599882.6	4176010	0.007971277	7.97E-03	1.30E-03	6.77E-04
1501	599886.4	4176019	0.007871374	7.87E-03	1.28E-03	6.68E-04

1502	599890.2	4176027	0.00787474	7.87E-03	1.28E-03	6.69E-04
1503	599894	4176036	0.007913429	7.91E-03	1.29E-03	6.72E-04
1504	599897.9	4176045	0.007997614	8.00E-03	1.30E-03	6.79E-04
1505	599717.1	4175887	0.006932127	6.93E-03	1.13E-03	5.89E-04
1506	599707.6	4175887	0.006560627	6.56E-03	1.07E-03	5.57E-04
1507	599698.1	4175886	0.006270184	6.27E-03	1.02E-03	5.32E-04
1508	599688.6	4175886	0.006011074	6.01E-03	9.78E-04	5.10E-04
1509	599679	4175886	0.005804579	5.80E-03	9.44E-04	4.93E-04
1510	599669.5	4175885	0.005607515	5.61E-03	9.12E-04	4.76E-04
1511	599726.2	4175881	0.006663112	6.66E-03	1.08E-03	5.66E-04
1512	599734.7	4175885	0.007304723	7.30E-03	1.19E-03	6.20E-04
1513	599743.3	4175889	0.007887626	7.89E-03	1.28E-03	6.70E-04
1514	599751.8	4175893	0.008394071	8.39E-03	1.37E-03	7.13E-04
1515	599760.4	4175896	0.008842459	8.84E-03	1.44E-03	7.51E-04
1516	599768.9	4175900	0.009197809	9.20E-03	1.50E-03	7.81E-04
1517	599777.5	4175904	0.009466483	9.47E-03	1.54E-03	8.04E-04
1518	599786.1	4175908	0.009639613	9.64E-03	1.57E-03	8.19E-04
1519	599794.6	4175912	0.009733526	9.73E-03	1.58E-03	8.26E-04
1520	599803.2	4175915	0.009791553	9.79E-03	1.59E-03	8.31E-04
1521	599811.7	4175919	0.009822085	9.82E-03	1.60E-03	8.34E-04
1522	599820.3	4175923	0.009524821	9.52E-03	1.55E-03	8.09E-04
1523	599828.8	4175927	0.009496453	9.50E-03	1.54E-03	8.06E-04
1524	599837.4	4175931	0.009476226	9.48E-03	1.54E-03	8.05E-04
1525	599846	4175934	0.009365408	9.37E-03	1.52E-03	7.95E-04
1526	599854.5	4175938	0.009086116	9.09E-03	1.48E-03	7.72E-04
1527	599866.8	4175951	0.008704815	8.70E-03	1.42E-03	7.39E-04
1528	599870.6	4175959	0.008550622	8.55E-03	1.39E-03	7.26E-04
1529	599874.3	4175968	0.008304295	8.30E-03	1.35E-03	7.05E-04
1530	599878.1	4175976	0.008058991	8.06E-03	1.31E-03	6.84E-04
1531	599881.8	4175985	0.007803575	7.80E-03	1.27E-03	6.63E-04
1532	599885.6	4175993	0.007685298	7.69E-03	1.25E-03	6.53E-04
1533	599889.3	4176002	0.007572107	7.57E-03	1.23E-03	6.43E-04
1534	599893.1	4176011	0.007447394	7.45E-03	1.21E-03	6.32E-04
1535	599896.8	4176019	0.00736616	7.37E-03	1.20E-03	6.25E-04
1536	599900.6	4176028	0.007383747	7.38E-03	1.20E-03	6.27E-04
1537	599717.6	4175877	0.006013758	6.01E-03	9.78E-04	5.11E-04
1538	599708.1	4175877	0.005714596	5.71E-03	9.30E-04	4.85E-04
1539	599698.6	4175876	0.005388608	5.39E-03	8.77E-04	4.58E-04
1540	599689	4175876	0.005103162	5.10E-03	8.30E-04	4.33E-04
1541	599679.5	4175876	0.004885885	4.89E-03	7.95E-04	4.15E-04
1542	599670	4175875	0.004681837	4.68E-03	7.62E-04	3.98E-04
1543	599726.5	4175871	0.005854731	5.85E-03	9.52E-04	4.97E-04
1544	599735	4175875	0.006463571	6.46E-03	1.05E-03	5.49E-04
1545	599743.4	4175879	0.007020908	7.02E-03	1.14E-03	5.96E-04
1546	599751.9	4175882	0.007506919	7.51E-03	1.22E-03	6.37E-04
1547	599760.3	4175886	0.007913295	7.91E-03	1.29E-03	6.72E-04
1548	599768.8	4175890	0.008586716	8.59E-03	1.40E-03	7.29E-04

1549	599777.2	4175894	0.008848791	8.85E-03	1.44E-03	7.51E-04
1550	599785.7	4175897	0.009049473	9.05E-03	1.47E-03	7.68E-04
1551	599794.1	4175901	0.009172036	9.17E-03	1.49E-03	7.79E-04
1552	599802.6	4175905	0.009258965	9.26E-03	1.51E-03	7.86E-04
1553	599811	4175909	0.009313847	9.31E-03	1.52E-03	7.91E-04
1554	599819.5	4175912	0.009067936	9.07E-03	1.48E-03	7.70E-04
1555	599827.9	4175916	0.00906847	9.07E-03	1.48E-03	7.70E-04
1556	599836.4	4175920	0.009040191	9.04E-03	1.47E-03	7.68E-04
1557	599844.8	4175924	0.008974927	8.97E-03	1.46E-03	7.62E-04
1558	599853.3	4175927	0.00879207	8.79E-03	1.43E-03	7.47E-04
1559	599861.7	4175931	0.008570093	8.57E-03	1.39E-03	7.28E-04
1560	599873.9	4175943	0.008250643	8.25E-03	1.34E-03	7.01E-04
1561	599877.6	4175952	0.008148871	8.15E-03	1.33E-03	6.92E-04
1562	599881.3	4175960	0.007977091	7.98E-03	1.30E-03	6.77E-04
1563	599885	4175969	0.007763106	7.76E-03	1.26E-03	6.59E-04
1564	599888.7	4175977	0.007536888	7.54E-03	1.23E-03	6.40E-04
1565	599892.4	4175986	0.007301416	7.30E-03	1.19E-03	6.20E-04
1566	599896.1	4175994	0.007202655	7.20E-03	1.17E-03	6.12E-04
1567	599899.8	4176003	0.007094417	7.09E-03	1.15E-03	6.02E-04
1568	599903.5	4176011	0.006975754	6.98E-03	1.13E-03	5.92E-04
1569	599718.1	4175867	0.005312416	5.31E-03	8.64E-04	4.51E-04
1570	599708.6	4175867	0.004985641	4.99E-03	8.11E-04	4.23E-04
1571	599699	4175866	0.004642643	4.64E-03	7.55E-04	3.94E-04
1572	599689.5	4175866	0.004346342	4.35E-03	7.07E-04	3.69E-04
1573	599680	4175866	0.004138275	4.14E-03	6.73E-04	3.51E-04
1574	599670.5	4175865	0.003950953	3.95E-03	6.43E-04	3.35E-04
1575	599726.9	4175861	0.005299721	5.30E-03	8.62E-04	4.50E-04
1576	599735.3	4175865	0.005853886	5.85E-03	9.52E-04	4.97E-04
1577	599743.6	4175869	0.006418624	6.42E-03	1.04E-03	5.45E-04
1578	599752	4175872	0.006938014	6.94E-03	1.13E-03	5.89E-04
1579	599760.3	4175876	0.007355706	7.36E-03	1.20E-03	6.25E-04
1580	599768.7	4175880	0.007714452	7.71E-03	1.26E-03	6.55E-04
1581	599777	4175883	0.008021088	8.02E-03	1.30E-03	6.81E-04
1582	599785.4	4175887	0.008423076	8.42E-03	1.37E-03	7.15E-04
1583	599793.7	4175891	0.008671449	8.67E-03	1.41E-03	7.36E-04
1584	599802.1	4175895	0.008719822	8.72E-03	1.42E-03	7.40E-04
1585	599810.4	4175898	0.008771472	8.77E-03	1.43E-03	7.45E-04
1586	599818.8	4175902	0.008838455	8.84E-03	1.44E-03	7.50E-04
1587	599827.1	4175906	0.00861412	8.61E-03	1.40E-03	7.31E-04
1588	599835.5	4175909	0.008626799	8.63E-03	1.40E-03	7.33E-04
1589	599843.8	4175913	0.008608723	8.61E-03	1.40E-03	7.31E-04
1590	599852.2	4175917	0.008485655	8.49E-03	1.38E-03	7.21E-04
1591	599860.5	4175920	0.008327903	8.33E-03	1.35E-03	7.07E-04
1592	599868.9	4175924	0.008143771	8.14E-03	1.32E-03	6.91E-04
1593	599880.9	4175936	0.007867859	7.87E-03	1.28E-03	6.68E-04
1594	599884.6	4175945	0.007779596	7.78E-03	1.27E-03	6.61E-04
1595	599888.2	4175953	0.007651696	7.65E-03	1.24E-03	6.50E-04

1596	599891.9	4175961	0.007474235	7.47E-03	1.22E-03	6.35E-04
1597	599895.6	4175970	0.007275436	7.28E-03	1.18E-03	6.18E-04
1598	599899.2	4175978	0.007065589	7.07E-03	1.15E-03	6.00E-04
1599	599902.9	4175987	0.006857343	6.86E-03	1.12E-03	5.82E-04
1600	599906.6	4175995	0.006772876	6.77E-03	1.10E-03	5.75E-04
1601	599718.6	4175857	0.004841086	4.84E-03	7.88E-04	4.11E-04
1602	599709	4175857	0.004528978	4.53E-03	7.37E-04	3.85E-04
1603	599699.5	4175857	0.004209959	4.21E-03	6.85E-04	3.57E-04
1604	599690	4175856	0.00393562	3.94E-03	6.40E-04	3.34E-04
1605	599680.5	4175856	0.00373777	3.74E-03	6.08E-04	3.17E-04
1606	599671	4175855	0.003557981	3.56E-03	5.79E-04	3.02E-04
1607	599727.7	4175851	0.004923166	4.92E-03	8.01E-04	4.18E-04
1608	599736.4	4175855	0.005428157	5.43E-03	8.83E-04	4.61E-04
1609	599745.1	4175859	0.005963118	5.96E-03	9.70E-04	5.06E-04
1610	599753.8	4175863	0.006509393	6.51E-03	1.06E-03	5.53E-04
1611	599762.5	4175867	0.006950886	6.95E-03	1.13E-03	5.90E-04
1612	599771.2	4175871	0.007319389	7.32E-03	1.19E-03	6.21E-04
1613	599779.9	4175874	0.007640247	7.64E-03	1.24E-03	6.49E-04
1614	599788.6	4175878	0.007857717	7.86E-03	1.28E-03	6.67E-04
1615	599797.3	4175882	0.008029837	8.03E-03	1.31E-03	6.82E-04
1616	599806	4175886	0.008199779	8.20E-03	1.33E-03	6.96E-04
1617	599814.7	4175890	0.008311784	8.31E-03	1.35E-03	7.06E-04
1618	599823.4	4175894	0.008398505	8.40E-03	1.37E-03	7.13E-04
1619	599832.1	4175898	0.008165599	8.17E-03	1.33E-03	6.93E-04
1620	599840.8	4175902	0.008196146	8.20E-03	1.33E-03	6.96E-04
1621	599849.5	4175905	0.008157161	8.16E-03	1.33E-03	6.93E-04
1622	599858.2	4175909	0.008062135	8.06E-03	1.31E-03	6.85E-04
1623	599866.9	4175913	0.007929074	7.93E-03	1.29E-03	6.73E-04
1624	599875.6	4175917	0.007764486	7.76E-03	1.26E-03	6.59E-04
1625	599888.2	4175930	0.007526018	7.53E-03	1.22E-03	6.39E-04
1626	599892	4175938	0.007440721	7.44E-03	1.21E-03	6.32E-04
1627	599895.8	4175947	0.00731635	7.32E-03	1.19E-03	6.21E-04
1628	599899.6	4175956	0.0071583	7.16E-03	1.16E-03	6.08E-04
1629	599903.4	4175964	0.006970653	6.97E-03	1.13E-03	5.92E-04
1630	599907.2	4175973	0.006789767	6.79E-03	1.10E-03	5.77E-04
1631	599911.1	4175982	0.006587601	6.59E-03	1.07E-03	5.59E-04
1632	599719	4175847	0.00450061	4.50E-03	7.32E-04	3.82E-04
1633	599709.5	4175847	0.004201788	4.20E-03	6.84E-04	3.57E-04
1634	599700	4175847	0.003903737	3.90E-03	6.35E-04	3.31E-04
1635	599690.5	4175846	0.00364018	3.64E-03	5.92E-04	3.09E-04
1636	599681	4175846	0.003446615	3.45E-03	5.61E-04	2.93E-04
1637	599671.4	4175845	0.003273233	3.27E-03	5.32E-04	2.78E-04
1638	599728.1	4175841	0.004624804	4.62E-03	7.52E-04	3.93E-04
1639	599736.7	4175845	0.005031937	5.03E-03	8.19E-04	4.27E-04
1640	599745.3	4175849	0.005484092	5.48E-03	8.92E-04	4.66E-04
1641	599753.9	4175853	0.005966054	5.97E-03	9.71E-04	5.07E-04
1642	599762.5	4175857	0.006409816	6.41E-03	1.04E-03	5.44E-04

1643	599771.1	4175860	0.006816979	6.82E-03	1.11E-03	5.79E-04
1644	599779.7	4175864	0.00717611	7.18E-03	1.17E-03	6.09E-04
1645	599788.3	4175868	0.007419442	7.42E-03	1.21E-03	6.30E-04
1646	599796.9	4175872	0.007570254	7.57E-03	1.23E-03	6.43E-04
1647	599805.5	4175876	0.007680656	7.68E-03	1.25E-03	6.52E-04
1648	599814.1	4175879	0.007752014	7.75E-03	1.26E-03	6.58E-04
1649	599822.7	4175883	0.007803679	7.80E-03	1.27E-03	6.63E-04
1650	599831.3	4175887	0.007827153	7.83E-03	1.27E-03	6.65E-04
1651	599839.9	4175891	0.007823683	7.82E-03	1.27E-03	6.64E-04
1652	599848.5	4175895	0.007781613	7.78E-03	1.27E-03	6.61E-04
1653	599857	4175899	0.007730275	7.73E-03	1.26E-03	6.56E-04
1654	599865.6	4175902	0.007657122	7.66E-03	1.25E-03	6.50E-04
1655	599874.2	4175906	0.007550916	7.55E-03	1.23E-03	6.41E-04
1656	599882.8	4175910	0.007417128	7.42E-03	1.21E-03	6.30E-04
1657	599895.2	4175922	0.007222718	7.22E-03	1.18E-03	6.13E-04
1658	599899	4175931	0.007149818	7.15E-03	1.16E-03	6.07E-04
1659	599902.7	4175940	0.007039534	7.04E-03	1.15E-03	5.98E-04
1660	599906.5	4175948	0.006921256	6.92E-03	1.13E-03	5.88E-04
1661	599910.3	4175957	0.006781225	6.78E-03	1.10E-03	5.76E-04
1662	599914.1	4175965	0.006615273	6.62E-03	1.08E-03	5.62E-04
1663	599719.5	4175837	0.004278351	4.28E-03	6.96E-04	3.63E-04
1664	599710	4175837	0.003992297	3.99E-03	6.49E-04	3.39E-04
1665	599700.5	4175837	0.003710633	3.71E-03	6.04E-04	3.15E-04
1666	599691	4175836	0.003456239	3.46E-03	5.62E-04	2.93E-04
1667	599681.4	4175836	0.003256313	3.26E-03	5.30E-04	2.76E-04
1668	599671.9	4175835	0.0030739	3.07E-03	5.00E-04	2.61E-04
1669	599728.5	4175831	0.004334227	4.33E-03	7.05E-04	3.68E-04
1670	599737	4175835	0.004725123	4.73E-03	7.69E-04	4.01E-04
1671	599745.5	4175839	0.005094531	5.09E-03	8.29E-04	4.33E-04
1672	599754	4175843	0.005493894	5.49E-03	8.94E-04	4.66E-04
1673	599762.5	4175846	0.005921537	5.92E-03	9.63E-04	5.03E-04
1674	599771	4175850	0.006324978	6.32E-03	1.03E-03	5.37E-04
1675	599779.5	4175854	0.00669535	6.70E-03	1.09E-03	5.69E-04
1676	599788	4175858	0.006976465	6.98E-03	1.13E-03	5.92E-04
1677	599796.5	4175861	0.007162705	7.16E-03	1.17E-03	6.08E-04
1678	599805	4175865	0.007292682	7.29E-03	1.19E-03	6.19E-04
1679	599813.5	4175869	0.007383392	7.38E-03	1.20E-03	6.27E-04
1680	599822	4175873	0.007450953	7.45E-03	1.21E-03	6.33E-04
1681	599830.5	4175877	0.007494076	7.49E-03	1.22E-03	6.36E-04
1682	599839	4175880	0.007513592	7.51E-03	1.22E-03	6.38E-04
1683	599847.5	4175884	0.007507704	7.51E-03	1.22E-03	6.37E-04
1684	599856	4175888	0.007466257	7.47E-03	1.21E-03	6.34E-04
1685	599864.5	4175892	0.007394499	7.39E-03	1.20E-03	6.28E-04
1686	599873	4175895	0.007295247	7.30E-03	1.19E-03	6.19E-04
1687	599881.5	4175899	0.007226499	7.23E-03	1.18E-03	6.14E-04
1688	599890	4175903	0.007122784	7.12E-03	1.16E-03	6.05E-04
1689	599902.2	4175915	0.006958982	6.96E-03	1.13E-03	5.91E-04

1690	599906	4175924	0.006914183	6.91E-03	1.12E-03	5.87E-04
1691	599909.7	4175932	0.006845391	6.85E-03	1.11E-03	5.81E-04
1692	599913.4	4175941	0.006745028	6.75E-03	1.10E-03	5.73E-04
1693	599917.2	4175949	0.006614843	6.61E-03	1.08E-03	5.62E-04
1694	599720	4175827	0.003957597	3.96E-03	6.44E-04	3.36E-04
1695	599710.5	4175827	0.003690287	3.69E-03	6.00E-04	3.13E-04
1696	599701	4175827	0.003433283	3.43E-03	5.59E-04	2.92E-04
1697	599691.4	4175826	0.003201371	3.20E-03	5.21E-04	2.72E-04
1698	599681.9	4175826	0.003019106	3.02E-03	4.91E-04	2.56E-04
1699	599672.4	4175825	0.002860301	2.86E-03	4.65E-04	2.43E-04
1700	599728.9	4175821	0.004007007	4.01E-03	6.52E-04	3.40E-04
1701	599737.3	4175825	0.004366747	4.37E-03	7.10E-04	3.71E-04
1702	599745.7	4175829	0.004733783	4.73E-03	7.70E-04	4.02E-04
1703	599754.1	4175832	0.005096993	5.10E-03	8.29E-04	4.33E-04
1704	599762.6	4175836	0.005501857	5.50E-03	8.95E-04	4.67E-04
1705	599771	4175840	0.00589342	5.89E-03	9.59E-04	5.00E-04
1706	599779.4	4175844	0.006261969	6.26E-03	1.02E-03	5.32E-04
1707	599787.8	4175847	0.006560642	6.56E-03	1.07E-03	5.57E-04
1708	599796.2	4175851	0.00677608	6.78E-03	1.10E-03	5.75E-04
1709	599804.6	4175855	0.00694141	6.94E-03	1.13E-03	5.89E-04
1710	599813	4175859	0.007056039	7.06E-03	1.15E-03	5.99E-04
1711	599821.5	4175862	0.007122251	7.12E-03	1.16E-03	6.05E-04
1712	599829.9	4175866	0.007145369	7.15E-03	1.16E-03	6.07E-04
1713	599838.3	4175870	0.007180277	7.18E-03	1.17E-03	6.10E-04
1714	599846.7	4175874	0.007201809	7.20E-03	1.17E-03	6.12E-04
1715	599855.1	4175877	0.007203307	7.20E-03	1.17E-03	6.12E-04
1716	599863.5	4175881	0.007172448	7.17E-03	1.17E-03	6.09E-04
1717	599872	4175885	0.007112345	7.11E-03	1.16E-03	6.04E-04
1718	599880.4	4175888	0.007057477	7.06E-03	1.15E-03	5.99E-04
1719	599888.8	4175892	0.006980811	6.98E-03	1.14E-03	5.93E-04
1720	599897.2	4175896	0.006877422	6.88E-03	1.12E-03	5.84E-04
1721	599909.3	4175908	0.006771601	6.77E-03	1.10E-03	5.75E-04
1722	599913	4175917	0.006742328	6.74E-03	1.10E-03	5.72E-04
1723	599916.7	4175925	0.006685266	6.69E-03	1.09E-03	5.68E-04
1724	599920.4	4175933	0.006591694	6.59E-03	1.07E-03	5.60E-04
1725	599720.5	4175817	0.003671424	3.67E-03	5.97E-04	3.12E-04
1726	599711	4175817	0.003433595	3.43E-03	5.59E-04	2.92E-04
1727	599701.4	4175817	0.00321015	3.21E-03	5.22E-04	2.73E-04
1728	599691.9	4175816	0.003010461	3.01E-03	4.90E-04	2.56E-04
1729	599682.4	4175816	0.002845368	2.85E-03	4.63E-04	2.42E-04
1730	599672.9	4175815	0.0027059	2.71E-03	4.40E-04	2.30E-04
1731	599729.3	4175811	0.003749752	3.75E-03	6.10E-04	3.18E-04
1732	599737.6	4175815	0.004082221	4.08E-03	6.64E-04	3.47E-04
1733	599746	4175819	0.004425337	4.43E-03	7.20E-04	3.76E-04
1734	599754.3	4175822	0.004767312	4.77E-03	7.76E-04	4.05E-04
1735	599762.6	4175826	0.005123923	5.12E-03	8.34E-04	4.35E-04
1736	599771	4175830	0.005492841	5.49E-03	8.94E-04	4.66E-04

1737	599779.3	4175833	0.005861657	5.86E-03	9.54E-04	4.98E-04
1738	599787.7	4175837	0.006186311	6.19E-03	1.01E-03	5.25E-04
1739	599796	4175841	0.006423695	6.42E-03	1.05E-03	5.45E-04
1740	599804.3	4175845	0.006617082	6.62E-03	1.08E-03	5.62E-04
1741	599812.7	4175848	0.006764009	6.76E-03	1.10E-03	5.74E-04
1742	599821	4175852	0.006863379	6.86E-03	1.12E-03	5.83E-04
1743	599829.3	4175856	0.00691841	6.92E-03	1.13E-03	5.87E-04
1744	599837.7	4175859	0.006934114	6.93E-03	1.13E-03	5.89E-04
1745	599846	4175863	0.006919729	6.92E-03	1.13E-03	5.88E-04
1746	599854.3	4175867	0.006912597	6.91E-03	1.12E-03	5.87E-04
1747	599862.7	4175870	0.006919448	6.92E-03	1.13E-03	5.88E-04
1748	599871	4175874	0.006897471	6.90E-03	1.12E-03	5.86E-04
1749	599879.4	4175878	0.0068815	6.88E-03	1.12E-03	5.84E-04
1750	599887.7	4175882	0.006849262	6.85E-03	1.11E-03	5.82E-04
1751	599896	4175885	0.006788892	6.79E-03	1.10E-03	5.76E-04
1752	599904.4	4175889	0.006703105	6.70E-03	1.09E-03	5.69E-04
1753	599916.4	4175901	0.006614605	6.61E-03	1.08E-03	5.62E-04
1754	599920	4175909	0.006588981	6.59E-03	1.07E-03	5.59E-04
1755	599923.7	4175918	0.00653791	6.54E-03	1.06E-03	5.55E-04
1756	599927.3	4175926	0.006462355	6.46E-03	1.05E-03	5.49E-04
1757	599721	4175807	0.003447371	3.45E-03	5.61E-04	2.93E-04
1758	599711.4	4175807	0.003239971	3.24E-03	5.27E-04	2.75E-04
1759	599701.9	4175807	0.003049565	3.05E-03	4.96E-04	2.59E-04
1760	599692.4	4175806	0.002876776	2.88E-03	4.68E-04	2.44E-04
1761	599682.9	4175806	0.002721219	2.72E-03	4.43E-04	2.31E-04
1762	599673.3	4175805	0.002583738	2.58E-03	4.20E-04	2.19E-04
1763	599730.1	4175801	0.003482071	3.48E-03	5.66E-04	2.96E-04
1764	599738.7	4175805	0.00387961	3.88E-03	6.31E-04	3.29E-04
1765	599747.3	4175809	0.004229044	4.23E-03	6.88E-04	3.59E-04
1766	599755.9	4175813	0.004558414	4.56E-03	7.42E-04	3.87E-04
1767	599764.6	4175817	0.004877907	4.88E-03	7.94E-04	4.14E-04
1768	599773.2	4175820	0.005218102	5.22E-03	8.49E-04	4.43E-04
1769	599781.8	4175824	0.005567743	5.57E-03	9.06E-04	4.73E-04
1770	599790.4	4175828	0.005881098	5.88E-03	9.57E-04	4.99E-04
1771	599799.1	4175832	0.006161071	6.16E-03	1.00E-03	5.23E-04
1772	599807.7	4175836	0.006409207	6.41E-03	1.04E-03	5.44E-04
1773	599816.3	4175840	0.006569703	6.57E-03	1.07E-03	5.58E-04
1774	599824.9	4175843	0.006681085	6.68E-03	1.09E-03	5.67E-04
1775	599833.6	4175847	0.00674479	6.74E-03	1.10E-03	5.73E-04
1776	599842.2	4175851	0.006768205	6.77E-03	1.10E-03	5.75E-04
1777	599850.8	4175855	0.006760227	6.76E-03	1.10E-03	5.74E-04
1778	599859.4	4175859	0.006736427	6.74E-03	1.10E-03	5.72E-04
1779	599868	4175863	0.006695736	6.70E-03	1.09E-03	5.69E-04
1780	599876.7	4175866	0.006667768	6.67E-03	1.08E-03	5.66E-04
1781	599885.3	4175870	0.006688262	6.69E-03	1.09E-03	5.68E-04
1782	599893.9	4175874	0.006673284	6.67E-03	1.09E-03	5.67E-04
1783	599902.5	4175878	0.006627151	6.63E-03	1.08E-03	5.63E-04

1784	599911.2	4175882	0.006567775	6.57E-03	1.07E-03	5.58E-04
1785	599923.6	4175894	0.006481203	6.48E-03	1.05E-03	5.50E-04
1786	599927.4	4175903	0.006452745	6.45E-03	1.05E-03	5.48E-04
1787	599931.1	4175912	0.006400102	6.40E-03	1.04E-03	5.43E-04
1788	599721.4	4175797	0.003110216	3.11E-03	5.06E-04	2.64E-04
1789	599711.9	4175797	0.002907413	2.91E-03	4.73E-04	2.47E-04
1790	599702.4	4175797	0.002721411	2.72E-03	4.43E-04	2.31E-04
1791	599692.9	4175796	0.002552226	2.55E-03	4.15E-04	2.17E-04
1792	599683.4	4175796	0.002404172	2.40E-03	3.91E-04	2.04E-04
1793	599673.8	4175795	0.002280571	2.28E-03	3.71E-04	1.94E-04
1794	599730.5	4175791	0.003152776	3.15E-03	5.13E-04	2.68E-04
1795	599739	4175795	0.003540913	3.54E-03	5.76E-04	3.01E-04
1796	599747.5	4175799	0.00393602	3.94E-03	6.40E-04	3.34E-04
1797	599756.1	4175803	0.004304658	4.30E-03	7.00E-04	3.66E-04
1798	599764.6	4175806	0.004613326	4.61E-03	7.51E-04	3.92E-04
1799	599773.2	4175810	0.004901663	4.90E-03	7.97E-04	4.16E-04
1800	599781.7	4175814	0.005207514	5.21E-03	8.47E-04	4.42E-04
1801	599790.2	4175818	0.005501917	5.50E-03	8.95E-04	4.67E-04
1802	599798.8	4175822	0.0057794	5.78E-03	9.40E-04	4.91E-04
1803	599807.3	4175825	0.006033215	6.03E-03	9.82E-04	5.12E-04
1804	599815.9	4175829	0.006251677	6.25E-03	1.02E-03	5.31E-04
1805	599824.4	4175833	0.006439281	6.44E-03	1.05E-03	5.47E-04
1806	599832.9	4175837	0.006585021	6.59E-03	1.07E-03	5.59E-04
1807	599841.5	4175841	0.006636997	6.64E-03	1.08E-03	5.64E-04
1808	599850	4175844	0.00663203	6.63E-03	1.08E-03	5.63E-04
1809	599858.6	4175848	0.006608836	6.61E-03	1.08E-03	5.61E-04
1810	599867.1	4175852	0.006572713	6.57E-03	1.07E-03	5.58E-04
1811	599875.6	4175856	0.006542907	6.54E-03	1.06E-03	5.56E-04
1812	599884.2	4175860	0.006550306	6.55E-03	1.07E-03	5.56E-04
1813	599892.7	4175863	0.006540103	6.54E-03	1.06E-03	5.55E-04
1814	599901.3	4175867	0.006521063	6.52E-03	1.06E-03	5.54E-04
1815	599909.8	4175871	0.006491968	6.49E-03	1.06E-03	5.51E-04
1816	599918.3	4175875	0.00644499	6.44E-03	1.05E-03	5.47E-04
1817	599930.6	4175887	0.006370311	6.37E-03	1.04E-03	5.41E-04
1818	599934.4	4175896	0.00633779	6.34E-03	1.03E-03	5.38E-04
1819	599721.9	4175788	0.002798834	2.80E-03	4.55E-04	2.38E-04
1820	599712.4	4175787	0.002607969	2.61E-03	4.24E-04	2.21E-04
1821	599702.9	4175787	0.002433919	2.43E-03	3.96E-04	2.07E-04
1822	599693.4	4175786	0.00227722	2.28E-03	3.70E-04	1.93E-04
1823	599683.8	4175786	0.002142334	2.14E-03	3.49E-04	1.82E-04
1824	599731.3	4175771	0.002635032	2.64E-03	4.29E-04	2.24E-04
1825	599739.7	4175775	0.003014361	3.01E-03	4.90E-04	2.56E-04
1826	599748.1	4175779	0.003414703	3.41E-03	5.56E-04	2.90E-04
1827	599756.4	4175782	0.003759332	3.76E-03	6.12E-04	3.19E-04
1828	599764.8	4175786	0.004003478	4.00E-03	6.51E-04	3.40E-04
1829	599773.2	4175790	0.004264249	4.26E-03	6.94E-04	3.62E-04
1830	599781.6	4175794	0.004536985	4.54E-03	7.38E-04	3.85E-04

1831	599790	4175797	0.004817849	4.82E-03	7.84E-04	4.09E-04
1832	599798.4	4175801	0.00509554	5.10E-03	8.29E-04	4.33E-04
1833	599806.8	4175805	0.005365326	5.37E-03	8.73E-04	4.56E-04
1834	599815.2	4175809	0.005590195	5.59E-03	9.09E-04	4.75E-04
1835	599823.6	4175812	0.005750631	5.75E-03	9.36E-04	4.88E-04
1836	599832	4175816	0.005904839	5.90E-03	9.61E-04	5.01E-04
1837	599840.4	4175820	0.006047466	6.05E-03	9.84E-04	5.13E-04
1838	599848.8	4175823	0.006170903	6.17E-03	1.00E-03	5.24E-04
1839	599857.1	4175827	0.006253309	6.25E-03	1.02E-03	5.31E-04
1840	599865.5	4175831	0.006296387	6.30E-03	1.02E-03	5.35E-04
1841	599873.9	4175835	0.006307568	6.31E-03	1.03E-03	5.36E-04
1842	599882.3	4175838	0.006347889	6.35E-03	1.03E-03	5.39E-04
1843	599890.7	4175842	0.006359678	6.36E-03	1.03E-03	5.40E-04
1844	599899.1	4175846	0.006357883	6.36E-03	1.03E-03	5.40E-04
1845	599907.5	4175850	0.006353376	6.35E-03	1.03E-03	5.39E-04
1846	599915.9	4175853	0.00634132	6.34E-03	1.03E-03	5.38E-04
1847	599924.3	4175857	0.006311676	6.31E-03	1.03E-03	5.36E-04
1848	599932.7	4175861	0.0062636	6.26E-03	1.02E-03	5.32E-04
1849	599722.9	4175768	0.002313507	2.31E-03	3.76E-04	1.96E-04
1850	599713.4	4175767	0.002142379	2.14E-03	3.49E-04	1.82E-04
1851	599732.4	4175751	0.002234927	2.23E-03	3.64E-04	1.90E-04
1852	599741	4175755	0.002546695	2.55E-03	4.14E-04	2.16E-04
1853	599749.6	4175759	0.002907383	2.91E-03	4.73E-04	2.47E-04
1854	599758.1	4175763	0.003262793	3.26E-03	5.31E-04	2.77E-04
1855	599766.7	4175767	0.003560117	3.56E-03	5.79E-04	3.02E-04
1856	599775.3	4175770	0.003829444	3.83E-03	6.23E-04	3.25E-04
1857	599783.8	4175774	0.004059725	4.06E-03	6.60E-04	3.45E-04
1858	599792.4	4175778	0.004285795	4.29E-03	6.97E-04	3.64E-04
1859	599801	4175782	0.004532003	4.53E-03	7.37E-04	3.85E-04
1860	599809.5	4175786	0.004779649	4.78E-03	7.78E-04	4.06E-04
1861	599818.1	4175789	0.005006847	5.01E-03	8.15E-04	4.25E-04
1862	599826.7	4175793	0.005198973	5.20E-03	8.46E-04	4.41E-04
1863	599835.3	4175797	0.005359201	5.36E-03	8.72E-04	4.55E-04
1864	599843.8	4175801	0.005490127	5.49E-03	8.93E-04	4.66E-04
1865	599852.4	4175805	0.005639887	5.64E-03	9.18E-04	4.79E-04
1866	599861	4175808	0.005767803	5.77E-03	9.38E-04	4.90E-04
1867	599869.5	4175812	0.005863228	5.86E-03	9.54E-04	4.98E-04
1868	599878.1	4175816	0.005953864	5.95E-03	9.69E-04	5.06E-04
1869	599886.7	4175820	0.006046161	6.05E-03	9.84E-04	5.13E-04
1870	599895.2	4175824	0.006110875	6.11E-03	9.94E-04	5.19E-04
1871	599903.8	4175827	0.00615032	6.15E-03	1.00E-03	5.22E-04
1872	599912.4	4175831	0.006197581	6.20E-03	1.01E-03	5.26E-04
1873	599921	4175835	0.006245449	6.25E-03	1.02E-03	5.30E-04
1874	599929.5	4175839	0.006249853	6.25E-03	1.02E-03	5.31E-04
1875	599938.1	4175843	0.00609354	6.09E-03	9.91E-04	5.17E-04
1876	599946.7	4175847	0.005857223	5.86E-03	9.53E-04	4.97E-04
1877	599723.8	4175748	0.002220246	2.22E-03	3.61E-04	1.89E-04

1878	599714.3	4175747	0.002052559	2.05E-03	3.34E-04	1.74E-04
1879	599733.2	4175731	0.00207323	2.07E-03	3.37E-04	1.76E-04
1880	599741.7	4175735	0.002334267	2.33E-03	3.80E-04	1.98E-04
1881	599750.1	4175739	0.00238399	2.38E-03	3.88E-04	2.02E-04
1882	599758.5	4175743	0.002756601	2.76E-03	4.48E-04	2.34E-04
1883	599767	4175746	0.003170066	3.17E-03	5.16E-04	2.69E-04
1884	599775.4	4175750	0.003522466	3.52E-03	5.73E-04	2.99E-04
1885	599783.8	4175754	0.003844347	3.84E-03	6.25E-04	3.26E-04
1886	599792.3	4175758	0.003991882	3.99E-03	6.49E-04	3.39E-04
1887	599800.7	4175761	0.004151562	4.15E-03	6.75E-04	3.53E-04
1888	599809.2	4175765	0.004322839	4.32E-03	7.03E-04	3.67E-04
1889	599817.6	4175769	0.004502849	4.50E-03	7.33E-04	3.82E-04
1890	599826	4175773	0.004682919	4.68E-03	7.62E-04	3.98E-04
1891	599834.5	4175776	0.00486161	4.86E-03	7.91E-04	4.13E-04
1892	599842.9	4175780	0.005029135	5.03E-03	8.18E-04	4.27E-04
1893	599851.3	4175784	0.005225398	5.23E-03	8.50E-04	4.44E-04
1894	599859.8	4175788	0.005393946	5.39E-03	8.78E-04	4.58E-04
1895	599868.2	4175791	0.005523938	5.52E-03	8.99E-04	4.69E-04
1896	599876.6	4175795	0.005639546	5.64E-03	9.17E-04	4.79E-04
1897	599885.1	4175799	0.005751758	5.75E-03	9.36E-04	4.88E-04
1898	599893.5	4175803	0.005828202	5.83E-03	9.48E-04	4.95E-04
1899	599901.9	4175806	0.005870361	5.87E-03	9.55E-04	4.98E-04
1900	599910.4	4175810	0.005897276	5.90E-03	9.59E-04	5.01E-04
1901	599918.8	4175814	0.005919549	5.92E-03	9.63E-04	5.03E-04
1902	599927.2	4175818	0.005945337	5.95E-03	9.67E-04	5.05E-04
1903	599935.7	4175821	0.005929352	5.93E-03	9.65E-04	5.03E-04
1904	599944.1	4175825	0.00575118	5.75E-03	9.36E-04	4.88E-04
1905	599952.6	4175829	0.005544298	5.54E-03	9.02E-04	4.71E-04
1906	599724.8	4175728	0.001859765	1.86E-03	3.03E-04	1.58E-04
1907	599715.3	4175727	0.001732279	1.73E-03	2.82E-04	1.47E-04
1908	599734.3	4175711	0.001709932	1.71E-03	2.78E-04	1.45E-04
1909	599742.9	4175715	0.001898795	1.90E-03	3.09E-04	1.61E-04
1910	599751.5	4175719	0.002118014	2.12E-03	3.45E-04	1.80E-04
1911	599760.1	4175723	0.002224309	2.22E-03	3.62E-04	1.89E-04
1912	599768.7	4175727	0.002630553	2.63E-03	4.28E-04	2.23E-04
1913	599777.3	4175731	0.00308425	3.08E-03	5.02E-04	2.62E-04
1914	599785.9	4175734	0.003514562	3.51E-03	5.72E-04	2.98E-04
1915	599794.5	4175738	0.00377855	3.78E-03	6.15E-04	3.21E-04
1916	599803.1	4175742	0.003995693	4.00E-03	6.50E-04	3.39E-04
1917	599811.7	4175746	0.004159199	4.16E-03	6.77E-04	3.53E-04
1918	599820.3	4175750	0.004299393	4.30E-03	6.99E-04	3.65E-04
1919	599828.9	4175753	0.004445193	4.45E-03	7.23E-04	3.77E-04
1920	599837.5	4175757	0.004595368	4.60E-03	7.48E-04	3.90E-04
1921	599846.1	4175761	0.004764954	4.76E-03	7.75E-04	4.05E-04
1922	599854.7	4175765	0.004979176	4.98E-03	8.10E-04	4.23E-04
1923	599863.3	4175769	0.005179873	5.18E-03	8.43E-04	4.40E-04
1924	599871.9	4175772	0.00536239	5.36E-03	8.72E-04	4.55E-04

1925	599880.5	4175776	0.005575217	5.58E-03	9.07E-04	4.73E-04
1926	599889.1	4175780	0.00573552	5.74E-03	9.33E-04	4.87E-04
1927	599897.7	4175784	0.005852937	5.85E-03	9.52E-04	4.97E-04
1928	599906.2	4175788	0.005876767	5.88E-03	9.56E-04	4.99E-04
1929	599914.8	4175792	0.005779281	5.78E-03	9.40E-04	4.91E-04
1930	599923.4	4175795	0.005707374	5.71E-03	9.28E-04	4.85E-04
1931	599932	4175799	0.005654167	5.65E-03	9.20E-04	4.80E-04
1932	599940.6	4175803	0.005587792	5.59E-03	9.09E-04	4.74E-04
1933	599949.2	4175807	0.005500627	5.50E-03	8.95E-04	4.67E-04
1934	599957.8	4175811	0.005383388	5.38E-03	8.76E-04	4.57E-04
1935	599725.8	4175708	0.001550519	1.55E-03	2.52E-04	1.32E-04
1936	599716.2	4175707	0.001479754	1.48E-03	2.41E-04	1.26E-04
1937	599706.7	4175707	0.001430121	1.43E-03	2.33E-04	1.21E-04
1938	599697.2	4175706	0.001396192	1.40E-03	2.27E-04	1.19E-04
1939	599743.7	4175695	0.001532872	1.53E-03	2.49E-04	1.30E-04
1940	599752.1	4175699	0.001693412	1.69E-03	2.75E-04	1.44E-04
1941	599760.6	4175703	0.00182462	1.82E-03	2.97E-04	1.55E-04
1942	599769.1	4175706	0.002085034	2.09E-03	3.39E-04	1.77E-04
1943	599777.5	4175710	0.002505677	2.51E-03	4.08E-04	2.13E-04
1944	599786	4175714	0.003005241	3.01E-03	4.89E-04	2.55E-04
1945	599794.5	4175718	0.003420842	3.42E-03	5.57E-04	2.90E-04
1946	599803	4175721	0.003760814	3.76E-03	6.12E-04	3.19E-04
1947	599811.4	4175725	0.004060956	4.06E-03	6.61E-04	3.45E-04
1948	599819.9	4175729	0.004193469	4.19E-03	6.82E-04	3.56E-04
1949	599828.4	4175733	0.004290614	4.29E-03	6.98E-04	3.64E-04
1950	599836.8	4175737	0.00439771	4.40E-03	7.15E-04	3.73E-04
1951	599845.3	4175740	0.004528919	4.53E-03	7.37E-04	3.85E-04
1952	599853.8	4175744	0.00472361	4.72E-03	7.68E-04	4.01E-04
1953	599862.2	4175748	0.004916404	4.92E-03	8.00E-04	4.17E-04
1954	599870.7	4175752	0.005096904	5.10E-03	8.29E-04	4.33E-04
1955	599879.2	4175755	0.005248057	5.25E-03	8.54E-04	4.46E-04
1956	599887.7	4175759	0.00540271	5.40E-03	8.79E-04	4.59E-04
1957	599896.1	4175763	0.005577886	5.58E-03	9.07E-04	4.74E-04
1958	599904.6	4175767	0.005740073	5.74E-03	9.34E-04	4.87E-04
1959	599913.1	4175770	0.005686969	5.69E-03	9.25E-04	4.83E-04
1960	599921.5	4175774	0.005626511	5.63E-03	9.15E-04	4.78E-04
1961	599930	4175778	0.005532242	5.53E-03	9.00E-04	4.70E-04
1962	599938.5	4175782	0.005475743	5.48E-03	8.91E-04	4.65E-04
1963	599947	4175785	0.005436446	5.44E-03	8.84E-04	4.62E-04
1964	599955.4	4175789	0.005375009	5.38E-03	8.74E-04	4.56E-04
1965	599963.9	4175793	0.005298402	5.30E-03	8.62E-04	4.50E-04
1966	599972.4	4175797	0.005301308	5.30E-03	8.62E-04	4.50E-04
1967	599779.4	4175691	0.001943164	1.94E-03	3.16E-04	1.65E-04
1968	599788	4175694	0.002319423	2.32E-03	3.77E-04	1.97E-04
1969	599796.6	4175698	0.002761672	2.76E-03	4.49E-04	2.34E-04
1970	599805.2	4175702	0.003250663	3.25E-03	5.29E-04	2.76E-04
1971	599813.8	4175706	0.00376768	3.77E-03	6.13E-04	3.20E-04

1972	599822.4	4175710	0.004020606	4.02E-03	6.54E-04	3.41E-04
1973	599831.1	4175714	0.004238935	4.24E-03	6.90E-04	3.60E-04
1974	599839.7	4175717	0.004380449	4.38E-03	7.13E-04	3.72E-04
1975	599848.3	4175721	0.004509997	4.51E-03	7.34E-04	3.83E-04
1976	599856.9	4175725	0.004682119	4.68E-03	7.62E-04	3.98E-04
1977	599865.5	4175729	0.00485685	4.86E-03	7.90E-04	4.12E-04
1978	599874.1	4175733	0.00501782	5.02E-03	8.16E-04	4.26E-04
1979	599882.7	4175737	0.005039144	5.04E-03	8.20E-04	4.28E-04
1980	599891.4	4175740	0.005101234	5.10E-03	8.30E-04	4.33E-04
1981	599900	4175744	0.005196066	5.20E-03	8.45E-04	4.41E-04
1982	599908.6	4175748	0.005224167	5.22E-03	8.50E-04	4.44E-04
1983	599917.2	4175752	0.005189437	5.19E-03	8.44E-04	4.41E-04
1984	599925.8	4175756	0.005151371	5.15E-03	8.38E-04	4.37E-04
1985	599934.4	4175759	0.005127036	5.13E-03	8.34E-04	4.35E-04
1986	599943	4175763	0.005232501	5.23E-03	8.51E-04	4.44E-04
1987	599951.7	4175767	0.00528992	5.29E-03	8.61E-04	4.49E-04
1988	599960.3	4175771	0.005304378	5.30E-03	8.63E-04	4.50E-04
1989	599968.9	4175775	0.005306321	5.31E-03	8.63E-04	4.51E-04
1990	599977.5	4175779	0.005300004	5.30E-03	8.62E-04	4.50E-04
1991	599986.1	4175782	0.005288111	5.29E-03	8.60E-04	4.49E-04
1992	599796.6	4175678	0.002247917	2.25E-03	3.66E-04	1.91E-04
1993	599805.1	4175682	0.0026404	2.64E-03	4.30E-04	2.24E-04
1994	599813.6	4175685	0.003102268	3.10E-03	5.05E-04	2.63E-04
1995	599822.1	4175689	0.003403017	3.40E-03	5.54E-04	2.89E-04
1996	599830.6	4175693	0.003693653	3.69E-03	6.01E-04	3.14E-04
1997	599839.1	4175697	0.003957834	3.96E-03	6.44E-04	3.36E-04
1998	599847.6	4175701	0.004188086	4.19E-03	6.81E-04	3.56E-04
1999	599856.1	4175704	0.004418293	4.42E-03	7.19E-04	3.75E-04
2000	599864.6	4175708	0.004650903	4.65E-03	7.57E-04	3.95E-04
2001	599873.1	4175712	0.004886048	4.89E-03	7.95E-04	4.15E-04
2002	599881.6	4175716	0.004855915	4.86E-03	7.90E-04	4.12E-04
2003	599890.1	4175719	0.004783105	4.78E-03	7.78E-04	4.06E-04
2004	599898.6	4175723	0.004762299	4.76E-03	7.75E-04	4.04E-04
2005	599907.1	4175727	0.004779011	4.78E-03	7.77E-04	4.06E-04
2006	599915.6	4175731	0.004786441	4.79E-03	7.79E-04	4.06E-04
2007	599924.1	4175735	0.004774815	4.77E-03	7.77E-04	4.05E-04
2008	599932.6	4175738	0.004745617	4.75E-03	7.72E-04	4.03E-04
2009	599941.1	4175742	0.004895065	4.90E-03	7.96E-04	4.16E-04
2010	599949.6	4175746	0.005050325	5.05E-03	8.22E-04	4.29E-04
2011	599958.1	4175750	0.00517231	5.17E-03	8.41E-04	4.39E-04
2012	599966.6	4175753	0.005238121	5.24E-03	8.52E-04	4.45E-04
2013	599975.1	4175757	0.005260113	5.26E-03	8.56E-04	4.47E-04
2014	599983.6	4175761	0.005268951	5.27E-03	8.57E-04	4.47E-04
2015	599992.1	4175765	0.005267098	5.27E-03	8.57E-04	4.47E-04
2016	599790	4175655	0.001764458	1.76E-03	2.87E-04	1.50E-04
2017	599798.6	4175658	0.002066958	2.07E-03	3.36E-04	1.76E-04
2018	599807.3	4175662	0.002429352	2.43E-03	3.95E-04	2.06E-04

2019	599815.9	4175666	0.002811291	2.81E-03	4.57E-04	2.39E-04
2020	599824.5	4175670	0.003102283	3.10E-03	5.05E-04	2.63E-04
2021	599833.2	4175674	0.003400496	3.40E-03	5.53E-04	2.89E-04
2022	599841.8	4175678	0.003699822	3.70E-03	6.02E-04	3.14E-04
2023	599850.4	4175681	0.003907934	3.91E-03	6.36E-04	3.32E-04
2024	599859.1	4175685	0.004117633	4.12E-03	6.70E-04	3.50E-04
2025	599867.7	4175689	0.004336689	4.34E-03	7.06E-04	3.68E-04
2026	599876.3	4175693	0.004489429	4.49E-03	7.30E-04	3.81E-04
2027	599885	4175697	0.004487501	4.49E-03	7.30E-04	3.81E-04
2028	599893.6	4175701	0.004468372	4.47E-03	7.27E-04	3.79E-04
2029	599902.2	4175704	0.004440581	4.44E-03	7.22E-04	3.77E-04
2030	599910.9	4175708	0.004476764	4.48E-03	7.28E-04	3.80E-04
2031	599919.5	4175712	0.004491238	4.49E-03	7.31E-04	3.81E-04
2032	599928.1	4175716	0.004472301	4.47E-03	7.28E-04	3.80E-04
2033	599936.7	4175720	0.004548982	4.55E-03	7.40E-04	3.86E-04
2034	599945.4	4175724	0.004734184	4.73E-03	7.70E-04	4.02E-04
2035	599954	4175727	0.004904362	4.90E-03	7.98E-04	4.16E-04
2036	599962.6	4175731	0.005061329	5.06E-03	8.23E-04	4.30E-04
2037	599971.3	4175735	0.005120927	5.12E-03	8.33E-04	4.35E-04
2038	599979.9	4175739	0.005172621	5.17E-03	8.41E-04	4.39E-04
2039	599988.5	4175743	0.00522522	5.23E-03	8.50E-04	4.44E-04
2040	599997.2	4175747	0.00515103	5.15E-03	8.38E-04	4.37E-04
2041	599781.7	4175630	0.001537928	1.54E-03	2.50E-04	1.31E-04
2042	599790.2	4175634	0.001639271	1.64E-03	2.67E-04	1.39E-04
2043	599798.7	4175638	0.001960069	1.96E-03	3.19E-04	1.66E-04
2044	599807.3	4175642	0.002322093	2.32E-03	3.78E-04	1.97E-04
2045	599815.8	4175646	0.002684205	2.68E-03	4.37E-04	2.28E-04
2046	599824.3	4175649	0.002954688	2.95E-03	4.81E-04	2.51E-04
2047	599832.8	4175653	0.003193171	3.19E-03	5.19E-04	2.71E-04
2048	599841.4	4175657	0.003427634	3.43E-03	5.58E-04	2.91E-04
2049	599849.9	4175661	0.00357935	3.58E-03	5.82E-04	3.04E-04
2050	599858.4	4175665	0.003699451	3.70E-03	6.02E-04	3.14E-04
2051	599867	4175668	0.003848484	3.85E-03	6.26E-04	3.27E-04
2052	599875.5	4175672	0.004004813	4.00E-03	6.52E-04	3.40E-04
2053	599884	4175676	0.004091696	4.09E-03	6.66E-04	3.47E-04
2054	599892.5	4175680	0.004161587	4.16E-03	6.77E-04	3.53E-04
2055	599901.1	4175683	0.004211205	4.21E-03	6.85E-04	3.58E-04
2056	599909.6	4175687	0.004341627	4.34E-03	7.06E-04	3.69E-04
2057	599918.1	4175691	0.004454165	4.45E-03	7.25E-04	3.78E-04
2058	599926.6	4175695	0.004522112	4.52E-03	7.36E-04	3.84E-04
2059	599935.2	4175699	0.004578522	4.58E-03	7.45E-04	3.89E-04
2060	599943.7	4175702	0.004746492	4.75E-03	7.72E-04	4.03E-04
2061	599952.2	4175706	0.004883438	4.88E-03	7.94E-04	4.15E-04
2062	599960.7	4175710	0.00498573	4.99E-03	8.11E-04	4.23E-04
2063	599969.3	4175714	0.004955923	4.96E-03	8.06E-04	4.21E-04
2064	599977.8	4175718	0.004928519	4.93E-03	8.02E-04	4.18E-04
2065	599986.3	4175721	0.004956754	4.96E-03	8.06E-04	4.21E-04

2066	599994.8	4175725	0.004967297	4.97E-03	8.08E-04	4.22E-04
2067	600003.4	4175729	0.004841769	4.84E-03	7.88E-04	4.11E-04
2068	600125.6	4175914	0.00309211	3.09E-03	5.03E-04	2.63E-04
2069	600129.3	4175923	0.002991479	2.99E-03	4.87E-04	2.54E-04
2070	600133.1	4175931	0.002902623	2.90E-03	4.72E-04	2.46E-04
2071	600136.8	4175940	0.002818409	2.82E-03	4.59E-04	2.39E-04
2072	600140.5	4175948	0.00273633	2.74E-03	4.45E-04	2.32E-04
2073	600144.3	4175957	0.002657617	2.66E-03	4.32E-04	2.26E-04
2074	600148	4175965	0.002599175	2.60E-03	4.23E-04	2.21E-04
2075	600151.8	4175974	0.00255012	2.55E-03	4.15E-04	2.17E-04
2076	600155.5	4175982	0.002513907	2.51E-03	4.09E-04	2.13E-04
2077	600159.2	4175991	0.002467967	2.47E-03	4.01E-04	2.10E-04
2078	600163	4175999	0.002455184	2.46E-03	3.99E-04	2.08E-04
2079	600166.7	4176008	0.002460626	2.46E-03	4.00E-04	2.09E-04
2080	600170.5	4176017	0.002469287	2.47E-03	4.02E-04	2.10E-04
2081	599774.7	4175607	0.001263056	1.26E-03	2.05E-04	1.07E-04
2082	599783.4	4175611	0.001425761	1.43E-03	2.32E-04	1.21E-04
2083	599792	4175615	0.001697179	1.70E-03	2.76E-04	1.44E-04
2084	599800.7	4175618	0.002033874	2.03E-03	3.31E-04	1.73E-04
2085	599809.3	4175622	0.002439272	2.44E-03	3.97E-04	2.07E-04
2086	599818	4175626	0.002877028	2.88E-03	4.68E-04	2.44E-04
2087	599826.6	4175630	0.003284666	3.28E-03	5.34E-04	2.79E-04
2088	599835.3	4175634	0.003669126	3.67E-03	5.97E-04	3.12E-04
2089	599843.9	4175638	0.004001076	4.00E-03	6.51E-04	3.40E-04
2090	599852.5	4175641	0.003883703	3.88E-03	6.32E-04	3.30E-04
2091	599861.2	4175645	0.003789968	3.79E-03	6.17E-04	3.22E-04
2092	599869.8	4175649	0.003722674	3.72E-03	6.06E-04	3.16E-04
2093	599878.5	4175653	0.003689427	3.69E-03	6.00E-04	3.13E-04
2094	599887.1	4175657	0.003703307	3.70E-03	6.02E-04	3.14E-04
2095	599895.8	4175661	0.003807392	3.81E-03	6.19E-04	3.23E-04
2096	599904.4	4175665	0.003910099	3.91E-03	6.36E-04	3.32E-04
2097	599913.1	4175668	0.004141493	4.14E-03	6.74E-04	3.52E-04
2098	599921.7	4175672	0.004351192	4.35E-03	7.08E-04	3.69E-04
2099	599930.4	4175676	0.004537163	4.54E-03	7.38E-04	3.85E-04
2100	599939	4175680	0.00477916	4.78E-03	7.77E-04	4.06E-04
2101	599947.6	4175684	0.005083913	5.08E-03	8.27E-04	4.32E-04
2102	599956.3	4175688	0.005336409	5.34E-03	8.68E-04	4.53E-04
2103	599964.9	4175691	0.00542743	5.43E-03	8.83E-04	4.61E-04
2104	599973.6	4175695	0.005199833	5.20E-03	8.46E-04	4.42E-04
2105	599982.2	4175699	0.005029165	5.03E-03	8.18E-04	4.27E-04
2106	599990.9	4175703	0.004907892	4.91E-03	7.98E-04	4.17E-04
2107	599999.5	4175707	0.004771508	4.77E-03	7.76E-04	4.05E-04
2108	600008.2	4175711	0.004660438	4.66E-03	7.58E-04	3.96E-04
2109	600016.8	4175714	0.004595368	4.60E-03	7.48E-04	3.90E-04
2110	600129.4	4175876	0.003334373	3.33E-03	5.42E-04	2.83E-04
2111	600133.2	4175885	0.003233772	3.23E-03	5.26E-04	2.75E-04
2112	600137	4175894	0.003145346	3.15E-03	5.12E-04	2.67E-04

2113	600140.8	4175902	0.003045547	3.05E-03	4.95E-04	2.59E-04
2114	600144.5	4175911	0.002946814	2.95E-03	4.79E-04	2.50E-04
2115	600148.3	4175920	0.002854236	2.85E-03	4.64E-04	2.42E-04
2116	600152.1	4175928	0.002767456	2.77E-03	4.50E-04	2.35E-04
2117	600155.9	4175937	0.002683271	2.68E-03	4.37E-04	2.28E-04
2118	600159.7	4175946	0.002599041	2.60E-03	4.23E-04	2.21E-04
2119	600163.5	4175954	0.002547317	2.55E-03	4.14E-04	2.16E-04
2120	600167.3	4175963	0.002502029	2.50E-03	4.07E-04	2.12E-04
2121	600171.1	4175972	0.002453849	2.45E-03	3.99E-04	2.08E-04
2122	600174.9	4175980	0.002410385	2.41E-03	3.92E-04	2.05E-04
2123	600178.7	4175989	0.002376545	2.38E-03	3.87E-04	2.02E-04
2124	600182.5	4175998	0.002370539	2.37E-03	3.86E-04	2.01E-04
2125	600186.3	4176006	0.002390959	2.39E-03	3.89E-04	2.03E-04
2126	600190.1	4176015	0.002418259	2.42E-03	3.93E-04	2.05E-04
2127	600193.9	4176024	0.002447399	2.45E-03	3.98E-04	2.08E-04
2128	600197.7	4176032	0.002486059	2.49E-03	4.04E-04	2.11E-04
2129	600201.4	4176041	0.002525771	2.53E-03	4.11E-04	2.14E-04
2130	600205.2	4176050	0.002593792	2.59E-03	4.22E-04	2.20E-04
2131	600209	4176058	0.002705114	2.71E-03	4.40E-04	2.30E-04
2132	599775.2	4175587	0.001380829	1.38E-03	2.25E-04	1.17E-04
2133	599783.7	4175591	0.001550874	1.55E-03	2.52E-04	1.32E-04
2134	599792.3	4175594	0.001808946	1.81E-03	2.94E-04	1.54E-04
2135	599800.8	4175598	0.002142987	2.14E-03	3.49E-04	1.82E-04
2136	599809.4	4175602	0.002533749	2.53E-03	4.12E-04	2.15E-04
2137	599817.9	4175606	0.002920388	2.92E-03	4.75E-04	2.48E-04
2138	599826.5	4175610	0.003297286	3.30E-03	5.36E-04	2.80E-04
2139	599835	4175613	0.003723667	3.72E-03	6.06E-04	3.16E-04
2140	599843.6	4175617	0.004192016	4.19E-03	6.82E-04	3.56E-04
2141	599852.1	4175621	0.004214215	4.21E-03	6.86E-04	3.58E-04
2142	599860.7	4175625	0.004198555	4.20E-03	6.83E-04	3.57E-04
2143	599869.2	4175628	0.004101514	4.10E-03	6.67E-04	3.48E-04
2144	599877.8	4175632	0.004030289	4.03E-03	6.56E-04	3.42E-04
2145	599886.3	4175636	0.003997547	4.00E-03	6.50E-04	3.39E-04
2146	599894.8	4175640	0.003967651	3.97E-03	6.45E-04	3.37E-04
2147	599903.4	4175644	0.003939298	3.94E-03	6.41E-04	3.34E-04
2148	599911.9	4175647	0.004055751	4.06E-03	6.60E-04	3.44E-04
2149	599920.5	4175651	0.004197859	4.20E-03	6.83E-04	3.56E-04
2150	599929	4175655	0.004361261	4.36E-03	7.10E-04	3.70E-04
2151	599937.6	4175659	0.004576238	4.58E-03	7.44E-04	3.89E-04
2152	599946.1	4175663	0.004815417	4.82E-03	7.83E-04	4.09E-04
2153	599954.7	4175666	0.005073503	5.07E-03	8.25E-04	4.31E-04
2154	599963.2	4175670	0.00534203	5.34E-03	8.69E-04	4.54E-04
2155	599971.8	4175674	0.005230811	5.23E-03	8.51E-04	4.44E-04
2156	599980.3	4175678	0.005101278	5.10E-03	8.30E-04	4.33E-04
2157	599988.9	4175682	0.004975424	4.98E-03	8.09E-04	4.22E-04
2158	599997.4	4175685	0.004789674	4.79E-03	7.79E-04	4.07E-04
2159	600006	4175689	0.00453227	4.53E-03	7.37E-04	3.85E-04

2160	600014.5	4175693	0.004348641	4.35E-03	7.07E-04	3.69E-04
2161	600023	4175697	0.004222549	4.22E-03	6.87E-04	3.59E-04
2162	600139.1	4175852	0.003160932	3.16E-03	5.14E-04	2.68E-04
2163	600142.9	4175860	0.00316759	3.17E-03	5.15E-04	2.69E-04
2164	600146.6	4175869	0.003132119	3.13E-03	5.10E-04	2.66E-04
2165	600150.4	4175878	0.003052561	3.05E-03	4.97E-04	2.59E-04
2166	600154.1	4175886	0.002988276	2.99E-03	4.86E-04	2.54E-04
2167	600157.9	4175895	0.002937412	2.94E-03	4.78E-04	2.49E-04
2168	600161.6	4175903	0.00285296	2.85E-03	4.64E-04	2.42E-04
2169	600165.4	4175912	0.002767545	2.77E-03	4.50E-04	2.35E-04
2170	600169.1	4175920	0.002686637	2.69E-03	4.37E-04	2.28E-04
2171	600172.9	4175929	0.002605907	2.61E-03	4.24E-04	2.21E-04
2172	600176.6	4175938	0.002517466	2.52E-03	4.10E-04	2.14E-04
2173	600180.4	4175946	0.002437285	2.44E-03	3.97E-04	2.07E-04
2174	600184.1	4175955	0.002403683	2.40E-03	3.91E-04	2.04E-04
2175	600187.9	4175963	0.002368849	2.37E-03	3.85E-04	2.01E-04
2176	600191.6	4175972	0.002317763	2.32E-03	3.77E-04	1.97E-04
2177	600195.4	4175980	0.002293977	2.29E-03	3.73E-04	1.95E-04
2178	600199.1	4175989	0.002295	2.30E-03	3.73E-04	1.95E-04
2179	600202.9	4175998	0.002319616	2.32E-03	3.77E-04	1.97E-04
2180	600206.6	4176006	0.00235012	2.35E-03	3.82E-04	2.00E-04
2181	600210.4	4176015	0.002383233	2.38E-03	3.88E-04	2.02E-04
2182	600214.1	4176023	0.002423998	2.42E-03	3.94E-04	2.06E-04
2183	600217.9	4176032	0.00246902	2.47E-03	4.02E-04	2.10E-04
2184	600221.6	4176040	0.0025293	2.53E-03	4.11E-04	2.15E-04
2185	600225.4	4176049	0.002608147	2.61E-03	4.24E-04	2.21E-04
2186	600229.1	4176058	0.002715109	2.72E-03	4.42E-04	2.31E-04
2187	600232.8	4176066	0.002840178	2.84E-03	4.62E-04	2.41E-04
2188	599768.1	4175563	0.001523218	1.52E-03	2.48E-04	1.29E-04
2189	599776.7	4175567	0.001667565	1.67E-03	2.71E-04	1.42E-04
2190	599785.4	4175571	0.001831026	1.83E-03	2.98E-04	1.55E-04
2191	599794	4175575	0.002044076	2.04E-03	3.33E-04	1.74E-04
2192	599802.7	4175579	0.002316769	2.32E-03	3.77E-04	1.97E-04
2193	599811.3	4175582	0.002651359	2.65E-03	4.31E-04	2.25E-04
2194	599820	4175586	0.00296974	2.97E-03	4.83E-04	2.52E-04
2195	599828.7	4175590	0.00330172	3.30E-03	5.37E-04	2.80E-04
2196	599837.3	4175594	0.003675191	3.68E-03	5.98E-04	3.12E-04
2197	599846	4175598	0.00398942	3.99E-03	6.49E-04	3.39E-04
2198	599854.6	4175602	0.00408925	4.09E-03	6.65E-04	3.47E-04
2199	599863.3	4175605	0.004161319	4.16E-03	6.77E-04	3.53E-04
2200	599871.9	4175609	0.00420247	4.20E-03	6.84E-04	3.57E-04
2201	599880.6	4175613	0.004212198	4.21E-03	6.85E-04	3.58E-04
2202	599889.3	4175617	0.004220814	4.22E-03	6.87E-04	3.58E-04
2203	599897.9	4175621	0.004225471	4.23E-03	6.87E-04	3.59E-04
2204	599906.6	4175625	0.004256078	4.26E-03	6.92E-04	3.61E-04
2205	599915.2	4175629	0.004337163	4.34E-03	7.06E-04	3.68E-04
2206	599923.9	4175632	0.004425886	4.43E-03	7.20E-04	3.76E-04

2207	599932.6	4175636	0.004536215	4.54E-03	7.38E-04	3.85E-04
2208	599941.2	4175640	0.004588161	4.59E-03	7.46E-04	3.90E-04
2209	599949.9	4175644	0.004690527	4.69E-03	7.63E-04	3.98E-04
2210	599958.5	4175648	0.004853335	4.85E-03	7.90E-04	4.12E-04
2211	599967.2	4175652	0.004959794	4.96E-03	8.07E-04	4.21E-04
2212	599975.8	4175655	0.004872539	4.87E-03	7.93E-04	4.14E-04
2213	599984.5	4175659	0.004757287	4.76E-03	7.74E-04	4.04E-04
2214	599993.2	4175663	0.004642465	4.64E-03	7.55E-04	3.94E-04
2215	600001.8	4175667	0.004442821	4.44E-03	7.23E-04	3.77E-04
2216	600010.5	4175671	0.004244777	4.24E-03	6.91E-04	3.60E-04
2217	600019.1	4175675	0.004058331	4.06E-03	6.60E-04	3.45E-04
2218	600027.8	4175679	0.00389441	3.89E-03	6.34E-04	3.31E-04
2219	600154	4175839	0.002864438	2.86E-03	4.66E-04	2.43E-04
2220	600157.8	4175848	0.002862807	2.86E-03	4.66E-04	2.43E-04
2221	600161.6	4175857	0.002855229	2.86E-03	4.64E-04	2.42E-04
2222	600165.4	4175866	0.002841957	2.84E-03	4.62E-04	2.41E-04
2223	600169.2	4175874	0.002806264	2.81E-03	4.57E-04	2.38E-04
2224	600173	4175883	0.002779275	2.78E-03	4.52E-04	2.36E-04
2225	600176.8	4175892	0.002743655	2.74E-03	4.46E-04	2.33E-04
2226	600180.6	4175900	0.002674092	2.67E-03	4.35E-04	2.27E-04
2227	600184.4	4175909	0.002584286	2.58E-03	4.20E-04	2.19E-04
2228	600188.2	4175918	0.00250194	2.50E-03	4.07E-04	2.12E-04
2229	600192	4175926	0.002425793	2.43E-03	3.95E-04	2.06E-04
2230	600195.8	4175935	0.002358543	2.36E-03	3.84E-04	2.00E-04
2231	600199.6	4175944	0.002312632	2.31E-03	3.76E-04	1.96E-04
2232	600203.4	4175952	0.002273587	2.27E-03	3.70E-04	1.93E-04
2233	600207.2	4175961	0.002244255	2.24E-03	3.65E-04	1.91E-04
2234	600211	4175970	0.002221996	2.22E-03	3.61E-04	1.89E-04
2235	600214.8	4175978	0.00222517	2.23E-03	3.62E-04	1.89E-04
2236	600218.6	4175987	0.0022373	2.24E-03	3.64E-04	1.90E-04
2237	600222.4	4175996	0.002267803	2.27E-03	3.69E-04	1.93E-04
2238	600226.2	4176004	0.002301302	2.30E-03	3.74E-04	1.95E-04
2239	600230	4176013	0.002342646	2.34E-03	3.81E-04	1.99E-04
2240	600233.8	4176022	0.00239563	2.40E-03	3.90E-04	2.03E-04
2241	600237.6	4176030	0.002430627	2.43E-03	3.95E-04	2.06E-04
2242	600241.4	4176039	0.002471911	2.47E-03	4.02E-04	2.10E-04
2243	600245.2	4176048	0.002516443	2.52E-03	4.09E-04	2.14E-04
2244	600249	4176056	0.002567915	2.57E-03	4.18E-04	2.18E-04
2245	600252.8	4176065	0.002626846	2.63E-03	4.27E-04	2.23E-04
2246	599760.1	4175539	0.001742956	1.74E-03	2.84E-04	1.48E-04
2247	599768.6	4175543	0.00175694	1.76E-03	2.86E-04	1.49E-04
2248	599777.2	4175547	0.001813469	1.81E-03	2.95E-04	1.54E-04
2249	599785.8	4175551	0.001937381	1.94E-03	3.15E-04	1.65E-04
2250	599794.3	4175554	0.002150653	2.15E-03	3.50E-04	1.83E-04
2251	599802.9	4175558	0.002386318	2.39E-03	3.88E-04	2.03E-04
2252	599811.5	4175562	0.002640489	2.64E-03	4.30E-04	2.24E-04
2253	599820	4175566	0.002870237	2.87E-03	4.67E-04	2.44E-04

2254	599828.6	4175570	0.003118105	3.12E-03	5.07E-04	2.65E-04
2255	599837.2	4175573	0.00339455	3.39E-03	5.52E-04	2.88E-04
2256	599845.7	4175577	0.003644243	3.64E-03	5.93E-04	3.09E-04
2257	599854.3	4175581	0.003745273	3.75E-03	6.09E-04	3.18E-04
2258	599862.9	4175585	0.003874198	3.87E-03	6.30E-04	3.29E-04
2259	599871.4	4175589	0.004031016	4.03E-03	6.56E-04	3.42E-04
2260	599880	4175592	0.004153267	4.15E-03	6.76E-04	3.53E-04
2261	599888.5	4175596	0.004291712	4.29E-03	6.98E-04	3.64E-04
2262	599897.1	4175600	0.004311227	4.31E-03	7.01E-04	3.66E-04
2263	599905.7	4175604	0.00427887	4.28E-03	6.96E-04	3.63E-04
2264	599914.2	4175608	0.004145022	4.15E-03	6.74E-04	3.52E-04
2265	599922.8	4175612	0.004103708	4.10E-03	6.68E-04	3.48E-04
2266	599931.4	4175615	0.004162061	4.16E-03	6.77E-04	3.53E-04
2267	599939.9	4175619	0.004280086	4.28E-03	6.96E-04	3.63E-04
2268	599948.5	4175623	0.00438472	4.38E-03	7.13E-04	3.72E-04
2269	599957.1	4175627	0.004451496	4.45E-03	7.24E-04	3.78E-04
2270	599965.6	4175631	0.004511168	4.51E-03	7.34E-04	3.83E-04
2271	599974.2	4175634	0.004616307	4.62E-03	7.51E-04	3.92E-04
2272	599982.8	4175638	0.004654877	4.65E-03	7.57E-04	3.95E-04
2273	599991.3	4175642	0.004624641	4.62E-03	7.52E-04	3.93E-04
2274	599999.9	4175646	0.004494308	4.49E-03	7.31E-04	3.82E-04
2275	600008.5	4175650	0.004289354	4.29E-03	6.98E-04	3.64E-04
2276	600017	4175653	0.004044644	4.04E-03	6.58E-04	3.43E-04
2277	600025.6	4175657	0.003843605	3.84E-03	6.25E-04	3.26E-04
2278	600034.1	4175661	0.003775021	3.78E-03	6.14E-04	3.21E-04
2279	600163.8	4175815	0.00272454	2.72E-03	4.43E-04	2.31E-04
2280	600167.6	4175824	0.002685317	2.69E-03	4.37E-04	2.28E-04
2281	600171.4	4175833	0.002637597	2.64E-03	4.29E-04	2.24E-04
2282	600175.1	4175841	0.002618764	2.62E-03	4.26E-04	2.22E-04
2283	600178.9	4175850	0.002615917	2.62E-03	4.26E-04	2.22E-04
2284	600182.6	4175858	0.002599115	2.60E-03	4.23E-04	2.21E-04
2285	600186.4	4175867	0.002570317	2.57E-03	4.18E-04	2.18E-04
2286	600190.1	4175876	0.002540185	2.54E-03	4.13E-04	2.16E-04
2287	600193.9	4175884	0.002505069	2.51E-03	4.08E-04	2.13E-04
2288	600197.7	4175893	0.002467729	2.47E-03	4.01E-04	2.10E-04
2289	600201.4	4175901	0.002408947	2.41E-03	3.92E-04	2.05E-04
2290	600205.2	4175910	0.002347955	2.35E-03	3.82E-04	1.99E-04
2291	600208.9	4175918	0.002296097	2.30E-03	3.74E-04	1.95E-04
2292	600212.7	4175927	0.002245545	2.25E-03	3.65E-04	1.91E-04
2293	600216.4	4175936	0.002204957	2.20E-03	3.59E-04	1.87E-04
2294	600220.2	4175944	0.002205655	2.21E-03	3.59E-04	1.87E-04
2295	600224	4175953	0.002175848	2.18E-03	3.54E-04	1.85E-04
2296	600227.7	4175961	0.002135824	2.14E-03	3.47E-04	1.81E-04
2297	600231.5	4175970	0.002149007	2.15E-03	3.50E-04	1.82E-04
2298	600235.2	4175979	0.002163258	2.16E-03	3.52E-04	1.84E-04
2299	600239	4175987	0.002175314	2.18E-03	3.54E-04	1.85E-04
2300	600242.7	4175996	0.002193969	2.19E-03	3.57E-04	1.86E-04

2301	600246.5	4176004	0.002215204	2.22E-03	3.60E-04	1.88E-04
2302	600250.3	4176013	0.002241185	2.24E-03	3.65E-04	1.90E-04
2303	600254	4176021	0.0022716	2.27E-03	3.70E-04	1.93E-04
2304	600257.8	4176030	0.002297832	2.30E-03	3.74E-04	1.95E-04
2305	600261.5	4176039	0.002327906	2.33E-03	3.79E-04	1.98E-04
2306	600265.3	4176047	0.002359091	2.36E-03	3.84E-04	2.00E-04
2307	600269	4176056	0.002389372	2.39E-03	3.89E-04	2.03E-04
2308	600272.8	4176064	0.002416332	2.42E-03	3.93E-04	2.05E-04
2309	599761.3	4175519	0.001746871	1.75E-03	2.84E-04	1.48E-04
2310	599770	4175523	0.001777923	1.78E-03	2.89E-04	1.51E-04
2311	599778.7	4175527	0.001825628	1.83E-03	2.97E-04	1.55E-04
2312	599787.3	4175531	0.00195912	1.96E-03	3.19E-04	1.66E-04
2313	599796	4175535	0.002209614	2.21E-03	3.59E-04	1.88E-04
2314	599804.7	4175539	0.002444863	2.44E-03	3.98E-04	2.08E-04
2315	599813.4	4175542	0.002676865	2.68E-03	4.35E-04	2.27E-04
2316	599822	4175546	0.002832481	2.83E-03	4.61E-04	2.41E-04
2317	599830.7	4175550	0.003014094	3.01E-03	4.90E-04	2.56E-04
2318	599839.4	4175554	0.003224697	3.22E-03	5.25E-04	2.74E-04
2319	599848	4175558	0.003360665	3.36E-03	5.47E-04	2.85E-04
2320	599856.7	4175562	0.003414643	3.41E-03	5.56E-04	2.90E-04
2321	599865.4	4175566	0.003478349	3.48E-03	5.66E-04	2.95E-04
2322	599874	4175569	0.003568318	3.57E-03	5.81E-04	3.03E-04
2323	599882.7	4175573	0.003536123	3.54E-03	5.75E-04	3.00E-04
2324	599891.4	4175577	0.003549737	3.55E-03	5.77E-04	3.01E-04
2325	599900	4175581	0.003616394	3.62E-03	5.88E-04	3.07E-04
2326	599908.7	4175585	0.003650782	3.65E-03	5.94E-04	3.10E-04
2327	599917.4	4175589	0.003606844	3.61E-03	5.87E-04	3.06E-04
2328	599926	4175593	0.003527982	3.53E-03	5.74E-04	3.00E-04
2329	599934.7	4175596	0.00345007	3.45E-03	5.61E-04	2.93E-04
2330	599943.4	4175600	0.003595025	3.60E-03	5.85E-04	3.05E-04
2331	599952	4175604	0.003725121	3.73E-03	6.06E-04	3.16E-04
2332	599960.7	4175608	0.003842879	3.84E-03	6.25E-04	3.26E-04
2333	599969.4	4175612	0.003992178	3.99E-03	6.49E-04	3.39E-04
2334	599978.1	4175616	0.004180004	4.18E-03	6.80E-04	3.55E-04
2335	599986.7	4175619	0.004386203	4.39E-03	7.14E-04	3.72E-04
2336	599995.4	4175623	0.004609426	4.61E-03	7.50E-04	3.91E-04
2337	600004.1	4175627	0.004762908	4.76E-03	7.75E-04	4.04E-04
2338	600012.7	4175631	0.00470623	4.71E-03	7.66E-04	4.00E-04
2339	600021.4	4175635	0.004566051	4.57E-03	7.43E-04	3.88E-04
2340	600030.1	4175639	0.004371166	4.37E-03	7.11E-04	3.71E-04
2341	600038.7	4175643	0.004174888	4.17E-03	6.79E-04	3.54E-04
2342	600047.4	4175646	0.003981784	3.98E-03	6.48E-04	3.38E-04
2343	600178.7	4175803	0.002618779	2.62E-03	4.26E-04	2.22E-04
2344	600182.5	4175811	0.002587148	2.59E-03	4.21E-04	2.20E-04
2345	600186.3	4175820	0.002550135	2.55E-03	4.15E-04	2.17E-04
2346	600190.1	4175829	0.002510334	2.51E-03	4.08E-04	2.13E-04
2347	600193.9	4175838	0.002472801	2.47E-03	4.02E-04	2.10E-04

2348	600197.7	4175846	0.002445708	2.45E-03	3.98E-04	2.08E-04
2349	600201.5	4175855	0.002407998	2.41E-03	3.92E-04	2.04E-04
2350	600205.3	4175864	0.002364163	2.36E-03	3.85E-04	2.01E-04
2351	600209.1	4175872	0.00234226	2.34E-03	3.81E-04	1.99E-04
2352	600212.9	4175881	0.002316813	2.32E-03	3.77E-04	1.97E-04
2353	600216.7	4175890	0.002282484	2.28E-03	3.71E-04	1.94E-04
2354	600220.5	4175898	0.002240177	2.24E-03	3.64E-04	1.90E-04
2355	600224.3	4175907	0.002194755	2.19E-03	3.57E-04	1.86E-04
2356	600228.1	4175916	0.002152833	2.15E-03	3.50E-04	1.83E-04
2357	600231.9	4175924	0.002112261	2.11E-03	3.44E-04	1.79E-04
2358	600235.7	4175933	0.002086428	2.09E-03	3.39E-04	1.77E-04
2359	600239.5	4175942	0.002066854	2.07E-03	3.36E-04	1.75E-04
2360	600243.3	4175950	0.002049444	2.05E-03	3.33E-04	1.74E-04
2361	600247.1	4175959	0.002042756	2.04E-03	3.32E-04	1.73E-04
2362	600250.9	4175968	0.002051239	2.05E-03	3.34E-04	1.74E-04
2363	600254.7	4175977	0.002057586	2.06E-03	3.35E-04	1.75E-04
2364	600258.5	4175985	0.002064422	2.06E-03	3.36E-04	1.75E-04
2365	600262.3	4175994	0.002083181	2.08E-03	3.39E-04	1.77E-04
2366	600266.1	4176003	0.002102236	2.10E-03	3.42E-04	1.79E-04
2367	600269.9	4176011	0.002122493	2.12E-03	3.45E-04	1.80E-04
2368	600273.7	4176020	0.002142497	2.14E-03	3.49E-04	1.82E-04
2369	600277.5	4176029	0.00216563	2.17E-03	3.52E-04	1.84E-04
2370	600281.3	4176037	0.002188052	2.19E-03	3.56E-04	1.86E-04
2371	600285.1	4176046	0.002215961	2.22E-03	3.60E-04	1.88E-04
2372	600288.9	4176055	0.002220721	2.22E-03	3.61E-04	1.89E-04
2373	600292.7	4176063	0.002218808	2.22E-03	3.61E-04	1.88E-04
2374	599770.6	4175503	0.001767899	1.77E-03	2.88E-04	1.50E-04
2375	599779.2	4175507	0.001785086	1.79E-03	2.90E-04	1.52E-04
2376	599787.8	4175511	0.001874179	1.87E-03	3.05E-04	1.59E-04
2377	599796.4	4175515	0.001967113	1.97E-03	3.20E-04	1.67E-04
2378	599804.9	4175518	0.002180845	2.18E-03	3.55E-04	1.85E-04
2379	599813.5	4175522	0.002423198	2.42E-03	3.94E-04	2.06E-04
2380	599822.1	4175526	0.002634868	2.63E-03	4.29E-04	2.24E-04
2381	599830.7	4175530	0.002831844	2.83E-03	4.61E-04	2.40E-04
2382	599839.3	4175534	0.003014628	3.01E-03	4.90E-04	2.56E-04
2383	599847.8	4175537	0.00311462	3.11E-03	5.07E-04	2.64E-04
2384	599856.4	4175541	0.003148979	3.15E-03	5.12E-04	2.67E-04
2385	599865	4175545	0.003195662	3.20E-03	5.20E-04	2.71E-04
2386	599873.6	4175549	0.003249209	3.25E-03	5.29E-04	2.76E-04
2387	599882.2	4175553	0.003145065	3.15E-03	5.12E-04	2.67E-04
2388	599890.7	4175556	0.003032734	3.03E-03	4.93E-04	2.58E-04
2389	599899.3	4175560	0.002918016	2.92E-03	4.75E-04	2.48E-04
2390	599907.9	4175564	0.002828997	2.83E-03	4.60E-04	2.40E-04
2391	599916.5	4175568	0.002817667	2.82E-03	4.58E-04	2.39E-04
2392	599925.1	4175572	0.002823273	2.82E-03	4.59E-04	2.40E-04
2393	599933.7	4175576	0.002802808	2.80E-03	4.56E-04	2.38E-04
2394	599942.2	4175579	0.002861413	2.86E-03	4.66E-04	2.43E-04

2395	599950.8	4175583	0.002956586	2.96E-03	4.81E-04	2.51E-04
2396	599959.4	4175587	0.003087394	3.09E-03	5.02E-04	2.62E-04
2397	599968	4175591	0.003256861	3.26E-03	5.30E-04	2.77E-04
2398	599976.6	4175595	0.00346398	3.46E-03	5.64E-04	2.94E-04
2399	599985.1	4175598	0.00363797	3.64E-03	5.92E-04	3.09E-04
2400	599993.7	4175602	0.003795574	3.80E-03	6.17E-04	3.22E-04
2401	600002.3	4175606	0.003965397	3.97E-03	6.45E-04	3.37E-04
2402	600010.9	4175610	0.004150761	4.15E-03	6.75E-04	3.52E-04
2403	600019.5	4175614	0.004347618	4.35E-03	7.07E-04	3.69E-04
2404	600028	4175617	0.004519517	4.52E-03	7.35E-04	3.84E-04
2405	600036.6	4175621	0.004664798	4.66E-03	7.59E-04	3.96E-04
2406	600045.2	4175625	0.00481825	4.82E-03	7.84E-04	4.09E-04
2407	600053.8	4175629	0.00467546	4.68E-03	7.61E-04	3.97E-04
2408	600188.5	4175779	0.002594548	2.59E-03	4.22E-04	2.20E-04
2409	600192.3	4175787	0.002568493	2.57E-03	4.18E-04	2.18E-04
2410	600196.1	4175796	0.002537323	2.54E-03	4.13E-04	2.15E-04
2411	600199.8	4175805	0.002500858	2.50E-03	4.07E-04	2.12E-04
2412	600203.6	4175813	0.002461219	2.46E-03	4.00E-04	2.09E-04
2413	600207.4	4175822	0.002429974	2.43E-03	3.95E-04	2.06E-04
2414	600211.1	4175830	0.002397751	2.40E-03	3.90E-04	2.04E-04
2415	600214.9	4175839	0.002365527	2.37E-03	3.85E-04	2.01E-04
2416	600218.6	4175848	0.002333081	2.33E-03	3.80E-04	1.98E-04
2417	600222.4	4175856	0.002292983	2.29E-03	3.73E-04	1.95E-04
2418	600226.2	4175865	0.002248184	2.25E-03	3.66E-04	1.91E-04
2419	600229.9	4175873	0.002211349	2.21E-03	3.60E-04	1.88E-04
2420	600233.7	4175882	0.0021683	2.17E-03	3.53E-04	1.84E-04
2421	600237.5	4175891	0.002131182	2.13E-03	3.47E-04	1.81E-04
2422	600241.2	4175899	0.002095148	2.10E-03	3.41E-04	1.78E-04
2423	600245	4175908	0.002062731	2.06E-03	3.36E-04	1.75E-04
2424	600248.8	4175916	0.002034823	2.03E-03	3.31E-04	1.73E-04
2425	600252.5	4175925	0.002006321	2.01E-03	3.26E-04	1.70E-04
2426	600256.3	4175934	0.00197177	1.97E-03	3.21E-04	1.67E-04
2427	600260.1	4175942	0.00196133	1.96E-03	3.19E-04	1.67E-04
2428	600263.8	4175951	0.001954419	1.95E-03	3.18E-04	1.66E-04
2429	600267.6	4175959	0.001949911	1.95E-03	3.17E-04	1.66E-04
2430	600271.4	4175968	0.001954494	1.95E-03	3.18E-04	1.66E-04
2431	600275.1	4175977	0.001958453	1.96E-03	3.19E-04	1.66E-04
2432	600278.9	4175985	0.001965882	1.97E-03	3.20E-04	1.67E-04
2433	600282.6	4175994	0.001980059	1.98E-03	3.22E-04	1.68E-04
2434	600286.4	4176002	0.001994236	1.99E-03	3.24E-04	1.69E-04
2435	600290.2	4176011	0.002008219	2.01E-03	3.27E-04	1.71E-04
2436	600293.9	4176020	0.002022188	2.02E-03	3.29E-04	1.72E-04
2437	600297.7	4176028	0.002035194	2.04E-03	3.31E-04	1.73E-04
2438	600301.5	4176037	0.002043335	2.04E-03	3.32E-04	1.74E-04
2439	600305.2	4176045	0.002050898	2.05E-03	3.34E-04	1.74E-04
2440	600309	4176054	0.002054531	2.05E-03	3.34E-04	1.74E-04
2441	600312.8	4176063	0.002071125	2.07E-03	3.37E-04	1.76E-04

2442	599806.7	4175499	0.001902176	1.90E-03	3.09E-04	1.62E-04
2443	599815.3	4175503	0.002125014	2.13E-03	3.46E-04	1.80E-04
2444	599824	4175506	0.002397869	2.40E-03	3.90E-04	2.04E-04
2445	599832.7	4175510	0.002634646	2.63E-03	4.29E-04	2.24E-04
2446	599841.4	4175514	0.00285342	2.85E-03	4.64E-04	2.42E-04
2447	599850.1	4175518	0.002933572	2.93E-03	4.77E-04	2.49E-04
2448	599858.7	4175522	0.00297324	2.97E-03	4.84E-04	2.52E-04
2449	599867.4	4175526	0.003012878	3.01E-03	4.90E-04	2.56E-04
2450	599876.1	4175530	0.003006531	3.01E-03	4.89E-04	2.55E-04
2451	599884.8	4175533	0.002880661	2.88E-03	4.69E-04	2.45E-04
2452	599893.4	4175537	0.002747451	2.75E-03	4.47E-04	2.33E-04
2453	599902.1	4175541	0.002635462	2.64E-03	4.29E-04	2.24E-04
2454	599910.8	4175545	0.002534802	2.53E-03	4.12E-04	2.15E-04
2455	599919.5	4175549	0.002452871	2.45E-03	3.99E-04	2.08E-04
2456	599928.2	4175553	0.002387237	2.39E-03	3.88E-04	2.03E-04
2457	599936.8	4175557	0.002353575	2.35E-03	3.83E-04	2.00E-04
2458	599945.5	4175560	0.002339443	2.34E-03	3.81E-04	1.99E-04
2459	599954.2	4175564	0.002317466	2.32E-03	3.77E-04	1.97E-04
2460	599962.9	4175568	0.002339205	2.34E-03	3.81E-04	1.99E-04
2461	599971.5	4175572	0.002419743	2.42E-03	3.94E-04	2.05E-04
2462	599980.2	4175576	0.002530842	2.53E-03	4.12E-04	2.15E-04
2463	599988.9	4175580	0.002671022	2.67E-03	4.35E-04	2.27E-04
2464	599997.6	4175584	0.002863059	2.86E-03	4.66E-04	2.43E-04
2465	600006.3	4175587	0.003094156	3.09E-03	5.03E-04	2.63E-04
2466	600014.9	4175591	0.003331259	3.33E-03	5.42E-04	2.83E-04
2467	600023.6	4175595	0.003573864	3.57E-03	5.81E-04	3.03E-04
2468	600032.3	4175599	0.003688908	3.69E-03	6.00E-04	3.13E-04
2469	600041	4175603	0.003797709	3.80E-03	6.18E-04	3.22E-04
2470	600049.6	4175607	0.003916357	3.92E-03	6.37E-04	3.33E-04
2471	600058.3	4175610	0.004009825	4.01E-03	6.52E-04	3.40E-04
2472	600203.3	4175766	0.002589996	2.59E-03	4.21E-04	2.20E-04
2473	600207.1	4175775	0.002551914	2.55E-03	4.15E-04	2.17E-04
2474	600210.9	4175783	0.00252107	2.52E-03	4.10E-04	2.14E-04
2475	600214.7	4175792	0.002488594	2.49E-03	4.05E-04	2.11E-04
2476	600218.5	4175801	0.00245376	2.45E-03	3.99E-04	2.08E-04
2477	600222.3	4175809	0.002417859	2.42E-03	3.93E-04	2.05E-04
2478	600226.1	4175818	0.002384301	2.38E-03	3.88E-04	2.02E-04
2479	600229.9	4175827	0.00235009	2.35E-03	3.82E-04	2.00E-04
2480	600233.7	4175836	0.002315034	2.32E-03	3.77E-04	1.97E-04
2481	600237.5	4175844	0.002275767	2.28E-03	3.70E-04	1.93E-04
2482	600241.3	4175853	0.002234705	2.23E-03	3.64E-04	1.90E-04
2483	600245.1	4175862	0.002192264	2.19E-03	3.57E-04	1.86E-04
2484	600248.9	4175870	0.00215092	2.15E-03	3.50E-04	1.83E-04
2485	600252.8	4175879	0.002109117	2.11E-03	3.43E-04	1.79E-04
2486	600256.6	4175888	0.002062361	2.06E-03	3.36E-04	1.75E-04
2487	600260.4	4175896	0.002014284	2.01E-03	3.28E-04	1.71E-04
2488	600264.2	4175905	0.001975625	1.98E-03	3.21E-04	1.68E-04

2489	600268	4175914	0.00193615	1.94E-03	3.15E-04	1.64E-04
2490	600271.8	4175923	0.001922552	1.92E-03	3.13E-04	1.63E-04
2491	600275.6	4175931	0.001879666	1.88E-03	3.06E-04	1.60E-04
2492	600279.4	4175940	0.001862538	1.86E-03	3.03E-04	1.58E-04
2493	600283.2	4175949	0.001854219	1.85E-03	3.02E-04	1.57E-04
2494	600287	4175957	0.001848643	1.85E-03	3.01E-04	1.57E-04
2495	600290.8	4175966	0.001853151	1.85E-03	3.01E-04	1.57E-04
2496	600294.6	4175975	0.001861945	1.86E-03	3.03E-04	1.58E-04
2497	600298.4	4175983	0.001869137	1.87E-03	3.04E-04	1.59E-04
2498	600302.2	4175992	0.00187538	1.88E-03	3.05E-04	1.59E-04
2499	600306.1	4176001	0.001880333	1.88E-03	3.06E-04	1.60E-04
2500	600309.9	4176010	0.001882543	1.88E-03	3.06E-04	1.60E-04
2501	600313.7	4176018	0.001882098	1.88E-03	3.06E-04	1.60E-04
2502	600317.5	4176027	0.00188278	1.88E-03	3.06E-04	1.60E-04
2503	600321.3	4176036	0.001882528	1.88E-03	3.06E-04	1.60E-04
2504	600325.1	4176044	0.001887599	1.89E-03	3.07E-04	1.60E-04
2505	600328.9	4176053	0.001905246	1.91E-03	3.10E-04	1.62E-04
2506	600332.7	4176062	0.001927608	1.93E-03	3.14E-04	1.64E-04
2507	599746.8	4175452	0.002317051	2.32E-03	3.77E-04	1.97E-04
2508	599755.4	4175456	0.00202729	2.03E-03	3.30E-04	1.72E-04
2509	599764	4175459	0.001768492	1.77E-03	2.88E-04	1.50E-04
2510	599772.6	4175463	0.001648702	1.65E-03	2.68E-04	1.40E-04
2511	599781.2	4175467	0.001489348	1.49E-03	2.42E-04	1.26E-04
2512	599807	4175478	0.001651535	1.65E-03	2.69E-04	1.40E-04
2513	599815.6	4175482	0.001796104	1.80E-03	2.92E-04	1.53E-04
2514	599824.2	4175486	0.002017547	2.02E-03	3.28E-04	1.71E-04
2515	599832.8	4175490	0.002293903	2.29E-03	3.73E-04	1.95E-04
2516	599841.3	4175494	0.002565216	2.57E-03	4.17E-04	2.18E-04
2517	599849.9	4175498	0.002707279	2.71E-03	4.40E-04	2.30E-04
2518	599858.5	4175501	0.002798597	2.80E-03	4.55E-04	2.38E-04
2519	599867.1	4175505	0.002879623	2.88E-03	4.68E-04	2.45E-04
2520	599875.7	4175509	0.002905367	2.91E-03	4.73E-04	2.47E-04
2521	599884.3	4175513	0.002821389	2.82E-03	4.59E-04	2.40E-04
2522	599892.9	4175517	0.002720685	2.72E-03	4.43E-04	2.31E-04
2523	599901.5	4175520	0.002604587	2.60E-03	4.24E-04	2.21E-04
2524	599910.1	4175524	0.002459307	2.46E-03	4.00E-04	2.09E-04
2525	599918.7	4175528	0.002307427	2.31E-03	3.75E-04	1.96E-04
2526	599927.3	4175532	0.002160559	2.16E-03	3.51E-04	1.83E-04
2527	599935.9	4175536	0.002047887	2.05E-03	3.33E-04	1.74E-04
2528	599944.5	4175540	0.002058876	2.06E-03	3.35E-04	1.75E-04
2529	599953.1	4175543	0.002065638	2.07E-03	3.36E-04	1.75E-04
2530	599961.7	4175547	0.002064422	2.06E-03	3.36E-04	1.75E-04
2531	599970.3	4175551	0.002058683	2.06E-03	3.35E-04	1.75E-04
2532	599978.9	4175555	0.002049578	2.05E-03	3.33E-04	1.74E-04
2533	599987.5	4175559	0.002038589	2.04E-03	3.32E-04	1.73E-04
2534	599996.1	4175562	0.002044239	2.04E-03	3.33E-04	1.74E-04
2535	600004.7	4175566	0.002112602	2.11E-03	3.44E-04	1.79E-04

2536	600013.2	4175570	0.002291011	2.29E-03	3.73E-04	1.95E-04
2537	600021.8	4175574	0.002477962	2.48E-03	4.03E-04	2.10E-04
2538	600030.4	4175578	0.002655748	2.66E-03	4.32E-04	2.26E-04
2539	600039	4175582	0.002823347	2.82E-03	4.59E-04	2.40E-04
2540	600047.6	4175585	0.002978682	2.98E-03	4.85E-04	2.53E-04
2541	600056.2	4175589	0.003111017	3.11E-03	5.06E-04	2.64E-04
2542	600064.8	4175593	0.003228152	3.23E-03	5.25E-04	2.74E-04
2543	600213.2	4175742	0.002717348	2.72E-03	4.42E-04	2.31E-04
2544	600217	4175751	0.002664616	2.66E-03	4.33E-04	2.26E-04
2545	600220.7	4175759	0.002618201	2.62E-03	4.26E-04	2.22E-04
2546	600224.5	4175768	0.002572556	2.57E-03	4.19E-04	2.18E-04
2547	600228.3	4175777	0.002528989	2.53E-03	4.11E-04	2.15E-04
2548	600232.1	4175785	0.002487082	2.49E-03	4.05E-04	2.11E-04
2549	600235.8	4175794	0.002444789	2.44E-03	3.98E-04	2.08E-04
2550	600239.6	4175802	0.002408443	2.41E-03	3.92E-04	2.05E-04
2551	600243.4	4175811	0.002376605	2.38E-03	3.87E-04	2.02E-04
2552	600247.1	4175820	0.002341993	2.34E-03	3.81E-04	1.99E-04
2553	600250.9	4175828	0.00230544	2.31E-03	3.75E-04	1.96E-04
2554	600254.7	4175837	0.002266661	2.27E-03	3.69E-04	1.92E-04
2555	600258.5	4175846	0.002224873	2.22E-03	3.62E-04	1.89E-04
2556	600262.2	4175854	0.002183055	2.18E-03	3.55E-04	1.85E-04
2557	600266	4175863	0.002136313	2.14E-03	3.48E-04	1.81E-04
2558	600269.8	4175871	0.002085657	2.09E-03	3.39E-04	1.77E-04
2559	600273.5	4175880	0.002035357	2.04E-03	3.31E-04	1.73E-04
2560	600277.3	4175889	0.001988615	1.99E-03	3.24E-04	1.69E-04
2561	600281.1	4175897	0.001942304	1.94E-03	3.16E-04	1.65E-04
2562	600284.8	4175906	0.001896141	1.90E-03	3.08E-04	1.61E-04
2563	600288.6	4175914	0.00184765	1.85E-03	3.01E-04	1.57E-04
2564	600292.4	4175923	0.001816286	1.82E-03	2.95E-04	1.54E-04
2565	600296.2	4175932	0.001795066	1.80E-03	2.92E-04	1.52E-04
2566	600299.9	4175940	0.001778635	1.78E-03	2.89E-04	1.51E-04
2567	600303.7	4175949	0.001766075	1.77E-03	2.87E-04	1.50E-04
2568	600307.5	4175958	0.001759935	1.76E-03	2.86E-04	1.49E-04
2569	600311.2	4175966	0.001764414	1.76E-03	2.87E-04	1.50E-04
2570	600315	4175975	0.001771146	1.77E-03	2.88E-04	1.50E-04
2571	600318.8	4175983	0.001774246	1.77E-03	2.89E-04	1.51E-04
2572	600322.6	4175992	0.001774157	1.77E-03	2.89E-04	1.51E-04
2573	600326.3	4176001	0.001766816	1.77E-03	2.87E-04	1.50E-04
2574	600330.1	4176009	0.001759046	1.76E-03	2.86E-04	1.49E-04
2575	600333.9	4176018	0.001752017	1.75E-03	2.85E-04	1.49E-04
2576	600337.6	4176027	0.001753752	1.75E-03	2.85E-04	1.49E-04
2577	600341.4	4176035	0.001757889	1.76E-03	2.86E-04	1.49E-04
2578	600345.2	4176044	0.001766712	1.77E-03	2.87E-04	1.50E-04
2579	600348.9	4176052	0.001778739	1.78E-03	2.89E-04	1.51E-04
2580	600352.7	4176061	0.00179511	1.80E-03	2.92E-04	1.52E-04
2581	599738.2	4175448	0.002596194	2.60E-03	4.22E-04	2.20E-04
2582	599728.7	4175447	0.002817682	2.82E-03	4.58E-04	2.39E-04

2583	599765.2	4175439	0.002063784	2.06E-03	3.36E-04	1.75E-04
2584	599773.9	4175443	0.001763064	1.76E-03	2.87E-04	1.50E-04
2585	599782.6	4175447	0.001534651	1.53E-03	2.50E-04	1.30E-04
2586	599791.3	4175451	0.001500604	1.50E-03	2.44E-04	1.27E-04
2587	599800	4175455	0.001509442	1.51E-03	2.46E-04	1.28E-04
2588	599808.7	4175459	0.001540479	1.54E-03	2.51E-04	1.31E-04
2589	599817.3	4175463	0.001659335	1.66E-03	2.70E-04	1.41E-04
2590	599826	4175466	0.001819949	1.82E-03	2.96E-04	1.55E-04
2591	599834.7	4175470	0.002058475	2.06E-03	3.35E-04	1.75E-04
2592	599843.4	4175474	0.002311253	2.31E-03	3.76E-04	1.96E-04
2593	599852.1	4175478	0.002447784	2.45E-03	3.98E-04	2.08E-04
2594	599860.8	4175482	0.002575908	2.58E-03	4.19E-04	2.19E-04
2595	599869.5	4175486	0.002690537	2.69E-03	4.38E-04	2.28E-04
2596	599878.1	4175490	0.002734757	2.73E-03	4.45E-04	2.32E-04
2597	599886.8	4175494	0.002707487	2.71E-03	4.40E-04	2.30E-04
2598	599895.5	4175497	0.002660968	2.66E-03	4.33E-04	2.26E-04
2599	599904.2	4175501	0.002590337	2.59E-03	4.21E-04	2.20E-04
2600	599912.9	4175505	0.002447532	2.45E-03	3.98E-04	2.08E-04
2601	599921.6	4175509	0.002298084	2.30E-03	3.74E-04	1.95E-04
2602	599930.3	4175513	0.002153382	2.15E-03	3.50E-04	1.83E-04
2603	599938.9	4175517	0.002086606	2.09E-03	3.39E-04	1.77E-04
2604	599947.6	4175521	0.00206107	2.06E-03	3.35E-04	1.75E-04
2605	599956.3	4175524	0.002026266	2.03E-03	3.30E-04	1.72E-04
2606	599965	4175528	0.001985768	1.99E-03	3.23E-04	1.69E-04
2607	599973.7	4175532	0.001941637	1.94E-03	3.16E-04	1.65E-04
2608	599982.4	4175536	0.001896363	1.90E-03	3.09E-04	1.61E-04
2609	599991.1	4175540	0.001898988	1.90E-03	3.09E-04	1.61E-04
2610	599999.7	4175544	0.001931597	1.93E-03	3.14E-04	1.64E-04
2611	600008.4	4175548	0.001980326	1.98E-03	3.22E-04	1.68E-04
2612	600017.1	4175551	0.002032865	2.03E-03	3.31E-04	1.73E-04
2613	600025.8	4175555	0.002088252	2.09E-03	3.40E-04	1.77E-04
2614	600034.5	4175559	0.002145404	2.15E-03	3.49E-04	1.82E-04
2615	600043.2	4175563	0.002204231	2.20E-03	3.59E-04	1.87E-04
2616	600051.9	4175567	0.002282632	2.28E-03	3.71E-04	1.94E-04
2617	600060.5	4175571	0.002379348	2.38E-03	3.87E-04	2.02E-04
2618	600069.2	4175575	0.002468308	2.47E-03	4.02E-04	2.10E-04
2619	600227.9	4175729	0.002791331	2.79E-03	4.54E-04	2.37E-04
2620	600231.7	4175738	0.002745034	2.75E-03	4.47E-04	2.33E-04
2621	600235.5	4175747	0.002698916	2.70E-03	4.39E-04	2.29E-04
2622	600239.3	4175755	0.002625155	2.63E-03	4.27E-04	2.23E-04
2623	600243.1	4175764	0.002560204	2.56E-03	4.17E-04	2.17E-04
2624	600246.9	4175773	0.002506864	2.51E-03	4.08E-04	2.13E-04
2625	600250.7	4175781	0.002465001	2.47E-03	4.01E-04	2.09E-04
2626	600254.5	4175790	0.002433489	2.43E-03	3.96E-04	2.07E-04
2627	600258.3	4175799	0.002408428	2.41E-03	3.92E-04	2.05E-04
2628	600262.2	4175808	0.002384494	2.38E-03	3.88E-04	2.02E-04
2629	600266	4175816	0.002323442	2.32E-03	3.78E-04	1.97E-04

2630	600269.8	4175825	0.002259707	2.26E-03	3.68E-04	1.92E-04
2631	600273.6	4175834	0.002204438	2.20E-03	3.59E-04	1.87E-04
2632	600277.4	4175842	0.002155962	2.16E-03	3.51E-04	1.83E-04
2633	600281.2	4175851	0.002113224	2.11E-03	3.44E-04	1.79E-04
2634	600285	4175860	0.002075114	2.08E-03	3.38E-04	1.76E-04
2635	600288.8	4175868	0.002035045	2.04E-03	3.31E-04	1.73E-04
2636	600292.6	4175877	0.001986702	1.99E-03	3.23E-04	1.69E-04
2637	600296.5	4175886	0.001930263	1.93E-03	3.14E-04	1.64E-04
2638	600300.3	4175895	0.001876003	1.88E-03	3.05E-04	1.59E-04
2639	600304.1	4175903	0.001823434	1.82E-03	2.97E-04	1.55E-04
2640	600307.9	4175912	0.001777256	1.78E-03	2.89E-04	1.51E-04
2641	600311.7	4175921	0.001763732	1.76E-03	2.87E-04	1.50E-04
2642	600315.5	4175929	0.001737796	1.74E-03	2.83E-04	1.48E-04
2643	600319.3	4175938	0.001730396	1.73E-03	2.82E-04	1.47E-04
2644	600323.1	4175947	0.001701538	1.70E-03	2.77E-04	1.44E-04
2645	600326.9	4175956	0.001706699	1.71E-03	2.78E-04	1.45E-04
2646	600330.7	4175964	0.001675973	1.68E-03	2.73E-04	1.42E-04
2647	600334.6	4175973	0.001670219	1.67E-03	2.72E-04	1.42E-04
2648	600338.4	4175982	0.00165932	1.66E-03	2.70E-04	1.41E-04
2649	600342.2	4175990	0.001649073	1.65E-03	2.68E-04	1.40E-04
2650	600346	4175999	0.001643556	1.64E-03	2.67E-04	1.40E-04
2651	600349.8	4176008	0.001636261	1.64E-03	2.66E-04	1.39E-04
2652	600353.6	4176016	0.001630403	1.63E-03	2.65E-04	1.38E-04
2653	600357.4	4176025	0.001637432	1.64E-03	2.66E-04	1.39E-04
2654	600361.2	4176034	0.00164673	1.65E-03	2.68E-04	1.40E-04
2655	600365	4176043	0.001653922	1.65E-03	2.69E-04	1.40E-04
2656	600368.9	4176051	0.001658163	1.66E-03	2.70E-04	1.41E-04
2657	600372.7	4176060	0.001660462	1.66E-03	2.70E-04	1.41E-04
2658	599757.3	4175416	0.002657424	2.66E-03	4.32E-04	2.26E-04
2659	599765.9	4175419	0.002467967	2.47E-03	4.01E-04	2.10E-04
2660	599774.6	4175423	0.002225006	2.23E-03	3.62E-04	1.89E-04
2661	599783.2	4175427	0.001949719	1.95E-03	3.17E-04	1.66E-04
2662	599791.8	4175431	0.001750845	1.75E-03	2.85E-04	1.49E-04
2663	599800.4	4175435	0.001654322	1.65E-03	2.69E-04	1.40E-04
2664	599809	4175439	0.001547953	1.55E-03	2.52E-04	1.31E-04
2665	599817.6	4175442	0.001551927	1.55E-03	2.52E-04	1.32E-04
2666	599826.2	4175446	0.001688237	1.69E-03	2.75E-04	1.43E-04
2667	599834.8	4175450	0.001891025	1.89E-03	3.08E-04	1.61E-04
2668	599843.4	4175454	0.002120787	2.12E-03	3.45E-04	1.80E-04
2669	599852	4175458	0.002259336	2.26E-03	3.68E-04	1.92E-04
2670	599860.6	4175461	0.00239176	2.39E-03	3.89E-04	2.03E-04
2671	599869.2	4175465	0.002519053	2.52E-03	4.10E-04	2.14E-04
2672	599877.8	4175469	0.002594044	2.59E-03	4.22E-04	2.20E-04
2673	599886.5	4175473	0.002612402	2.61E-03	4.25E-04	2.22E-04
2674	599895.1	4175477	0.00261786	2.62E-03	4.26E-04	2.22E-04
2675	599903.7	4175481	0.002610045	2.61E-03	4.25E-04	2.22E-04
2676	599912.3	4175484	0.002542884	2.54E-03	4.14E-04	2.16E-04

2677	599920.9	4175488	0.002450928	2.45E-03	3.99E-04	2.08E-04
2678	599929.5	4175492	0.002333348	2.33E-03	3.80E-04	1.98E-04
2679	599938.1	4175496	0.002245248	2.25E-03	3.65E-04	1.91E-04
2680	599946.7	4175500	0.002201591	2.20E-03	3.58E-04	1.87E-04
2681	599955.3	4175504	0.002158349	2.16E-03	3.51E-04	1.83E-04
2682	599963.9	4175507	0.002124183	2.12E-03	3.46E-04	1.80E-04
2683	599972.5	4175511	0.002097328	2.10E-03	3.41E-04	1.78E-04
2684	599981.1	4175515	0.002063221	2.06E-03	3.36E-04	1.75E-04
2685	599989.7	4175519	0.00202247	2.02E-03	3.29E-04	1.72E-04
2686	599998.3	4175523	0.001981498	1.98E-03	3.22E-04	1.68E-04
2687	600007	4175526	0.00195519	1.96E-03	3.18E-04	1.66E-04
2688	600015.6	4175530	0.001946827	1.95E-03	3.17E-04	1.65E-04
2689	600024.2	4175534	0.001953189	1.95E-03	3.18E-04	1.66E-04
2690	600032.8	4175538	0.001987548	1.99E-03	3.23E-04	1.69E-04
2691	600041.4	4175542	0.002037982	2.04E-03	3.32E-04	1.73E-04
2692	600050	4175546	0.002090818	2.09E-03	3.40E-04	1.78E-04
2693	600058.6	4175549	0.002094703	2.09E-03	3.41E-04	1.78E-04
2694	600067.2	4175553	0.002074743	2.07E-03	3.38E-04	1.76E-04
2695	600237.9	4175705	0.002709281	2.71E-03	4.41E-04	2.30E-04
2696	600241.6	4175714	0.002705455	2.71E-03	4.40E-04	2.30E-04
2697	600245.4	4175723	0.002660567	2.66E-03	4.33E-04	2.26E-04
2698	600249.2	4175731	0.002623272	2.62E-03	4.27E-04	2.23E-04
2699	600253	4175740	0.002602556	2.60E-03	4.23E-04	2.21E-04
2700	600256.7	4175749	0.002578296	2.58E-03	4.19E-04	2.19E-04
2701	600260.5	4175757	0.002525771	2.53E-03	4.11E-04	2.14E-04
2702	600264.3	4175766	0.002472564	2.47E-03	4.02E-04	2.10E-04
2703	600268.1	4175775	0.002402674	2.40E-03	3.91E-04	2.04E-04
2704	600271.8	4175783	0.0023488	2.35E-03	3.82E-04	1.99E-04
2705	600275.6	4175792	0.002301347	2.30E-03	3.74E-04	1.95E-04
2706	600279.4	4175800	0.002257334	2.26E-03	3.67E-04	1.92E-04
2707	600283.2	4175809	0.002211349	2.21E-03	3.60E-04	1.88E-04
2708	600286.9	4175818	0.002162917	2.16E-03	3.52E-04	1.84E-04
2709	600290.7	4175826	0.002120862	2.12E-03	3.45E-04	1.80E-04
2710	600294.5	4175835	0.002081713	2.08E-03	3.39E-04	1.77E-04
2711	600298.3	4175844	0.002035816	2.04E-03	3.31E-04	1.73E-04
2712	600302.1	4175852	0.001988393	1.99E-03	3.23E-04	1.69E-04
2713	600305.8	4175861	0.001940065	1.94E-03	3.16E-04	1.65E-04
2714	600309.6	4175869	0.00189015	1.89E-03	3.07E-04	1.60E-04
2715	600313.4	4175878	0.001841911	1.84E-03	3.00E-04	1.56E-04
2716	600317.2	4175887	0.001799114	1.80E-03	2.93E-04	1.53E-04
2717	600320.9	4175895	0.001759639	1.76E-03	2.86E-04	1.49E-04
2718	600324.7	4175904	0.001733406	1.73E-03	2.82E-04	1.47E-04
2719	600328.5	4175913	0.001712245	1.71E-03	2.79E-04	1.45E-04
2720	600332.3	4175921	0.001690328	1.69E-03	2.75E-04	1.44E-04
2721	600336	4175930	0.001678776	1.68E-03	2.73E-04	1.43E-04
2722	600339.8	4175938	0.001663857	1.66E-03	2.71E-04	1.41E-04
2723	600343.6	4175947	0.001645618	1.65E-03	2.68E-04	1.40E-04

2724	600347.4	4175956	0.001623819	1.62E-03	2.64E-04	1.38E-04
2725	600351.1	4175964	0.001585841	1.59E-03	2.58E-04	1.35E-04
2726	600354.9	4175973	0.001570197	1.57E-03	2.55E-04	1.33E-04
2727	600358.7	4175982	0.001552965	1.55E-03	2.53E-04	1.32E-04
2728	600362.5	4175990	0.001542095	1.54E-03	2.51E-04	1.31E-04
2729	600366.2	4175999	0.00154039	1.54E-03	2.51E-04	1.31E-04
2730	600370	4176007	0.001539515	1.54E-03	2.50E-04	1.31E-04
2731	600373.8	4176016	0.001540998	1.54E-03	2.51E-04	1.31E-04
2732	600377.6	4176025	0.001543371	1.54E-03	2.51E-04	1.31E-04
2733	600381.3	4176033	0.001545818	1.55E-03	2.51E-04	1.31E-04
2734	600385.1	4176042	0.001548769	1.55E-03	2.52E-04	1.32E-04
2735	600388.9	4176051	0.001548917	1.55E-03	2.52E-04	1.32E-04
2736	600392.7	4176059	0.001543638	1.54E-03	2.51E-04	1.31E-04
2737	599758.5	4175396	0.002336403	2.34E-03	3.80E-04	1.98E-04
2738	599767.2	4175400	0.002301035	2.30E-03	3.74E-04	1.95E-04
2739	599775.9	4175403	0.002241585	2.24E-03	3.65E-04	1.90E-04
2740	599784.5	4175407	0.002154494	2.15E-03	3.50E-04	1.83E-04
2741	599793.2	4175411	0.002009673	2.01E-03	3.27E-04	1.71E-04
2742	599801.9	4175415	0.001842534	1.84E-03	3.00E-04	1.56E-04
2743	599810.6	4175419	0.001706818	1.71E-03	2.78E-04	1.45E-04
2744	599819.3	4175423	0.001704608	1.70E-03	2.77E-04	1.45E-04
2745	599828	4175427	0.001752461	1.75E-03	2.85E-04	1.49E-04
2746	599836.7	4175430	0.00189015	1.89E-03	3.07E-04	1.60E-04
2747	599845.4	4175434	0.002039553	2.04E-03	3.32E-04	1.73E-04
2748	599854.1	4175438	0.00216182	2.16E-03	3.52E-04	1.84E-04
2749	599862.8	4175442	0.002287304	2.29E-03	3.72E-04	1.94E-04
2750	599871.5	4175446	0.002415694	2.42E-03	3.93E-04	2.05E-04
2751	599880.2	4175450	0.002490492	2.49E-03	4.05E-04	2.11E-04
2752	599888.9	4175454	0.002541756	2.54E-03	4.14E-04	2.16E-04
2753	599897.6	4175457	0.002583916	2.58E-03	4.20E-04	2.19E-04
2754	599906.2	4175461	0.0026026	2.60E-03	4.23E-04	2.21E-04
2755	599914.9	4175465	0.002575953	2.58E-03	4.19E-04	2.19E-04
2756	599923.6	4175469	0.002540466	2.54E-03	4.13E-04	2.16E-04
2757	599932.3	4175473	0.002494259	2.49E-03	4.06E-04	2.12E-04
2758	599941	4175477	0.00246816	2.47E-03	4.02E-04	2.10E-04
2759	599949.7	4175481	0.002430182	2.43E-03	3.95E-04	2.06E-04
2760	599958.4	4175484	0.002391656	2.39E-03	3.89E-04	2.03E-04
2761	599967.1	4175488	0.002349883	2.35E-03	3.82E-04	2.00E-04
2762	599975.8	4175492	0.00230888	2.31E-03	3.76E-04	1.96E-04
2763	599984.5	4175496	0.002266202	2.27E-03	3.69E-04	1.92E-04
2764	599993.2	4175500	0.002226608	2.23E-03	3.62E-04	1.89E-04
2765	600001.9	4175504	0.002147391	2.15E-03	3.49E-04	1.82E-04
2766	600010.6	4175508	0.002078569	2.08E-03	3.38E-04	1.76E-04
2767	600019.3	4175512	0.002030938	2.03E-03	3.30E-04	1.72E-04
2768	600027.9	4175515	0.002015708	2.02E-03	3.28E-04	1.71E-04
2769	600036.6	4175519	0.002020839	2.02E-03	3.29E-04	1.72E-04
2770	600045.3	4175523	0.002030463	2.03E-03	3.30E-04	1.72E-04

2771	600054	4175527	0.00203896	2.04E-03	3.32E-04	1.73E-04
2772	600062.7	4175531	0.001951854	1.95E-03	3.18E-04	1.66E-04
2773	600071.4	4175535	0.001888311	1.89E-03	3.07E-04	1.60E-04
2774	600252.4	4175692	0.002444744	2.44E-03	3.98E-04	2.08E-04
2775	600256.3	4175701	0.002446168	2.45E-03	3.98E-04	2.08E-04
2776	600260.1	4175710	0.002444359	2.44E-03	3.98E-04	2.08E-04
2777	600263.9	4175718	0.002438664	2.44E-03	3.97E-04	2.07E-04
2778	600267.7	4175727	0.002421285	2.42E-03	3.94E-04	2.06E-04
2779	600271.5	4175736	0.002400702	2.40E-03	3.91E-04	2.04E-04
2780	600275.3	4175745	0.002375952	2.38E-03	3.87E-04	2.02E-04
2781	600279.1	4175753	0.002317095	2.32E-03	3.77E-04	1.97E-04
2782	600283	4175762	0.002262331	2.26E-03	3.68E-04	1.92E-04
2783	600286.8	4175771	0.00221559	2.22E-03	3.60E-04	1.88E-04
2784	600290.6	4175779	0.002175047	2.18E-03	3.54E-04	1.85E-04
2785	600294.4	4175788	0.002138701	2.14E-03	3.48E-04	1.82E-04
2786	600298.2	4175797	0.002100026	2.10E-03	3.42E-04	1.78E-04
2787	600302	4175806	0.00205892	2.06E-03	3.35E-04	1.75E-04
2788	600305.8	4175814	0.002016627	2.02E-03	3.28E-04	1.71E-04
2789	600309.7	4175823	0.001977138	1.98E-03	3.22E-04	1.68E-04
2790	600313.5	4175832	0.001938419	1.94E-03	3.15E-04	1.65E-04
2791	600317.3	4175840	0.001896378	1.90E-03	3.09E-04	1.61E-04
2792	600321.1	4175849	0.001850971	1.85E-03	3.01E-04	1.57E-04
2793	600324.9	4175858	0.001811793	1.81E-03	2.95E-04	1.54E-04
2794	600328.7	4175867	0.001784878	1.78E-03	2.90E-04	1.52E-04
2795	600332.5	4175875	0.00176299	1.76E-03	2.87E-04	1.50E-04
2796	600336.4	4175884	0.001742141	1.74E-03	2.83E-04	1.48E-04
2797	600340.2	4175893	0.001722477	1.72E-03	2.80E-04	1.46E-04
2798	600344	4175901	0.001697312	1.70E-03	2.76E-04	1.44E-04
2799	600347.8	4175910	0.001666957	1.67E-03	2.71E-04	1.42E-04
2800	600351.6	4175919	0.001635563	1.64E-03	2.66E-04	1.39E-04
2801	600355.4	4175928	0.0016272	1.63E-03	2.65E-04	1.38E-04
2802	600359.2	4175936	0.001600478	1.60E-03	2.60E-04	1.36E-04
2803	600363	4175945	0.001553766	1.55E-03	2.53E-04	1.32E-04
2804	600366.9	4175954	0.001532798	1.53E-03	2.49E-04	1.30E-04
2805	600370.7	4175962	0.001513757	1.51E-03	2.46E-04	1.29E-04
2806	600374.5	4175971	0.001494791	1.49E-03	2.43E-04	1.27E-04
2807	600378.3	4175980	0.001493085	1.49E-03	2.43E-04	1.27E-04
2808	600382.1	4175989	0.001472755	1.47E-03	2.40E-04	1.25E-04
2809	600385.9	4175997	0.001457006	1.46E-03	2.37E-04	1.24E-04
2810	600389.7	4176006	0.001459156	1.46E-03	2.37E-04	1.24E-04
2811	600393.6	4176015	0.001457792	1.46E-03	2.37E-04	1.24E-04
2812	600397.4	4176023	0.001458207	1.46E-03	2.37E-04	1.24E-04
2813	600401.2	4176032	0.001456487	1.46E-03	2.37E-04	1.24E-04
2814	600405	4176041	0.001454811	1.45E-03	2.37E-04	1.24E-04
2815	600408.8	4176050	0.001448806	1.45E-03	2.36E-04	1.23E-04
2816	600412.6	4176058	0.00143758	1.44E-03	2.34E-04	1.22E-04
2817	599750.7	4175372	0.002051609	2.05E-03	3.34E-04	1.74E-04

2818	599759.3	4175376	0.00199953	2.00E-03	3.25E-04	1.70E-04
2819	599767.9	4175379	0.001996549	2.00E-03	3.25E-04	1.70E-04
2820	599776.5	4175383	0.002009169	2.01E-03	3.27E-04	1.71E-04
2821	599785.1	4175387	0.002009984	2.01E-03	3.27E-04	1.71E-04
2822	599793.8	4175391	0.001923782	1.92E-03	3.13E-04	1.63E-04
2823	599802.4	4175395	0.001872103	1.87E-03	3.05E-04	1.59E-04
2824	599811	4175399	0.001752032	1.75E-03	2.85E-04	1.49E-04
2825	599819.6	4175402	0.001782372	1.78E-03	2.90E-04	1.51E-04
2826	599828.2	4175406	0.001841095	1.84E-03	3.00E-04	1.56E-04
2827	599836.8	4175410	0.001911341	1.91E-03	3.11E-04	1.62E-04
2828	599845.5	4175414	0.001990172	1.99E-03	3.24E-04	1.69E-04
2829	599854.1	4175418	0.002083433	2.08E-03	3.39E-04	1.77E-04
2830	599862.7	4175422	0.002193035	2.19E-03	3.57E-04	1.86E-04
2831	599871.3	4175425	0.002303823	2.30E-03	3.75E-04	1.96E-04
2832	599879.9	4175429	0.002384583	2.38E-03	3.88E-04	2.02E-04
2833	599888.6	4175433	0.00245253	2.45E-03	3.99E-04	2.08E-04
2834	599897.2	4175437	0.002521011	2.52E-03	4.10E-04	2.14E-04
2835	599905.8	4175441	0.0025757	2.58E-03	4.19E-04	2.19E-04
2836	599914.4	4175445	0.002587193	2.59E-03	4.21E-04	2.20E-04
2837	599923	4175448	0.0025866	2.59E-03	4.21E-04	2.20E-04
2838	599931.6	4175452	0.002575997	2.58E-03	4.19E-04	2.19E-04
2839	599940.3	4175456	0.002583604	2.58E-03	4.20E-04	2.19E-04
2840	599948.9	4175460	0.002592368	2.59E-03	4.22E-04	2.20E-04
2841	599957.5	4175464	0.002590604	2.59E-03	4.21E-04	2.20E-04
2842	599966.1	4175468	0.002563363	2.56E-03	4.17E-04	2.18E-04
2843	599974.7	4175471	0.002517689	2.52E-03	4.10E-04	2.14E-04
2844	599983.4	4175475	0.002499968	2.50E-03	4.07E-04	2.12E-04
2845	599992	4175479	0.002469524	2.47E-03	4.02E-04	2.10E-04
2846	600000.6	4175483	0.002393806	2.39E-03	3.89E-04	2.03E-04
2847	600009.2	4175487	0.002308317	2.31E-03	3.76E-04	1.96E-04
2848	600017.8	4175490	0.002227082	2.23E-03	3.62E-04	1.89E-04
2849	600026.5	4175494	0.002132487	2.13E-03	3.47E-04	1.81E-04
2850	600035.1	4175498	0.002052855	2.05E-03	3.34E-04	1.74E-04
2851	600043.7	4175502	0.002042193	2.04E-03	3.32E-04	1.73E-04
2852	600052.3	4175506	0.002095252	2.10E-03	3.41E-04	1.78E-04
2853	600060.9	4175510	0.001981112	1.98E-03	3.22E-04	1.68E-04
2854	600069.5	4175513	0.001872785	1.87E-03	3.05E-04	1.59E-04
2855	600262.5	4175669	0.002148206	2.15E-03	3.49E-04	1.82E-04
2856	600266.3	4175677	0.002182417	2.18E-03	3.55E-04	1.85E-04
2857	600270.1	4175686	0.002210563	2.21E-03	3.60E-04	1.88E-04
2858	600273.8	4175695	0.002208279	2.21E-03	3.59E-04	1.88E-04
2859	600277.6	4175703	0.002205402	2.21E-03	3.59E-04	1.87E-04
2860	600281.4	4175712	0.002202095	2.20E-03	3.58E-04	1.87E-04
2861	600285.2	4175721	0.002191507	2.19E-03	3.57E-04	1.86E-04
2862	600289	4175729	0.002172066	2.17E-03	3.53E-04	1.84E-04
2863	600292.7	4175738	0.002150001	2.15E-03	3.50E-04	1.83E-04
2864	600296.5	4175747	0.002130145	2.13E-03	3.47E-04	1.81E-04

2865	600300.3	4175755	0.002098425	2.10E-03	3.41E-04	1.78E-04
2866	600304.1	4175764	0.002069404	2.07E-03	3.37E-04	1.76E-04
2867	600307.9	4175772	0.002041555	2.04E-03	3.32E-04	1.73E-04
2868	600311.6	4175781	0.002008901	2.01E-03	3.27E-04	1.71E-04
2869	600315.4	4175790	0.001969886	1.97E-03	3.20E-04	1.67E-04
2870	600319.2	4175798	0.001929047	1.93E-03	3.14E-04	1.64E-04
2871	600323	4175807	0.001887288	1.89E-03	3.07E-04	1.60E-04
2872	600326.8	4175816	0.001865904	1.87E-03	3.04E-04	1.58E-04
2873	600330.5	4175824	0.001847694	1.85E-03	3.01E-04	1.57E-04
2874	600334.3	4175833	0.001826993	1.83E-03	2.97E-04	1.55E-04
2875	600338.1	4175842	0.001803755	1.80E-03	2.93E-04	1.53E-04
2876	600341.9	4175850	0.001779881	1.78E-03	2.90E-04	1.51E-04
2877	600345.7	4175859	0.001757592	1.76E-03	2.86E-04	1.49E-04
2878	600349.5	4175867	0.001737113	1.74E-03	2.83E-04	1.48E-04
2879	600353.2	4175876	0.001721068	1.72E-03	2.80E-04	1.46E-04
2880	600357	4175885	0.001693783	1.69E-03	2.76E-04	1.44E-04
2881	600360.8	4175893	0.001662701	1.66E-03	2.70E-04	1.41E-04
2882	600364.6	4175902	0.001623552	1.62E-03	2.64E-04	1.38E-04
2883	600368.4	4175911	0.001585233	1.59E-03	2.58E-04	1.35E-04
2884	600372.1	4175919	0.001558185	1.56E-03	2.53E-04	1.32E-04
2885	600375.9	4175928	0.001541057	1.54E-03	2.51E-04	1.31E-04
2886	600379.7	4175937	0.001515329	1.52E-03	2.47E-04	1.29E-04
2887	600383.5	4175945	0.001490802	1.49E-03	2.43E-04	1.27E-04
2888	600387.3	4175954	0.001472562	1.47E-03	2.40E-04	1.25E-04
2889	600391	4175963	0.001460802	1.46E-03	2.38E-04	1.24E-04
2890	600394.8	4175971	0.00145063	1.45E-03	2.36E-04	1.23E-04
2891	600398.6	4175980	0.001438173	1.44E-03	2.34E-04	1.22E-04
2892	600402.4	4175988	0.001429127	1.43E-03	2.32E-04	1.21E-04
2893	600406.2	4175997	0.001404363	1.40E-03	2.28E-04	1.19E-04
2894	600410	4176006	0.001393196	1.39E-03	2.27E-04	1.18E-04
2895	600413.7	4176014	0.001383394	1.38E-03	2.25E-04	1.17E-04
2896	600417.5	4176023	0.001381541	1.38E-03	2.25E-04	1.17E-04
2897	600421.3	4176032	0.001377122	1.38E-03	2.24E-04	1.17E-04
2898	600425.1	4176040	0.001365481	1.37E-03	2.22E-04	1.16E-04
2899	600428.9	4176049	0.001348294	1.35E-03	2.19E-04	1.14E-04
2900	600432.6	4176058	0.001328437	1.33E-03	2.16E-04	1.13E-04
2901	599751.7	4175352	0.001709739	1.71E-03	2.78E-04	1.45E-04
2902	599760.4	4175356	0.001705216	1.71E-03	2.77E-04	1.45E-04
2903	599769.1	4175360	0.001615292	1.62E-03	2.63E-04	1.37E-04
2904	599777.8	4175363	0.001586183	1.59E-03	2.58E-04	1.35E-04
2905	599786.5	4175367	0.001605194	1.61E-03	2.61E-04	1.36E-04
2906	599795.2	4175371	0.001670634	1.67E-03	2.72E-04	1.42E-04
2907	599803.9	4175375	0.0016966	1.70E-03	2.76E-04	1.44E-04
2908	599812.6	4175379	0.001737336	1.74E-03	2.83E-04	1.48E-04
2909	599821.3	4175383	0.001826859	1.83E-03	2.97E-04	1.55E-04
2910	599830	4175387	0.001938671	1.94E-03	3.15E-04	1.65E-04
2911	599838.7	4175391	0.002026504	2.03E-03	3.30E-04	1.72E-04

2912	599847.4	4175394	0.002095771	2.10E-03	3.41E-04	1.78E-04
2913	599856.1	4175398	0.002143313	2.14E-03	3.49E-04	1.82E-04
2914	599864.8	4175402	0.002200835	2.20E-03	3.58E-04	1.87E-04
2915	599873.5	4175406	0.002269509	2.27E-03	3.69E-04	1.93E-04
2916	599882.2	4175410	0.002326141	2.33E-03	3.78E-04	1.98E-04
2917	599890.9	4175414	0.002389536	2.39E-03	3.89E-04	2.03E-04
2918	599899.6	4175418	0.00245818	2.46E-03	4.00E-04	2.09E-04
2919	599908.3	4175421	0.002504061	2.50E-03	4.07E-04	2.13E-04
2920	599917	4175425	0.002527002	2.53E-03	4.11E-04	2.15E-04
2921	599925.7	4175429	0.002549645	2.55E-03	4.15E-04	2.16E-04
2922	599934.4	4175433	0.002569665	2.57E-03	4.18E-04	2.18E-04
2923	599943.1	4175437	0.00258485	2.58E-03	4.21E-04	2.19E-04
2924	599951.8	4175441	0.002625719	2.63E-03	4.27E-04	2.23E-04
2925	599960.5	4175445	0.002695787	2.70E-03	4.39E-04	2.29E-04
2926	599969.2	4175448	0.002658907	2.66E-03	4.33E-04	2.26E-04
2927	599977.9	4175452	0.002559774	2.56E-03	4.16E-04	2.17E-04
2928	599986.6	4175456	0.002478673	2.48E-03	4.03E-04	2.10E-04
2929	599995.3	4175460	0.002409718	2.41E-03	3.92E-04	2.05E-04
2930	600004	4175464	0.002322834	2.32E-03	3.78E-04	1.97E-04
2931	600012.7	4175468	0.002276552	2.28E-03	3.70E-04	1.93E-04
2932	600021.4	4175472	0.00227673	2.28E-03	3.70E-04	1.93E-04
2933	600030.1	4175476	0.002163495	2.16E-03	3.52E-04	1.84E-04
2934	600038.8	4175479	0.001947331	1.95E-03	3.17E-04	1.65E-04
2935	600047.5	4175483	0.001806039	1.81E-03	2.94E-04	1.53E-04
2936	600056.2	4175487	0.001739708	1.74E-03	2.83E-04	1.48E-04
2937	600064.9	4175491	0.001704771	1.70E-03	2.77E-04	1.45E-04
2938	600073.6	4175495	0.00167105	1.67E-03	2.72E-04	1.42E-04
2939	600082.3	4175499	0.001637966	1.64E-03	2.66E-04	1.39E-04
2940	600277	4175655	0.001906047	1.91E-03	3.10E-04	1.62E-04
2941	600280.8	4175664	0.00193612	1.94E-03	3.15E-04	1.64E-04
2942	600284.7	4175673	0.001963302	1.96E-03	3.19E-04	1.67E-04
2943	600288.5	4175682	0.001986791	1.99E-03	3.23E-04	1.69E-04
2944	600292.3	4175690	0.001998996	2.00E-03	3.25E-04	1.70E-04
2945	600296.1	4175699	0.002002391	2.00E-03	3.26E-04	1.70E-04
2946	600299.9	4175708	0.002001932	2.00E-03	3.26E-04	1.70E-04
2947	600303.7	4175717	0.001997157	2.00E-03	3.25E-04	1.70E-04
2948	600307.6	4175725	0.001985516	1.99E-03	3.23E-04	1.69E-04
2949	600311.4	4175734	0.001974884	1.97E-03	3.21E-04	1.68E-04
2950	600315.2	4175743	0.001968344	1.97E-03	3.20E-04	1.67E-04
2951	600319	4175751	0.00195221	1.95E-03	3.18E-04	1.66E-04
2952	600322.8	4175760	0.001930619	1.93E-03	3.14E-04	1.64E-04
2953	600326.6	4175769	0.001919556	1.92E-03	3.12E-04	1.63E-04
2954	600330.5	4175778	0.001905498	1.91E-03	3.10E-04	1.62E-04
2955	600334.3	4175786	0.00187891	1.88E-03	3.06E-04	1.60E-04
2956	600338.1	4175795	0.001852884	1.85E-03	3.01E-04	1.57E-04
2957	600341.9	4175804	0.001828268	1.83E-03	2.97E-04	1.55E-04
2958	600345.7	4175812	0.00180939	1.81E-03	2.94E-04	1.54E-04

2959	600349.5	4175821	0.001789683	1.79E-03	2.91E-04	1.52E-04
2960	600353.4	4175830	0.0017691	1.77E-03	2.88E-04	1.50E-04
2961	600357.2	4175839	0.001755917	1.76E-03	2.86E-04	1.49E-04
2962	600361	4175847	0.001736283	1.74E-03	2.82E-04	1.47E-04
2963	600364.8	4175856	0.00171002	1.71E-03	2.78E-04	1.45E-04
2964	600368.6	4175865	0.001678079	1.68E-03	2.73E-04	1.42E-04
2965	600372.4	4175873	0.001645366	1.65E-03	2.68E-04	1.40E-04
2966	600376.3	4175882	0.001610858	1.61E-03	2.62E-04	1.37E-04
2967	600380.1	4175891	0.001573133	1.57E-03	2.56E-04	1.34E-04
2968	600383.9	4175900	0.001560736	1.56E-03	2.54E-04	1.33E-04
2969	600387.7	4175908	0.001533658	1.53E-03	2.50E-04	1.30E-04
2970	600391.5	4175917	0.00150919	1.51E-03	2.46E-04	1.28E-04
2971	600395.3	4175926	0.001489156	1.49E-03	2.42E-04	1.26E-04
2972	600399.2	4175935	0.001472058	1.47E-03	2.39E-04	1.25E-04
2973	600403	4175943	0.001455019	1.46E-03	2.37E-04	1.24E-04
2974	600406.8	4175952	0.001437936	1.44E-03	2.34E-04	1.22E-04
2975	600410.6	4175961	0.001423996	1.42E-03	2.32E-04	1.21E-04
2976	600414.4	4175969	0.001413735	1.41E-03	2.30E-04	1.20E-04
2977	600418.2	4175978	0.001404452	1.40E-03	2.28E-04	1.19E-04
2978	600422.1	4175987	0.001384907	1.38E-03	2.25E-04	1.18E-04
2979	600425.9	4175996	0.001368936	1.37E-03	2.23E-04	1.16E-04
2980	600429.7	4176004	0.001353158	1.35E-03	2.20E-04	1.15E-04
2981	600433.5	4176013	0.00133996	1.34E-03	2.18E-04	1.14E-04
2982	600437.3	4176022	0.00132476	1.32E-03	2.16E-04	1.12E-04
2983	600441.1	4176030	0.001330588	1.33E-03	2.16E-04	1.13E-04
2984	600445	4176039	0.001310124	1.31E-03	2.13E-04	1.11E-04
2985	600448.8	4176048	0.001296169	1.30E-03	2.11E-04	1.10E-04
2986	600452.6	4176057	0.00125926	1.26E-03	2.05E-04	1.07E-04
2987	599743	4175348	0.001762056	1.76E-03	2.87E-04	1.50E-04
2988	599752.6	4175332	0.001459097	1.46E-03	2.37E-04	1.24E-04
2989	599761.2	4175336	0.001460046	1.46E-03	2.38E-04	1.24E-04
2990	599769.8	4175340	0.001431708	1.43E-03	2.33E-04	1.22E-04
2991	599778.5	4175343	0.001383721	1.38E-03	2.25E-04	1.17E-04
2992	599787.1	4175347	0.001385189	1.39E-03	2.25E-04	1.18E-04
2993	599795.7	4175351	0.00148361	1.48E-03	2.41E-04	1.26E-04
2994	599804.4	4175355	0.001593493	1.59E-03	2.59E-04	1.35E-04
2995	599813	4175359	0.001690505	1.69E-03	2.75E-04	1.44E-04
2996	599821.6	4175363	0.001736594	1.74E-03	2.83E-04	1.47E-04
2997	599830.2	4175366	0.001844788	1.84E-03	3.00E-04	1.57E-04
2998	599838.9	4175370	0.001957445	1.96E-03	3.18E-04	1.66E-04
2999	599847.5	4175374	0.002056429	2.06E-03	3.35E-04	1.75E-04
3000	599856.1	4175378	0.002127238	2.13E-03	3.46E-04	1.81E-04
3001	599864.8	4175382	0.002189787	2.19E-03	3.56E-04	1.86E-04
3002	599873.4	4175386	0.002246168	2.25E-03	3.65E-04	1.91E-04
3003	599882	4175389	0.002290833	2.29E-03	3.73E-04	1.95E-04
3004	599890.6	4175393	0.002338108	2.34E-03	3.80E-04	1.99E-04
3005	599899.3	4175397	0.002391493	2.39E-03	3.89E-04	2.03E-04

3006	599907.9	4175401	0.002428744	2.43E-03	3.95E-04	2.06E-04
3007	599916.5	4175405	0.002451121	2.45E-03	3.99E-04	2.08E-04
3008	599925.2	4175409	0.002481699	2.48E-03	4.04E-04	2.11E-04
3009	599933.8	4175412	0.00251717	2.52E-03	4.10E-04	2.14E-04
3010	599942.4	4175416	0.002486622	2.49E-03	4.05E-04	2.11E-04
3011	599951	4175420	0.002462599	2.46E-03	4.01E-04	2.09E-04
3012	599959.7	4175424	0.002459351	2.46E-03	4.00E-04	2.09E-04
3013	599968.3	4175428	0.002421492	2.42E-03	3.94E-04	2.06E-04
3014	599976.9	4175432	0.002342913	2.34E-03	3.81E-04	1.99E-04
3015	599985.6	4175435	0.002274654	2.27E-03	3.70E-04	1.93E-04
3016	599994.2	4175439	0.002216094	2.22E-03	3.61E-04	1.88E-04
3017	600002.8	4175443	0.002112824	2.11E-03	3.44E-04	1.79E-04
3018	600011.4	4175447	0.001984893	1.98E-03	3.23E-04	1.69E-04
3019	600020.1	4175451	0.001869211	1.87E-03	3.04E-04	1.59E-04
3020	600028.7	4175455	0.001782313	1.78E-03	2.90E-04	1.51E-04
3021	600037.3	4175458	0.00168444	1.68E-03	2.74E-04	1.43E-04
3022	600046	4175462	0.001581259	1.58E-03	2.57E-04	1.34E-04
3023	600054.6	4175466	0.001489971	1.49E-03	2.42E-04	1.27E-04
3024	600063.2	4175470	0.001474312	1.47E-03	2.40E-04	1.25E-04
3025	600071.8	4175474	0.001445425	1.45E-03	2.35E-04	1.23E-04
3026	600080.5	4175478	0.001418465	1.42E-03	2.31E-04	1.20E-04
3027	600089.1	4175481	0.001431396	1.43E-03	2.33E-04	1.22E-04
3028	600097.7	4175485	0.00145229	1.45E-03	2.36E-04	1.23E-04
3029	600290.9	4175641	0.0017882	1.79E-03	2.91E-04	1.52E-04
3030	600294.7	4175649	0.001801383	1.80E-03	2.93E-04	1.53E-04
3031	600298.5	4175658	0.001826236	1.83E-03	2.97E-04	1.55E-04
3032	600302.3	4175667	0.001820201	1.82E-03	2.96E-04	1.55E-04
3033	600306	4175675	0.001836869	1.84E-03	2.99E-04	1.56E-04
3034	600309.8	4175684	0.001837981	1.84E-03	2.99E-04	1.56E-04
3035	600313.6	4175693	0.001836958	1.84E-03	2.99E-04	1.56E-04
3036	600317.4	4175701	0.001834971	1.83E-03	2.99E-04	1.56E-04
3037	600321.2	4175710	0.001829736	1.83E-03	2.98E-04	1.55E-04
3038	600325	4175719	0.001827438	1.83E-03	2.97E-04	1.55E-04
3039	600328.8	4175727	0.001837937	1.84E-03	2.99E-04	1.56E-04
3040	600332.5	4175736	0.001853329	1.85E-03	3.02E-04	1.57E-04
3041	600336.3	4175744	0.001873704	1.87E-03	3.05E-04	1.59E-04
3042	600340.1	4175753	0.001870724	1.87E-03	3.04E-04	1.59E-04
3043	600343.9	4175762	0.001859735	1.86E-03	3.03E-04	1.58E-04
3044	600347.7	4175770	0.001846523	1.85E-03	3.00E-04	1.57E-04
3045	600351.5	4175779	0.001828416	1.83E-03	2.97E-04	1.55E-04
3046	600355.2	4175788	0.001812979	1.81E-03	2.95E-04	1.54E-04
3047	600359	4175796	0.001805698	1.81E-03	2.94E-04	1.53E-04
3048	600362.8	4175805	0.001797824	1.80E-03	2.92E-04	1.53E-04
3049	600366.6	4175814	0.001788452	1.79E-03	2.91E-04	1.52E-04
3050	600370.4	4175822	0.001775862	1.78E-03	2.89E-04	1.51E-04
3051	600374.2	4175831	0.001758452	1.76E-03	2.86E-04	1.49E-04
3052	600378	4175840	0.001733288	1.73E-03	2.82E-04	1.47E-04

3053	600381.7	4175848	0.001694346	1.69E-03	2.76E-04	1.44E-04
3054	600385.5	4175857	0.001645558	1.65E-03	2.68E-04	1.40E-04
3055	600389.3	4175866	0.001594576	1.59E-03	2.59E-04	1.35E-04
3056	600393.1	4175874	0.001556643	1.56E-03	2.53E-04	1.32E-04
3057	600396.9	4175883	0.00152568	1.53E-03	2.48E-04	1.30E-04
3058	600400.7	4175892	0.0015157	1.52E-03	2.47E-04	1.29E-04
3059	600404.5	4175900	0.001491484	1.49E-03	2.43E-04	1.27E-04
3060	600408.2	4175909	0.001474504	1.47E-03	2.40E-04	1.25E-04
3061	600412	4175917	0.001460639	1.46E-03	2.38E-04	1.24E-04
3062	600415.8	4175926	0.001449547	1.45E-03	2.36E-04	1.23E-04
3063	600419.6	4175935	0.001440175	1.44E-03	2.34E-04	1.22E-04
3064	600423.4	4175943	0.001413275	1.41E-03	2.30E-04	1.20E-04
3065	600427.2	4175952	0.001393864	1.39E-03	2.27E-04	1.18E-04
3066	600431	4175961	0.001383735	1.38E-03	2.25E-04	1.17E-04
3067	600434.7	4175969	0.001374601	1.37E-03	2.24E-04	1.17E-04
3068	600438.5	4175978	0.001364131	1.36E-03	2.22E-04	1.16E-04
3069	600442.3	4175987	0.001353499	1.35E-03	2.20E-04	1.15E-04
3070	600446.1	4175995	0.001342066	1.34E-03	2.18E-04	1.14E-04
3071	600449.9	4176004	0.001330202	1.33E-03	2.16E-04	1.13E-04
3072	600453.7	4176013	0.001318013	1.32E-03	2.14E-04	1.12E-04
3073	600457.5	4176021	0.001303658	1.30E-03	2.12E-04	1.11E-04
3074	600461.2	4176030	0.001288369	1.29E-03	2.10E-04	1.09E-04
3075	600465	4176039	0.001293263	1.29E-03	2.10E-04	1.10E-04
3076	600468.8	4176047	0.001271642	1.27E-03	2.07E-04	1.08E-04
3077	600472.6	4176056	0.001229423	1.23E-03	2.00E-04	1.04E-04
3078	599744	4175328	0.001499061	1.50E-03	2.44E-04	1.27E-04
3079	599753.6	4175312	0.00131386	1.31E-03	2.14E-04	1.12E-04
3080	599762.3	4175316	0.001310524	1.31E-03	2.13E-04	1.11E-04
3081	599771	4175320	0.001295339	1.30E-03	2.11E-04	1.10E-04
3082	599779.7	4175324	0.001269862	1.27E-03	2.07E-04	1.08E-04
3083	599788.4	4175327	0.001290846	1.29E-03	2.10E-04	1.10E-04
3084	599797.1	4175331	0.001365599	1.37E-03	2.22E-04	1.16E-04
3085	599805.9	4175335	0.001449725	1.45E-03	2.36E-04	1.23E-04
3086	599814.6	4175339	0.001546559	1.55E-03	2.52E-04	1.31E-04
3087	599823.3	4175343	0.001638678	1.64E-03	2.67E-04	1.39E-04
3088	599832	4175347	0.001749199	1.75E-03	2.85E-04	1.49E-04
3089	599840.7	4175351	0.001860492	1.86E-03	3.03E-04	1.58E-04
3090	599849.4	4175354	0.00195826	1.96E-03	3.19E-04	1.66E-04
3091	599858.1	4175358	0.00204461	2.04E-03	3.33E-04	1.74E-04
3092	599866.8	4175362	0.00211883	2.12E-03	3.45E-04	1.80E-04
3093	599875.5	4175366	0.002179896	2.18E-03	3.55E-04	1.85E-04
3094	599884.2	4175370	0.002226504	2.23E-03	3.62E-04	1.89E-04
3095	599892.9	4175374	0.00227547	2.28E-03	3.70E-04	1.93E-04
3096	599901.6	4175378	0.002327817	2.33E-03	3.79E-04	1.98E-04
3097	599910.3	4175382	0.002356644	2.36E-03	3.83E-04	2.00E-04
3098	599919	4175385	0.002380089	2.38E-03	3.87E-04	2.02E-04
3099	599927.7	4175389	0.002403712	2.40E-03	3.91E-04	2.04E-04

3100	599936.4	4175393	0.00240782	2.41E-03	3.92E-04	2.04E-04
3101	599945.1	4175397	0.002362131	2.36E-03	3.84E-04	2.01E-04
3102	599953.8	4175401	0.002318074	2.32E-03	3.77E-04	1.97E-04
3103	599962.5	4175405	0.002276226	2.28E-03	3.70E-04	1.93E-04
3104	599971.2	4175409	0.002160292	2.16E-03	3.51E-04	1.83E-04
3105	599980	4175412	0.002020617	2.02E-03	3.29E-04	1.72E-04
3106	599988.7	4175416	0.001876433	1.88E-03	3.05E-04	1.59E-04
3107	599997.4	4175420	0.001797394	1.80E-03	2.92E-04	1.53E-04
3108	600006.1	4175424	0.001739679	1.74E-03	2.83E-04	1.48E-04
3109	600014.8	4175428	0.001663576	1.66E-03	2.71E-04	1.41E-04
3110	600023.5	4175432	0.001574616	1.57E-03	2.56E-04	1.34E-04
3111	600032.2	4175436	0.001516678	1.52E-03	2.47E-04	1.29E-04
3112	600040.9	4175440	0.001441168	1.44E-03	2.34E-04	1.22E-04
3113	600049.6	4175443	0.001354062	1.35E-03	2.20E-04	1.15E-04
3114	600058.3	4175447	0.001326183	1.33E-03	2.16E-04	1.13E-04
3115	600067	4175451	0.001351067	1.35E-03	2.20E-04	1.15E-04
3116	600075.7	4175455	0.001361536	1.36E-03	2.21E-04	1.16E-04
3117	600084.4	4175459	0.001361165	1.36E-03	2.21E-04	1.16E-04
3118	600093.1	4175463	0.001389296	1.39E-03	2.26E-04	1.18E-04
3119	600101.8	4175467	0.001402909	1.40E-03	2.28E-04	1.19E-04
3120	600110.5	4175470	0.001402702	1.40E-03	2.28E-04	1.19E-04
3121	600301.6	4175619	0.001714469	1.71E-03	2.79E-04	1.46E-04
3122	600305.4	4175627	0.001729684	1.73E-03	2.81E-04	1.47E-04
3123	600309.2	4175636	0.001750608	1.75E-03	2.85E-04	1.49E-04
3124	600313.1	4175645	0.001759995	1.76E-03	2.86E-04	1.49E-04
3125	600316.9	4175654	0.001761952	1.76E-03	2.87E-04	1.50E-04
3126	600320.7	4175662	0.001761463	1.76E-03	2.87E-04	1.50E-04
3127	600324.5	4175671	0.001751335	1.75E-03	2.85E-04	1.49E-04
3128	600328.3	4175680	0.001742526	1.74E-03	2.83E-04	1.48E-04
3129	600332.1	4175688	0.001760543	1.76E-03	2.86E-04	1.49E-04
3130	600336	4175697	0.001764058	1.76E-03	2.87E-04	1.50E-04
3131	600339.8	4175706	0.001743104	1.74E-03	2.84E-04	1.48E-04
3132	600343.6	4175715	0.001744394	1.74E-03	2.84E-04	1.48E-04
3133	600347.4	4175723	0.001753262	1.75E-03	2.85E-04	1.49E-04
3134	600351.2	4175732	0.001769055	1.77E-03	2.88E-04	1.50E-04
3135	600355.1	4175741	0.001808086	1.81E-03	2.94E-04	1.54E-04
3136	600358.9	4175750	0.001839835	1.84E-03	2.99E-04	1.56E-04
3137	600362.7	4175758	0.001843097	1.84E-03	3.00E-04	1.56E-04
3138	600366.5	4175767	0.001845158	1.85E-03	3.00E-04	1.57E-04
3139	600370.3	4175776	0.001845959	1.85E-03	3.00E-04	1.57E-04
3140	600374.2	4175784	0.00183936	1.84E-03	2.99E-04	1.56E-04
3141	600378	4175793	0.001831308	1.83E-03	2.98E-04	1.55E-04
3142	600381.8	4175802	0.001822055	1.82E-03	2.96E-04	1.55E-04
3143	600385.6	4175811	0.001794962	1.79E-03	2.92E-04	1.52E-04
3144	600389.4	4175819	0.00174957	1.75E-03	2.85E-04	1.49E-04
3145	600393.3	4175828	0.0016997	1.70E-03	2.77E-04	1.44E-04
3146	600397.1	4175837	0.001647026	1.65E-03	2.68E-04	1.40E-04

3147	600400.9	4175845	0.00159591	1.60E-03	2.60E-04	1.36E-04
3148	600404.7	4175854	0.001550029	1.55E-03	2.52E-04	1.32E-04
3149	600408.5	4175863	0.0015087	1.51E-03	2.45E-04	1.28E-04
3150	600412.3	4175872	0.001500633	1.50E-03	2.44E-04	1.27E-04
3151	600416.2	4175880	0.001481059	1.48E-03	2.41E-04	1.26E-04
3152	600420	4175889	0.001455879	1.46E-03	2.37E-04	1.24E-04
3153	600423.8	4175898	0.001441821	1.44E-03	2.35E-04	1.22E-04
3154	600427.6	4175907	0.00142978	1.43E-03	2.33E-04	1.21E-04
3155	600431.4	4175915	0.00142198	1.42E-03	2.31E-04	1.21E-04
3156	600435.3	4175924	0.00141765	1.42E-03	2.31E-04	1.20E-04
3157	600439.1	4175933	0.001407922	1.41E-03	2.29E-04	1.20E-04
3158	600442.9	4175941	0.001396815	1.40E-03	2.27E-04	1.19E-04
3159	600446.7	4175950	0.001387962	1.39E-03	2.26E-04	1.18E-04
3160	600450.5	4175959	0.001381096	1.38E-03	2.25E-04	1.17E-04
3161	600454.4	4175968	0.001374512	1.37E-03	2.24E-04	1.17E-04
3162	600458.2	4175976	0.001368862	1.37E-03	2.23E-04	1.16E-04
3163	600462	4175985	0.001359312	1.36E-03	2.21E-04	1.15E-04
3164	600465.8	4175994	0.001348338	1.35E-03	2.19E-04	1.14E-04
3165	600469.6	4176003	0.001335481	1.34E-03	2.17E-04	1.13E-04
3166	600473.5	4176011	0.001321201	1.32E-03	2.15E-04	1.12E-04
3167	600477.3	4176020	0.001305156	1.31E-03	2.12E-04	1.11E-04
3168	600481.1	4176029	0.001285759	1.29E-03	2.09E-04	1.09E-04
3169	600484.9	4176037	0.001265265	1.27E-03	2.06E-04	1.07E-04
3170	600488.7	4176046	0.001243882	1.24E-03	2.02E-04	1.06E-04
3171	600492.5	4176055	0.001224396	1.22E-03	1.99E-04	1.04E-04
3172	599744.9	4175308	0.001349436	1.35E-03	2.20E-04	1.15E-04
3173	599735.4	4175308	0.001402657	1.40E-03	2.28E-04	1.19E-04
3174	599725.9	4175307	0.00145146	1.45E-03	2.36E-04	1.23E-04
3175	599754.5	4175292	0.001244905	1.24E-03	2.03E-04	1.06E-04
3176	599763.1	4175296	0.001236571	1.24E-03	2.01E-04	1.05E-04
3177	599771.8	4175300	0.001241835	1.24E-03	2.02E-04	1.05E-04
3178	599780.4	4175303	0.001238039	1.24E-03	2.01E-04	1.05E-04
3179	599789.1	4175307	0.001255523	1.26E-03	2.04E-04	1.07E-04
3180	599797.7	4175311	0.001295443	1.30E-03	2.11E-04	1.10E-04
3181	599806.3	4175315	0.00134165	1.34E-03	2.18E-04	1.14E-04
3182	599815	4175319	0.001406335	1.41E-03	2.29E-04	1.19E-04
3183	599823.6	4175323	0.001511177	1.51E-03	2.46E-04	1.28E-04
3184	599832.2	4175326	0.001620186	1.62E-03	2.64E-04	1.38E-04
3185	599840.9	4175330	0.001741532	1.74E-03	2.83E-04	1.48E-04
3186	599849.5	4175334	0.001842	1.84E-03	3.00E-04	1.56E-04
3187	599858.2	4175338	0.001929299	1.93E-03	3.14E-04	1.64E-04
3188	599866.8	4175342	0.002010963	2.01E-03	3.27E-04	1.71E-04
3189	599875.4	4175346	0.002083759	2.08E-03	3.39E-04	1.77E-04
3190	599884.1	4175349	0.002138301	2.14E-03	3.48E-04	1.82E-04
3191	599892.7	4175353	0.002186569	2.19E-03	3.56E-04	1.86E-04
3192	599901.3	4175357	0.002231605	2.23E-03	3.63E-04	1.89E-04
3193	599910	4175361	0.002262331	2.26E-03	3.68E-04	1.92E-04

3194	599918.6	4175365	0.002288653	2.29E-03	3.72E-04	1.94E-04
3195	599927.3	4175369	0.002316902	2.32E-03	3.77E-04	1.97E-04
3196	599935.9	4175372	0.002326126	2.33E-03	3.78E-04	1.98E-04
3197	599944.5	4175376	0.002274032	2.27E-03	3.70E-04	1.93E-04
3198	599953.2	4175380	0.002215516	2.22E-03	3.60E-04	1.88E-04
3199	599961.8	4175384	0.002149348	2.15E-03	3.50E-04	1.83E-04
3200	599970.5	4175388	0.002035816	2.04E-03	3.31E-04	1.73E-04
3201	599979.1	4175392	0.001903852	1.90E-03	3.10E-04	1.62E-04
3202	599987.7	4175396	0.00176345	1.76E-03	2.87E-04	1.50E-04
3203	599996.4	4175399	0.001653284	1.65E-03	2.69E-04	1.40E-04
3204	600005	4175403	0.001601189	1.60E-03	2.60E-04	1.36E-04
3205	600013.6	4175407	0.00153345	1.53E-03	2.49E-04	1.30E-04
3206	600022.3	4175411	0.001453358	1.45E-03	2.36E-04	1.23E-04
3207	600030.9	4175415	0.001410457	1.41E-03	2.29E-04	1.20E-04
3208	600039.6	4175419	0.001387976	1.39E-03	2.26E-04	1.18E-04
3209	600048.2	4175422	0.001356998	1.36E-03	2.21E-04	1.15E-04
3210	600056.8	4175426	0.001335022	1.34E-03	2.17E-04	1.13E-04
3211	600065.5	4175430	0.001349183	1.35E-03	2.19E-04	1.15E-04
3212	600074.1	4175434	0.001359742	1.36E-03	2.21E-04	1.15E-04
3213	600082.7	4175438	0.001367408	1.37E-03	2.22E-04	1.16E-04
3214	600091.4	4175442	0.001421223	1.42E-03	2.31E-04	1.21E-04
3215	600100	4175445	0.00147139	1.47E-03	2.39E-04	1.25E-04
3216	600108.7	4175449	0.001511755	1.51E-03	2.46E-04	1.28E-04
3217	600117.3	4175453	0.001549955	1.55E-03	2.52E-04	1.32E-04
3218	600125.9	4175457	0.001592648	1.59E-03	2.59E-04	1.35E-04
3219	600134.6	4175461	0.001623596	1.62E-03	2.64E-04	1.38E-04
3220	600143.2	4175465	0.001641896	1.64E-03	2.67E-04	1.39E-04
3221	600319.3	4175613	0.001743431	1.74E-03	2.84E-04	1.48E-04
3222	600323.1	4175621	0.001772985	1.77E-03	2.88E-04	1.51E-04
3223	600326.9	4175630	0.001780414	1.78E-03	2.90E-04	1.51E-04
3224	600330.7	4175639	0.001771205	1.77E-03	2.88E-04	1.50E-04
3225	600334.5	4175647	0.001758794	1.76E-03	2.86E-04	1.49E-04
3226	600338.2	4175656	0.001741696	1.74E-03	2.83E-04	1.48E-04
3227	600342	4175665	0.001722714	1.72E-03	2.80E-04	1.46E-04
3228	600345.8	4175673	0.00169927	1.70E-03	2.76E-04	1.44E-04
3229	600349.6	4175682	0.001692033	1.69E-03	2.75E-04	1.44E-04
3230	600353.4	4175690	0.001688904	1.69E-03	2.75E-04	1.43E-04
3231	600357.2	4175699	0.001692626	1.69E-03	2.75E-04	1.44E-04
3232	600361	4175708	0.001707337	1.71E-03	2.78E-04	1.45E-04
3233	600364.8	4175716	0.001736238	1.74E-03	2.82E-04	1.47E-04
3234	600368.6	4175725	0.001786346	1.79E-03	2.91E-04	1.52E-04
3235	600372.3	4175734	0.001831412	1.83E-03	2.98E-04	1.56E-04
3236	600376.1	4175742	0.001867402	1.87E-03	3.04E-04	1.59E-04
3237	600379.9	4175751	0.001881445	1.88E-03	3.06E-04	1.60E-04
3238	600383.7	4175760	0.001883848	1.88E-03	3.06E-04	1.60E-04
3239	600387.5	4175768	0.001871569	1.87E-03	3.04E-04	1.59E-04
3240	600391.3	4175777	0.001851653	1.85E-03	3.01E-04	1.57E-04

3241	600395.1	4175786	0.001817917	1.82E-03	2.96E-04	1.54E-04
3242	600398.9	4175794	0.001778175	1.78E-03	2.89E-04	1.51E-04
3243	600402.7	4175803	0.001734414	1.73E-03	2.82E-04	1.47E-04
3244	600406.5	4175812	0.001683714	1.68E-03	2.74E-04	1.43E-04
3245	600410.2	4175820	0.001628757	1.63E-03	2.65E-04	1.38E-04
3246	600414	4175829	0.001572495	1.57E-03	2.56E-04	1.34E-04
3247	600417.8	4175838	0.001532827	1.53E-03	2.49E-04	1.30E-04
3248	600421.6	4175846	0.001506269	1.51E-03	2.45E-04	1.28E-04
3249	600425.4	4175855	0.00148229	1.48E-03	2.41E-04	1.26E-04
3250	600429.2	4175864	0.001460254	1.46E-03	2.38E-04	1.24E-04
3251	600433	4175872	0.00144627	1.45E-03	2.35E-04	1.23E-04
3252	600436.8	4175881	0.001435459	1.44E-03	2.34E-04	1.22E-04
3253	600440.6	4175890	0.001426236	1.43E-03	2.32E-04	1.21E-04
3254	600444.3	4175898	0.001419859	1.42E-03	2.31E-04	1.21E-04
3255	600448.1	4175907	0.001419681	1.42E-03	2.31E-04	1.21E-04
3256	600451.9	4175916	0.001421031	1.42E-03	2.31E-04	1.21E-04
3257	600455.7	4175924	0.001420096	1.42E-03	2.31E-04	1.21E-04
3258	600459.5	4175933	0.001414624	1.41E-03	2.30E-04	1.20E-04
3259	600463.3	4175942	0.001408159	1.41E-03	2.29E-04	1.20E-04
3260	600467.1	4175950	0.001402257	1.40E-03	2.28E-04	1.19E-04
3261	600470.9	4175959	0.001395762	1.40E-03	2.27E-04	1.19E-04
3262	600474.7	4175968	0.001390572	1.39E-03	2.26E-04	1.18E-04
3263	600478.5	4175976	0.001385708	1.39E-03	2.25E-04	1.18E-04
3264	600482.2	4175985	0.001378352	1.38E-03	2.24E-04	1.17E-04
3265	600486	4175994	0.001369307	1.37E-03	2.23E-04	1.16E-04
3266	600489.8	4176002	0.00135602	1.36E-03	2.21E-04	1.15E-04
3267	600493.6	4176011	0.00133993	1.34E-03	2.18E-04	1.14E-04
3268	600497.4	4176020	0.001320741	1.32E-03	2.15E-04	1.12E-04
3269	600501.2	4176028	0.001299239	1.30E-03	2.11E-04	1.10E-04
3270	600505	4176037	0.001276877	1.28E-03	2.08E-04	1.08E-04
3271	600508.8	4176045	0.001255241	1.26E-03	2.04E-04	1.07E-04
3272	600512.6	4176054	0.001235978	1.24E-03	2.01E-04	1.05E-04
3273	599745.9	4175288	0.00126095	1.26E-03	2.05E-04	1.07E-04
3274	599736.3	4175288	0.001270159	1.27E-03	2.07E-04	1.08E-04
3275	599726.8	4175287	0.001275186	1.28E-03	2.07E-04	1.08E-04
3276	599717.3	4175287	0.001349183	1.35E-03	2.19E-04	1.15E-04
3277	599707.8	4175286	0.001410502	1.41E-03	2.29E-04	1.20E-04
3278	599755.5	4175272	0.001285225	1.29E-03	2.09E-04	1.09E-04
3279	599764.3	4175276	0.001297815	1.30E-03	2.11E-04	1.10E-04
3280	599773	4175280	0.001299209	1.30E-03	2.11E-04	1.10E-04
3281	599781.7	4175284	0.001290312	1.29E-03	2.10E-04	1.10E-04
3282	599790.4	4175287	0.001286278	1.29E-03	2.09E-04	1.09E-04
3283	599799.1	4175291	0.001283654	1.28E-03	2.09E-04	1.09E-04
3284	599807.8	4175295	0.001279116	1.28E-03	2.08E-04	1.09E-04
3285	599816.5	4175299	0.001325027	1.33E-03	2.16E-04	1.13E-04
3286	599825.2	4175303	0.001425731	1.43E-03	2.32E-04	1.21E-04
3287	599833.9	4175307	0.001532056	1.53E-03	2.49E-04	1.30E-04

3288	599842.6	4175311	0.001656117	1.66E-03	2.69E-04	1.41E-04
3289	599851.4	4175315	0.001750044	1.75E-03	2.85E-04	1.49E-04
3290	599860.1	4175318	0.001835386	1.84E-03	2.99E-04	1.56E-04
3291	599868.8	4175322	0.001915389	1.92E-03	3.12E-04	1.63E-04
3292	599877.5	4175326	0.001989312	1.99E-03	3.24E-04	1.69E-04
3293	599886.2	4175330	0.002053493	2.05E-03	3.34E-04	1.74E-04
3294	599894.9	4175334	0.002109295	2.11E-03	3.43E-04	1.79E-04
3295	599903.6	4175338	0.002158854	2.16E-03	3.51E-04	1.83E-04
3296	599912.3	4175342	0.002196831	2.20E-03	3.57E-04	1.87E-04
3297	599921	4175345	0.002229722	2.23E-03	3.63E-04	1.89E-04
3298	599929.7	4175349	0.002260137	2.26E-03	3.68E-04	1.92E-04
3299	599938.5	4175353	0.002242757	2.24E-03	3.65E-04	1.90E-04
3300	599947.2	4175357	0.002185858	2.19E-03	3.56E-04	1.86E-04
3301	599955.9	4175361	0.002128291	2.13E-03	3.46E-04	1.81E-04
3302	599964.6	4175365	0.002060626	2.06E-03	3.35E-04	1.75E-04
3303	599973.3	4175369	0.00194917	1.95E-03	3.17E-04	1.66E-04
3304	599982	4175373	0.001817813	1.82E-03	2.96E-04	1.54E-04
3305	599990.7	4175376	0.001671598	1.67E-03	2.72E-04	1.42E-04
3306	599999.4	4175380	0.001592188	1.59E-03	2.59E-04	1.35E-04
3307	600008.1	4175384	0.00155172	1.55E-03	2.52E-04	1.32E-04
3308	600016.9	4175388	0.001516204	1.52E-03	2.47E-04	1.29E-04
3309	600025.6	4175392	0.00147925	1.48E-03	2.41E-04	1.26E-04
3310	600034.3	4175396	0.001460876	1.46E-03	2.38E-04	1.24E-04
3311	600043	4175400	0.001434777	1.43E-03	2.33E-04	1.22E-04
3312	600051.7	4175404	0.001402909	1.40E-03	2.28E-04	1.19E-04
3313	600060.4	4175407	0.001416256	1.42E-03	2.30E-04	1.20E-04
3314	600069.1	4175411	0.001430937	1.43E-03	2.33E-04	1.22E-04
3315	600077.8	4175415	0.001433858	1.43E-03	2.33E-04	1.22E-04
3316	600086.5	4175419	0.001472755	1.47E-03	2.40E-04	1.25E-04
3317	600095.2	4175423	0.001564888	1.56E-03	2.55E-04	1.33E-04
3318	600104	4175427	0.001646166	1.65E-03	2.68E-04	1.40E-04
3319	600112.7	4175431	0.001716887	1.72E-03	2.79E-04	1.46E-04
3320	600121.4	4175434	0.001780088	1.78E-03	2.90E-04	1.51E-04
3321	600130.1	4175438	0.001847042	1.85E-03	3.00E-04	1.57E-04
3322	600138.8	4175442	0.001914677	1.91E-03	3.11E-04	1.63E-04
3323	600147.5	4175446	0.001952892	1.95E-03	3.18E-04	1.66E-04
3324	600156.2	4175450	0.001932013	1.93E-03	3.14E-04	1.64E-04
3325	600164.9	4175454	0.001921573	1.92E-03	3.13E-04	1.63E-04
3326	600349.1	4175634	0.001778546	1.78E-03	2.89E-04	1.51E-04
3327	600352.9	4175643	0.001757563	1.76E-03	2.86E-04	1.49E-04
3328	600356.7	4175652	0.001744009	1.74E-03	2.84E-04	1.48E-04
3329	600360.5	4175660	0.001729817	1.73E-03	2.81E-04	1.47E-04
3330	600364.4	4175669	0.001725131	1.73E-03	2.81E-04	1.46E-04
3331	600368.2	4175678	0.001728364	1.73E-03	2.81E-04	1.47E-04
3332	600372	4175686	0.001740554	1.74E-03	2.83E-04	1.48E-04
3333	600375.8	4175695	0.001776425	1.78E-03	2.89E-04	1.51E-04
3334	600379.7	4175704	0.00181332	1.81E-03	2.95E-04	1.54E-04

3335	600383.5	4175713	0.001853626	1.85E-03	3.02E-04	1.57E-04
3336	600387.3	4175721	0.001880704	1.88E-03	3.06E-04	1.60E-04
3337	600391.1	4175730	0.001899433	1.90E-03	3.09E-04	1.61E-04
3338	600394.9	4175739	0.001908671	1.91E-03	3.11E-04	1.62E-04
3339	600398.8	4175748	0.00190618	1.91E-03	3.10E-04	1.62E-04
3340	600402.6	4175756	0.00188536	1.89E-03	3.07E-04	1.60E-04
3341	600406.4	4175765	0.001858193	1.86E-03	3.02E-04	1.58E-04
3342	600410.2	4175774	0.001825317	1.83E-03	2.97E-04	1.55E-04
3343	600414	4175783	0.001775269	1.78E-03	2.89E-04	1.51E-04
3344	600417.9	4175791	0.001709946	1.71E-03	2.78E-04	1.45E-04
3345	600421.7	4175800	0.001652009	1.65E-03	2.69E-04	1.40E-04
3346	600425.5	4175809	0.001599855	1.60E-03	2.60E-04	1.36E-04
3347	600429.3	4175817	0.00155476	1.55E-03	2.53E-04	1.32E-04
3348	600433.2	4175826	0.00152	1.52E-03	2.47E-04	1.29E-04
3349	600437	4175835	0.001490312	1.49E-03	2.42E-04	1.27E-04
3350	600440.8	4175844	0.001469863	1.47E-03	2.39E-04	1.25E-04
3351	600444.6	4175852	0.00145447	1.45E-03	2.37E-04	1.24E-04
3352	600448.4	4175861	0.001446729	1.45E-03	2.35E-04	1.23E-04
3353	600452.3	4175870	0.001441851	1.44E-03	2.35E-04	1.22E-04
3354	600456.1	4175879	0.001441658	1.44E-03	2.35E-04	1.22E-04
3355	600459.9	4175887	0.001439997	1.44E-03	2.34E-04	1.22E-04
3356	600463.7	4175896	0.001438559	1.44E-03	2.34E-04	1.22E-04
3357	600467.5	4175905	0.001440205	1.44E-03	2.34E-04	1.22E-04
3358	600471.4	4175914	0.001439552	1.44E-03	2.34E-04	1.22E-04
3359	600475.2	4175922	0.001441762	1.44E-03	2.35E-04	1.22E-04
3360	600479	4175931	0.001442399	1.44E-03	2.35E-04	1.22E-04
3361	600482.8	4175940	0.001443749	1.44E-03	2.35E-04	1.23E-04
3362	600486.7	4175948	0.001446462	1.45E-03	2.35E-04	1.23E-04
3363	600490.5	4175957	0.001449636	1.45E-03	2.36E-04	1.23E-04
3364	600494.3	4175966	0.001444905	1.44E-03	2.35E-04	1.23E-04
3365	600498.1	4175975	0.001437031	1.44E-03	2.34E-04	1.22E-04
3366	600501.9	4175983	0.001425909	1.43E-03	2.32E-04	1.21E-04
3367	600505.8	4175992	0.001407907	1.41E-03	2.29E-04	1.20E-04
3368	600509.6	4176001	0.0013859	1.39E-03	2.25E-04	1.18E-04
3369	600513.4	4176010	0.00136333	1.36E-03	2.22E-04	1.16E-04
3370	600517.2	4176018	0.001340746	1.34E-03	2.18E-04	1.14E-04
3371	600521	4176027	0.001320074	1.32E-03	2.15E-04	1.12E-04
3372	600524.9	4176036	0.001300485	1.30E-03	2.12E-04	1.10E-04
3373	600528.7	4176044	0.001281948	1.28E-03	2.09E-04	1.09E-04
3374	600532.5	4176053	0.001268469	1.27E-03	2.06E-04	1.08E-04
3375	599746.8	4175268	0.001263931	1.26E-03	2.06E-04	1.07E-04
3376	599737.3	4175268	0.001231173	1.23E-03	2.00E-04	1.05E-04
3377	599727.8	4175267	0.001195257	1.20E-03	1.94E-04	1.01E-04
3378	599718.3	4175267	0.001191402	1.19E-03	1.94E-04	1.01E-04
3379	599708.7	4175266	0.001209523	1.21E-03	1.97E-04	1.03E-04
3380	599699.2	4175266	0.00122582	1.23E-03	1.99E-04	1.04E-04
3381	599689.7	4175265	0.001284217	1.28E-03	2.09E-04	1.09E-04

3382	599756.4	4175252	0.001321438	1.32E-03	2.15E-04	1.12E-04
3383	599765.1	4175256	0.001345461	1.35E-03	2.19E-04	1.14E-04
3384	599773.7	4175260	0.001366563	1.37E-03	2.22E-04	1.16E-04
3385	599782.4	4175263	0.001384492	1.38E-03	2.25E-04	1.18E-04
3386	599791	4175267	0.001394353	1.39E-03	2.27E-04	1.18E-04
3387	599799.7	4175271	0.001393374	1.39E-03	2.27E-04	1.18E-04
3388	599808.3	4175275	0.001390957	1.39E-03	2.26E-04	1.18E-04
3389	599817	4175279	0.001399484	1.40E-03	2.28E-04	1.19E-04
3390	599825.6	4175283	0.001415232	1.42E-03	2.30E-04	1.20E-04
3391	599834.2	4175287	0.001472844	1.47E-03	2.40E-04	1.25E-04
3392	599842.9	4175290	0.001558971	1.56E-03	2.54E-04	1.32E-04
3393	599851.5	4175294	0.001647649	1.65E-03	2.68E-04	1.40E-04
3394	599860.2	4175298	0.001730426	1.73E-03	2.82E-04	1.47E-04
3395	599868.8	4175302	0.001808545	1.81E-03	2.94E-04	1.54E-04
3396	599877.5	4175306	0.001881846	1.88E-03	3.06E-04	1.60E-04
3397	599886.1	4175310	0.001948488	1.95E-03	3.17E-04	1.65E-04
3398	599894.8	4175313	0.00200988	2.01E-03	3.27E-04	1.71E-04
3399	599903.4	4175317	0.002066928	2.07E-03	3.36E-04	1.76E-04
3400	599912.1	4175321	0.002123798	2.12E-03	3.46E-04	1.80E-04
3401	599920.7	4175325	0.002175625	2.18E-03	3.54E-04	1.85E-04
3402	599929.4	4175329	0.002216346	2.22E-03	3.61E-04	1.88E-04
3403	599938	4175333	0.002211556	2.21E-03	3.60E-04	1.88E-04
3404	599946.6	4175336	0.002161538	2.16E-03	3.52E-04	1.84E-04
3405	599955.3	4175340	0.002105128	2.11E-03	3.42E-04	1.79E-04
3406	599963.9	4175344	0.002040221	2.04E-03	3.32E-04	1.73E-04
3407	599972.6	4175348	0.00195	1.95E-03	3.17E-04	1.66E-04
3408	599981.2	4175352	0.001840294	1.84E-03	2.99E-04	1.56E-04
3409	599989.9	4175356	0.001713861	1.71E-03	2.79E-04	1.46E-04
3410	599998.5	4175359	0.001637432	1.64E-03	2.66E-04	1.39E-04
3411	600007.2	4175363	0.001598995	1.60E-03	2.60E-04	1.36E-04
3412	600015.8	4175367	0.001560751	1.56E-03	2.54E-04	1.33E-04
3413	600024.5	4175371	0.001527682	1.53E-03	2.49E-04	1.30E-04
3414	600033.1	4175375	0.001540805	1.54E-03	2.51E-04	1.31E-04
3415	600041.7	4175379	0.001538136	1.54E-03	2.50E-04	1.31E-04
3416	600050.4	4175383	0.001520593	1.52E-03	2.47E-04	1.29E-04
3417	600059	4175386	0.001546188	1.55E-03	2.52E-04	1.31E-04
3418	600067.7	4175390	0.001602509	1.60E-03	2.61E-04	1.36E-04
3419	600076.3	4175394	0.001645321	1.65E-03	2.68E-04	1.40E-04
3420	600085	4175398	0.001678968	1.68E-03	2.73E-04	1.43E-04
3421	600093.6	4175402	0.001745566	1.75E-03	2.84E-04	1.48E-04
3422	600102.3	4175406	0.001825421	1.83E-03	2.97E-04	1.55E-04
3423	600110.9	4175409	0.001918488	1.92E-03	3.12E-04	1.63E-04
3424	600119.6	4175413	0.001999292	2.00E-03	3.25E-04	1.70E-04
3425	600128.2	4175417	0.002079147	2.08E-03	3.38E-04	1.77E-04
3426	600136.9	4175421	0.002146783	2.15E-03	3.49E-04	1.82E-04
3427	600145.5	4175425	0.002181349	2.18E-03	3.55E-04	1.85E-04
3428	600154.1	4175429	0.002116961	2.12E-03	3.44E-04	1.80E-04

3429	600162.8	4175432	0.002082499	2.08E-03	3.39E-04	1.77E-04
3430	600171.4	4175436	0.002075781	2.08E-03	3.38E-04	1.76E-04
3431	600180.1	4175440	0.002019415	2.02E-03	3.29E-04	1.71E-04
3432	600381.8	4175662	0.001793716	1.79E-03	2.92E-04	1.52E-04
3433	600385.6	4175671	0.0018194	1.82E-03	2.96E-04	1.54E-04
3434	600389.4	4175680	0.00184894	1.85E-03	3.01E-04	1.57E-04
3435	600393.2	4175688	0.001879962	1.88E-03	3.06E-04	1.60E-04
3436	600397	4175697	0.001913758	1.91E-03	3.11E-04	1.62E-04
3437	600400.8	4175706	0.00194653	1.95E-03	3.17E-04	1.65E-04
3438	600404.6	4175714	0.001976797	1.98E-03	3.22E-04	1.68E-04
3439	600408.4	4175723	0.001983455	1.98E-03	3.23E-04	1.68E-04
3440	600412.2	4175732	0.001975581	1.98E-03	3.21E-04	1.68E-04
3441	600416	4175740	0.001931642	1.93E-03	3.14E-04	1.64E-04
3442	600419.8	4175749	0.001870056	1.87E-03	3.04E-04	1.59E-04
3443	600423.6	4175758	0.001806588	1.81E-03	2.94E-04	1.53E-04
3444	600469.1	4175862	0.001471657	1.47E-03	2.39E-04	1.25E-04
3445	600472.9	4175870	0.001469551	1.47E-03	2.39E-04	1.25E-04
3446	600476.7	4175879	0.001476566	1.48E-03	2.40E-04	1.25E-04
3447	600480.5	4175888	0.001485211	1.49E-03	2.42E-04	1.26E-04
3448	600484.2	4175896	0.001495666	1.50E-03	2.43E-04	1.27E-04
3449	600488	4175905	0.001499521	1.50E-03	2.44E-04	1.27E-04
3450	600491.8	4175914	0.001500574	1.50E-03	2.44E-04	1.27E-04
3451	600495.6	4175922	0.00149872	1.50E-03	2.44E-04	1.27E-04
3452	600499.4	4175931	0.001501449	1.50E-03	2.44E-04	1.27E-04
3453	600503.2	4175940	0.001512245	1.51E-03	2.46E-04	1.28E-04
3454	600507	4175948	0.001524063	1.52E-03	2.48E-04	1.29E-04
3455	600510.8	4175957	0.001528734	1.53E-03	2.49E-04	1.30E-04
3456	600514.6	4175966	0.001510584	1.51E-03	2.46E-04	1.28E-04
3457	600518.4	4175974	0.001486991	1.49E-03	2.42E-04	1.26E-04
3458	600522.2	4175983	0.001458415	1.46E-03	2.37E-04	1.24E-04
3459	599747.8	4175248	0.001283698	1.28E-03	2.09E-04	1.09E-04
3460	599738.3	4175248	0.001230091	1.23E-03	2.00E-04	1.04E-04
3461	599728.7	4175247	0.001174467	1.17E-03	1.91E-04	9.97E-05
3462	599719.2	4175247	0.001153306	1.15E-03	1.88E-04	9.79E-05
3463	599709.7	4175246	0.001171353	1.17E-03	1.91E-04	9.95E-05
3464	599700.2	4175246	0.001190556	1.19E-03	1.94E-04	1.01E-04
3465	599690.6	4175245	0.001239018	1.24E-03	2.02E-04	1.05E-04
3466	599757.3	4175232	0.001340924	1.34E-03	2.18E-04	1.14E-04
3467	599765.9	4175236	0.001376276	1.38E-03	2.24E-04	1.17E-04
3468	599774.5	4175240	0.001398817	1.40E-03	2.28E-04	1.19E-04
3469	599783.1	4175243	0.001418317	1.42E-03	2.31E-04	1.20E-04
3470	599791.7	4175247	0.001450615	1.45E-03	2.36E-04	1.23E-04
3471	599800.3	4175251	0.001474193	1.47E-03	2.40E-04	1.25E-04
3472	599808.8	4175255	0.00148745	1.49E-03	2.42E-04	1.26E-04
3473	599817.4	4175259	0.001486219	1.49E-03	2.42E-04	1.26E-04
3474	599826	4175262	0.001479472	1.48E-03	2.41E-04	1.26E-04
3475	599834.6	4175266	0.001479116	1.48E-03	2.41E-04	1.26E-04

3476	599843.2	4175270	0.001507826	1.51E-03	2.45E-04	1.28E-04
3477	599851.8	4175274	0.0015847	1.58E-03	2.58E-04	1.35E-04
3478	599860.4	4175278	0.001632479	1.63E-03	2.66E-04	1.39E-04
3479	599868.9	4175282	0.001709516	1.71E-03	2.78E-04	1.45E-04
3480	599877.5	4175285	0.001780696	1.78E-03	2.90E-04	1.51E-04
3481	599886.1	4175289	0.001847012	1.85E-03	3.00E-04	1.57E-04
3482	599894.7	4175293	0.001906951	1.91E-03	3.10E-04	1.62E-04
3483	599903.3	4175297	0.001962575	1.96E-03	3.19E-04	1.67E-04
3484	599911.9	4175301	0.002026133	2.03E-03	3.30E-04	1.72E-04
3485	599920.4	4175304	0.002081149	2.08E-03	3.39E-04	1.77E-04
3486	599929	4175308	0.002130397	2.13E-03	3.47E-04	1.81E-04
3487	599937.6	4175312	0.002144143	2.14E-03	3.49E-04	1.82E-04
3488	599946.2	4175316	0.002115493	2.12E-03	3.44E-04	1.80E-04
3489	599954.8	4175320	0.002078954	2.08E-03	3.38E-04	1.77E-04
3490	599963.4	4175323	0.002031472	2.03E-03	3.30E-04	1.72E-04
3491	599972	4175327	0.001970094	1.97E-03	3.21E-04	1.67E-04
3492	599980.5	4175331	0.001894243	1.89E-03	3.08E-04	1.61E-04
3493	599989.1	4175335	0.001803652	1.80E-03	2.93E-04	1.53E-04
3494	599997.7	4175339	0.001735245	1.74E-03	2.82E-04	1.47E-04
3495	600006.3	4175343	0.00169967	1.70E-03	2.77E-04	1.44E-04
3496	600014.9	4175346	0.001655968	1.66E-03	2.69E-04	1.41E-04
3497	600023.5	4175350	0.001604319	1.60E-03	2.61E-04	1.36E-04
3498	600032.1	4175354	0.001629439	1.63E-03	2.65E-04	1.38E-04
3499	600040.6	4175358	0.001659438	1.66E-03	2.70E-04	1.41E-04
3500	600049.2	4175362	0.001685909	1.69E-03	2.74E-04	1.43E-04
3501	600057.8	4175365	0.001720964	1.72E-03	2.80E-04	1.46E-04
3502	600066.4	4175369	0.001778057	1.78E-03	2.89E-04	1.51E-04
3503	600075	4175373	0.001837595	1.84E-03	2.99E-04	1.56E-04
3504	600083.6	4175377	0.001897757	1.90E-03	3.09E-04	1.61E-04
3505	600092.1	4175381	0.001960025	1.96E-03	3.19E-04	1.66E-04
3506	600100.7	4175385	0.002026326	2.03E-03	3.30E-04	1.72E-04
3507	600109.3	4175388	0.002093442	2.09E-03	3.41E-04	1.78E-04
3508	600117.9	4175392	0.002139754	2.14E-03	3.48E-04	1.82E-04
3509	600126.5	4175396	0.00217303	2.17E-03	3.54E-04	1.85E-04
3510	600135.1	4175400	0.002225955	2.23E-03	3.62E-04	1.89E-04
3511	600143.7	4175404	0.002299374	2.30E-03	3.74E-04	1.95E-04
3512	600152.2	4175407	0.002222248	2.22E-03	3.62E-04	1.89E-04
3513	600160.8	4175411	0.002155072	2.16E-03	3.51E-04	1.83E-04
3514	600169.4	4175415	0.002098455	2.10E-03	3.41E-04	1.78E-04
3515	600178	4175419	0.001993568	1.99E-03	3.24E-04	1.69E-04
3516	600186.6	4175423	0.001870857	1.87E-03	3.04E-04	1.59E-04
3517	600195.2	4175426	0.001782327	1.78E-03	2.90E-04	1.51E-04
3518	600414.3	4175690	0.002047042	2.05E-03	3.33E-04	1.74E-04
3519	600418.1	4175699	0.002027023	2.03E-03	3.30E-04	1.72E-04
3520	600421.9	4175707	0.001995822	2.00E-03	3.25E-04	1.69E-04
3521	600425.6	4175716	0.001952655	1.95E-03	3.18E-04	1.66E-04
3522	600429.4	4175725	0.001891099	1.89E-03	3.08E-04	1.61E-04

3523	600433.2	4175733	0.001831679	1.83E-03	2.98E-04	1.56E-04
3524	599748.7	4175228	0.001290149	1.29E-03	2.10E-04	1.10E-04
3525	599739.2	4175228	0.001231959	1.23E-03	2.00E-04	1.05E-04
3526	599729.7	4175227	0.001175579	1.18E-03	1.91E-04	9.98E-05
3527	599720.2	4175227	0.001140849	1.14E-03	1.86E-04	9.69E-05
3528	599710.7	4175226	0.001142688	1.14E-03	1.86E-04	9.70E-05
3529	599701.1	4175226	0.001142436	1.14E-03	1.86E-04	9.70E-05
3530	599691.6	4175225	0.00115725	1.16E-03	1.88E-04	9.83E-05
3531	599758.4	4175212	0.001318042	1.32E-03	2.14E-04	1.12E-04
3532	599767	4175216	0.001371145	1.37E-03	2.23E-04	1.16E-04
3533	599775.7	4175220	0.00141418	1.41E-03	2.30E-04	1.20E-04
3534	599784.3	4175224	0.001450896	1.45E-03	2.36E-04	1.23E-04
3535	599793	4175227	0.001501286	1.50E-03	2.44E-04	1.27E-04
3536	599801.6	4175231	0.001541191	1.54E-03	2.51E-04	1.31E-04
3537	599810.3	4175235	0.001571606	1.57E-03	2.56E-04	1.33E-04
3538	599818.9	4175239	0.001565363	1.57E-03	2.55E-04	1.33E-04
3539	599827.6	4175243	0.001542941	1.54E-03	2.51E-04	1.31E-04
3540	599836.2	4175247	0.001525887	1.53E-03	2.48E-04	1.30E-04
3541	599844.9	4175250	0.001519303	1.52E-03	2.47E-04	1.29E-04
3542	599853.5	4175254	0.001554686	1.55E-03	2.53E-04	1.32E-04
3543	599862.2	4175258	0.001600596	1.60E-03	2.60E-04	1.36E-04
3544	599870.8	4175262	0.001656695	1.66E-03	2.70E-04	1.41E-04
3545	599879.5	4175266	0.001721083	1.72E-03	2.80E-04	1.46E-04
3546	599888.2	4175270	0.001765852	1.77E-03	2.87E-04	1.50E-04
3547	599896.8	4175274	0.001825035	1.83E-03	2.97E-04	1.55E-04
3548	599905.5	4175277	0.001882884	1.88E-03	3.06E-04	1.60E-04
3549	599914.1	4175281	0.001946426	1.95E-03	3.17E-04	1.65E-04
3550	599922.8	4175285	0.002003133	2.00E-03	3.26E-04	1.70E-04
3551	599931.4	4175289	0.002055183	2.06E-03	3.34E-04	1.75E-04
3552	599940.1	4175293	0.002061471	2.06E-03	3.35E-04	1.75E-04
3553	599948.7	4175297	0.002048495	2.05E-03	3.33E-04	1.74E-04
3554	599957.4	4175300	0.002027408	2.03E-03	3.30E-04	1.72E-04
3555	599966	4175304	0.002000805	2.00E-03	3.25E-04	1.70E-04
3556	599974.7	4175308	0.001966431	1.97E-03	3.20E-04	1.67E-04
3557	599983.3	4175312	0.001919927	1.92E-03	3.12E-04	1.63E-04
3558	599992	4175316	0.00185757	1.86E-03	3.02E-04	1.58E-04
3559	600000.6	4175320	0.001832079	1.83E-03	2.98E-04	1.56E-04
3560	600009.3	4175323	0.001806306	1.81E-03	2.94E-04	1.53E-04
3561	600018	4175327	0.001775714	1.78E-03	2.89E-04	1.51E-04
3562	600026.6	4175331	0.001774349	1.77E-03	2.89E-04	1.51E-04
3563	600035.3	4175335	0.00181808	1.82E-03	2.96E-04	1.54E-04
3564	600043.9	4175339	0.001857348	1.86E-03	3.02E-04	1.58E-04
3565	600052.6	4175343	0.001891499	1.89E-03	3.08E-04	1.61E-04
3566	600061.2	4175347	0.001935794	1.94E-03	3.15E-04	1.64E-04
3567	600069.9	4175350	0.001981853	1.98E-03	3.22E-04	1.68E-04
3568	600078.5	4175354	0.002029662	2.03E-03	3.30E-04	1.72E-04
3569	600087.2	4175358	0.002085539	2.09E-03	3.39E-04	1.77E-04

3570	600095.8	4175362	0.002148132	2.15E-03	3.49E-04	1.82E-04
3571	600104.5	4175366	0.002213796	2.21E-03	3.60E-04	1.88E-04
3572	600113.1	4175370	0.002281135	2.28E-03	3.71E-04	1.94E-04
3573	600121.8	4175373	0.002292479	2.29E-03	3.73E-04	1.95E-04
3574	600130.4	4175377	0.002301035	2.30E-03	3.74E-04	1.95E-04
3575	600139.1	4175381	0.002309206	2.31E-03	3.76E-04	1.96E-04
3576	600147.8	4175385	0.002253463	2.25E-03	3.67E-04	1.91E-04
3577	600156.4	4175389	0.002151054	2.15E-03	3.50E-04	1.83E-04
3578	600165.1	4175393	0.002065549	2.07E-03	3.36E-04	1.75E-04
3579	600173.7	4175397	0.00199078	1.99E-03	3.24E-04	1.69E-04
3580	600182.4	4175400	0.001881475	1.88E-03	3.06E-04	1.60E-04
3581	600191	4175404	0.001765318	1.77E-03	2.87E-04	1.50E-04
3582	600199.7	4175408	0.00164805	1.65E-03	2.68E-04	1.40E-04
3583	600208.3	4175412	0.001562693	1.56E-03	2.54E-04	1.33E-04
3584	599749.7	4175208	0.001268024	1.27E-03	2.06E-04	1.08E-04
3585	599740.2	4175208	0.001230284	1.23E-03	2.00E-04	1.04E-04
3586	599730.7	4175207	0.001192276	1.19E-03	1.94E-04	1.01E-04
3587	599721.1	4175207	0.001156449	1.16E-03	1.88E-04	9.82E-05
3588	599711.6	4175206	0.001123321	1.12E-03	1.83E-04	9.54E-05
3589	599702.1	4175206	0.001089155	1.09E-03	1.77E-04	9.25E-05
3590	599692.6	4175205	0.001065265	1.07E-03	1.73E-04	9.05E-05
3591	599759.3	4175192	0.001329654	1.33E-03	2.16E-04	1.13E-04
3592	599767.9	4175196	0.001380221	1.38E-03	2.25E-04	1.17E-04
3593	599776.4	4175200	0.00142803	1.43E-03	2.32E-04	1.21E-04
3594	599785	4175203	0.001478182	1.48E-03	2.40E-04	1.26E-04
3595	599793.6	4175207	0.001542303	1.54E-03	2.51E-04	1.31E-04
3596	599802.2	4175211	0.001596608	1.60E-03	2.60E-04	1.36E-04
3597	599810.8	4175215	0.001641228	1.64E-03	2.67E-04	1.39E-04
3598	599819.4	4175219	0.001646626	1.65E-03	2.68E-04	1.40E-04
3599	599828	4175223	0.00162846	1.63E-03	2.65E-04	1.38E-04
3600	599836.6	4175226	0.001603295	1.60E-03	2.61E-04	1.36E-04
3601	599845.2	4175230	0.001566178	1.57E-03	2.55E-04	1.33E-04
3602	599853.8	4175234	0.001552669	1.55E-03	2.53E-04	1.32E-04
3603	599862.4	4175238	0.00155427	1.55E-03	2.53E-04	1.32E-04
3604	599871	4175242	0.001577849	1.58E-03	2.57E-04	1.34E-04
3605	599879.6	4175245	0.001632435	1.63E-03	2.66E-04	1.39E-04
3606	599888.2	4175249	0.001692715	1.69E-03	2.75E-04	1.44E-04
3607	599896.8	4175253	0.001735349	1.74E-03	2.82E-04	1.47E-04
3608	599905.4	4175257	0.001793212	1.79E-03	2.92E-04	1.52E-04
3609	599914	4175261	0.001858089	1.86E-03	3.02E-04	1.58E-04
3610	599922.6	4175265	0.001911385	1.91E-03	3.11E-04	1.62E-04
3611	599931.2	4175268	0.001959669	1.96E-03	3.19E-04	1.66E-04
3612	599939.8	4175272	0.001979303	1.98E-03	3.22E-04	1.68E-04
3613	599948.3	4175276	0.0019843	1.98E-03	3.23E-04	1.68E-04
3614	599956.9	4175280	0.001985501	1.99E-03	3.23E-04	1.69E-04
3615	599965.5	4175284	0.001979644	1.98E-03	3.22E-04	1.68E-04
3616	599974.1	4175287	0.001964266	1.96E-03	3.20E-04	1.67E-04

3617	599982.7	4175291	0.001946871	1.95E-03	3.17E-04	1.65E-04
3618	599991.3	4175295	0.001926704	1.93E-03	3.13E-04	1.64E-04
3619	599999.9	4175299	0.001931123	1.93E-03	3.14E-04	1.64E-04
3620	600008.5	4175303	0.001941399	1.94E-03	3.16E-04	1.65E-04
3621	600017.1	4175307	0.00194616	1.95E-03	3.17E-04	1.65E-04
3622	600025.7	4175310	0.001951824	1.95E-03	3.18E-04	1.66E-04
3623	600034.3	4175314	0.001982832	1.98E-03	3.23E-04	1.68E-04
3624	600042.9	4175318	0.002017013	2.02E-03	3.28E-04	1.71E-04
3625	600051.5	4175322	0.002053003	2.05E-03	3.34E-04	1.74E-04
3626	600060.1	4175326	0.002090551	2.09E-03	3.40E-04	1.78E-04
3627	600068.7	4175329	0.00213793	2.14E-03	3.48E-04	1.82E-04
3628	600077.3	4175333	0.002187311	2.19E-03	3.56E-04	1.86E-04
3629	600085.9	4175337	0.002229826	2.23E-03	3.63E-04	1.89E-04
3630	600094.5	4175341	0.002259158	2.26E-03	3.68E-04	1.92E-04
3631	600103.1	4175345	0.002300887	2.30E-03	3.74E-04	1.95E-04
3632	600111.7	4175349	0.002355636	2.36E-03	3.83E-04	2.00E-04
3633	600120.2	4175352	0.002388142	2.39E-03	3.89E-04	2.03E-04
3634	600128.8	4175356	0.002415798	2.42E-03	3.93E-04	2.05E-04
3635	600137.4	4175360	0.002430449	2.43E-03	3.95E-04	2.06E-04
3636	600146	4175364	0.002412313	2.41E-03	3.92E-04	2.05E-04
3637	600154.6	4175368	0.002300724	2.30E-03	3.74E-04	1.95E-04
3638	600163.2	4175371	0.002180489	2.18E-03	3.55E-04	1.85E-04
3639	600171.8	4175375	0.002054412	2.05E-03	3.34E-04	1.74E-04
3640	600180.4	4175379	0.001948087	1.95E-03	3.17E-04	1.65E-04
3641	600189	4175383	0.00182987	1.83E-03	2.98E-04	1.55E-04
3642	600197.6	4175387	0.001708375	1.71E-03	2.78E-04	1.45E-04
3643	600206.2	4175391	0.001641332	1.64E-03	2.67E-04	1.39E-04
3644	600214.8	4175394	0.00161375	1.61E-03	2.63E-04	1.37E-04
3645	600223.4	4175398	0.001570864	1.57E-03	2.56E-04	1.33E-04
3646	599750.7	4175188	0.001281296	1.28E-03	2.08E-04	1.09E-04
3647	599741.1	4175188	0.001231114	1.23E-03	2.00E-04	1.05E-04
3648	599731.6	4175187	0.001179479	1.18E-03	1.92E-04	1.00E-04
3649	599722.1	4175187	0.001136074	1.14E-03	1.85E-04	9.65E-05
3650	599712.6	4175186	0.001135273	1.14E-03	1.85E-04	9.64E-05
3651	599703	4175186	0.001136712	1.14E-03	1.85E-04	9.65E-05
3652	599693.5	4175185	0.001139574	1.14E-03	1.85E-04	9.68E-05
3653	599760.3	4175172	0.001351141	1.35E-03	2.20E-04	1.15E-04
3654	599768.9	4175176	0.0014007	1.40E-03	2.28E-04	1.19E-04
3655	599777.6	4175180	0.001448361	1.45E-03	2.36E-04	1.23E-04
3656	599786.3	4175184	0.001500381	1.50E-03	2.44E-04	1.27E-04
3657	599794.9	4175187	0.001563954	1.56E-03	2.54E-04	1.33E-04
3658	599803.6	4175191	0.001604052	1.60E-03	2.61E-04	1.36E-04
3659	599812.2	4175195	0.001655612	1.66E-03	2.69E-04	1.41E-04
3660	599820.9	4175199	0.001691707	1.69E-03	2.75E-04	1.44E-04
3661	599829.6	4175203	0.00169878	1.70E-03	2.76E-04	1.44E-04
3662	599838.2	4175207	0.001700767	1.70E-03	2.77E-04	1.44E-04
3663	599846.9	4175211	0.001673185	1.67E-03	2.72E-04	1.42E-04

3664	599855.5	4175214	0.001630166	1.63E-03	2.65E-04	1.38E-04
3665	599864.2	4175218	0.001595465	1.60E-03	2.60E-04	1.35E-04
3666	599872.9	4175222	0.001571813	1.57E-03	2.56E-04	1.33E-04
3667	599881.5	4175226	0.00159032	1.59E-03	2.59E-04	1.35E-04
3668	599890.2	4175230	0.001626073	1.63E-03	2.65E-04	1.38E-04
3669	599898.8	4175234	0.001674297	1.67E-03	2.72E-04	1.42E-04
3670	599907.5	4175237	0.001730529	1.73E-03	2.82E-04	1.47E-04
3671	599916.2	4175241	0.001802184	1.80E-03	2.93E-04	1.53E-04
3672	599924.8	4175245	0.001859276	1.86E-03	3.02E-04	1.58E-04
3673	599933.5	4175249	0.001905454	1.91E-03	3.10E-04	1.62E-04
3674	599942.1	4175253	0.001917806	1.92E-03	3.12E-04	1.63E-04
3675	599950.8	4175257	0.001929655	1.93E-03	3.14E-04	1.64E-04
3676	599959.5	4175261	0.001942215	1.94E-03	3.16E-04	1.65E-04
3677	599968.1	4175264	0.001946753	1.95E-03	3.17E-04	1.65E-04
3678	599976.8	4175268	0.001940747	1.94E-03	3.16E-04	1.65E-04
3679	599985.4	4175272	0.001932873	1.93E-03	3.14E-04	1.64E-04
3680	599994.1	4175276	0.001925399	1.93E-03	3.13E-04	1.63E-04
3681	600002.8	4175280	0.001946085	1.95E-03	3.17E-04	1.65E-04
3682	600011.4	4175284	0.001970628	1.97E-03	3.21E-04	1.67E-04
3683	600020.1	4175287	0.001999737	2.00E-03	3.25E-04	1.70E-04
3684	600028.7	4175291	0.002035416	2.04E-03	3.31E-04	1.73E-04
3685	600037.4	4175295	0.002086562	2.09E-03	3.39E-04	1.77E-04
3686	600046.1	4175299	0.002127653	2.13E-03	3.46E-04	1.81E-04
3687	600054.7	4175303	0.002163955	2.16E-03	3.52E-04	1.84E-04
3688	600063.4	4175307	0.002188171	2.19E-03	3.56E-04	1.86E-04
3689	600072	4175311	0.002220395	2.22E-03	3.61E-04	1.89E-04
3690	600080.7	4175314	0.002260151	2.26E-03	3.68E-04	1.92E-04
3691	600089.4	4175318	0.002279845	2.28E-03	3.71E-04	1.94E-04
3692	600098	4175322	0.002301362	2.30E-03	3.74E-04	1.95E-04
3693	600106.7	4175326	0.002344677	2.34E-03	3.81E-04	1.99E-04
3694	600115.3	4175330	0.002372645	2.37E-03	3.86E-04	2.01E-04
3695	600124	4175334	0.002388839	2.39E-03	3.89E-04	2.03E-04
3696	600132.7	4175337	0.002408206	2.41E-03	3.92E-04	2.04E-04
3697	600141.3	4175341	0.002433163	2.43E-03	3.96E-04	2.07E-04
3698	600150	4175345	0.002415739	2.42E-03	3.93E-04	2.05E-04
3699	600158.6	4175349	0.00235789	2.36E-03	3.84E-04	2.00E-04
3700	600167.3	4175353	0.002267863	2.27E-03	3.69E-04	1.93E-04
3701	600176	4175357	0.002174424	2.17E-03	3.54E-04	1.85E-04
3702	600184.6	4175361	0.00213188	2.13E-03	3.47E-04	1.81E-04
3703	600193.3	4175364	0.002063236	2.06E-03	3.36E-04	1.75E-04
3704	600201.9	4175368	0.001970257	1.97E-03	3.21E-04	1.67E-04
3705	600210.6	4175372	0.001908019	1.91E-03	3.10E-04	1.62E-04
3706	600219.3	4175376	0.00185106	1.85E-03	3.01E-04	1.57E-04
3707	600227.9	4175380	0.001789653	1.79E-03	2.91E-04	1.52E-04
3708	600236.6	4175384	0.00173004	1.73E-03	2.81E-04	1.47E-04
3709	600245.2	4175387	0.0017036	1.70E-03	2.77E-04	1.45E-04
3710	600253.9	4175391	0.001689082	1.69E-03	2.75E-04	1.43E-04

3711	600340.5	4175430	0.00139072	1.39E-03	2.26E-04	1.18E-04
3712	600349.2	4175434	0.001386138	1.39E-03	2.26E-04	1.18E-04
3713	600357.8	4175438	0.001388733	1.39E-03	2.26E-04	1.18E-04
3714	600370.3	4175450	0.00138418	1.38E-03	2.25E-04	1.18E-04
3715	599751.6	4175168	0.001303732	1.30E-03	2.12E-04	1.11E-04
3716	599742.1	4175168	0.00125837	1.26E-03	2.05E-04	1.07E-04
3717	599732.6	4175167	0.001199988	1.20E-03	1.95E-04	1.02E-04
3718	599723	4175167	0.001165806	1.17E-03	1.90E-04	9.90E-05
3719	599713.5	4175166	0.001188273	1.19E-03	1.93E-04	1.01E-04
3720	599704	4175166	0.001199202	1.20E-03	1.95E-04	1.02E-04
3721	599694.5	4175165	0.001210605	1.21E-03	1.97E-04	1.03E-04
3722	599666.2	4175225	0.001315195	1.32E-03	2.14E-04	1.12E-04
3723	599666.6	4175205	0.001118709	1.12E-03	1.82E-04	9.50E-05
3724	599666.9	4175185	0.00114638	1.15E-03	1.86E-04	9.73E-05
3725	599649.1	4175184	0.001315521	1.32E-03	2.14E-04	1.12E-04
3726	599665.5	4175165	0.001222305	1.22E-03	1.99E-04	1.04E-04
3727	599680	4175165	0.001216315	1.22E-03	1.98E-04	1.03E-04
3728	599649.3	4175164	0.001323114	1.32E-03	2.15E-04	1.12E-04
3729	599561.8	4175935	0.0416563	4.17E-02	6.78E-03	3.54E-03
3730	599561.3	4175925	0.03702592	3.70E-02	6.02E-03	3.14E-03
3731	599560.9	4175915	0.03339006	3.34E-02	5.43E-03	2.84E-03
3732	599560.4	4175905	0.03037601	3.04E-02	4.94E-03	2.58E-03
3733	599560	4175895	0.02778075	2.78E-02	4.52E-03	2.36E-03
3734	599559.6	4175885	0.0253183	2.53E-02	4.12E-03	2.15E-03
3735	599559.1	4175875	0.02319575	2.32E-02	3.77E-03	1.97E-03
3736	599558.7	4175865	0.02136536	2.14E-02	3.48E-03	1.81E-03
3737	599558.2	4175855	0.01985564	1.99E-02	3.23E-03	1.69E-03
3738	599557.8	4175845	0.01850844	1.85E-02	3.01E-03	1.57E-03
3739	599557.4	4175835	0.01730132	1.73E-02	2.81E-03	1.47E-03
3740	599556.9	4175825	0.01624233	1.62E-02	2.64E-03	1.38E-03
3741	599556.5	4175815	0.01527462	1.53E-02	2.48E-03	1.30E-03
3742	599556	4175805	0.0143761	1.44E-02	2.34E-03	1.22E-03
3743	599555.6	4175795	0.01347656	1.35E-02	2.19E-03	1.14E-03
3744	599555.2	4175785	0.01265526	1.27E-02	2.06E-03	1.07E-03
3745	599552.2	4175505	0.004089383	4.09E-03	6.65E-04	3.47E-04
3746	599542.8	4175505	0.004102625	4.10E-03	6.67E-04	3.48E-04
3747	599560.7	4175484	0.003850649	3.85E-03	6.26E-04	3.27E-04
3748	599551.3	4175485	0.003864248	3.86E-03	6.29E-04	3.28E-04
3749	599541.9	4175485	0.003872003	3.87E-03	6.30E-04	3.29E-04
3750	599559.8	4175464	0.003657811	3.66E-03	5.95E-04	3.11E-04
3751	599550.4	4175465	0.003665923	3.67E-03	5.96E-04	3.11E-04
3752	599541.1	4175465	0.00366831	3.67E-03	5.97E-04	3.11E-04
3753	599558.9	4175444	0.003480292	3.48E-03	5.66E-04	2.96E-04
3754	599549.6	4175445	0.003483406	3.48E-03	5.67E-04	2.96E-04
3755	599540.2	4175445	0.003477415	3.48E-03	5.66E-04	2.95E-04
3756	599567.4	4175424	0.00331035	3.31E-03	5.39E-04	2.81E-04
3757	599558	4175424	0.003312204	3.31E-03	5.39E-04	2.81E-04

3758	599548.7	4175425	0.003302743	3.30E-03	5.37E-04	2.80E-04
3759	599539.3	4175425	0.003272358	3.27E-03	5.32E-04	2.78E-04
3760	599557.2	4175404	0.003137294	3.14E-03	5.10E-04	2.66E-04
3761	599547.8	4175405	0.003101422	3.10E-03	5.05E-04	2.63E-04
3762	599538.4	4175405	0.003065922	3.07E-03	4.99E-04	2.60E-04
3763	599556.3	4175384	0.002946532	2.95E-03	4.79E-04	2.50E-04
3764	599546.9	4175385	0.002895209	2.90E-03	4.71E-04	2.46E-04
3765	599537.5	4175385	0.002862748	2.86E-03	4.66E-04	2.43E-04
3766	599555.4	4175364	0.002776694	2.78E-03	4.52E-04	2.36E-04
3767	599546	4175365	0.002750595	2.75E-03	4.47E-04	2.34E-04
3768	599536.7	4175365	0.002730591	2.73E-03	4.44E-04	2.32E-04
3769	599541.6	4175265	0.00226205	2.26E-03	3.68E-04	1.92E-04
3770	599532.3	4175265	0.002242609	2.24E-03	3.65E-04	1.90E-04
3771	599540.7	4175245	0.002170331	2.17E-03	3.53E-04	1.84E-04
3772	599531.4	4175245	0.002151839	2.15E-03	3.50E-04	1.83E-04
3773	599539.9	4175225	0.002079637	2.08E-03	3.38E-04	1.77E-04
3774	599530.5	4175225	0.002060922	2.06E-03	3.35E-04	1.75E-04
3775	599539	4175205	0.001989935	1.99E-03	3.24E-04	1.69E-04
3776	599529.6	4175205	0.001970568	1.97E-03	3.21E-04	1.67E-04
3777	599538.1	4175185	0.001906714	1.91E-03	3.10E-04	1.62E-04
3778	599528.7	4175185	0.001890817	1.89E-03	3.08E-04	1.61E-04
3779	599537.2	4175165	0.001837477	1.84E-03	2.99E-04	1.56E-04
3780	599527.8	4175165	0.001821966	1.82E-03	2.96E-04	1.55E-04
3781	599771	4175269	0.001337454	1.34E-03	2.18E-04	1.14E-04
3782	599775.7	4175249	0.001388866	1.39E-03	2.26E-04	1.18E-04
3783	599802.8	4175446	0.001486931	1.49E-03	2.42E-04	1.26E-04
3784	599713	4175777	0.002364445	2.36E-03	3.85E-04	2.01E-04
3785	599716.8	4175757	0.002267462	2.27E-03	3.69E-04	1.93E-04
3786	599730.7	4175741	0.002247235	2.25E-03	3.66E-04	1.91E-04
3787	599734.6	4175721	0.001891514	1.89E-03	3.08E-04	1.61E-04
3788	599849.7	4175488	0.002563644	2.56E-03	4.17E-04	2.18E-04
3789	599863.6	4175472	0.002512439	2.51E-03	4.09E-04	2.13E-04
3790	600122.4	4175405	0.002088845	2.09E-03	3.40E-04	1.77E-04
3791	599858.3	4175654	0.003587432	3.59E-03	5.84E-04	3.05E-04
3792	599876.3	4175643	0.003846675	3.85E-03	6.26E-04	3.27E-04
3793	599888.5	4175627	0.004149382	4.15E-03	6.75E-04	3.52E-04
3794	599906.5	4175616	0.00426103	4.26E-03	6.93E-04	3.62E-04
3795	599918.7	4175600	0.003948062	3.95E-03	6.42E-04	3.35E-04
3796	599947.9	4175572	0.002587045	2.59E-03	4.21E-04	2.20E-04
3797	599960.3	4175556	0.002171785	2.17E-03	3.53E-04	1.84E-04
3798	599977.7	4175545	0.001972629	1.97E-03	3.21E-04	1.67E-04
3799	599990.2	4175529	0.001931138	1.93E-03	3.14E-04	1.64E-04
3800	600002.8	4175514	0.002052811	2.05E-03	3.34E-04	1.74E-04
3801	600020.7	4175502	0.002089839	2.09E-03	3.40E-04	1.77E-04
3802	600033.4	4175487	0.002067566	2.07E-03	3.36E-04	1.76E-04
3803	600048	4175473	0.001675765	1.68E-03	2.73E-04	1.42E-04
3804	600060.7	4175458	0.001397779	1.40E-03	2.27E-04	1.19E-04

3805	600078.5	4175446	0.00134125	1.34E-03	2.18E-04	1.14E-04
3806	600104.1	4175416	0.001754345	1.75E-03	2.85E-04	1.49E-04
3807	599790.3	4175806	0.005139982	5.14E-03	8.36E-04	4.36E-04
3808	599818.4	4175778	0.004692098	4.69E-03	7.63E-04	3.98E-04
3809	599846.5	4175750	0.004634473	4.63E-03	7.54E-04	3.94E-04
3810	599864.4	4175739	0.004885307	4.89E-03	7.95E-04	4.15E-04
3811	599878.4	4175725	0.00495361	4.95E-03	8.06E-04	4.21E-04
3812	599892.5	4175711	0.004623499	4.62E-03	7.52E-04	3.93E-04
3813	599906.5	4175696	0.004366733	4.37E-03	7.10E-04	3.71E-04
3814	599920.6	4175682	0.004446202	4.45E-03	7.23E-04	3.78E-04
3815	599934.6	4175668	0.004562966	4.56E-03	7.42E-04	3.87E-04
3816	599948.6	4175654	0.004779442	4.78E-03	7.78E-04	4.06E-04
3817	599962.7	4175639	0.00470669	4.71E-03	7.66E-04	4.00E-04
3818	599976.7	4175625	0.004507387	4.51E-03	7.33E-04	3.83E-04
3819	599990.8	4175611	0.00409699	4.10E-03	6.67E-04	3.48E-04
3820	600004.8	4175597	0.003627842	3.63E-03	5.90E-04	3.08E-04
3821	600032.9	4175568	0.00228112	2.28E-03	3.71E-04	1.94E-04
3822	600047	4175554	0.002145329	2.15E-03	3.49E-04	1.82E-04
3823	600061	4175540	0.001999426	2.00E-03	3.25E-04	1.70E-04
3824	600064.3	4175602	0.00361061	3.61E-03	5.87E-04	3.07E-04
3825	600335.3	4175905	0.001705216	1.71E-03	2.77E-04	1.45E-04
3826	600355	4175901	0.001675647	1.68E-03	2.73E-04	1.42E-04
3827	600375.9	4175904	0.00156474	1.56E-03	2.55E-04	1.33E-04
3828	599820.4	4175983	0.01362008	1.36E-02	2.22E-03	1.16E-03
3829	600127.8	4175892	0.003248186	3.25E-03	5.28E-04	2.76E-04
3830	600131	4175907	0.003100933	3.10E-03	5.04E-04	2.63E-04
3831	600148.7	4175894	0.003026135	3.03E-03	4.92E-04	2.57E-04
3832	600150.9	4175904	0.002941431	2.94E-03	4.79E-04	2.50E-04
3833	600169.9	4175897	0.002820841	2.82E-03	4.59E-04	2.40E-04
3834	600190.8	4175899	0.002543758	2.54E-03	4.14E-04	2.16E-04
3835	600210.8	4175897	0.002325978	2.33E-03	3.78E-04	1.98E-04
3836	600231.4	4175898	0.00215003	2.15E-03	3.50E-04	1.83E-04
3837	600233.7	4175908	0.002122226	2.12E-03	3.45E-04	1.80E-04
3838	600252.7	4175901	0.002037596	2.04E-03	3.31E-04	1.73E-04
3839	600272.1	4175896	0.00197343	1.97E-03	3.21E-04	1.68E-04
3840	600274.3	4175906	0.001933006	1.93E-03	3.14E-04	1.64E-04
3841	600293.7	4175902	0.001884619	1.88E-03	3.07E-04	1.60E-04
3842	600314.3	4175902	0.001776529	1.78E-03	2.89E-04	1.51E-04
3843	600398.4	4175820	0.00169488	1.69E-03	2.76E-04	1.44E-04
3844	600417.4	4175814	0.001621431	1.62E-03	2.64E-04	1.38E-04
3845	599552.3	4175960	0.06136047	6.14E-02	9.98E-03	5.21E-03
3846	599749.6	4175912	0.01007571	1.01E-02	1.64E-03	8.56E-04
3847	599689.7	4175778	0.00203202	2.03E-03	3.31E-04	1.73E-04
3848	599864.4	4175940	0.008656753	8.66E-03	1.41E-03	7.35E-04
3849	599710	4175715	0.001526006	1.53E-03	2.48E-04	1.30E-04
3850	599754.3	4175772	0.003441602	3.44E-03	5.60E-04	2.92E-04
3851	599780.2	4175804	0.004872094	4.87E-03	7.93E-04	4.14E-04

3852	599719.1	4175697	0.001375535	1.38E-03	2.24E-04	1.17E-04
3853	599814.9	4175819	0.005898892	5.90E-03	9.60E-04	5.01E-04
3854	599775.9	4175740	0.003308155	3.31E-03	5.38E-04	2.81E-04
3855	599801.6	4175773	0.004325671	4.33E-03	7.04E-04	3.67E-04
3856	599849.3	4175833	0.006463838	6.46E-03	1.05E-03	5.49E-04
3857	599836.1	4175787	0.005115055	5.12E-03	8.32E-04	4.34E-04
3858	599861.7	4175819	0.006036003	6.04E-03	9.82E-04	5.13E-04
3859	599820.7	4175738	0.004225589	4.23E-03	6.87E-04	3.59E-04
3860	599846.7	4175771	0.004928608	4.93E-03	8.02E-04	4.18E-04
3861	599872.6	4175804	0.005705491	5.71E-03	9.28E-04	4.84E-04
3862	599898.5	4175837	0.00628614	6.29E-03	1.02E-03	5.34E-04
3863	599928.1	4175874	0.006346703	6.35E-03	1.03E-03	5.39E-04
3864	599833.3	4175725	0.004321592	4.32E-03	7.03E-04	3.67E-04
3865	599881.3	4175785	0.005626244	5.63E-03	9.15E-04	4.78E-04
3866	599932.9	4175851	0.006252404	6.25E-03	1.02E-03	5.31E-04
3867	599820.1	4175678	0.003129376	3.13E-03	5.09E-04	2.66E-04
3868	599893.7	4175772	0.005731382	5.73E-03	9.32E-04	4.87E-04
3869	599919.4	4175804	0.005781135	5.78E-03	9.40E-04	4.91E-04
3870	599945.2	4175837	0.005821944	5.82E-03	9.47E-04	4.94E-04
3871	599781.4	4175600	0.00141848	1.42E-03	2.31E-04	1.20E-04
3872	599807	4175633	0.002307456	2.31E-03	3.75E-04	1.96E-04
3873	599816.7	4175615	0.002840771	2.84E-03	4.62E-04	2.41E-04
3874	599916.8	4175742	0.004990401	4.99E-03	8.12E-04	4.24E-04
3875	599965	4175803	0.005303592	5.30E-03	8.63E-04	4.50E-04
3876	599803.6	4175569	0.00238912	2.39E-03	3.89E-04	2.03E-04
3877	599851.6	4175630	0.00415911	4.16E-03	6.77E-04	3.53E-04
3878	599877.5	4175663	0.003794462	3.79E-03	6.17E-04	3.22E-04
3879	599951.4	4175757	0.005180495	5.18E-03	8.43E-04	4.40E-04
3880	599777.7	4175537	0.001883462	1.88E-03	3.06E-04	1.60E-04
3881	599812.7	4175552	0.002664734	2.66E-03	4.34E-04	2.26E-04
3882	599838.5	4175584	0.003575435	3.58E-03	5.82E-04	3.04E-04
3883	599912.2	4175678	0.004250769	4.25E-03	6.92E-04	3.61E-04
3884	599938	4175710	0.004555448	4.56E-03	7.41E-04	3.87E-04
3885	599799.7	4175506	0.001921528	1.92E-03	3.13E-04	1.63E-04
3886	599873.2	4175599	0.004237927	4.24E-03	6.89E-04	3.60E-04
3887	599899	4175631	0.004117084	4.12E-03	6.70E-04	3.50E-04
3888	599950.4	4175697	0.004991024	4.99E-03	8.12E-04	4.24E-04
3889	599998.2	4175757	0.005135608	5.14E-03	8.35E-04	4.36E-04
3890	599834.9	4175521	0.002796447	2.80E-03	4.55E-04	2.37E-04
3891	599860.8	4175554	0.003308585	3.31E-03	5.38E-04	2.81E-04
3892	599935	4175648	0.004522483	4.52E-03	7.36E-04	3.84E-04
3893	599983.2	4175709	0.004940501	4.94E-03	8.04E-04	4.20E-04
3894	599821.8	4175475	0.001817606	1.82E-03	2.96E-04	1.54E-04
3895	599969.8	4175662	0.00509637	5.10E-03	8.29E-04	4.33E-04
3896	599995.6	4175695	0.004844156	4.84E-03	7.88E-04	4.11E-04
3897	600139.9	4175878	0.003190827	3.19E-03	5.19E-04	2.71E-04
3898	599882.6	4175523	0.002876583	2.88E-03	4.68E-04	2.44E-04

3899	599956.4	4175616	0.004103234	4.10E-03	6.68E-04	3.48E-04
3900	599982.2	4175649	0.004712548	4.71E-03	7.67E-04	4.00E-04
3901	600155.7	4175868	0.00298967	2.99E-03	4.86E-04	2.54E-04
3902	599843.8	4175444	0.002053789	2.05E-03	3.34E-04	1.74E-04
3903	599917.4	4175537	0.002330145	2.33E-03	3.79E-04	1.98E-04
3904	599968.9	4175602	0.00370823	3.71E-03	6.03E-04	3.15E-04
3905	600016.8	4175663	0.004034738	4.03E-03	6.56E-04	3.43E-04
3906	600175.1	4175864	0.002701985	2.70E-03	4.40E-04	2.29E-04
3907	599879	4175459	0.002536626	2.54E-03	4.13E-04	2.15E-04
3908	599905	4175492	0.00259136	2.59E-03	4.22E-04	2.20E-04
3909	600190.7	4175854	0.002510007	2.51E-03	4.08E-04	2.13E-04
3910	599914	4175474	0.002564994	2.56E-03	4.17E-04	2.18E-04
3911	599939.9	4175507	0.002116027	2.12E-03	3.44E-04	1.80E-04
3912	599988	4175568	0.002168938	2.17E-03	3.53E-04	1.84E-04
3913	600014	4175601	0.003796034	3.80E-03	6.18E-04	3.22E-04
3914	600039.9	4175634	0.004533486	4.53E-03	7.38E-04	3.85E-04
3915	599875	4175395	0.002265935	2.27E-03	3.69E-04	1.92E-04
3916	599900.9	4175428	0.002508079	2.51E-03	4.08E-04	2.13E-04
3917	599974.7	4175522	0.002012609	2.01E-03	3.27E-04	1.71E-04
3918	600000.6	4175554	0.002002955	2.00E-03	3.26E-04	1.70E-04
3919	599887.8	4175382	0.00229325	2.29E-03	3.73E-04	1.95E-04
3920	599935.7	4175443	0.002593732	2.59E-03	4.22E-04	2.20E-04
3921	599961.5	4175476	0.002491145	2.49E-03	4.05E-04	2.12E-04
3922	599987.4	4175508	0.002128246	2.13E-03	3.46E-04	1.81E-04
3923	600193.8	4175770	0.002600954	2.60E-03	4.23E-04	2.21E-04
3924	600241.7	4175830	0.002314278	2.31E-03	3.76E-04	1.97E-04
3925	599923.1	4175398	0.00243122	2.43E-03	3.96E-04	2.06E-04
3926	599971.4	4175459	0.002593125	2.59E-03	4.22E-04	2.20E-04
3927	599997.4	4175492	0.00230753	2.31E-03	3.75E-04	1.96E-04
3928	600023.4	4175524	0.001975121	1.98E-03	3.21E-04	1.68E-04
3929	600212.7	4175764	0.002593629	2.59E-03	4.22E-04	2.20E-04
3930	600257.2	4175821	0.00232792	2.33E-03	3.79E-04	1.98E-04
3931	599910	4175352	0.002224576	2.22E-03	3.62E-04	1.89E-04
3932	599984.1	4175445	0.002485139	2.49E-03	4.04E-04	2.11E-04
3933	600228.6	4175755	0.002649223	2.65E-03	4.31E-04	2.25E-04
3934	600276.7	4175816	0.002241838	2.24E-03	3.65E-04	1.90E-04
3935	599945	4175366	0.002234675	2.23E-03	3.64E-04	1.90E-04
3936	599970.8	4175399	0.002102651	2.10E-03	3.42E-04	1.79E-04
3937	600018.9	4175460	0.002062449	2.06E-03	3.36E-04	1.75E-04
3938	600044.8	4175493	0.00194484	1.94E-03	3.16E-04	1.65E-04
3939	600070.7	4175526	0.001876344	1.88E-03	3.05E-04	1.59E-04
3940	600288.8	4175802	0.00217693	2.18E-03	3.54E-04	1.85E-04
3941	599979.9	4175381	0.001854175	1.85E-03	3.02E-04	1.57E-04
3942	600005.7	4175414	0.001621491	1.62E-03	2.64E-04	1.38E-04
3943	600079.5	4175507	0.001756999	1.76E-03	2.86E-04	1.49E-04
3944	600264	4175741	0.002530101	2.53E-03	4.12E-04	2.15E-04
3945	600308.3	4175797	0.002015664	2.02E-03	3.28E-04	1.71E-04

3946	599906.1	4175288	0.001934993	1.93E-03	3.15E-04	1.64E-04
3947	599941.2	4175303	0.002094955	2.09E-03	3.41E-04	1.78E-04
3948	599967.2	4175336	0.002008308	2.01E-03	3.27E-04	1.71E-04
3949	600015.5	4175397	0.001519659	1.52E-03	2.47E-04	1.29E-04
3950	600041.5	4175430	0.001409182	1.41E-03	2.29E-04	1.20E-04
3951	600089.8	4175491	0.001520727	1.52E-03	2.47E-04	1.29E-04
3952	600279.2	4175731	0.002286785	2.29E-03	3.72E-04	1.94E-04
3953	599915.2	4175270	0.001901702	1.90E-03	3.09E-04	1.61E-04
3954	599928.1	4175257	0.001909487	1.91E-03	3.11E-04	1.62E-04
3955	599976.3	4175318	0.001949155	1.95E-03	3.17E-04	1.66E-04
3956	600002.2	4175351	0.001661129	1.66E-03	2.70E-04	1.41E-04
3957	600295.1	4175722	0.002093264	2.09E-03	3.41E-04	1.78E-04
3958	600339.5	4175778	0.001871851	1.87E-03	3.05E-04	1.59E-04
3959	599937.3	4175239	0.001879325	1.88E-03	3.06E-04	1.60E-04
3960	599989.1	4175305	0.001911949	1.91E-03	3.11E-04	1.62E-04
3961	600063.1	4175398	0.00149531	1.50E-03	2.43E-04	1.27E-04
3962	600314.6	4175717	0.001901034	1.90E-03	3.09E-04	1.61E-04
3963	600359	4175773	0.001831486	1.83E-03	2.98E-04	1.56E-04
3964	599928.3	4175232	0.001826207	1.83E-03	2.97E-04	1.55E-04
3965	599946.4	4175221	0.001817799	1.82E-03	2.96E-04	1.54E-04
3966	599953.8	4175231	0.001859513	1.86E-03	3.03E-04	1.58E-04
3967	599961.2	4175240	0.001891603	1.89E-03	3.08E-04	1.61E-04
3968	599968.6	4175249	0.001909443	1.91E-03	3.11E-04	1.62E-04
3969	599976	4175259	0.001922774	1.92E-03	3.13E-04	1.63E-04
3970	600024	4175320	0.001856948	1.86E-03	3.02E-04	1.58E-04
3971	600049.8	4175352	0.001771205	1.77E-03	2.88E-04	1.50E-04
3972	600075.7	4175385	0.001735764	1.74E-03	2.82E-04	1.47E-04
3973	600123.7	4175446	0.001691291	1.69E-03	2.75E-04	1.44E-04
3974	600282.5	4175647	0.001827334	1.83E-03	2.97E-04	1.55E-04
3975	600330.5	4175708	0.00177607	1.78E-03	2.89E-04	1.51E-04
3976	600378.5	4175768	0.001866008	1.87E-03	3.04E-04	1.58E-04
3977	599937.4	4175214	0.001771087	1.77E-03	2.88E-04	1.50E-04
3978	599496.5	4175970	0.06845372	6.85E-02	1.11E-02	5.81E-03
3979	599516.2	4175972	0.0728231	7.28E-02	1.18E-02	6.18E-03
3980	599502.1	4175962	0.06139971	6.14E-02	9.99E-03	5.21E-03
3981	599535.9	4175973	0.07435707	7.44E-02	1.21E-02	6.31E-03
3982	599521.8	4175963	0.06374498	6.37E-02	1.04E-02	5.41E-03
3983	599507.7	4175954	0.05528912	5.53E-02	8.99E-03	4.69E-03
3984	599541.5	4175965	0.0657415	6.57E-02	1.07E-02	5.58E-03
3985	599527.4	4175955	0.05658569	5.66E-02	9.21E-03	4.80E-03
3986	599513.3	4175946	0.04953153	4.95E-02	8.06E-03	4.21E-03
3987	599540	4175952	0.05423806	5.42E-02	8.82E-03	4.61E-03
3988	599525.9	4175942	0.04744518	4.74E-02	7.72E-03	4.03E-03
3989	599552.7	4175948	0.05104931	5.10E-02	8.30E-03	4.33E-03
3990	599538.5	4175938	0.04536382	4.54E-02	7.38E-03	3.85E-03
3991	599524.4	4175929	0.04054694	4.05E-02	6.60E-03	3.44E-03
3992	599551.2	4175935	0.04284504	4.28E-02	6.97E-03	3.64E-03

3993	599537.1	4175925	0.03886807	3.89E-02	6.32E-03	3.30E-03
3994	599549.7	4175922	0.03691451	3.69E-02	6.01E-03	3.13E-03
3995	599535.6	4175912	0.03387772	3.39E-02	5.51E-03	2.88E-03
3996	599548.2	4175909	0.03242793	3.24E-02	5.28E-03	2.75E-03
3997	599546.7	4175896	0.02875187	2.88E-02	4.68E-03	2.44E-03
3998	599793.5	4175544	0.002148518	2.15E-03	3.50E-04	1.82E-04
3999	599811.8	4175532	0.002551692	2.55E-03	4.15E-04	2.17E-04
4000	599848.2	4175508	0.002852026	2.85E-03	4.64E-04	2.42E-04
4001	599866.4	4175496	0.002773387	2.77E-03	4.51E-04	2.35E-04
4002	599877.5	4175480	0.002664497	2.66E-03	4.33E-04	2.26E-04
4003	599895.7	4175468	0.002599204	2.60E-03	4.23E-04	2.21E-04
4004	599906.9	4175451	0.00259913	2.60E-03	4.23E-04	2.21E-04
4005	599918	4175434	0.002555473	2.56E-03	4.16E-04	2.17E-04
4006	599964.9	4175273	0.001966742	1.97E-03	3.20E-04	1.67E-04
4007	600029.6	4175268	0.001979421	1.98E-03	3.22E-04	1.68E-04
4008	600015.5	4175259	0.001926333	1.93E-03	3.13E-04	1.64E-04
4009	600001.3	4175249	0.001885657	1.89E-03	3.07E-04	1.60E-04
4010	599987.2	4175240	0.001873779	1.87E-03	3.05E-04	1.59E-04
4011	599477.5	4175964	0.05977253	5.98E-02	9.72E-03	5.08E-03
4012	599477.7	4175954	0.05163394	5.16E-02	8.40E-03	4.38E-03
4013	599489.9	4175958	0.05575924	5.58E-02	9.07E-03	4.73E-03
4014	599479.2	4175944	0.04555359	4.56E-02	7.41E-03	3.87E-03
4015	599493.5	4175949	0.04961992	4.96E-02	8.07E-03	4.21E-03
4016	599479.4	4175934	0.04033091	4.03E-02	6.56E-03	3.42E-03
4017	599492.9	4175939	0.04327767	4.33E-02	7.04E-03	3.67E-03
4018	599479.6	4175924	0.0360062	3.60E-02	5.86E-03	3.06E-03
4019	599492.7	4175929	0.03818805	3.82E-02	6.21E-03	3.24E-03
4020	599505.8	4175933	0.04121233	4.12E-02	6.70E-03	3.50E-03
4021	599480.8	4175915	0.03244436	3.24E-02	5.28E-03	2.75E-03
4022	599495.4	4175919	0.03459257	3.46E-02	5.63E-03	2.94E-03
4023	599509.9	4175924	0.03732771	3.73E-02	6.07E-03	3.17E-03
4024	599495	4175909	0.03111499	3.11E-02	5.06E-03	2.64E-03
4025	599509	4175914	0.03335607	3.34E-02	5.43E-03	2.83E-03
4026	599523	4175918	0.03601478	3.60E-02	5.86E-03	3.06E-03
4027	599494.9	4175899	0.02818772	2.82E-02	4.59E-03	2.39E-03
4028	599508.5	4175903	0.03005536	3.01E-02	4.89E-03	2.55E-03
4029	599522	4175908	0.03216673	3.22E-02	5.23E-03	2.73E-03
4030	599497.1	4175889	0.02593273	2.59E-02	4.22E-03	2.20E-03
4031	599511.8	4175894	0.02773898	2.77E-02	4.51E-03	2.36E-03
4032	599526.5	4175899	0.02967108	2.97E-02	4.83E-03	2.52E-03
4033	599496.9	4175879	0.02371484	2.37E-02	3.86E-03	2.01E-03
4034	599511.1	4175884	0.02525161	2.53E-02	4.11E-03	2.14E-03
4035	599525.4	4175889	0.02692007	2.69E-02	4.38E-03	2.29E-03
4036	599496.8	4175869	0.02180019	2.18E-02	3.55E-03	1.85E-03
4037	599510.7	4175874	0.02311331	2.31E-02	3.76E-03	1.96E-03
4038	599524.6	4175878	0.02460367	2.46E-02	4.00E-03	2.09E-03
4039	599538.4	4175883	0.02566938	2.57E-02	4.18E-03	2.18E-03

4040	599496.9	4175859	0.02005331	2.01E-02	3.26E-03	1.70E-03
4041	599510.4	4175863	0.02126528	2.13E-02	3.46E-03	1.81E-03
4042	599524	4175868	0.02256601	2.26E-02	3.67E-03	1.92E-03
4043	599537.5	4175872	0.02347802	2.35E-02	3.82E-03	1.99E-03
4044	599498.6	4175849	0.01863864	1.86E-02	3.03E-03	1.58E-03
4045	599513	4175854	0.01986332	1.99E-02	3.23E-03	1.69E-03
4046	599527.4	4175859	0.02103861	2.10E-02	3.42E-03	1.79E-03
4047	599541.8	4175864	0.02184183	2.18E-02	3.55E-03	1.85E-03
4048	599498.6	4175839	0.01725065	1.73E-02	2.81E-03	1.46E-03
4049	599512.7	4175844	0.01839648	1.84E-02	2.99E-03	1.56E-03
4050	599526.8	4175849	0.01943914	1.94E-02	3.16E-03	1.65E-03
4051	599540.9	4175853	0.02016282	2.02E-02	3.28E-03	1.71E-03
4052	599484.9	4175825	0.0151199	1.51E-02	2.46E-03	1.28E-03
4053	599498.7	4175829	0.0160728	1.61E-02	2.61E-03	1.36E-03
4054	599512.5	4175834	0.01710055	1.71E-02	2.78E-03	1.45E-03
4055	599526.3	4175838	0.01802876	1.80E-02	2.93E-03	1.53E-03
4056	599540.1	4175843	0.01868253	1.87E-02	3.04E-03	1.59E-03
4057	599485.7	4175815	0.0142156	1.42E-02	2.31E-03	1.21E-03
4058	599500.3	4175819	0.01513552	1.51E-02	2.46E-03	1.29E-03
4059	599514.8	4175824	0.01611402	1.61E-02	2.62E-03	1.37E-03
4060	599529.3	4175829	0.01693815	1.69E-02	2.76E-03	1.44E-03
4061	599543.9	4175834	0.01753605	1.75E-02	2.85E-03	1.49E-03
4062	599486.1	4175805	0.01335901	1.34E-02	2.17E-03	1.13E-03
4063	599500.3	4175809	0.01419205	1.42E-02	2.31E-03	1.21E-03
4064	599514.6	4175814	0.0150592	1.51E-02	2.45E-03	1.28E-03
4065	599528.8	4175819	0.01579933	1.58E-02	2.57E-03	1.34E-03
4066	599543	4175824	0.01634563	1.63E-02	2.66E-03	1.39E-03
4067	599486.4	4175795	0.01250564	1.25E-02	2.03E-03	1.06E-03
4068	599500.4	4175799	0.01335195	1.34E-02	2.17E-03	1.13E-03
4069	599514.4	4175804	0.01413192	1.41E-02	2.30E-03	1.20E-03
4070	599528.4	4175809	0.01478151	1.48E-02	2.40E-03	1.26E-03
4071	599542.4	4175813	0.01527814	1.53E-02	2.49E-03	1.30E-03
4072	599487.3	4175785	0.0117712	1.18E-02	1.91E-03	1.00E-03
4073	599501.9	4175790	0.01267088	1.27E-02	2.06E-03	1.08E-03
4074	599516.5	4175794	0.01344345	1.34E-02	2.19E-03	1.14E-03
4075	599531.1	4175799	0.01396236	1.40E-02	2.27E-03	1.19E-03
4076	599545.7	4175804	0.01441962	1.44E-02	2.35E-03	1.22E-03
4077	599487.6	4175775	0.01109168	1.11E-02	1.80E-03	9.42E-04
4078	599502	4175779	0.01197584	1.20E-02	1.95E-03	1.02E-03
4079	599516.3	4175784	0.01265214	1.27E-02	2.06E-03	1.07E-03
4080	599530.7	4175789	0.01310604	1.31E-02	2.13E-03	1.11E-03
4081	599545.1	4175794	0.01350907	1.35E-02	2.20E-03	1.15E-03
4082	599488	4175765	0.01054287	1.05E-02	1.72E-03	8.95E-04
4083	599502.1	4175769	0.01136	1.14E-02	1.85E-03	9.65E-04
4084	599516.2	4175774	0.01192813	1.19E-02	1.94E-03	1.01E-03
4085	599530.4	4175779	0.01232793	1.23E-02	2.01E-03	1.05E-03
4086	599544.5	4175783	0.01268557	1.27E-02	2.06E-03	1.08E-03

4087	599488.8	4175755	0.01006121	1.01E-02	1.64E-03	8.54E-04
4088	599503.5	4175760	0.01085842	1.09E-02	1.77E-03	9.22E-04
4089	599518.1	4175765	0.01131108	1.13E-02	1.84E-03	9.60E-04
4090	599532.8	4175769	0.01166016	1.17E-02	1.90E-03	9.90E-04
4091	599547.5	4175774	0.01196543	1.20E-02	1.95E-03	1.02E-03
4092	599489.1	4175745	0.009583708	9.58E-03	1.56E-03	8.14E-04
4093	599503.6	4175750	0.01033104	1.03E-02	1.68E-03	8.77E-04
4094	599518	4175754	0.01068794	1.07E-02	1.74E-03	9.08E-04
4095	599489.5	4175735	0.009075143	9.08E-03	1.48E-03	7.71E-04
4096	599503.8	4175739	0.009801695	9.80E-03	1.59E-03	8.32E-04
4097	599518	4175744	0.01012169	1.01E-02	1.65E-03	8.59E-04
4098	599489.9	4175725	0.008606528	8.61E-03	1.40E-03	7.31E-04
4099	599504	4175729	0.009292746	9.29E-03	1.51E-03	7.89E-04
4100	599490.6	4175715	0.008198312	8.20E-03	1.33E-03	6.96E-04
4101	599505.2	4175720	0.008863324	8.86E-03	1.44E-03	7.53E-04
4102	599475.6	4175712	0.007735257	7.74E-03	1.26E-03	6.57E-04
4103	599491	4175705	0.007855358	7.86E-03	1.28E-03	6.67E-04
4104	599505.4	4175710	0.008448968	8.45E-03	1.37E-03	7.17E-04
4105	599476.1	4175702	0.007429318	7.43E-03	1.21E-03	6.31E-04
4106	599492.1	4175685	0.007242411	7.24E-03	1.18E-03	6.15E-04
4107	599506.7	4175690	0.007762884	7.76E-03	1.26E-03	6.59E-04
4108	599477.1	4175682	0.006862311	6.86E-03	1.12E-03	5.83E-04
4109	599492.9	4175665	0.006642959	6.64E-03	1.08E-03	5.64E-04
4110	599507.2	4175670	0.007061318	7.06E-03	1.15E-03	6.00E-04
4111	599478.1	4175662	0.006346539	6.35E-03	1.03E-03	5.39E-04
4112	599494	4175645	0.006072957	6.07E-03	9.88E-04	5.16E-04
4113	599508.5	4175650	0.006419484	6.42E-03	1.04E-03	5.45E-04
4114	599479.1	4175642	0.005834816	5.83E-03	9.49E-04	4.95E-04
4115	599495.1	4175625	0.005535416	5.54E-03	9.01E-04	4.70E-04
4116	599509.8	4175630	0.005783107	5.78E-03	9.41E-04	4.91E-04
4117	599480	4175622	0.005376477	5.38E-03	8.75E-04	4.57E-04
4118	599496	4175605	0.005169908	5.17E-03	8.41E-04	4.39E-04
4119	599510.3	4175610	0.005352484	5.35E-03	8.71E-04	4.54E-04
4120	599481	4175602	0.005025857	5.03E-03	8.18E-04	4.27E-04
4121	599497	4175585	0.004859312	4.86E-03	7.91E-04	4.13E-04
4122	599511.6	4175590	0.005028912	5.03E-03	8.18E-04	4.27E-04
4123	599526.2	4175595	0.005352988	5.35E-03	8.71E-04	4.55E-04
4124	599482	4175582	0.004712503	4.71E-03	7.67E-04	4.00E-04
4125	599497.9	4175565	0.004589095	4.59E-03	7.47E-04	3.90E-04
4126	599512.2	4175570	0.004764049	4.76E-03	7.75E-04	4.05E-04
4127	599526.5	4175574	0.005025131	5.03E-03	8.18E-04	4.27E-04
4128	599483	4175562	0.004438624	4.44E-03	7.22E-04	3.77E-04
4129	599499	4175545	0.004368527	4.37E-03	7.11E-04	3.71E-04
4130	599513.4	4175550	0.004525745	4.53E-03	7.36E-04	3.84E-04
4131	599527.9	4175555	0.004739671	4.74E-03	7.71E-04	4.02E-04
4132	599484	4175542	0.004230645	4.23E-03	6.88E-04	3.59E-04
4133	599500	4175525	0.004150227	4.15E-03	6.75E-04	3.52E-04

4134	599514.7	4175530	0.004303175	4.30E-03	7.00E-04	3.65E-04
4135	599529.3	4175535	0.004473072	4.47E-03	7.28E-04	3.80E-04
4136	599485	4175522	0.004008238	4.01E-03	6.52E-04	3.40E-04
4137	599500.9	4175505	0.003938393	3.94E-03	6.41E-04	3.34E-04
4138	599515.3	4175510	0.00408492	4.08E-03	6.65E-04	3.47E-04
4139	599529.7	4175515	0.004216246	4.22E-03	6.86E-04	3.58E-04
4140	599485.9	4175502	0.00379418	3.79E-03	6.17E-04	3.22E-04
4141	599501.9	4175485	0.003728591	3.73E-03	6.07E-04	3.17E-04
4142	599516.5	4175490	0.003868103	3.87E-03	6.29E-04	3.28E-04
4143	599531.1	4175495	0.003977335	3.98E-03	6.47E-04	3.38E-04
4144	599486.9	4175482	0.003596982	3.60E-03	5.85E-04	3.05E-04
4145	599502.8	4175465	0.003511062	3.51E-03	5.71E-04	2.98E-04
4146	599517.2	4175470	0.003648276	3.65E-03	5.94E-04	3.10E-04
4147	599531.5	4175475	0.003756232	3.76E-03	6.11E-04	3.19E-04
4148	599768.2	4175553	0.001634585	1.63E-03	2.66E-04	1.39E-04
4149	599487.9	4175462	0.003390887	3.39E-03	5.52E-04	2.88E-04
4150	599503.9	4175445	0.003291384	3.29E-03	5.35E-04	2.79E-04
4151	599518.4	4175450	0.003421761	3.42E-03	5.57E-04	2.91E-04
4152	599532.9	4175455	0.003552614	3.55E-03	5.78E-04	3.02E-04
4153	599569.1	4175467	0.003670579	3.67E-03	5.97E-04	3.12E-04
4154	599764.8	4175532	0.001803919	1.80E-03	2.93E-04	1.53E-04
4155	599488.9	4175442	0.003195276	3.20E-03	5.20E-04	2.71E-04
4156	599504.9	4175425	0.003114146	3.11E-03	5.07E-04	2.64E-04
4157	599519.6	4175430	0.003224949	3.22E-03	5.25E-04	2.74E-04
4158	599534.2	4175435	0.003349276	3.35E-03	5.45E-04	2.84E-04
4159	599761.1	4175510	0.001822885	1.82E-03	2.97E-04	1.55E-04
4160	599489.9	4175422	0.003037924	3.04E-03	4.94E-04	2.58E-04
4161	599505.8	4175405	0.002948045	2.95E-03	4.80E-04	2.50E-04
4162	599520.2	4175410	0.003039392	3.04E-03	4.94E-04	2.58E-04
4163	599534.6	4175415	0.00315116	3.15E-03	5.13E-04	2.68E-04
4164	599490.8	4175402	0.002891071	2.89E-03	4.70E-04	2.45E-04
4165	599506.8	4175385	0.00279489	2.79E-03	4.55E-04	2.37E-04
4166	599521.4	4175390	0.002864883	2.86E-03	4.66E-04	2.43E-04
4167	599536	4175395	0.002953339	2.95E-03	4.80E-04	2.51E-04
4168	599491.8	4175382	0.002751989	2.75E-03	4.48E-04	2.34E-04
4169	599507.9	4175365	0.002666647	2.67E-03	4.34E-04	2.26E-04
4170	599522.6	4175370	0.002730235	2.73E-03	4.44E-04	2.32E-04
4171	599537.3	4175375	0.002794875	2.79E-03	4.55E-04	2.37E-04
4172	599772.3	4175453	0.00169921	1.70E-03	2.76E-04	1.44E-04
4173	599492.8	4175362	0.00261433	2.61E-03	4.25E-04	2.22E-04
4174	599508.8	4175345	0.002552033	2.55E-03	4.15E-04	2.17E-04
4175	599523.3	4175350	0.002610252	2.61E-03	4.25E-04	2.22E-04
4176	599777	4175434	0.001896601	1.90E-03	3.09E-04	1.61E-04
4177	599493.8	4175342	0.002508688	2.51E-03	4.08E-04	2.13E-04
4178	599765.7	4175410	0.002456993	2.46E-03	4.00E-04	2.09E-04
4179	599777.9	4175394	0.002130189	2.13E-03	3.47E-04	1.81E-04
4180	599495.7	4175302	0.002325414	2.33E-03	3.78E-04	1.97E-04

4181	599511.7	4175285	0.002276997	2.28E-03	3.70E-04	1.93E-04
4182	599766.5	4175370	0.001818466	1.82E-03	2.96E-04	1.54E-04
4183	599781.1	4175375	0.001770731	1.77E-03	2.88E-04	1.50E-04
4184	599496.7	4175283	0.002235713	2.24E-03	3.64E-04	1.90E-04
4185	599512.8	4175265	0.002188082	2.19E-03	3.56E-04	1.86E-04
4186	599769.5	4175350	0.001533168	1.53E-03	2.49E-04	1.30E-04
4187	599497.7	4175263	0.002149274	2.15E-03	3.50E-04	1.82E-04
4188	599513.7	4175245	0.00210449	2.10E-03	3.42E-04	1.79E-04
4189	599542.7	4175255	0.002219179	2.22E-03	3.61E-04	1.88E-04
4190	599782	4175334	0.001305467	1.31E-03	2.12E-04	1.11E-04
4191	599498.7	4175243	0.002068114	2.07E-03	3.36E-04	1.76E-04
4192	599514.7	4175225	0.002020305	2.02E-03	3.29E-04	1.72E-04
4193	599543.9	4175235	0.002134504	2.13E-03	3.47E-04	1.81E-04
4194	599733.8	4175298	0.001316841	1.32E-03	2.14E-04	1.12E-04
4195	599770.4	4175310	0.001271716	1.27E-03	2.07E-04	1.08E-04
4196	599499.7	4175223	0.001982446	1.98E-03	3.23E-04	1.68E-04
4197	599515.6	4175205	0.001934815	1.93E-03	3.15E-04	1.64E-04
4198	599544.5	4175215	0.002045767	2.05E-03	3.33E-04	1.74E-04
4199	599732.4	4175277	0.001242295	1.24E-03	2.02E-04	1.05E-04
4200	599783	4175294	0.001234465	1.23E-03	2.01E-04	1.05E-04
4201	599500.6	4175203	0.00189973	1.90E-03	3.09E-04	1.61E-04
4202	599516.6	4175185	0.001866349	1.87E-03	3.04E-04	1.58E-04
4203	599669.5	4175236	0.001417635	1.42E-03	2.31E-04	1.20E-04
4204	599735	4175258	0.001215291	1.22E-03	1.98E-04	1.03E-04
4205	599785.9	4175275	0.001343949	1.34E-03	2.19E-04	1.14E-04
4206	599501.6	4175183	0.001833088	1.83E-03	2.98E-04	1.56E-04
4207	599517.7	4175165	0.001802391	1.80E-03	2.93E-04	1.53E-04
4208	599656.9	4175212	0.001283891	1.28E-03	2.09E-04	1.09E-04
4209	599671.5	4175216	0.001215039	1.22E-03	1.98E-04	1.03E-04
4210	599737.5	4175238	0.001223151	1.22E-03	1.99E-04	1.04E-04
4211	599502.6	4175163	0.001770108	1.77E-03	2.88E-04	1.50E-04
4212	599518.6	4175145	0.001743312	1.74E-03	2.84E-04	1.48E-04
4213	599533.1	4175150	0.001787577	1.79E-03	2.91E-04	1.52E-04
4214	599656.4	4175191	0.001226428	1.23E-03	2.00E-04	1.04E-04
4215	599670.9	4175196	0.001126198	1.13E-03	1.83E-04	9.56E-05
4216	599736.2	4175218	0.001213972	1.21E-03	1.97E-04	1.03E-04
4217	599779.7	4175232	0.001422929	1.42E-03	2.31E-04	1.21E-04
4218	599794.2	4175237	0.001486827	1.49E-03	2.42E-04	1.26E-04
4219	599503.6	4175143	0.001710065	1.71E-03	2.78E-04	1.45E-04
4220	599519.6	4175125	0.001690283	1.69E-03	2.75E-04	1.44E-04
4221	599658.3	4175172	0.001226517	1.23E-03	2.00E-04	1.04E-04
4222	599672.9	4175176	0.00116115	1.16E-03	1.89E-04	9.86E-05
4223	599738.6	4175198	0.001220867	1.22E-03	1.99E-04	1.04E-04
4224	599775.1	4175210	0.001414002	1.41E-03	2.30E-04	1.20E-04
4225	599504.6	4175123	0.001650556	1.65E-03	2.69E-04	1.40E-04
4226	599520.6	4175106	0.001638604	1.64E-03	2.67E-04	1.39E-04
4227	599623.5	4175140	0.001486397	1.49E-03	2.42E-04	1.26E-04

4228	599638.2	4175145	0.001399454	1.40E-03	2.28E-04	1.19E-04
4229	599652.9	4175149	0.001332649	1.33E-03	2.17E-04	1.13E-04
4230	599667.6	4175154	0.001276076	1.28E-03	2.08E-04	1.08E-04
4231	599733.7	4175176	0.001182563	1.18E-03	1.92E-04	1.00E-04
4232	599777.7	4175191	0.001442251	1.44E-03	2.35E-04	1.22E-04
4233	599505.5	4175103	0.001592989	1.59E-03	2.59E-04	1.35E-04
4234	599623.4	4175119	0.001464035	1.46E-03	2.38E-04	1.24E-04
4235	599638	4175124	0.001425628	1.43E-03	2.32E-04	1.21E-04
4236	599652.5	4175129	0.001392054	1.39E-03	2.26E-04	1.18E-04
4237	599667.1	4175134	0.001369722	1.37E-03	2.23E-04	1.16E-04
4238	599681.6	4175139	0.001318858	1.32E-03	2.15E-04	1.12E-04
4239	599696.2	4175143	0.001281281	1.28E-03	2.08E-04	1.09E-04
4240	599710.7	4175148	0.001275498	1.28E-03	2.08E-04	1.08E-04
4241	599725.3	4175153	0.001237565	1.24E-03	2.01E-04	1.05E-04
4242	599739.8	4175158	0.001278152	1.28E-03	2.08E-04	1.09E-04
4243	599776.2	4175170	0.001445113	1.45E-03	2.35E-04	1.23E-04
4244	599790.8	4175175	0.00153047	1.53E-03	2.49E-04	1.30E-04
4245	599805.3	4175180	0.001634822	1.63E-03	2.66E-04	1.39E-04
4246	599819.9	4175184	0.001690238	1.69E-03	2.75E-04	1.44E-04
4247	599834.4	4175189	0.001702532	1.70E-03	2.77E-04	1.45E-04
4248	599849	4175194	0.001686131	1.69E-03	2.74E-04	1.43E-04
4249	599863.5	4175199	0.001627556	1.63E-03	2.65E-04	1.38E-04
4250	599878.1	4175204	0.001573874	1.57E-03	2.56E-04	1.34E-04
4251	599892.6	4175209	0.001555353	1.56E-03	2.53E-04	1.32E-04
4252	599907.2	4175213	0.001596237	1.60E-03	2.60E-04	1.36E-04
4253	599921.7	4175218	0.001722269	1.72E-03	2.80E-04	1.46E-04
4254	599936.3	4175223	0.001810384	1.81E-03	2.95E-04	1.54E-04
4255	599972.7	4175235	0.001872118	1.87E-03	3.05E-04	1.59E-04
4256	599506.5	4175083	0.001537928	1.54E-03	2.50E-04	1.31E-04
4257	599421.3	4175664	0.006131887	6.13E-03	9.98E-04	5.21E-04
4258	599370.1	4175665	0.006431689	6.43E-03	1.05E-03	5.46E-04
4259	599378.6	4175661	0.00628012	6.28E-03	1.02E-03	5.33E-04
4260	599387	4175658	0.006142016	6.14E-03	9.99E-04	5.22E-04
4261	599395.5	4175655	0.006015331	6.02E-03	9.79E-04	5.11E-04
4262	599403.9	4175652	0.005890959	5.89E-03	9.58E-04	5.00E-04
4263	599412.4	4175648	0.005778851	5.78E-03	9.40E-04	4.91E-04
4264	599420.9	4175645	0.00567865	5.68E-03	9.24E-04	4.82E-04
4265	599471.6	4175625	0.005385879	5.39E-03	8.76E-04	4.57E-04
4266	599329.7	4175661	0.006729131	6.73E-03	1.09E-03	5.71E-04
4267	599346.5	4175654	0.006388788	6.39E-03	1.04E-03	5.42E-04
4268	599363.3	4175648	0.006069858	6.07E-03	9.87E-04	5.15E-04
4269	599380.1	4175641	0.005801658	5.80E-03	9.44E-04	4.93E-04
4270	599396.9	4175635	0.005541555	5.54E-03	9.02E-04	4.71E-04
4271	599405.4	4175631	0.005436135	5.44E-03	8.84E-04	4.62E-04
4272	599422.2	4175625	0.005259134	5.26E-03	8.56E-04	4.47E-04
4273	599281.2	4175660	0.007221636	7.22E-03	1.17E-03	6.13E-04
4274	599297.9	4175654	0.006804744	6.80E-03	1.11E-03	5.78E-04

4275	599314.7	4175647	0.006477036	6.48E-03	1.05E-03	5.50E-04
4276	599331.4	4175641	0.006173498	6.17E-03	1.00E-03	5.24E-04
4277	599348.1	4175634	0.005891478	5.89E-03	9.58E-04	5.00E-04
4278	599364.9	4175628	0.005651261	5.65E-03	9.19E-04	4.80E-04
4279	599381.6	4175621	0.00538057	5.38E-03	8.75E-04	4.57E-04
4280	599398.3	4175615	0.005157941	5.16E-03	8.39E-04	4.38E-04
4281	599415.1	4175608	0.004974296	4.97E-03	8.09E-04	4.22E-04
4282	599431.8	4175602	0.004833998	4.83E-03	7.86E-04	4.10E-04
4283	599266.4	4175646	0.006983776	6.98E-03	1.14E-03	5.93E-04
4284	599283.1	4175640	0.006614354	6.61E-03	1.08E-03	5.62E-04
4285	599299.8	4175633	0.006278444	6.28E-03	1.02E-03	5.33E-04
4286	599316.4	4175627	0.005975589	5.98E-03	9.72E-04	5.07E-04
4287	599333.1	4175620	0.00569259	5.69E-03	9.26E-04	4.83E-04
4288	599349.7	4175614	0.005462694	5.46E-03	8.89E-04	4.64E-04
4289	599366.4	4175607	0.00522657	5.23E-03	8.50E-04	4.44E-04
4290	599383	4175601	0.0050204	5.02E-03	8.17E-04	4.26E-04
4291	599399.7	4175594	0.004835896	4.84E-03	7.87E-04	4.11E-04
4292	599416.4	4175588	0.004658985	4.66E-03	7.58E-04	3.96E-04
4293	599433	4175582	0.004547336	4.55E-03	7.40E-04	3.86E-04
4294	599152.2	4175671	0.01088419	1.09E-02	1.77E-03	9.24E-04
4295	599168.8	4175664	0.009846317	9.85E-03	1.60E-03	8.36E-04
4296	599251.7	4175632	0.006726001	6.73E-03	1.09E-03	5.71E-04
4297	599268.3	4175626	0.006414086	6.41E-03	1.04E-03	5.45E-04
4298	599284.9	4175619	0.006093866	6.09E-03	9.91E-04	5.17E-04
4299	599301.5	4175613	0.005785094	5.79E-03	9.41E-04	4.91E-04
4300	599318.1	4175607	0.005531412	5.53E-03	9.00E-04	4.70E-04
4301	599334.7	4175600	0.005318214	5.32E-03	8.65E-04	4.52E-04
4302	599351.3	4175594	0.005076825	5.08E-03	8.26E-04	4.31E-04
4303	599367.9	4175587	0.004848842	4.85E-03	7.89E-04	4.12E-04
4304	599384.4	4175581	0.004674111	4.67E-03	7.60E-04	3.97E-04
4305	599401	4175574	0.004516225	4.52E-03	7.35E-04	3.83E-04
4306	599417.6	4175568	0.00439682	4.40E-03	7.15E-04	3.73E-04
4307	599434.2	4175561	0.004292602	4.29E-03	6.98E-04	3.64E-04
4308	599109.9	4175675	0.01294839	1.29E-02	2.11E-03	1.10E-03
4309	599121.6	4175663	0.01162345	1.16E-02	1.89E-03	9.87E-04
4310	599130	4175660	0.01105943	1.11E-02	1.80E-03	9.39E-04
4311	599138.5	4175657	0.01050891	1.05E-02	1.71E-03	8.92E-04
4312	599146.9	4175653	0.009985844	9.99E-03	1.62E-03	8.48E-04
4313	599155.4	4175650	0.009489113	9.49E-03	1.54E-03	8.06E-04
4314	599163.8	4175647	0.009023078	9.02E-03	1.47E-03	7.66E-04
4315	599172.3	4175644	0.008586686	8.59E-03	1.40E-03	7.29E-04
4316	599239.9	4175617	0.006399138	6.40E-03	1.04E-03	5.43E-04
4317	599248.3	4175614	0.006230946	6.23E-03	1.01E-03	5.29E-04
4318	599256.8	4175611	0.006086866	6.09E-03	9.90E-04	5.17E-04
4319	599265.2	4175607	0.005952218	5.95E-03	9.68E-04	5.05E-04
4320	599273.7	4175604	0.005825518	5.83E-03	9.48E-04	4.95E-04
4321	599282.1	4175601	0.005676648	5.68E-03	9.23E-04	4.82E-04

4322	599290.6	4175598	0.005534586	5.53E-03	9.00E-04	4.70E-04
4323	599299	4175594	0.005397876	5.40E-03	8.78E-04	4.58E-04
4324	599307.5	4175591	0.005278323	5.28E-03	8.59E-04	4.48E-04
4325	599315.9	4175588	0.005176862	5.18E-03	8.42E-04	4.40E-04
4326	599324.4	4175585	0.005078382	5.08E-03	8.26E-04	4.31E-04
4327	599332.8	4175581	0.004982527	4.98E-03	8.11E-04	4.23E-04
4328	599341.3	4175578	0.004866148	4.87E-03	7.92E-04	4.13E-04
4329	599349.7	4175575	0.004750421	4.75E-03	7.73E-04	4.03E-04
4330	599358.2	4175571	0.004637423	4.64E-03	7.54E-04	3.94E-04
4331	599366.6	4175568	0.00453663	4.54E-03	7.38E-04	3.85E-04
4332	599375.1	4175565	0.004454729	4.45E-03	7.25E-04	3.78E-04
4333	599383.5	4175562	0.004377024	4.38E-03	7.12E-04	3.72E-04
4334	599392	4175558	0.004305607	4.31E-03	7.00E-04	3.66E-04
4335	599400.4	4175555	0.004239884	4.24E-03	6.90E-04	3.60E-04
4336	599408.9	4175552	0.004181947	4.18E-03	6.80E-04	3.55E-04
4337	599417.3	4175548	0.004132462	4.13E-03	6.72E-04	3.51E-04
4338	599425.8	4175545	0.004090303	4.09E-03	6.65E-04	3.47E-04
4339	599434.2	4175542	0.00405495	4.05E-03	6.60E-04	3.44E-04
4340	599476.5	4175525	0.004004561	4.00E-03	6.51E-04	3.40E-04
4341	599107.3	4175649	0.01112798	1.11E-02	1.81E-03	9.45E-04
4342	599115.8	4175646	0.01065035	1.07E-02	1.73E-03	9.04E-04
4343	599124.2	4175643	0.01018816	1.02E-02	1.66E-03	8.65E-04
4344	599141	4175636	0.009234244	9.23E-03	1.50E-03	7.84E-04
4345	599157.8	4175630	0.008377329	8.38E-03	1.36E-03	7.11E-04
4346	599166.2	4175626	0.007986863	7.99E-03	1.30E-03	6.78E-04
4347	599241.9	4175597	0.00584054	5.84E-03	9.50E-04	4.96E-04
4348	599250.4	4175594	0.005708872	5.71E-03	9.29E-04	4.85E-04
4349	599258.8	4175590	0.005589735	5.59E-03	9.09E-04	4.75E-04
4350	599267.2	4175587	0.00547733	5.48E-03	8.91E-04	4.65E-04
4351	599275.6	4175584	0.005363457	5.36E-03	8.73E-04	4.55E-04
4352	599292.4	4175577	0.005111273	5.11E-03	8.32E-04	4.34E-04
4353	599309.3	4175571	0.00489198	4.89E-03	7.96E-04	4.15E-04
4354	599317.7	4175568	0.004802827	4.80E-03	7.81E-04	4.08E-04
4355	599334.5	4175561	0.004615046	4.62E-03	7.51E-04	3.92E-04
4356	599351.3	4175554	0.004405184	4.41E-03	7.17E-04	3.74E-04
4357	599359.7	4175551	0.00431228	4.31E-03	7.02E-04	3.66E-04
4358	599376.6	4175545	0.004158843	4.16E-03	6.77E-04	3.53E-04
4359	599385	4175541	0.004090925	4.09E-03	6.66E-04	3.47E-04
4360	599401.8	4175535	0.003972292	3.97E-03	6.46E-04	3.37E-04
4361	599418.6	4175528	0.003882636	3.88E-03	6.32E-04	3.30E-04
4362	599427	4175525	0.003849641	3.85E-03	6.26E-04	3.27E-04
4363	599469.1	4175509	0.003786187	3.79E-03	6.16E-04	3.21E-04
4364	599109.9	4175629	0.009800895	9.80E-03	1.59E-03	8.32E-04
4365	599126.6	4175622	0.008987977	8.99E-03	1.46E-03	7.63E-04
4366	599143.4	4175616	0.008180131	8.18E-03	1.33E-03	6.95E-04
4367	599252.3	4175573	0.005261018	5.26E-03	8.56E-04	4.47E-04
4368	599269.1	4175567	0.005064754	5.06E-03	8.24E-04	4.30E-04

4369	599285.8	4175560	0.004839307	4.84E-03	7.87E-04	4.11E-04
4370	599302.6	4175554	0.004632723	4.63E-03	7.54E-04	3.93E-04
4371	599319.3	4175547	0.004445223	4.45E-03	7.23E-04	3.77E-04
4372	599336.1	4175541	0.004252118	4.25E-03	6.92E-04	3.61E-04
4373	599352.9	4175534	0.004094929	4.09E-03	6.66E-04	3.48E-04
4374	599369.6	4175528	0.00395776	3.96E-03	6.44E-04	3.36E-04
4375	599386.4	4175521	0.003834723	3.83E-03	6.24E-04	3.26E-04
4376	599403.1	4175515	0.003732773	3.73E-03	6.07E-04	3.17E-04
4377	599419.9	4175508	0.003658301	3.66E-03	5.95E-04	3.11E-04
4378	599470.2	4175489	0.003584407	3.58E-03	5.83E-04	3.04E-04
4379	599112.3	4175608	0.008690624	8.69E-03	1.41E-03	7.38E-04
4380	599129	4175602	0.007987767	7.99E-03	1.30E-03	6.78E-04
4381	599145.7	4175595	0.007303433	7.30E-03	1.19E-03	6.20E-04
4382	599262.5	4175550	0.00475877	4.76E-03	7.74E-04	4.04E-04
4383	599279.2	4175543	0.004559911	4.56E-03	7.42E-04	3.87E-04
4384	599295.9	4175537	0.00439166	4.39E-03	7.14E-04	3.73E-04
4385	599312.6	4175530	0.004223364	4.22E-03	6.87E-04	3.59E-04
4386	599329.3	4175524	0.004043828	4.04E-03	6.58E-04	3.43E-04
4387	599346	4175517	0.003899081	3.90E-03	6.34E-04	3.31E-04
4388	599362.7	4175511	0.003771684	3.77E-03	6.14E-04	3.20E-04
4389	599379.4	4175504	0.003653822	3.65E-03	5.94E-04	3.10E-04
4390	599396.1	4175498	0.003541936	3.54E-03	5.76E-04	3.01E-04
4391	599412.8	4175491	0.003471721	3.47E-03	5.65E-04	2.95E-04
4392	599429.5	4175485	0.003433802	3.43E-03	5.59E-04	2.92E-04
4393	599462.9	4175472	0.00339366	3.39E-03	5.52E-04	2.88E-04
4394	599114.6	4175588	0.007770046	7.77E-03	1.26E-03	6.60E-04
4395	599131.2	4175581	0.007151287	7.15E-03	1.16E-03	6.07E-04
4396	599147.8	4175575	0.006569376	6.57E-03	1.07E-03	5.58E-04
4397	599164.5	4175568	0.00609228	6.09E-03	9.91E-04	5.17E-04
4398	599280.9	4175523	0.004239499	4.24E-03	6.90E-04	3.60E-04
4399	599297.6	4175517	0.004103515	4.10E-03	6.68E-04	3.48E-04
4400	599314.2	4175510	0.003948358	3.95E-03	6.42E-04	3.35E-04
4401	599330.8	4175504	0.003785446	3.79E-03	6.16E-04	3.21E-04
4402	599347.5	4175497	0.003657782	3.66E-03	5.95E-04	3.11E-04
4403	599364.1	4175491	0.003542663	3.54E-03	5.76E-04	3.01E-04
4404	599380.7	4175484	0.003416141	3.42E-03	5.56E-04	2.90E-04
4405	599397.4	4175478	0.003308793	3.31E-03	5.38E-04	2.81E-04
4406	599414	4175471	0.003269525	3.27E-03	5.32E-04	2.78E-04
4407	599430.6	4175465	0.003234188	3.23E-03	5.26E-04	2.75E-04
4408	599463.9	4175452	0.003191257	3.19E-03	5.19E-04	2.71E-04
4409	599118.2	4175567	0.006949996	6.95E-03	1.13E-03	5.90E-04
4410	599126.6	4175563	0.0066745	6.67E-03	1.09E-03	5.67E-04
4411	599135.1	4175560	0.006414323	6.41E-03	1.04E-03	5.45E-04
4412	599143.5	4175557	0.006169198	6.17E-03	1.00E-03	5.24E-04
4413	599152	4175553	0.00593816	5.94E-03	9.66E-04	5.04E-04
4414	599160.4	4175550	0.00573113	5.73E-03	9.32E-04	4.87E-04
4415	599168.9	4175547	0.005534556	5.53E-03	9.00E-04	4.70E-04

4416	599177.3	4175544	0.005346048	5.35E-03	8.70E-04	4.54E-04
4417	599278.7	4175504	0.003997175	4.00E-03	6.50E-04	3.39E-04
4418	599287.1	4175501	0.003933455	3.93E-03	6.40E-04	3.34E-04
4419	599295.6	4175498	0.003871114	3.87E-03	6.30E-04	3.29E-04
4420	599304	4175494	0.003809158	3.81E-03	6.20E-04	3.23E-04
4421	599312.5	4175491	0.003730993	3.73E-03	6.07E-04	3.17E-04
4422	599320.9	4175488	0.003654148	3.65E-03	5.94E-04	3.10E-04
4423	599329.4	4175485	0.003578564	3.58E-03	5.82E-04	3.04E-04
4424	599337.8	4175481	0.003512753	3.51E-03	5.71E-04	2.98E-04
4425	599346.2	4175478	0.00345658	3.46E-03	5.62E-04	2.94E-04
4426	599354.7	4175475	0.003400393	3.40E-03	5.53E-04	2.89E-04
4427	599363.1	4175471	0.003342025	3.34E-03	5.44E-04	2.84E-04
4428	599371.6	4175468	0.003275858	3.28E-03	5.33E-04	2.78E-04
4429	599380	4175465	0.00321666	3.22E-03	5.23E-04	2.73E-04
4430	599388.5	4175462	0.003166166	3.17E-03	5.15E-04	2.69E-04
4431	599396.9	4175458	0.00312893	3.13E-03	5.09E-04	2.66E-04
4432	599405.4	4175455	0.003102817	3.10E-03	5.05E-04	2.63E-04
4433	599413.8	4175452	0.003079713	3.08E-03	5.01E-04	2.62E-04
4434	599422.3	4175449	0.003058552	3.06E-03	4.98E-04	2.60E-04
4435	599464.5	4175432	0.003027826	3.03E-03	4.93E-04	2.57E-04
4436	599473	4175429	0.003030569	3.03E-03	4.93E-04	2.57E-04
4437	599481.4	4175426	0.003033416	3.03E-03	4.93E-04	2.58E-04
4438	599128.9	4175543	0.006105536	6.11E-03	9.93E-04	5.18E-04
4439	599137.4	4175539	0.005882774	5.88E-03	9.57E-04	5.00E-04
4440	599154.2	4175533	0.005467113	5.47E-03	8.89E-04	4.64E-04
4441	599162.6	4175530	0.005277582	5.28E-03	8.59E-04	4.48E-04
4442	599179.4	4175523	0.004947752	4.95E-03	8.05E-04	4.20E-04
4443	599187.9	4175520	0.004810376	4.81E-03	7.83E-04	4.08E-04
4444	599280.4	4175484	0.003748477	3.75E-03	6.10E-04	3.18E-04
4445	599297.3	4175477	0.003634841	3.63E-03	5.91E-04	3.09E-04
4446	599305.7	4175474	0.003571506	3.57E-03	5.81E-04	3.03E-04
4447	599322.5	4175468	0.003418009	3.42E-03	5.56E-04	2.90E-04
4448	599330.9	4175464	0.003343182	3.34E-03	5.44E-04	2.84E-04
4449	599347.8	4175458	0.003223763	3.22E-03	5.24E-04	2.74E-04
4450	599356.2	4175455	0.003169459	3.17E-03	5.16E-04	2.69E-04
4451	599373	4175448	0.003068354	3.07E-03	4.99E-04	2.61E-04
4452	599381.4	4175445	0.003026773	3.03E-03	4.92E-04	2.57E-04
4453	599398.3	4175438	0.002962859	2.96E-03	4.82E-04	2.52E-04
4454	599406.7	4175435	0.002938124	2.94E-03	4.78E-04	2.49E-04
4455	599474	4175409	0.002889677	2.89E-03	4.70E-04	2.45E-04
4456	599122.8	4175526	0.005788193	5.79E-03	9.42E-04	4.91E-04
4457	599131.2	4175522	0.005579577	5.58E-03	9.08E-04	4.74E-04
4458	599147.9	4175516	0.005193871	5.19E-03	8.45E-04	4.41E-04
4459	599164.7	4175509	0.004876706	4.88E-03	7.93E-04	4.14E-04
4460	599173.1	4175506	0.00474403	4.74E-03	7.72E-04	4.03E-04
4461	599189.9	4175500	0.004494901	4.49E-03	7.31E-04	3.82E-04
4462	599206.7	4175493	0.004269913	4.27E-03	6.95E-04	3.63E-04

4463	599290.5	4175460	0.003455557	3.46E-03	5.62E-04	2.93E-04
4464	599298.9	4175457	0.003391718	3.39E-03	5.52E-04	2.88E-04
4465	599315.7	4175451	0.003252784	3.25E-03	5.29E-04	2.76E-04
4466	599332.5	4175444	0.003118713	3.12E-03	5.07E-04	2.65E-04
4467	599349.2	4175438	0.003024029	3.02E-03	4.92E-04	2.57E-04
4468	599366	4175431	0.002939859	2.94E-03	4.78E-04	2.50E-04
4469	599382.8	4175425	0.002868235	2.87E-03	4.67E-04	2.44E-04
4470	599391.2	4175421	0.002838502	2.84E-03	4.62E-04	2.41E-04
4471	599407.9	4175415	0.002792917	2.79E-03	4.54E-04	2.37E-04
4472	599466.7	4175392	0.002756631	2.76E-03	4.48E-04	2.34E-04
4473	599475	4175389	0.002759226	2.76E-03	4.49E-04	2.34E-04
4474	599125	4175505	0.005290898	5.29E-03	8.61E-04	4.49E-04
4475	599141.7	4175499	0.004942221	4.94E-03	8.04E-04	4.20E-04
4476	599158.4	4175492	0.004642495	4.64E-03	7.55E-04	3.94E-04
4477	599175.1	4175486	0.004402041	4.40E-03	7.16E-04	3.74E-04
4478	599191.8	4175479	0.004186084	4.19E-03	6.81E-04	3.55E-04
4479	599208.6	4175473	0.0039877	3.99E-03	6.49E-04	3.39E-04
4480	599292.2	4175440	0.003240861	3.24E-03	5.27E-04	2.75E-04
4481	599308.9	4175434	0.003119633	3.12E-03	5.08E-04	2.65E-04
4482	599325.6	4175427	0.003001845	3.00E-03	4.88E-04	2.55E-04
4483	599342.3	4175421	0.002902193	2.90E-03	4.72E-04	2.46E-04
4484	599359	4175414	0.00282265	2.82E-03	4.59E-04	2.40E-04
4485	599375.8	4175408	0.002752849	2.75E-03	4.48E-04	2.34E-04
4486	599392.5	4175401	0.002697655	2.70E-03	4.39E-04	2.29E-04
4487	599409.2	4175395	0.00265993	2.66E-03	4.33E-04	2.26E-04
4488	599476.1	4175369	0.002622813	2.62E-03	4.27E-04	2.23E-04
4489	599127	4175485	0.004865243	4.87E-03	7.91E-04	4.13E-04
4490	599143.7	4175478	0.004566273	4.57E-03	7.43E-04	3.88E-04
4491	599160.4	4175472	0.004304702	4.30E-03	7.00E-04	3.66E-04
4492	599177.1	4175465	0.004098148	4.10E-03	6.67E-04	3.48E-04
4493	599193.7	4175459	0.003912487	3.91E-03	6.36E-04	3.32E-04
4494	599210.4	4175452	0.003735976	3.74E-03	6.08E-04	3.17E-04
4495	599227.1	4175446	0.003569697	3.57E-03	5.81E-04	3.03E-04
4496	599327.1	4175407	0.002848171	2.85E-03	4.63E-04	2.42E-04
4497	599343.8	4175401	0.002763808	2.76E-03	4.50E-04	2.35E-04
4498	599360.4	4175394	0.002680127	2.68E-03	4.36E-04	2.28E-04
4499	599377.1	4175388	0.002615917	2.62E-03	4.26E-04	2.22E-04
4500	599393.8	4175381	0.002569027	2.57E-03	4.18E-04	2.18E-04
4501	599410.4	4175375	0.002537486	2.54E-03	4.13E-04	2.15E-04
4502	599477.1	4175349	0.002505322	2.51E-03	4.08E-04	2.13E-04
4503	599131.6	4175463	0.004410716	4.41E-03	7.18E-04	3.75E-04
4504	599140.1	4175460	0.004275815	4.28E-03	6.96E-04	3.63E-04
4505	599148.5	4175457	0.004150717	4.15E-03	6.75E-04	3.52E-04
4506	599157	4175454	0.004043754	4.04E-03	6.58E-04	3.43E-04
4507	599165.4	4175450	0.003955402	3.96E-03	6.43E-04	3.36E-04
4508	599173.8	4175447	0.003874495	3.87E-03	6.30E-04	3.29E-04
4509	599182.3	4175444	0.003796464	3.80E-03	6.18E-04	3.22E-04

4510	599190.7	4175440	0.003708972	3.71E-03	6.03E-04	3.15E-04
4511	599199.2	4175437	0.003625602	3.63E-03	5.90E-04	3.08E-04
4512	599207.6	4175434	0.003548194	3.55E-03	5.77E-04	3.01E-04
4513	599216.1	4175431	0.00347393	3.47E-03	5.65E-04	2.95E-04
4514	599325.9	4175388	0.002732682	2.73E-03	4.45E-04	2.32E-04
4515	599334.3	4175385	0.00269549	2.70E-03	4.39E-04	2.29E-04
4516	599342.7	4175381	0.002649134	2.65E-03	4.31E-04	2.25E-04
4517	599351.2	4175378	0.002606723	2.61E-03	4.24E-04	2.21E-04
4518	599359.6	4175375	0.002569665	2.57E-03	4.18E-04	2.18E-04
4519	599368.1	4175372	0.002537871	2.54E-03	4.13E-04	2.15E-04
4520	599376.5	4175368	0.002508465	2.51E-03	4.08E-04	2.13E-04
4521	599385	4175365	0.002480319	2.48E-03	4.04E-04	2.11E-04
4522	599393.4	4175362	0.00245382	2.45E-03	3.99E-04	2.08E-04
4523	599401.9	4175358	0.002438279	2.44E-03	3.97E-04	2.07E-04
4524	599133.7	4175443	0.004026849	4.03E-03	6.55E-04	3.42E-04
4525	599142.2	4175440	0.003915452	3.92E-03	6.37E-04	3.32E-04
4526	599159	4175433	0.003727983	3.73E-03	6.06E-04	3.17E-04
4527	599167.4	4175430	0.003656966	3.66E-03	5.95E-04	3.11E-04
4528	599184.3	4175423	0.003530073	3.53E-03	5.74E-04	3.00E-04
4529	599192.7	4175420	0.003460584	3.46E-03	5.63E-04	2.94E-04
4530	599209.5	4175414	0.003335871	3.34E-03	5.43E-04	2.83E-04
4531	599217.9	4175410	0.003271765	3.27E-03	5.32E-04	2.78E-04
4532	599319	4175371	0.002641008	2.64E-03	4.30E-04	2.24E-04
4533	599327.4	4175368	0.002600302	2.60E-03	4.23E-04	2.21E-04
4534	599335.8	4175365	0.002559299	2.56E-03	4.16E-04	2.17E-04
4535	599352.6	4175358	0.002493265	2.49E-03	4.06E-04	2.12E-04
4536	599361	4175355	0.002465327	2.47E-03	4.01E-04	2.09E-04
4537	599377.9	4175348	0.002398403	2.40E-03	3.90E-04	2.04E-04
4538	599386.3	4175345	0.002368597	2.37E-03	3.85E-04	2.01E-04
4539	599403.1	4175338	0.002331139	2.33E-03	3.79E-04	1.98E-04
4540	599144.2	4175419	0.003580552	3.58E-03	5.82E-04	3.04E-04
4541	599161	4175413	0.003450767	3.45E-03	5.61E-04	2.93E-04
4542	599177.8	4175406	0.003348772	3.35E-03	5.45E-04	2.84E-04
4543	599186.2	4175403	0.003294809	3.29E-03	5.36E-04	2.80E-04
4544	599203	4175396	0.003192607	3.19E-03	5.19E-04	2.71E-04
4545	599211.4	4175393	0.00314717	3.15E-03	5.12E-04	2.67E-04
4546	599320.5	4175351	0.002516458	2.52E-03	4.09E-04	2.14E-04
4547	599328.9	4175348	0.002472579	2.47E-03	4.02E-04	2.10E-04
4548	599345.6	4175341	0.002404187	2.40E-03	3.91E-04	2.04E-04
4549	599362.4	4175335	0.002349734	2.35E-03	3.82E-04	2.00E-04
4550	599379.2	4175328	0.002288594	2.29E-03	3.72E-04	1.94E-04
4551	599387.6	4175325	0.002262391	2.26E-03	3.68E-04	1.92E-04
4552	599404.4	4175318	0.00223202	2.23E-03	3.63E-04	1.90E-04
4553	599471.5	4175292	0.002227572	2.23E-03	3.62E-04	1.89E-04
4554	599137.8	4175402	0.00341494	3.41E-03	5.56E-04	2.90E-04
4555	599154.5	4175396	0.003298116	3.30E-03	5.37E-04	2.80E-04
4556	599171.3	4175389	0.003190961	3.19E-03	5.19E-04	2.71E-04

4557	599188	4175383	0.00309119	3.09E-03	5.03E-04	2.62E-04
4558	599204.8	4175376	0.003016348	3.02E-03	4.91E-04	2.56E-04
4559	599321.9	4175331	0.002392368	2.39E-03	3.89E-04	2.03E-04
4560	599338.7	4175324	0.002318993	2.32E-03	3.77E-04	1.97E-04
4561	599355.4	4175318	0.002266083	2.27E-03	3.69E-04	1.92E-04
4562	599372.2	4175311	0.002213514	2.21E-03	3.60E-04	1.88E-04
4563	599388.9	4175305	0.00216434	2.16E-03	3.52E-04	1.84E-04
4564	599405.6	4175298	0.002140065	2.14E-03	3.48E-04	1.82E-04
4565	599472.6	4175272	0.002141444	2.14E-03	3.48E-04	1.82E-04
4566	599126.1	4175387	0.003310157	3.31E-03	5.39E-04	2.81E-04
4567	599134.5	4175384	0.003251315	3.25E-03	5.29E-04	2.76E-04
4568	599143	4175381	0.003191851	3.19E-03	5.19E-04	2.71E-04
4569	599151.5	4175377	0.003131867	3.13E-03	5.10E-04	2.66E-04
4570	599160	4175374	0.003078467	3.08E-03	5.01E-04	2.61E-04
4571	599168.4	4175371	0.003030599	3.03E-03	4.93E-04	2.57E-04
4572	599176.9	4175367	0.002986957	2.99E-03	4.86E-04	2.54E-04
4573	599185.4	4175364	0.002947466	2.95E-03	4.80E-04	2.50E-04
4574	599193.8	4175361	0.002912055	2.91E-03	4.74E-04	2.47E-04
4575	599202.3	4175358	0.002877088	2.88E-03	4.68E-04	2.44E-04
4576	599312.4	4175315	0.00232884	2.33E-03	3.79E-04	1.98E-04
4577	599320.8	4175312	0.00228935	2.29E-03	3.72E-04	1.94E-04
4578	599329.3	4175308	0.002251224	2.25E-03	3.66E-04	1.91E-04
4579	599337.8	4175305	0.002219253	2.22E-03	3.61E-04	1.88E-04
4580	599346.3	4175302	0.002193524	2.19E-03	3.57E-04	1.86E-04
4581	599354.7	4175298	0.002169887	2.17E-03	3.53E-04	1.84E-04
4582	599363.2	4175295	0.002148903	2.15E-03	3.50E-04	1.82E-04
4583	599371.7	4175292	0.002122211	2.12E-03	3.45E-04	1.80E-04
4584	599380.1	4175289	0.002098173	2.10E-03	3.41E-04	1.78E-04
4585	599388.6	4175285	0.002077205	2.08E-03	3.38E-04	1.76E-04
4586	599397.1	4175282	0.002062791	2.06E-03	3.36E-04	1.75E-04
4587	599405.5	4175279	0.002055628	2.06E-03	3.34E-04	1.75E-04
4588	599473.3	4175252	0.002060789	2.06E-03	3.35E-04	1.75E-04
4589	599481.7	4175249	0.002063873	2.06E-03	3.36E-04	1.75E-04
4590	599490.2	4175246	0.002066276	2.07E-03	3.36E-04	1.75E-04
4591	599128.2	4175367	0.003117853	3.12E-03	5.07E-04	2.65E-04
4592	599136.6	4175363	0.003057202	3.06E-03	4.97E-04	2.60E-04
4593	599145	4175360	0.002995454	3.00E-03	4.87E-04	2.54E-04
4594	599153.5	4175357	0.002933186	2.93E-03	4.77E-04	2.49E-04
4595	599161.9	4175354	0.002896736	2.90E-03	4.71E-04	2.46E-04
4596	599170.4	4175350	0.002862807	2.86E-03	4.66E-04	2.43E-04
4597	599178.8	4175347	0.002829367	2.83E-03	4.60E-04	2.40E-04
4598	599187.3	4175344	0.0027944	2.79E-03	4.55E-04	2.37E-04
4599	599195.7	4175341	0.002756097	2.76E-03	4.48E-04	2.34E-04
4600	599204.1	4175337	0.002715509	2.72E-03	4.42E-04	2.31E-04
4601	599305.5	4175298	0.002256266	2.26E-03	3.67E-04	1.92E-04
4602	599313.9	4175295	0.002218645	2.22E-03	3.61E-04	1.88E-04
4603	599322.4	4175291	0.002182076	2.18E-03	3.55E-04	1.85E-04

4604	599330.8	4175288	0.00214705	2.15E-03	3.49E-04	1.82E-04
4605	599339.2	4175285	0.002119527	2.12E-03	3.45E-04	1.80E-04
4606	599347.7	4175282	0.002096393	2.10E-03	3.41E-04	1.78E-04
4607	599356.1	4175278	0.002075425	2.08E-03	3.38E-04	1.76E-04
4608	599364.6	4175275	0.002055895	2.06E-03	3.34E-04	1.75E-04
4609	599373	4175272	0.002031916	2.03E-03	3.31E-04	1.73E-04
4610	599381.5	4175268	0.0020108	2.01E-03	3.27E-04	1.71E-04
4611	599389.9	4175265	0.001992441	1.99E-03	3.24E-04	1.69E-04
4612	599398.3	4175262	0.001981275	1.98E-03	3.22E-04	1.68E-04
4613	599406.8	4175259	0.00197567	1.98E-03	3.21E-04	1.68E-04
4614	599474.3	4175232	0.001982135	1.98E-03	3.22E-04	1.68E-04
4615	599482.8	4175229	0.001982847	1.98E-03	3.23E-04	1.68E-04
4616	599491.2	4175226	0.001982936	1.98E-03	3.23E-04	1.68E-04
4617	599121.7	4175350	0.002992858	2.99E-03	4.87E-04	2.54E-04
4618	599130.2	4175346	0.002933453	2.93E-03	4.77E-04	2.49E-04
4619	599147	4175340	0.002825986	2.83E-03	4.60E-04	2.40E-04
4620	599155.4	4175337	0.002781306	2.78E-03	4.52E-04	2.36E-04
4621	599172.3	4175330	0.002718623	2.72E-03	4.42E-04	2.31E-04
4622	599180.7	4175327	0.002688001	2.69E-03	4.37E-04	2.28E-04
4623	599189.1	4175323	0.002651017	2.65E-03	4.31E-04	2.25E-04
4624	599205.9	4175317	0.002571163	2.57E-03	4.18E-04	2.18E-04
4625	599298.6	4175281	0.002182017	2.18E-03	3.55E-04	1.85E-04
4626	599307	4175278	0.00215138	2.15E-03	3.50E-04	1.83E-04
4627	599323.8	4175271	0.002082766	2.08E-03	3.39E-04	1.77E-04
4628	599332.2	4175268	0.00205069	2.05E-03	3.34E-04	1.74E-04
4629	599340.7	4175265	0.002027141	2.03E-03	3.30E-04	1.72E-04
4630	599357.5	4175258	0.001987889	1.99E-03	3.23E-04	1.69E-04
4631	599365.9	4175255	0.001969427	1.97E-03	3.20E-04	1.67E-04
4632	599382.8	4175248	0.001929536	1.93E-03	3.14E-04	1.64E-04
4633	599391.2	4175245	0.001913639	1.91E-03	3.11E-04	1.62E-04
4634	599399.6	4175242	0.001905216	1.91E-03	3.10E-04	1.62E-04
4635	599475.4	4175212	0.001896319	1.90E-03	3.08E-04	1.61E-04
4636	599483.8	4175209	0.001897134	1.90E-03	3.09E-04	1.61E-04
4637	599123.7	4175329	0.002807257	2.81E-03	4.57E-04	2.38E-04
4638	599132.1	4175326	0.002760545	2.76E-03	4.49E-04	2.34E-04
4639	599148.9	4175319	0.002678956	2.68E-03	4.36E-04	2.27E-04
4640	599165.7	4175313	0.002614686	2.61E-03	4.25E-04	2.22E-04
4641	599174.1	4175310	0.002586096	2.59E-03	4.21E-04	2.20E-04
4642	599190.9	4175303	0.00252153	2.52E-03	4.10E-04	2.14E-04
4643	599199.3	4175300	0.00248416	2.48E-03	4.04E-04	2.11E-04
4644	599291.7	4175264	0.002109903	2.11E-03	3.43E-04	1.79E-04
4645	599308.5	4175258	0.002053982	2.05E-03	3.34E-04	1.74E-04
4646	599325.3	4175251	0.001990706	1.99E-03	3.24E-04	1.69E-04
4647	599333.7	4175248	0.001961315	1.96E-03	3.19E-04	1.67E-04
4648	599350.5	4175241	0.001922744	1.92E-03	3.13E-04	1.63E-04
4649	599358.9	4175238	0.001906418	1.91E-03	3.10E-04	1.62E-04
4650	599375.7	4175231	0.001870457	1.87E-03	3.04E-04	1.59E-04

4651	599384.1	4175228	0.001854041	1.85E-03	3.02E-04	1.57E-04
4652	599400.9	4175222	0.001831605	1.83E-03	2.98E-04	1.56E-04
4653	599468	4175196	0.00182207	1.82E-03	2.96E-04	1.55E-04
4654	599476.4	4175192	0.001825495	1.83E-03	2.97E-04	1.55E-04
4655	599493.2	4175186	0.001831234	1.83E-03	2.98E-04	1.55E-04
4656	599125.6	4175309	0.00266122	2.66E-03	4.33E-04	2.26E-04
4657	599142.4	4175302	0.002584642	2.58E-03	4.20E-04	2.19E-04
4658	599159.2	4175296	0.002517289	2.52E-03	4.10E-04	2.14E-04
4659	599175.9	4175289	0.002458476	2.46E-03	4.00E-04	2.09E-04
4660	599293.2	4175244	0.00201685	2.02E-03	3.28E-04	1.71E-04
4661	599309.9	4175237	0.001963539	1.96E-03	3.19E-04	1.67E-04
4662	599326.7	4175231	0.001904164	1.90E-03	3.10E-04	1.62E-04
4663	599343.4	4175224	0.001861485	1.86E-03	3.03E-04	1.58E-04
4664	599360.2	4175218	0.001830833	1.83E-03	2.98E-04	1.55E-04
4665	599377	4175211	0.001798002	1.80E-03	2.93E-04	1.53E-04
4666	599393.7	4175205	0.001770894	1.77E-03	2.88E-04	1.50E-04
4667	599477.5	4175172	0.001762619	1.76E-03	2.87E-04	1.50E-04
4668	599114.2	4175294	0.002635818	2.64E-03	4.29E-04	2.24E-04
4669	599122.7	4175290	0.002562399	2.56E-03	4.17E-04	2.18E-04
4670	599131.2	4175287	0.00252322	2.52E-03	4.10E-04	2.14E-04
4671	599139.6	4175284	0.002486325	2.49E-03	4.04E-04	2.11E-04
4672	599148.1	4175281	0.002447695	2.45E-03	3.98E-04	2.08E-04
4673	599156.6	4175277	0.002411275	2.41E-03	3.92E-04	2.05E-04
4674	599165	4175274	0.002378933	2.38E-03	3.87E-04	2.02E-04
4675	599173.5	4175271	0.002345419	2.35E-03	3.82E-04	1.99E-04
4676	599182	4175267	0.00231017	2.31E-03	3.76E-04	1.96E-04
4677	599275.1	4175231	0.001984478	1.98E-03	3.23E-04	1.69E-04
4678	599283.5	4175228	0.001958497	1.96E-03	3.19E-04	1.66E-04
4679	599292	4175225	0.001931672	1.93E-03	3.14E-04	1.64E-04
4680	599300.5	4175221	0.00190357	1.90E-03	3.10E-04	1.62E-04
4681	599308.9	4175218	0.001875321	1.88E-03	3.05E-04	1.59E-04
4682	599317.4	4175215	0.001850037	1.85E-03	3.01E-04	1.57E-04
4683	599325.8	4175212	0.001827423	1.83E-03	2.97E-04	1.55E-04
4684	599334.3	4175208	0.001807759	1.81E-03	2.94E-04	1.53E-04
4685	599342.8	4175205	0.001790899	1.79E-03	2.91E-04	1.52E-04
4686	599351.2	4175202	0.001774127	1.77E-03	2.89E-04	1.51E-04
4687	599359.7	4175198	0.001758052	1.76E-03	2.86E-04	1.49E-04
4688	599368.2	4175195	0.001740287	1.74E-03	2.83E-04	1.48E-04
4689	599376.6	4175192	0.001722744	1.72E-03	2.80E-04	1.46E-04
4690	599385.1	4175189	0.001707411	1.71E-03	2.78E-04	1.45E-04
4691	599393.6	4175185	0.001694346	1.69E-03	2.76E-04	1.44E-04
4692	599402	4175182	0.001687836	1.69E-03	2.75E-04	1.43E-04
4693	599469.7	4175156	0.00169488	1.69E-03	2.76E-04	1.44E-04
4694	599478.2	4175153	0.00170139	1.70E-03	2.77E-04	1.44E-04
4695	599486.7	4175149	0.001706818	1.71E-03	2.78E-04	1.45E-04
4696	599495.1	4175146	0.001709057	1.71E-03	2.78E-04	1.45E-04
4697	599107.8	4175277	0.002592057	2.59E-03	4.22E-04	2.20E-04

4698	599116.2	4175273	0.002522019	2.52E-03	4.10E-04	2.14E-04
4699	599124.7	4175270	0.002457453	2.46E-03	4.00E-04	2.09E-04
4700	599133.1	4175267	0.002417963	2.42E-03	3.93E-04	2.05E-04
4701	599141.6	4175264	0.002376234	2.38E-03	3.87E-04	2.02E-04
4702	599150	4175260	0.002334608	2.33E-03	3.80E-04	1.98E-04
4703	599158.4	4175257	0.002298529	2.30E-03	3.74E-04	1.95E-04
4704	599166.9	4175254	0.002266661	2.27E-03	3.69E-04	1.92E-04
4705	599175.3	4175250	0.002235164	2.24E-03	3.64E-04	1.90E-04
4706	599268.2	4175214	0.001923931	1.92E-03	3.13E-04	1.63E-04
4707	599276.6	4175211	0.00189795	1.90E-03	3.09E-04	1.61E-04
4708	599285.1	4175208	0.001868677	1.87E-03	3.04E-04	1.59E-04
4709	599293.5	4175205	0.001839494	1.84E-03	2.99E-04	1.56E-04
4710	599302	4175201	0.001811645	1.81E-03	2.95E-04	1.54E-04
4711	599310.4	4175198	0.001790231	1.79E-03	2.91E-04	1.52E-04
4712	599318.8	4175195	0.001770968	1.77E-03	2.88E-04	1.50E-04
4713	599327.3	4175191	0.001752906	1.75E-03	2.85E-04	1.49E-04
4714	599335.7	4175188	0.001735393	1.74E-03	2.82E-04	1.47E-04
4715	599344.2	4175185	0.001715967	1.72E-03	2.79E-04	1.46E-04
4716	599352.6	4175182	0.001696897	1.70E-03	2.76E-04	1.44E-04
4717	599361.1	4175178	0.001678761	1.68E-03	2.73E-04	1.43E-04
4718	599369.5	4175175	0.001661366	1.66E-03	2.70E-04	1.41E-04
4719	599377.9	4175172	0.001647175	1.65E-03	2.68E-04	1.40E-04
4720	599386.4	4175169	0.001636275	1.64E-03	2.66E-04	1.39E-04
4721	599394.8	4175165	0.001628772	1.63E-03	2.65E-04	1.38E-04
4722	599403.3	4175162	0.001624012	1.62E-03	2.64E-04	1.38E-04
4723	599470.8	4175136	0.001630996	1.63E-03	2.65E-04	1.38E-04
4724	599479.2	4175133	0.001637447	1.64E-03	2.66E-04	1.39E-04
4725	599487.7	4175129	0.001642474	1.64E-03	2.67E-04	1.39E-04
4726	599496.1	4175126	0.0016463	1.65E-03	2.68E-04	1.40E-04
4727	599109.7	4175256	0.002485584	2.49E-03	4.04E-04	2.11E-04
4728	599118.2	4175253	0.002410904	2.41E-03	3.92E-04	2.05E-04
4729	599135	4175246	0.002305543	2.31E-03	3.75E-04	1.96E-04
4730	599143.4	4175243	0.002266024	2.27E-03	3.69E-04	1.92E-04
4731	599151.9	4175240	0.002227142	2.23E-03	3.62E-04	1.89E-04
4732	599168.7	4175233	0.002164326	2.16E-03	3.52E-04	1.84E-04
4733	599261.3	4175197	0.001863472	1.86E-03	3.03E-04	1.58E-04
4734	599269.8	4175194	0.001842029	1.84E-03	3.00E-04	1.56E-04
4735	599278.2	4175191	0.001817205	1.82E-03	2.96E-04	1.54E-04
4736	599295	4175184	0.001762931	1.76E-03	2.87E-04	1.50E-04
4737	599303.4	4175181	0.001737054	1.74E-03	2.83E-04	1.47E-04
4738	599311.9	4175178	0.001718429	1.72E-03	2.80E-04	1.46E-04
4739	599328.7	4175171	0.001681697	1.68E-03	2.74E-04	1.43E-04
4740	599337.1	4175168	0.001661589	1.66E-03	2.70E-04	1.41E-04
4741	599345.5	4175165	0.00164019	1.64E-03	2.67E-04	1.39E-04
4742	599362.4	4175158	0.00160337	1.60E-03	2.61E-04	1.36E-04
4743	599370.8	4175155	0.001591239	1.59E-03	2.59E-04	1.35E-04
4744	599379.2	4175152	0.00158252	1.58E-03	2.57E-04	1.34E-04

4745	599396.1	4175145	0.001572021	1.57E-03	2.56E-04	1.33E-04
4746	599463.4	4175119	0.00156081	1.56E-03	2.54E-04	1.33E-04
4747	599471.9	4175116	0.001567483	1.57E-03	2.55E-04	1.33E-04
4748	599488.7	4175109	0.001577315	1.58E-03	2.57E-04	1.34E-04
4749	599497.1	4175106	0.001584611	1.58E-03	2.58E-04	1.35E-04
4750	599136.9	4175226	0.002190484	2.19E-03	3.56E-04	1.86E-04
4751	599153.7	4175220	0.002127386	2.13E-03	3.46E-04	1.81E-04
4752	599254.5	4175181	0.001807181	1.81E-03	2.94E-04	1.53E-04
4753	599271.3	4175174	0.001765259	1.77E-03	2.87E-04	1.50E-04
4754	599288.1	4175167	0.001713268	1.71E-03	2.79E-04	1.45E-04
4755	599296.5	4175164	0.001689393	1.69E-03	2.75E-04	1.43E-04
4756	599313.3	4175158	0.00164713	1.65E-03	2.68E-04	1.40E-04
4757	599330.1	4175151	0.001605816	1.61E-03	2.61E-04	1.36E-04
4758	599338.5	4175148	0.001585308	1.59E-03	2.58E-04	1.35E-04
4759	599355.3	4175141	0.001550889	1.55E-03	2.52E-04	1.32E-04
4760	599372.1	4175135	0.001530025	1.53E-03	2.49E-04	1.30E-04
4761	599388.9	4175128	0.001514765	1.51E-03	2.46E-04	1.29E-04
4762	599397.3	4175125	0.001508656	1.51E-03	2.45E-04	1.28E-04
4763	599472.9	4175096	0.001500218	1.50E-03	2.44E-04	1.27E-04
4764	599489.7	4175089	0.00151094	1.51E-03	2.46E-04	1.28E-04
4765	599510.6	4176283	0.009203667	9.20E-03	1.50E-03	7.81E-04
4766	599520	4176285	0.007060695	7.06E-03	1.15E-03	6.00E-04
4767	599529.4	4176287	0.005869279	5.87E-03	9.55E-04	4.98E-04
4768	599538.8	4176289	0.005288452	5.29E-03	8.60E-04	4.49E-04
4769	599548.2	4176290	0.005092648	5.09E-03	8.28E-04	4.32E-04
4770	599518.2	4176295	0.005998885	6.00E-03	9.76E-04	5.09E-04
4771	599527.6	4176297	0.005136824	5.14E-03	8.36E-04	4.36E-04
4772	599537	4176298	0.004694872	4.69E-03	7.64E-04	3.99E-04
4773	599546.4	4176300	0.004501915	4.50E-03	7.32E-04	3.82E-04
4774	599516.4	4176305	0.005131589	5.13E-03	8.35E-04	4.36E-04
4775	599525.8	4176306	0.004500313	4.50E-03	7.32E-04	3.82E-04
4776	599535.2	4176308	0.004171907	4.17E-03	6.79E-04	3.54E-04
4777	599544.6	4176310	0.004004101	4.00E-03	6.51E-04	3.40E-04
4778	599514.6	4176315	0.004396954	4.40E-03	7.15E-04	3.73E-04
4779	599524	4176316	0.003966998	3.97E-03	6.45E-04	3.37E-04
4780	599533.4	4176318	0.003762742	3.76E-03	6.12E-04	3.19E-04
4781	599542.8	4176320	0.003639023	3.64E-03	5.92E-04	3.09E-04
4782	599512.8	4176324	0.00441079	4.41E-03	7.18E-04	3.75E-04
4783	599522.2	4176326	0.003899689	3.90E-03	6.34E-04	3.31E-04
4784	599531.6	4176328	0.003598925	3.60E-03	5.85E-04	3.06E-04
4785	599541	4176330	0.00341365	3.41E-03	5.55E-04	2.90E-04
4786	599511	4176334	0.004629193	4.63E-03	7.53E-04	3.93E-04
4787	599520.4	4176336	0.003905606	3.91E-03	6.35E-04	3.32E-04
4788	599529.8	4176338	0.003485615	3.49E-03	5.67E-04	2.96E-04
4789	599539.2	4176339	0.003234514	3.23E-03	5.26E-04	2.75E-04
4790	599518.6	4176346	0.003993988	3.99E-03	6.50E-04	3.39E-04
4791	599528	4176348	0.003494795	3.49E-03	5.69E-04	2.97E-04

4792	599537.4	4176349	0.003195009	3.20E-03	5.20E-04	2.71E-04
4793	599516.8	4176356	0.004863093	4.86E-03	7.91E-04	4.13E-04
4794	599526.2	4176357	0.004009099	4.01E-03	6.52E-04	3.40E-04
4795	599535.6	4176359	0.003466783	3.47E-03	5.64E-04	2.94E-04
4796	599515	4176365	0.006150913	6.15E-03	1.00E-03	5.22E-04
4797	599524.4	4176367	0.004861239	4.86E-03	7.91E-04	4.13E-04
4798	599533.8	4176369	0.003963217	3.96E-03	6.45E-04	3.37E-04
4799	599513.2	4176375	0.007488708	7.49E-03	1.22E-03	6.36E-04
4800	599522.6	4176377	0.005969331	5.97E-03	9.71E-04	5.07E-04
4801	599532	4176379	0.004633479	4.63E-03	7.54E-04	3.93E-04
4802	599520.8	4176387	0.006460264	6.46E-03	1.05E-03	5.49E-04
4803	599530.2	4176389	0.005142088	5.14E-03	8.37E-04	4.37E-04
4804	599519	4176397	0.006842455	6.84E-03	1.11E-03	5.81E-04
4805	599528.4	4176398	0.005652225	5.65E-03	9.20E-04	4.80E-04
4806	599517.2	4176407	0.007084689	7.08E-03	1.15E-03	6.02E-04
4807	599526.6	4176408	0.006057164	6.06E-03	9.85E-04	5.14E-04
4808	599515.4	4176416	0.007089182	7.09E-03	1.15E-03	6.02E-04
4809	599524.8	4176418	0.006257328	6.26E-03	1.02E-03	5.31E-04
4810	599513.6	4176426	0.007021857	7.02E-03	1.14E-03	5.96E-04
4811	599523	4176428	0.006366144	6.37E-03	1.04E-03	5.41E-04
4812	599500.6	4176444	0.006593785	6.59E-03	1.07E-03	5.60E-04
4813	599510	4176446	0.006538443	6.54E-03	1.06E-03	5.55E-04
4814	599519.4	4176448	0.006318023	6.32E-03	1.03E-03	5.36E-04
4815	599489.8	4176503	0.005251631	5.25E-03	8.54E-04	4.46E-04
4816	599499.2	4176505	0.005248279	5.25E-03	8.54E-04	4.46E-04
4817	599508.6	4176507	0.005231745	5.23E-03	8.51E-04	4.44E-04
4818	599495.6	4176525	0.004847152	4.85E-03	7.89E-04	4.12E-04
4819	599505	4176526	0.004802917	4.80E-03	7.81E-04	4.08E-04
4820	599514.4	4176528	0.004749947	4.75E-03	7.73E-04	4.03E-04
4821	599501.4	4176546	0.004410315	4.41E-03	7.17E-04	3.74E-04
4822	599322.7	4176835	0.001716901	1.72E-03	2.79E-04	1.46E-04
4823	599314.5	4176831	0.00166411	1.66E-03	2.71E-04	1.41E-04
4824	599306.3	4176826	0.001654397	1.65E-03	2.69E-04	1.40E-04
4825	599298.1	4176821	0.001646463	1.65E-03	2.68E-04	1.40E-04
4826	599289.8	4176817	0.001643957	1.64E-03	2.67E-04	1.40E-04
4827	599281.6	4176812	0.0016467	1.65E-03	2.68E-04	1.40E-04
4828	599330.9	4176840	0.001725576	1.73E-03	2.81E-04	1.47E-04
4829	599340.3	4176842	0.0017504	1.75E-03	2.85E-04	1.49E-04
4830	599349.7	4176844	0.001777404	1.78E-03	2.89E-04	1.51E-04
4831	599359.1	4176845	0.001805357	1.81E-03	2.94E-04	1.53E-04
4832	599368.5	4176847	0.001833859	1.83E-03	2.98E-04	1.56E-04
4833	599377.9	4176849	0.00186193	1.86E-03	3.03E-04	1.58E-04
4834	599387.3	4176850	0.001889023	1.89E-03	3.07E-04	1.60E-04
4835	599319	4176855	0.001597586	1.60E-03	2.60E-04	1.36E-04
4836	599310.8	4176850	0.001591136	1.59E-03	2.59E-04	1.35E-04
4837	599302.5	4176846	0.00158424	1.58E-03	2.58E-04	1.35E-04
4838	599294.2	4176841	0.001571858	1.57E-03	2.56E-04	1.33E-04

4839	599285.9	4176836	0.001564399	1.56E-03	2.55E-04	1.33E-04
4840	599277.7	4176832	0.00156164	1.56E-03	2.54E-04	1.33E-04
4841	599269.4	4176827	0.00156818	1.57E-03	2.55E-04	1.33E-04
4842	599261.1	4176822	0.001580473	1.58E-03	2.57E-04	1.34E-04
4843	599252.8	4176818	0.001591328	1.59E-03	2.59E-04	1.35E-04
4844	599244.6	4176813	0.001600952	1.60E-03	2.60E-04	1.36E-04
4845	599236.3	4176808	0.001609909	1.61E-03	2.62E-04	1.37E-04
4846	599228	4176804	0.001621298	1.62E-03	2.64E-04	1.38E-04
4847	599219.7	4176799	0.001634674	1.63E-03	2.66E-04	1.39E-04
4848	599211.5	4176794	0.001641777	1.64E-03	2.67E-04	1.39E-04
4849	599203.2	4176790	0.001624531	1.62E-03	2.64E-04	1.38E-04
4850	599194.9	4176785	0.001597957	1.60E-03	2.60E-04	1.36E-04
4851	599186.6	4176780	0.001560068	1.56E-03	2.54E-04	1.32E-04
4852	599327.3	4176860	0.001606513	1.61E-03	2.61E-04	1.36E-04
4853	599336.7	4176861	0.001633517	1.63E-03	2.66E-04	1.39E-04
4854	599346.1	4176863	0.001666972	1.67E-03	2.71E-04	1.42E-04
4855	599355.5	4176865	0.001727608	1.73E-03	2.81E-04	1.47E-04
4856	599364.9	4176867	0.001755175	1.76E-03	2.86E-04	1.49E-04
4857	599374.3	4176868	0.001782401	1.78E-03	2.90E-04	1.51E-04
4858	599383.7	4176870	0.001808634	1.81E-03	2.94E-04	1.54E-04
4859	599393.1	4176872	0.001833221	1.83E-03	2.98E-04	1.56E-04
4860	599402.5	4176874	0.001855746	1.86E-03	3.02E-04	1.58E-04
4861	599411.9	4176875	0.001875706	1.88E-03	3.05E-04	1.59E-04
4862	599315.5	4176875	0.001526332	1.53E-03	2.48E-04	1.30E-04
4863	599307.3	4176870	0.001518102	1.52E-03	2.47E-04	1.29E-04
4864	599299.2	4176866	0.001509649	1.51E-03	2.46E-04	1.28E-04
4865	599291	4176861	0.001497771	1.50E-03	2.44E-04	1.27E-04
4866	599282.8	4176856	0.001485611	1.49E-03	2.42E-04	1.26E-04
4867	599274.6	4176852	0.001476358	1.48E-03	2.40E-04	1.25E-04
4868	599266.4	4176847	0.001479917	1.48E-03	2.41E-04	1.26E-04
4869	599258.3	4176842	0.001488992	1.49E-03	2.42E-04	1.26E-04
4870	599250.1	4176838	0.001502309	1.50E-03	2.44E-04	1.28E-04
4871	599241.9	4176833	0.001518591	1.52E-03	2.47E-04	1.29E-04
4872	599233.7	4176829	0.001531567	1.53E-03	2.49E-04	1.30E-04
4873	599225.5	4176824	0.001540731	1.54E-03	2.51E-04	1.31E-04
4874	599217.4	4176819	0.001548398	1.55E-03	2.52E-04	1.31E-04
4875	599209.2	4176815	0.001557147	1.56E-03	2.53E-04	1.32E-04
4876	599201	4176810	0.001560869	1.56E-03	2.54E-04	1.33E-04
4877	599192.8	4176805	0.001557251	1.56E-03	2.53E-04	1.32E-04
4878	599184.6	4176801	0.001543994	1.54E-03	2.51E-04	1.31E-04
4879	599176.5	4176796	0.001475676	1.48E-03	2.40E-04	1.25E-04
4880	599323.7	4176879	0.001538967	1.54E-03	2.50E-04	1.31E-04
4881	599333.1	4176881	0.001567557	1.57E-03	2.55E-04	1.33E-04
4882	599342.5	4176883	0.001599232	1.60E-03	2.60E-04	1.36E-04
4883	599351.9	4176885	0.001657955	1.66E-03	2.70E-04	1.41E-04
4884	599361.3	4176886	0.001683995	1.68E-03	2.74E-04	1.43E-04
4885	599370.7	4176888	0.001709383	1.71E-03	2.78E-04	1.45E-04

4886	599380.1	4176890	0.00173437	1.73E-03	2.82E-04	1.47E-04
4887	599389.5	4176891	0.001758126	1.76E-03	2.86E-04	1.49E-04
4888	599398.9	4176893	0.001779436	1.78E-03	2.89E-04	1.51E-04
4889	599408.3	4176895	0.001797987	1.80E-03	2.93E-04	1.53E-04
4890	599417.7	4176897	0.001813795	1.81E-03	2.95E-04	1.54E-04
4891	599311.9	4176894	0.001460298	1.46E-03	2.38E-04	1.24E-04
4892	599303.6	4176890	0.001446107	1.45E-03	2.35E-04	1.23E-04
4893	599295.4	4176885	0.001434421	1.43E-03	2.33E-04	1.22E-04
4894	599287.1	4176880	0.001426443	1.43E-03	2.32E-04	1.21E-04
4895	599278.9	4176876	0.00141848	1.42E-03	2.31E-04	1.20E-04
4896	599270.7	4176871	0.001411036	1.41E-03	2.30E-04	1.20E-04
4897	599262.4	4176866	0.001407506	1.41E-03	2.29E-04	1.20E-04
4898	599254.2	4176862	0.001405149	1.41E-03	2.29E-04	1.19E-04
4899	599246	4176857	0.001404288	1.40E-03	2.28E-04	1.19E-04
4900	599237.7	4176853	0.001418361	1.42E-03	2.31E-04	1.20E-04
4901	599229.5	4176848	0.001436423	1.44E-03	2.34E-04	1.22E-04
4902	599221.2	4176843	0.001451638	1.45E-03	2.36E-04	1.23E-04
4903	599213	4176839	0.001464035	1.46E-03	2.38E-04	1.24E-04
4904	599204.8	4176834	0.001477248	1.48E-03	2.40E-04	1.25E-04
4905	599196.5	4176829	0.001492655	1.49E-03	2.43E-04	1.27E-04
4906	599188.3	4176825	0.001506002	1.51E-03	2.45E-04	1.28E-04
4907	599180.1	4176820	0.001481978	1.48E-03	2.41E-04	1.26E-04
4908	599171.8	4176815	0.001410146	1.41E-03	2.29E-04	1.20E-04
4909	599163.6	4176811	0.00131739	1.32E-03	2.14E-04	1.12E-04
4910	599320.1	4176899	0.00147664	1.48E-03	2.40E-04	1.25E-04
4911	599329.5	4176901	0.001505364	1.51E-03	2.45E-04	1.28E-04
4912	599338.9	4176903	0.001533702	1.53E-03	2.50E-04	1.30E-04
4913	599348.3	4176904	0.001560795	1.56E-03	2.54E-04	1.33E-04
4914	599357.7	4176906	0.001587814	1.59E-03	2.58E-04	1.35E-04
4915	599367.1	4176908	0.001636691	1.64E-03	2.66E-04	1.39E-04
4916	599376.5	4176909	0.0016623	1.66E-03	2.70E-04	1.41E-04
4917	599385.9	4176911	0.00168662	1.69E-03	2.74E-04	1.43E-04
4918	599395.3	4176913	0.00170833	1.71E-03	2.78E-04	1.45E-04
4919	599404.7	4176915	0.001724894	1.72E-03	2.81E-04	1.46E-04
4920	599414.1	4176916	0.001739071	1.74E-03	2.83E-04	1.48E-04
4921	599423.5	4176918	0.001751171	1.75E-03	2.85E-04	1.49E-04
4922	599308.2	4176914	0.001403873	1.40E-03	2.28E-04	1.19E-04
4923	599299.9	4176909	0.001390067	1.39E-03	2.26E-04	1.18E-04
4924	599291.6	4176905	0.001378071	1.38E-03	2.24E-04	1.17E-04
4925	599283.3	4176900	0.001368194	1.37E-03	2.23E-04	1.16E-04
4926	599275	4176895	0.001360765	1.36E-03	2.21E-04	1.16E-04
4927	599266.7	4176891	0.001355011	1.36E-03	2.20E-04	1.15E-04
4928	599258.4	4176886	0.001351022	1.35E-03	2.20E-04	1.15E-04
4929	599250.1	4176881	0.001348798	1.35E-03	2.19E-04	1.15E-04
4930	599241.9	4176877	0.001345313	1.35E-03	2.19E-04	1.14E-04
4931	599233.6	4176872	0.001339456	1.34E-03	2.18E-04	1.14E-04
4932	599225.3	4176867	0.001343756	1.34E-03	2.19E-04	1.14E-04

4933	599217	4176863	0.001357873	1.36E-03	2.21E-04	1.15E-04
4934	599208.7	4176858	0.001376484	1.38E-03	2.24E-04	1.17E-04
4935	599200.4	4176853	0.001388837	1.39E-03	2.26E-04	1.18E-04
4936	599192.1	4176848	0.001399039	1.40E-03	2.28E-04	1.19E-04
4937	599183.8	4176844	0.001411065	1.41E-03	2.30E-04	1.20E-04
4938	599175.5	4176839	0.001386004	1.39E-03	2.25E-04	1.18E-04
4939	599167.2	4176834	0.001337706	1.34E-03	2.18E-04	1.14E-04
4940	599158.9	4176830	0.001261662	1.26E-03	2.05E-04	1.07E-04
4941	599150.6	4176825	0.001157591	1.16E-03	1.88E-04	9.83E-05
4942	599316.5	4176919	0.001418836	1.42E-03	2.31E-04	1.20E-04
4943	599325.9	4176920	0.001444831	1.44E-03	2.35E-04	1.23E-04
4944	599335.3	4176922	0.001470975	1.47E-03	2.39E-04	1.25E-04
4945	599344.7	4176924	0.00149531	1.50E-03	2.43E-04	1.27E-04
4946	599354.1	4176926	0.001521098	1.52E-03	2.47E-04	1.29E-04
4947	599363.5	4176927	0.00154733	1.55E-03	2.52E-04	1.31E-04
4948	599372.9	4176929	0.001594591	1.59E-03	2.59E-04	1.35E-04
4949	599382.3	4176931	0.001617324	1.62E-03	2.63E-04	1.37E-04
4950	599391.7	4176933	0.00163807	1.64E-03	2.66E-04	1.39E-04
4951	599401.1	4176934	0.001656146	1.66E-03	2.69E-04	1.41E-04
4952	599410.5	4176936	0.001672266	1.67E-03	2.72E-04	1.42E-04
4953	599419.9	4176938	0.001686294	1.69E-03	2.74E-04	1.43E-04
4954	599304.7	4176934	0.001350533	1.35E-03	2.20E-04	1.15E-04
4955	599296.5	4176929	0.001337617	1.34E-03	2.18E-04	1.14E-04
4956	599288.3	4176925	0.001326109	1.33E-03	2.16E-04	1.13E-04
4957	599280.1	4176920	0.001316307	1.32E-03	2.14E-04	1.12E-04
4958	599271.9	4176915	0.001308715	1.31E-03	2.13E-04	1.11E-04
4959	599263.7	4176911	0.00130302	1.30E-03	2.12E-04	1.11E-04
4960	599255.5	4176906	0.001298661	1.30E-03	2.11E-04	1.10E-04
4961	599247.2	4176901	0.001296006	1.30E-03	2.11E-04	1.10E-04
4962	599239	4176897	0.001284187	1.28E-03	2.09E-04	1.09E-04
4963	599230.8	4176892	0.001262952	1.26E-03	2.05E-04	1.07E-04
4964	599222.6	4176887	0.001239166	1.24E-03	2.02E-04	1.05E-04
4965	599214.4	4176883	0.00122585	1.23E-03	1.99E-04	1.04E-04
4966	599206.2	4176878	0.001233783	1.23E-03	2.01E-04	1.05E-04
4967	599198	4176874	0.001245765	1.25E-03	2.03E-04	1.06E-04
4968	599189.8	4176869	0.001261781	1.26E-03	2.05E-04	1.07E-04
4969	599181.6	4176864	0.001279665	1.28E-03	2.08E-04	1.09E-04
4970	599173.4	4176860	0.001291973	1.29E-03	2.10E-04	1.10E-04
4971	599165.2	4176855	0.001291083	1.29E-03	2.10E-04	1.10E-04
4972	599157	4176850	0.001257065	1.26E-03	2.05E-04	1.07E-04
4973	599148.8	4176846	0.001202153	1.20E-03	1.96E-04	1.02E-04
4974	599140.6	4176841	0.001126702	1.13E-03	1.83E-04	9.57E-05
4975	599312.9	4176938	0.001361195	1.36E-03	2.21E-04	1.16E-04
4976	599322.3	4176940	0.001381867	1.38E-03	2.25E-04	1.17E-04
4977	599331.7	4176942	0.001403651	1.40E-03	2.28E-04	1.19E-04
4978	599341.1	4176944	0.001430358	1.43E-03	2.33E-04	1.21E-04
4979	599350.5	4176945	0.001459038	1.46E-03	2.37E-04	1.24E-04

4980	599359.9	4176947	0.001487346	1.49E-03	2.42E-04	1.26E-04
4981	599369.3	4176949	0.001514113	1.51E-03	2.46E-04	1.29E-04
4982	599378.7	4176950	0.001539337	1.54E-03	2.50E-04	1.31E-04
4983	599388.1	4176952	0.001571146	1.57E-03	2.56E-04	1.33E-04
4984	599397.5	4176954	0.001589312	1.59E-03	2.59E-04	1.35E-04
4985	599406.9	4176956	0.001606943	1.61E-03	2.61E-04	1.36E-04
4986	599301	4176953	0.001295917	1.30E-03	2.11E-04	1.10E-04
4987	599292.8	4176949	0.001286664	1.29E-03	2.09E-04	1.09E-04
4988	599284.5	4176944	0.001276536	1.28E-03	2.08E-04	1.08E-04
4989	599276.2	4176939	0.001267134	1.27E-03	2.06E-04	1.08E-04
4990	599268	4176935	0.001259363	1.26E-03	2.05E-04	1.07E-04
4991	599259.7	4176930	0.00125361	1.25E-03	2.04E-04	1.06E-04
4992	599251.5	4176925	0.001249176	1.25E-03	2.03E-04	1.06E-04
4993	599243.2	4176921	0.001245483	1.25E-03	2.03E-04	1.06E-04
4994	599235	4176916	0.001225642	1.23E-03	1.99E-04	1.04E-04
4995	599226.7	4176911	0.001204199	1.20E-03	1.96E-04	1.02E-04
4996	599218.4	4176907	0.001179835	1.18E-03	1.92E-04	1.00E-04
4997	599210.2	4176902	0.001152534	1.15E-03	1.87E-04	9.79E-05
4998	599201.9	4176897	0.001127088	1.13E-03	1.83E-04	9.57E-05
4999	599193.7	4176893	0.001108373	1.11E-03	1.80E-04	9.41E-05
5000	599185.4	4176888	0.001096377	1.10E-03	1.78E-04	9.31E-05
5001	599177.2	4176883	0.001119925	1.12E-03	1.82E-04	9.51E-05
5002	599168.9	4176879	0.001148545	1.15E-03	1.87E-04	9.75E-05
5003	599160.6	4176874	0.001166578	1.17E-03	1.90E-04	9.91E-05
5004	599152.4	4176869	0.001174615	1.17E-03	1.91E-04	9.97E-05
5005	599144.1	4176865	0.001172569	1.17E-03	1.91E-04	9.96E-05
5006	599135.9	4176860	0.001160068	1.16E-03	1.89E-04	9.85E-05
5007	599127.6	4176855	0.001132278	1.13E-03	1.84E-04	9.61E-05
5008	599309.3	4176958	0.001302768	1.30E-03	2.12E-04	1.11E-04
5009	599318.7	4176960	0.001320563	1.32E-03	2.15E-04	1.12E-04
5010	599328.1	4176962	0.001339841	1.34E-03	2.18E-04	1.14E-04
5011	599337.5	4176963	0.001363375	1.36E-03	2.22E-04	1.16E-04
5012	599346.9	4176965	0.001391713	1.39E-03	2.26E-04	1.18E-04
5013	599356.3	4176967	0.00141934	1.42E-03	2.31E-04	1.21E-04
5014	599365.7	4176968	0.001446151	1.45E-03	2.35E-04	1.23E-04
5015	599375.1	4176970	0.001471183	1.47E-03	2.39E-04	1.25E-04
5016	599384.5	4176972	0.001494108	1.49E-03	2.43E-04	1.27E-04
5017	599393.9	4176974	0.001514676	1.51E-03	2.46E-04	1.29E-04
5018	599297.4	4176973	0.001237876	1.24E-03	2.01E-04	1.05E-04
5019	599289.1	4176968	0.001232404	1.23E-03	2.00E-04	1.05E-04
5020	599280.7	4176964	0.001226769	1.23E-03	2.00E-04	1.04E-04
5021	599272.4	4176959	0.001220126	1.22E-03	1.98E-04	1.04E-04
5022	599264.1	4176954	0.00121059	1.21E-03	1.97E-04	1.03E-04
5023	599255.8	4176950	0.001205	1.21E-03	1.96E-04	1.02E-04
5024	599247.5	4176945	0.001202627	1.20E-03	1.96E-04	1.02E-04
5025	599239.2	4176940	0.001187383	1.19E-03	1.93E-04	1.01E-04
5026	599230.9	4176936	0.001161506	1.16E-03	1.89E-04	9.86E-05

5027	599222.6	4176931	0.001135778	1.14E-03	1.85E-04	9.64E-05
5028	599214.3	4176926	0.001110375	1.11E-03	1.81E-04	9.43E-05
5029	599206	4176921	0.001077455	1.08E-03	1.75E-04	9.15E-05
5030	599197.7	4176917	0.001039729	1.04E-03	1.69E-04	8.83E-05
5031	599189.3	4176912	0.001003472	1.00E-03	1.63E-04	8.52E-05
5032	599181	4176907	0.000983616	9.84E-04	1.60E-04	8.35E-05
5033	599172.7	4176903	0.000992143	9.92E-04	1.61E-04	8.42E-05
5034	599164.4	4176898	0.001009137	1.01E-03	1.64E-04	8.57E-05
5035	599156.1	4176893	0.001034628	1.03E-03	1.68E-04	8.79E-05
5036	599147.8	4176889	0.00106958	1.07E-03	1.74E-04	9.08E-05
5037	599139.5	4176884	0.001093781	1.09E-03	1.78E-04	9.29E-05
5038	599131.2	4176879	0.00109691	1.10E-03	1.78E-04	9.31E-05
5039	599122.9	4176874	0.001084573	1.08E-03	1.76E-04	9.21E-05
5040	599114.6	4176870	0.001006912	1.01E-03	1.64E-04	8.55E-05
5041	599305.7	4176978	0.001243511	1.24E-03	2.02E-04	1.06E-04
5042	599315.1	4176979	0.001261425	1.26E-03	2.05E-04	1.07E-04
5043	599324.5	4176981	0.001281711	1.28E-03	2.09E-04	1.09E-04
5044	599333.9	4176983	0.001304133	1.30E-03	2.12E-04	1.11E-04
5045	599343.3	4176985	0.00133087	1.33E-03	2.17E-04	1.13E-04
5046	599352.7	4176986	0.001356465	1.36E-03	2.21E-04	1.15E-04
5047	599362.1	4176988	0.001380695	1.38E-03	2.25E-04	1.17E-04
5048	599371.5	4176990	0.001403058	1.40E-03	2.28E-04	1.19E-04
5049	599380.9	4176992	0.001422766	1.42E-03	2.31E-04	1.21E-04
5050	599390.3	4176993	0.001439864	1.44E-03	2.34E-04	1.22E-04
5051	599293.8	4176993	0.001177299	1.18E-03	1.92E-04	1.00E-04
5052	599285.6	4176988	0.001173058	1.17E-03	1.91E-04	9.96E-05
5053	599277.4	4176983	0.001172613	1.17E-03	1.91E-04	9.96E-05
5054	599269.2	4176979	0.00116941	1.17E-03	1.90E-04	9.93E-05
5055	599260.9	4176974	0.00115983	1.16E-03	1.89E-04	9.85E-05
5056	599252.7	4176970	0.001149287	1.15E-03	1.87E-04	9.76E-05
5057	599244.5	4176965	0.001142273	1.14E-03	1.86E-04	9.70E-05
5058	599236.3	4176960	0.00112387	1.12E-03	1.83E-04	9.54E-05
5059	599228	4176956	0.001099624	1.10E-03	1.79E-04	9.34E-05
5060	599219.8	4176951	0.001069373	1.07E-03	1.74E-04	9.08E-05
5061	599211.6	4176946	0.001032389	1.03E-03	1.68E-04	8.77E-05
5062	599203.4	4176942	0.000996147	9.96E-04	1.62E-04	8.46E-05
5063	599195.1	4176937	0.000958154	9.58E-04	1.56E-04	8.14E-05
5064	599186.9	4176932	0.000918071	9.18E-04	1.49E-04	7.80E-05
5065	599178.7	4176928	0.000883015	8.83E-04	1.44E-04	7.50E-05
5066	599170.5	4176923	0.000862595	8.63E-04	1.40E-04	7.32E-05
5067	599162.2	4176918	0.000854543	8.55E-04	1.39E-04	7.26E-05
5068	599154	4176914	0.000859437	8.59E-04	1.40E-04	7.30E-05
5069	599145.8	4176909	0.000895546	8.96E-04	1.46E-04	7.60E-05
5070	599137.5	4176904	0.000931477	9.31E-04	1.52E-04	7.91E-05
5071	599129.3	4176900	0.000965984	9.66E-04	1.57E-04	8.20E-05
5072	599121.1	4176895	0.000981807	9.82E-04	1.60E-04	8.34E-05
5073	599112.9	4176891	0.000945935	9.46E-04	1.54E-04	8.03E-05

5074	599104.6	4176886	0.000889392	8.89E-04	1.45E-04	7.55E-05
5075	599096.4	4176881	0.000808009	8.08E-04	1.31E-04	6.86E-05
5076	599302.1	4176997	0.001185589	1.19E-03	1.93E-04	1.01E-04
5077	599311.5	4176999	0.001207699	1.21E-03	1.96E-04	1.03E-04
5078	599320.9	4177001	0.001232019	1.23E-03	2.00E-04	1.05E-04
5079	599330.3	4177003	0.00125788	1.26E-03	2.05E-04	1.07E-04
5080	599339.7	4177004	0.001281044	1.28E-03	2.08E-04	1.09E-04
5081	599349.1	4177006	0.00130133	1.30E-03	2.12E-04	1.10E-04
5082	599358.5	4177008	0.001318962	1.32E-03	2.15E-04	1.12E-04
5083	599367.9	4177010	0.001336223	1.34E-03	2.17E-04	1.13E-04
5084	599377.3	4177011	0.00135298	1.35E-03	2.20E-04	1.15E-04
5085	599386.7	4177013	0.001368506	1.37E-03	2.23E-04	1.16E-04
5086	599290.2	4177012	0.001112911	1.11E-03	1.81E-04	9.45E-05
5087	599281.9	4177008	0.001105926	1.11E-03	1.80E-04	9.39E-05
5088	599273.6	4177003	0.001100766	1.10E-03	1.79E-04	9.35E-05
5089	599265.4	4176998	0.00109694	1.10E-03	1.78E-04	9.31E-05
5090	599257.1	4176994	0.001092387	1.09E-03	1.78E-04	9.28E-05
5091	599248.8	4176989	0.00108699	1.09E-03	1.77E-04	9.23E-05
5092	599240.5	4176984	0.001077603	1.08E-03	1.75E-04	9.15E-05
5093	599232.3	4176980	0.001060713	1.06E-03	1.73E-04	9.01E-05
5094	599224	4176975	0.001039996	1.04E-03	1.69E-04	8.83E-05
5095	599215.7	4176970	0.00101449	1.01E-03	1.65E-04	8.61E-05
5096	599207.4	4176966	0.000978085	9.78E-04	1.59E-04	8.31E-05
5097	599199.2	4176961	0.000935154	9.35E-04	1.52E-04	7.94E-05
5098	599190.9	4176956	0.000889792	8.90E-04	1.45E-04	7.56E-05
5099	599182.6	4176952	0.000839358	8.39E-04	1.37E-04	7.13E-05
5100	599174.3	4176947	0.000775415	7.75E-04	1.26E-04	6.58E-05
5101	599166.1	4176942	0.000730987	7.31E-04	1.19E-04	6.21E-05
5102	599157.8	4176938	0.000699697	7.00E-04	1.14E-04	5.94E-05
5103	599149.5	4176933	0.000702352	7.02E-04	1.14E-04	5.96E-05
5104	599141.2	4176928	0.000732277	7.32E-04	1.19E-04	6.22E-05
5105	599133	4176924	0.000766236	7.66E-04	1.25E-04	6.51E-05
5106	599124.7	4176919	0.000803605	8.04E-04	1.31E-04	6.82E-05
5107	599116.4	4176914	0.000825864	8.26E-04	1.34E-04	7.01E-05
5108	599108.1	4176910	0.000821934	8.22E-04	1.34E-04	6.98E-05
5109	599099.9	4176905	0.000798474	7.98E-04	1.30E-04	6.78E-05
5110	599091.6	4176900	0.000737897	7.38E-04	1.20E-04	6.27E-05
5111	599298.5	4177017	0.001119377	1.12E-03	1.82E-04	9.50E-05
5112	599307.9	4177019	0.001139692	1.14E-03	1.85E-04	9.68E-05
5113	599317.3	4177021	0.001163137	1.16E-03	1.89E-04	9.88E-05
5114	599326.7	4177022	0.001187605	1.19E-03	1.93E-04	1.01E-04
5115	599336.1	4177024	0.001210279	1.21E-03	1.97E-04	1.03E-04
5116	599345.5	4177026	0.001227451	1.23E-03	2.00E-04	1.04E-04
5117	599354.9	4177027	0.001243941	1.24E-03	2.02E-04	1.06E-04
5118	599364.3	4177029	0.001259957	1.26E-03	2.05E-04	1.07E-04
5119	599373.7	4177031	0.001281236	1.28E-03	2.08E-04	1.09E-04
5120	599383.1	4177033	0.001301597	1.30E-03	2.12E-04	1.11E-04

5121	599392.5	4177034	0.001320356	1.32E-03	2.15E-04	1.12E-04
5122	599192.6	4176771	0.001591788	1.59E-03	2.59E-04	1.35E-04
5123	599198.1	4176776	0.001619993	1.62E-03	2.64E-04	1.38E-04
5124	599207.1	4176780	0.001655702	1.66E-03	2.69E-04	1.41E-04
5125	599211.8	4176773	0.001688607	1.69E-03	2.75E-04	1.43E-04
5126	599204.6	4176769	0.001659602	1.66E-03	2.70E-04	1.41E-04
5127	599197.1	4176766	0.001619993	1.62E-03	2.64E-04	1.38E-04
5128	599199.9	4176763	0.00164234	1.64E-03	2.67E-04	1.39E-04
5129	599169.4	4176794	0.001385455	1.39E-03	2.25E-04	1.18E-04
5130	599174	4176783	0.001415766	1.42E-03	2.30E-04	1.20E-04
5131	599178.4	4176775	0.001462597	1.46E-03	2.38E-04	1.24E-04
5132	599181.1	4176771	0.001496259	1.50E-03	2.43E-04	1.27E-04
5133	599184.7	4176768	0.001540805	1.54E-03	2.51E-04	1.31E-04
5134	599188.4	4176762	0.001562144	1.56E-03	2.54E-04	1.33E-04
5135	599191.6	4176760	0.001585812	1.59E-03	2.58E-04	1.35E-04
5136	599195.5	4176753	0.00162029	1.62E-03	2.64E-04	1.38E-04
5137	599206.2	4176756	0.001698187	1.70E-03	2.76E-04	1.44E-04
5138	599216.7	4176763	0.001729417	1.73E-03	2.81E-04	1.47E-04
5139	599200.8	4176746	0.001676106	1.68E-03	2.73E-04	1.42E-04
5140	599210.8	4176749	0.001750652	1.75E-03	2.85E-04	1.49E-04
5141	599223.3	4176755	0.001772244	1.77E-03	2.88E-04	1.50E-04
5142	599207.4	4176739	0.001752551	1.75E-03	2.85E-04	1.49E-04
5143	599212.5	4176743	0.001784344	1.78E-03	2.90E-04	1.52E-04
5144	599225.2	4176747	0.001806351	1.81E-03	2.94E-04	1.53E-04

			UnMitigated				T2				T2L3				T4			
						1.52E-05				1.52E-05				2.34E-06				9.85E-07
			Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	599586.7	4176135	1.75E-06	4.71E-06	0.00E+00	6.45E-06	1.75E-06	4.71E-06	0.00E+00	6.45E-06	2.84E-07	7.12E-07	0.00E+00	9.96E-07	1.48E-07	2.71E-07	0.00E+00	4.20E-07
2	599596	4176136	1.65E-06	4.46E-06	0.00E+00	6.11E-06	1.65E-06	4.46E-06	0.00E+00	6.11E-06	2.69E-07	6.74E-07	0.00E+00	9.43E-07	1.40E-07	2.57E-07	0.00E+00	3.97E-07
3	599605.3	4176138	1.63E-06	4.39E-06	0.00E+00	6.01E-06	1.63E-06	4.39E-06	0.00E+00	6.01E-06	2.65E-07	6.63E-07	0.00E+00	9.28E-07	1.38E-07	2.53E-07	0.00E+00	3.91E-07
4	599614.6	4176139	1.48E-06	4.00E-06	0.00E+00	5.48E-06	1.48E-06	4.00E-06	0.00E+00	5.48E-06	2.41E-07	6.05E-07	0.00E+00	8.46E-07	1.26E-07	2.31E-07	0.00E+00	3.57E-07
5	599623.9	4176141	1.36E-06	3.66E-06	0.00E+00	5.02E-06	1.36E-06	3.66E-06	0.00E+00	5.02E-06	2.21E-07	5.54E-07	0.00E+00	7.75E-07	1.15E-07	2.11E-07	0.00E+00	3.26E-07
6	599633.2	4176142	1.25E-06	3.36E-06	0.00E+00	4.61E-06	1.25E-06	3.36E-06	0.00E+00	4.61E-06	2.03E-07	5.08E-07	0.00E+00	7.11E-07	1.06E-07	1.94E-07	0.00E+00	3.00E-07
7	599642.4	4176144	1.14E-06	3.07E-06	0.00E+00	4.21E-06	1.14E-06	3.07E-06	0.00E+00	4.21E-06	1.85E-07	4.64E-07	0.00E+00	6.50E-07	9.67E-08	1.77E-07	0.00E+00	2.74E-07
8	599651.7	4176145	1.04E-06	2.81E-06	0.00E+00	3.85E-06	1.04E-06	2.81E-06	0.00E+00	3.85E-06	1.70E-07	4.25E-07	0.00E+00	5.95E-07	8.86E-08	1.62E-07	0.00E+00	2.51E-07
9	599661	4176146	9.59E-07	2.58E-06	0.00E+00	3.54E-06	9.59E-07	2.58E-06	0.00E+00	3.54E-06	1.56E-07	3.91E-07	0.00E+00	5.47E-07	8.14E-08	1.49E-07	0.00E+00	2.30E-07
10	599670.3	4176148	8.77E-07	2.36E-06	0.00E+00	3.24E-06	8.77E-07	2.36E-06	0.00E+00	3.24E-06	1.43E-07	3.58E-07	0.00E+00	5.00E-07	7.45E-08	1.36E-07	0.00E+00	2.11E-07
11	599679.6	4176149	8.03E-07	2.17E-06	0.00E+00	2.97E-06	8.03E-07	2.17E-06	0.00E+00	2.97E-06	1.31E-07	3.27E-07	0.00E+00	4.58E-07	6.82E-08	1.25E-07	0.00E+00	1.93E-07
12	599688.9	4176151	7.02E-07	1.89E-06	0.00E+00	2.60E-06	7.02E-07	1.89E-06	0.00E+00	2.60E-06	1.14E-07	2.86E-07	0.00E+00	4.00E-07	5.96E-08	1.09E-07	0.00E+00	1.69E-07
13	599698.2	4176152	6.43E-07	1.73E-06	0.00E+00	2.38E-06	6.43E-07	1.73E-06	0.00E+00	2.38E-06	1.05E-07	2.62E-07	0.00E+00	3.67E-07	5.46E-08	9.99E-08	0.00E+00	1.54E-07
14	599707.5	4176154	5.91E-07	1.59E-06	0.00E+00	2.18E-06	5.91E-07	1.59E-06	0.00E+00	2.18E-06	9.61E-08	2.41E-07	0.00E+00	3.37E-07	5.02E-08	9.18E-08	0.00E+00	1.42E-07
15	599585.1	4176144	1.23E-06	3.30E-06	0.00E+00	4.53E-06	1.23E-06	3.30E-06	0.00E+00	4.53E-06	1.99E-07	4.99E-07	0.00E+00	6.99E-07	1.04E-07	1.90E-07	0.00E+00	2.94E-07
16	599594.4	4176146	1.18E-06	3.17E-06	0.00E+00	4.35E-06	1.18E-06	3.17E-06	0.00E+00	4.35E-06	1.91E-07	4.79E-07	0.00E+00	6.71E-07	9.98E-08	1.83E-07	0.00E+00	2.83E-07
17	599603.7	4176147	1.12E-06	3.02E-06	0.00E+00	4.14E-06	1.12E-06	3.02E-06	0.00E+00	4.14E-06	1.82E-07	4.56E-07	0.00E+00	6.38E-07	9.50E-08	1.74E-07	0.00E+00	2.69E-07
18	599613	4176149	1.07E-06	2.88E-06	0.00E+00	3.94E-06	1.07E-06	2.88E-06	0.00E+00	3.94E-06	1.74E-07	4.35E-07	0.00E+00	6.08E-07	9.06E-08	1.66E-07	0.00E+00	2.56E-07
19	599622.3	4176150	1.02E-06	2.74E-06	0.00E+00	3.76E-06	1.02E-06	2.74E-06	0.00E+00	3.76E-06	1.65E-07	4.15E-07	0.00E+00	5.80E-07	8.64E-08	1.58E-07	0.00E+00	2.44E-07
20	599631.6	4176152	9.70E-07	2.61E-06	0.00E+00	3.58E-06	9.70E-07	2.61E-06	0.00E+00	3.58E-06	1.58E-07	3.95E-07	0.00E+00	5.53E-07	8.24E-08	1.51E-07	0.00E+00	2.33E-07
21	599640.9	4176153	9.04E-07	2.44E-06	0.00E+00	3.34E-06	9.04E-07	2.44E-06	0.00E+00	3.34E-06	1.47E-07	3.68E-07	0.00E+00	5.15E-07	7.67E-08	1.40E-07	0.00E+00	2.17E-07
22	599650.2	4176155	8.38E-07	2.26E-06	0.00E+00	3.10E-06	8.38E-07	2.26E-06	0.00E+00	3.10E-06	1.36E-07	3.42E-07	0.00E+00	4.78E-07	7.11E-08	1.30E-07	0.00E+00	2.01E-07
23	599659.5	4176156	7.78E-07	2.10E-06	0.00E+00	2.88E-06	7.78E-07	2.10E-06	0.00E+00	2.88E-06	1.27E-07	3.17E-07	0.00E+00	4.44E-07	6.61E-08	1.21E-07	0.00E+00	1.87E-07
24	599668.7	4176158	7.16E-07	1.93E-06	0.00E+00	2.65E-06	7.16E-07	1.93E-06	0.00E+00	2.65E-06	1.17E-07	2.92E-07	0.00E+00	4.08E-07	6.08E-08	1.11E-07	0.00E+00	1.72E-07
25	599678	4176159	6.55E-07	1.77E-06	0.00E+00	2.42E-06	6.55E-07	1.77E-06	0.00E+00	2.42E-06	1.07E-07	2.67E-07	0.00E+00	3.73E-07	5.56E-08	1.02E-07	0.00E+00	1.57E-07
26	599687.3	4176161	6.01E-07	1.62E-06	0.00E+00	2.22E-06	6.01E-07	1.62E-06	0.00E+00	2.22E-06	9.77E-08	2.45E-07	0.00E+00	3.43E-07	5.10E-08	9.34E-08	0.00E+00	1.44E-07
27	599696.6	4176162	5.54E-07	1.49E-06	0.00E+00	2.05E-06	5.54E-07	1.49E-06	0.00E+00	2.05E-06	9.01E-08	2.26E-07	0.00E+00	3.16E-07	4.70E-08	8.60E-08	0.00E+00	1.33E-07
28	599705.9	4176164	5.12E-07	1.38E-06	0.00E+00	1.89E-06	5.12E-07	1.38E-06	0.00E+00	1.89E-06	8.33E-08	2.09E-07	0.00E+00	2.92E-07	4.35E-08	7.96E-08	0.00E+00	1.23E-07
29	599583.5	4176154	8.65E-07	2.33E-06	0.00E+00	3.20E-06	8.65E-07	2.33E-06	0.00E+00	3.20E-06	1.41E-07	3.53E-07	0.00E+00	4.93E-07	7.35E-08	1.34E-07	0.00E+00	2.08E-07
30	599592.8	4176156	8.28E-07	2.23E-06	0.00E+00	3.06E-06	8.28E-07	2.23E-06	0.00E+00	3.06E-06	1.35E-07	3.38E-07	0.00E+00	4.72E-07	7.03E-08	1.29E-07	0.00E+00	1.99E-07
31	599602.1	4176157	7.88E-07	2.12E-06	0.00E+00	2.91E-06	7.88E-07	2.12E-06	0.00E+00	2.91E-06	1.28E-07	3.21E-07	0.00E+00	4.50E-07	6.69E-08	1.22E-07	0.00E+00	1.89E-07
32	599611.4	4176159	7.67E-07	2.07E-06	0.00E+00	2.84E-06	7.67E-07	2.07E-06	0.00E+00	2.84E-06	1.25E-07	3.13E-07	0.00E+00	4.38E-07	6.52E-08	1.19E-07	0.00E+00	1.84E-07
33	599620.7	4176160	7.53E-07	2.03E-06	0.00E+00	2.78E-06	7.53E-07	2.03E-06	0.00E+00	2.78E-06	1.22E-07	3.07E-07	0.00E+00	4.29E-07	6.39E-08	1.17E-07	0.00E+00	1.81E-07
34	599630	4176162	7.39E-07	1.99E-06	0.00E+00	2.73E-06	7.39E-07	1.99E-06	0.00E+00	2.73E-06	1.20E-07	3.01E-07	0.00E+00	4.21E-07	6.27E-08	1.15E-07	0.00E+00	1.77E-07
35	599639.3	4176163	7.06E-07	1.90E-06	0.00E+00	2.61E-06	7.06E-07	1.90E-06	0.00E+00	2.61E-06	1.15E-07	2.88E-07	0.00E+00	4.03E-07	5.99E-08	1.10E-07	0.00E+00	1.70E-07
36	599648.6	4176165	6.63E-07	1.79E-06	0.00E+00	2.45E-06	6.63E-07	1.79E-06	0.00E+00	2.45E-06	1.08E-07	2.70E-07	0.00E+00	3.78E-07	5.63E-08	1.03E-07	0.00E+00	1.59E-07
37	599657.9	4176166	6.23E-07	1.68E-06	0.00E+00	2.30E-06	6.23E-07	1.68E-06	0.00E+00	2.30E-06	1.01E-07	2.54E-07	0.00E+00	3.55E-07	5.29E-08	9.67E-08	0.00E+00	1.50E-07
38	599667.2	4176168	5.80E-07	1.56E-06	0.00E+00	2.14E-06	5.80E-07	1.56E-06	0.00E+00	2.14E-06	9.43E-08	2.36E-07	0.00E+00	3.31E-07	4.92E-08	9.01E-08	0.00E+00	1.39E-07
39	599676.5	4176169	5.34E-07	1.44E-06	0.00E+00	1.97E-06	5.34E-07	1.44E-06	0.00E+00	1.97E-06	8.69E-08	2.18E-07	0.00E+00	3.05E-07	4.53E-08	8.30E-08	0.00E+00	1.28E-07
40	599685.7	4176171	4.94E-07	1.33E-06	0.00E+00	1.83E-06	4.94E-07	1.33E-06	0.00E+00	1.83E-06	8.04E-08	2.01E-07	0.00E+00	2.82E-07	4.19E-08	7.68E-08	0.00E+00	1.19E-07
41	599695	4176172	4.58E-07	1.23E-06	0.00E+00	1.69E-06	4.58E-07	1.23E-06	0.00E+00	1.69E-06	7.45E-08	1.87E-07	0.00E+00	2.61E-07	3.89E-08	7.12E-08	0.00E+00	1.10E-07
42	599704.3	4176174	4.25E-07	1.14E-06	0.00E+00	1.57E-06	4.25E-07	1.14E-06	0.00E+00	1.57E-06	6.91E-08	1.73E-07	0.00E+00	2.42E-07	3.61E-08	6.60E-08	0.00E+00	1.02E-07
43	599582	4176164	6.38E-07	1.72E-06	0.00E+00	2.36E-06	6.38E-07	1.72E-06	0.00E+00	2.36E-06	1.04E-07	2.60E-07	0.00E+00	3.64E-07	5.42E-08	9.92E-08	0.00E+00	1.53E-07
44	599591.3	4176166	6.07E-07	1.64E-06	0.00E+00	2.24E-06	6.07E-07	1.64E-06	0.00E+00	2.24E-06	9.88E-08	2.48E-07	0.00E+00	3.46E-07	5.16E-08	9.44E-08	0.00E+00	1.46E-07
45	599600.5	4176167	5.72E-07	1.54E-06	0.00E+00	2.12E-06	5.72E-07	1.54E-06	0.00E+00	2.12E-06	9.31E-08	2.33E-07	0.00E+00	3.27E-07	4.86E-08	8.90E-08	0.00E+00	1.38E-07
46	599609.8	4176169	5.53E-07	1.49E-06	0.00E+00	2.04E-06	5.53E-07	1.49E-06	0.00E+00	2.04E-06	9.00E-08	2.25E-07	0.00E+00	3.15E-07	4.70E-08	8.59E-08	0.00E+00	1.33E-07
47	599619.1	4176170	5.42E-07	1.46E-06	0.00E+00	2.00E-06	5.42E-07	1.46E-06	0.00E+00	2.00E-06	8.81E-08	2.21E-07	0.00E+00	3.09E-07	4.60E-08	8.41E-08	0.00E+00	1.30E-07
48	599628.4	4176172	5.31E-07	1.43E-06	0.00E+00	1.96E-06	5.31E-07	1.43E-06	0.00E+00	1.96E-06	8.63E-08	2.16E-07	0.00E+00	3.03E-07	4.51E-08	8.25E-08	0.00E+00	1.28E-07
49	599637.7	4176173	5.13E-07	1.38E-06	0.00E+00	1.90E-06	5.13E-07	1.38E-06	0.00E+00	1.90E-06	8.34E-08	2.09E-07	0.00E+00	2.93E-07	4.36E-08	7.97E-08	0.00E+00	1.23E-07
50	599647	4176175	4.89E-07	1.32E-06	0.00E+00	1.81E-06	4.89E-07	1.32E-06	0.00E+00	1.81E-06	7.96E-08	1.99E-07	0.00E+00	2.79E-07	4.15E-08	7.60E-08	0.00E+00	1.18E-07
51	599656.3	4176176	4.68E-07	1.26E-06	0.00E+00	1.73E-06	4.68E-07	1.26E-06	0.00E+00	1.73E-06	7.62E-08	1.91E-07	0.00E+00	2.67E-07	3.98E-08	7.27E-08	0.00E+00	1.12E-07
52	599665.6	4176178	4.48E-07	1.21E-06	0.00E+00	1.66E-06	4.48E-07	1.21E-06	0.00E+00	1.66E-06	7.29E-08	1.83E-07	0.00E+00	2.55E-07	3.80E-08	6.96E-08	0.00E+00	1.08E-07
53	599674.9	4176179	4.19E-07	1.13E-06	0.00E+00	1.55E-06	4.19E-07	1.13E-06	0.00E+00	1.55E-06	6.82E-08	1.71E-07	0.00E+00	2.39E-07	3.56E-08	6.51E-08	0.00E+00	1.01E-07
54	599684.2	4176181	3.93E-07	1.06E-06	0.00E+00	1.45E-06	3.93E-07	1.06E-06	0.00E+00	1.45E-06	6.39E-08	1.60E-07	0.00E+00	2.24E-07	3.34E-08	6.11E-08	0.00E+00	9.44E-08
55	599693.5	4176182	3.70E-07	9.98E-07	0.00E+00	1.37E-06	3.70E-07	9.98E-07	0.00E+00	1.37E-06	6.02E-08	1.51E-07	0.00E+00	2.11E-07	3.14E-08	5.75E-08	0.00E+00	8.89E-08
56	599702.8	4176184	3.45E-07	9.29E-07	0.00E+00	1.27E-06	3.45E-07	9.29E-07	0.00E+00	1.27E-06	5.61E-08	1.41E-07	0.00E+00	1.97E-07	2.93E-08	5.36E-08	0.00E+00	8.28E-08
57	599580.4	4176174	4.91E-07	1.32E-06	0.00E+00	1.81E-06	4.91E-07	1.32E-06	0.00E+00	1.81E-06	7.99E-08	2.00E-07	0.00E+00	2.80E-07	4.17E-08	7.63E-08	0.00E+00	1.18E-07
58	599589.7	4176176	4.64E-07	1.25E-06	0.00E+00	1.72E-06	4.64E-07	1.25E-06	0.00E+00	1.72E-06	7.55E-08	1.89E-07	0.00E+00	2.65E-07	3.94E-08	7.21E-08	0.00E+00	1.12E-07
59	599599	4176177	4.35E-07	1.17E-06	0.00E+00	1.61E-06	4.35E-07	1.17E-06	0.00E+00	1.61E-06	7.07E-08	1.77E-07	0.00E+00	2.48E-07	3.69E-08	6.75E-08	0.00E+00	1.04E-07
60	599608.3	4176179	4.13E-07	1.11E-06	0.00E+00	1.53E-06	4.13E-07	1.11E-06	0.00E+00	1.53E-06	6.72E-08	1.68E-07	0.00E+00	2.36E-07	3.51E-08	6.42E-08	0.00E+00	9.93E-08
61	599617.6	4176180	4.00E-07	1.08E-06	0.00E+00	1.48E-06	4.00E-07	1.08E-06	0.00E+00	1.48E-06	6.51E-08	1.63E-07	0.00E+00	2.28E-07	3.40E-08	6.22E-08	0.00E+00	9.62E-08
62	599626.8	4176182	3.88E-07	1.05E-06	0.00E+00	1.43E-06	3.88E-07	1.05E-06	0.00E+00	1.43E-06	6.32E-08	1.58E-07	0.00E+00	2.21E-07	3.30E-08	6.03E-08	0.00E+00	9.33E-08
63	599636.1	4176183	3.76E-07	1.01E-06	0.00E+00	1.39E-06	3.76E-07	1.01E-06	0.00E+00	1.39E-06	6.12E-08	1.53E-07	0.00E+00	2.15E-07	3.19E-08	5.84E-08	0.00E+00	9.04E-08
64	599645.4	4176185	3.64E-07	9.82E-07	0.00E+00	1.35E-06	3.64E-07	9.82E-07	0.00E+00	1.35E-06	5.93E-08	1.49E-07	0.00E+00	2.08E-07	3.09E-08	5.66E-08	0.00E+00	8.76E-08
65	599654.7	4176186	3.55E-07	9.57E-07	0.00E+00	1.31E-06	3.55E-07	9.57E-07	0.00E+00	1.31E-06	5.77E-08	1.45E-07	0.00E+00	2.02E-07	3.01E-08	5.51E-08	0.00E+00	8.53E-08
66	599664	4176187	3.47E-07	9.35E-07	0.00E+00	1.28E-06	3.47E-07	9.35E-07	0.00E+00	1.28E-06	5.64E-08	1.41E-07	0.00E+00	1.98E-07	2.94E-08	5.39E-08	0.00E+00	8.33E-08
67	599673.3	4176189	3.29E-07	8.88E-07	0.00E+00	1.22E-06	3.29E-07	8.88E-07	0.00E+00	1.22E-06	5.36E-08	1.34E-07	0.00E+00	1.88E-07	2.80E-08	5.12E-08	0.00E+00	7.91E-08
68	599682.6	4176190	3.13E-07	8.44E-07	0.00E+00	1.16E-06	3.13E-07	8.44E-07	0.00E+00	1.16E-06	5.10E-08	1.28E-07	0.00E+00	1.79E-07	2.66E-08	4.87E-08	0.00E+00	7.53E-08
69	599691.9	4176192	2.99E-07	8.05E-07	0.00E+00	1.10E-06	2.99E-07	8.05E-07	0.00E+00	1.10E-06	4.86E-08	1.22E-07	0.00E+00	1.70E-07	2.54E-08	4.64E-08	0.00E+00	7.18E-08
70	599701.2	4176193	2.81E-07	7.58E-07	0.00E+00	1.04E-06	2.81E-07	7.58E-07	0.00E+00	1.04E-06	4.57E-08	1.15E-07	0.00E+00	1.60E-07	2.39E-08	4.37E-08	0.00E+00	6.76E-08
71	599578.8	4176184	3.90E-07	1.05E-06	0.00E+00	1.44E-06	3.90E-07	1.05E-06	0.00E+00	1.44E-06	6.35E-08	1.59E-07	0.00E+00	2.22E-07	3.31E-08	6.06E-08	0.00E+00	9.37E-08
72	599588.1	4176185	3.70E-07	9.97E-07	0.00E+00	1.37E-06	3.70E-07	9.97E-07	0.00E+00	1.37E-06	6.02E-08	1.51E-07	0.00E+00	2.11E-07	3.14E-08	5.75E-08	0.00E+00	8.89E-08
73	599597.4	4176187	3.47E-07	9.35E-07	0.00E+00	1.28E-06	3.47E-07	9.35E-07	0.00E+00	1.28E-06	5.64E-08	1.41E-07	0.00E+00	1.98E-07	2.95E-08	5.39E-08	0.00E+00	8.34E-08
74	599606.7	4176188	3.27E-07	8.82E-07	0.00E+00	1.21E-06	3.27E-07	8.82E-07	0.00E+00	1.21E-06	5.32E-08	1.33E-07	0.00E+00	1.87E-07	2.78E-08	5.08E-08	0.00E+00	7.86E-08
75	599616	4176190	3.15E-07	8.50E-07	0.00E+00	1.17E-06	3.15E-07	8.50E-07	0.00E+00	1.17E-06	5.13E-08	1.29E-07	0.00E+00	1.80E-07	2.68E-08	4.90E-08	0.00E+00	7.57E-08
76	599625.3	4176191	3.04E-07	8.18E-07	0.00E+00	1.12E-06	3.04E-07	8.18E-07	0.00E+00	1.12E-06	4.94E-08	1.24E-07	0.00E+00	1.73E-07	2.58E-08	4.72E-08	0.00E+00	7.29E-08
77	599634.6	4176193	2.93E-07	7.89E-07	0.00E+00	1.08E-06	2.93E-07	7.89E-07	0.00E+00	1.08E-06	4.76E-08	1.19E-07	0.00E+00	1.67E-07	2.48E-08	4.55E-08	0.00E+00	7.03E-08
78	599643.8	4176194	2.85E-07	7.69E-07	0.00E+00	1.05E-06	2.85E-07	7.69E-07	0.00E+00	1.05E-06	4.64E-08	1.16E-07	0.00E+00	1.63E-07	2.42E-08	4.43E-08	0.00E+00	6.85E-08
79	599653.1	4176196	2.79E-07	7.53E-07	0.00E+00	1.03E-06	2.79E-07	7.53E-07	0.00E+00	1.03E-06	4.54E-08	1.14E-07	0.00E+00	1.59E-07	2.37E-08	4.34E-08	0.00E+00	6.71E-08
80	599662.4	4176197	2.75E-07	7.42E-07	0.00E+00	1.02E-06	2.75E-07	7.42E-07	0.00E+00	1.02E-06	4.48E-08	1.12E-07	0.00E+00	1.57E-07	2.34E-08	4.28E-08	0.00E+00	6.62E-08
81	599671.7	4176199	2.65E-07	7.14E-07	0.00E+00	9.78E-07	2.65E-07	7.14E-07	0.00E+00	9.78E-07	4.31E-08	1.08E-07	0.00E+00	1.51E-07	2.25E-08	4.11E-08	0.00E+00	6.36E-08
82	599681	4176200	2.53E-07	6.83E-07	0.00E+00	9.37E-07	2.53E-07	6.83E-07	0.00E+00	9.37E-07	4.12E-08	1.03E-07	0.00E+00	1.45E-07	2.15E-08	3.94E-08	0.00E+00	6.09E-08
83	599577.2	4176194	3.16E-07	8.52E-07	0.00E+00	1.17E-06	3.16E-07	8.52E-07	0.00E+00	1.17E-06	5.14E-08	1.29E-07	0.00E+00	1.80E-07	2.68E-08	4.91E-08	0.00E+00	7.60E-08
84	599586.5	4176195	3.02E-07	8.14E-07	0.00E+00	1.12E-06	3.02E-07	8.14E-07	0.00E+00	1.12E-06	4.91E-08	1.23E-07	0.00E+00	1.72E-07	2.56E-08	4.69E-08	0.00E+00	7.26E-08
85	599595.8	4176197	2.87E-07	7.73E-07	0.00E+00	1.06E-06	2.87E-07	7.73E-07	0.00E+00	1.06E-06	4.67E-08	1.17E-07	0.00E+00	1.64E-07	2.44E-08	4.46E-08	0.00E+00	6.89E-08
86	599605.1	4176198	2.72E-07	7.34E-07	0.00E+00	1.01E-06	2.72E-07	7.34E-07	0.00E+00	1.01E-06	4.43E-08	1.11E-07	0.00E+00	1.55E-07	2.31E-08	4.23E-08	0.00E+00	6.54E-08
87	599614.4	4176200	2.64E-07	7.12E-07	0.00E+00	9.76E-07	2.64E-07	7.12E-07	0.00E+00	9.76E-07	4.30E-08	1.08E-07	0.00E+00	1.51E-07	2.24E-08	4.10E-08	0.00E+00	6.35E-08
88	599623.7	4176201	2.55E-07	6.88E-07	0.00E+00	9.43E-07	2.55E-07	6.88E-07	0.00E+00	9.43E-07	4.15E-08	1.04E-07	0.00E+00	1.45E-07	2.17E-08	3.96E-08	0.00E+00	6.13E-08
89	599633	4176203	2.45E-07	6.61E-07	0.00E+00	9.07E-07	2.45E-07	6.61E-07	0.00E+00	9.07E-07	3.99E-08	1.00E-07	0.00E+00	1.40E-07	2.08E-08	3.81E-08	0.00E+00	5.89E-08
90	599642.3	4176204	2.39E-07	6.43E-07	0.00E+00	8.82E-07	2.39E-07	6.43E-07	0.00E+00	8.82E-07	3.88E-08	9.73E-08	0.00E+00	1.36E-07	2.03E-08	3.71E-08	0.00E+00	5.73E-08
91	599651.6	4176206	2.32E-07	6.27E-07	0.00E+00	8.59E-07	2.32E-07	6.27E-07	0.00E+00	8.59E-07	3.78E-08	9.48E-08	0.00E+00	1.33E-07	1.97E-08	3.61E-08	0.00E+00	5.59E-08
92	599575.7	4176204	2.72E-07	7.34E-07	0.00E+00	1.01E-06	2.72E-07	7.34E-07	0.00E+00	1.01E-06	4.43E-08	1.11E-07	0.00E+00	1.55E-07	2.31E-08	4.23E-08	0.00E+00	6.55E-08
93	599584.9	4176205	2.65E-07	7.14E-07	0.00E+00	9.78E-07	2.65E-07	7.14E-07	0.00E+00	9.78E-07	4.31E-08	1.08E-07	0.00E+00	1.51E-07	2.25E-08	4.11E-08	0.00E+00	6.36E-08
94	599594.2	4176207	2.54E-07	6.84E-07	0.00E+00	9.37E-07	2.54E-07	6.84E-07	0.00E+00	9.37E-07	4.13E-08	1.03E-07	0.00E+00	1.45E-07	2.15E-08	3.94E-08	0.00E+00	6.09E-08
95	599603.5	4176208	2.41E-07	6.49E-07	0.00E+00	8.89E-07	2.41E-07	6.49E-07	0.00E+00	8.89E-07	3.91E-08	9.81E-08	0.00E+00	1.37E-07	2.04E-08	3.74E-08	0.00E+00	5.78E-08
96	599612.8	4176210	2.32E-07	6.26E-07	0.00E+00	8.59E-07	2.32E-07	6.26E-07	0.00E+00	8.59E-07	3.78E-08	9.47E-08	0.00E+00	1.32E-07	1.97E-08	3.61E-08	0.00E+00	5.58E-08
97	599622.1	4176211	2.23E-07	6.01E-07	0.00E+00	8.24E-07	2.23E-07	6.01E-07	0.00E+00	8.24E-07	3.62E-08	9.08E-08	0.00E+00	1.27E-07	1.89E-08	3.46E-08	0.00E+00	5.35E-08
98	599574.1	4176214	2.39E-07	6.44E-07	0.00E+00	8.83E-07	2.39E-07	6.44E-07	0.00E+00	8.83E-07	3.89E-08	9.74E-08	0.00E+00	1.36E-07	2.03E-08	3.71E-08	0.00E+00	5.74E-08
99	599583.4	4176215	2.33E-07	6.29E-07	0.00E+00	8.62E-07	2.33E-07	6.29E-07	0.00E+00	8.62E-07	3.79E-08	9.51E-08	0.00E+00	1.33E-07	1.98E-08	3.62E-08	0.00E+00	5.60E-08
100	599592.7	4176217	2.25E-07	6.06E-07	0.00E+00	8.31E-07	2.25E-07	6.06E-07	0.00E+00	8.31E-07	3.66E-08	9.16E-08	0.00E+00	1.28E-07	1.91E-08	3.49E-08	0.00E+00	5.40E-08
101	599601.9	4176218	2.14E-07	5.77E-07	0.00E+00	7.92E-07	2.14E-07	5.77E-07	0.00E+00	7.92E-07	3.48E-08	8.73E-08	0.00E+00	1.22E-07	1.82E-08	3.33E-08	0.00E+00	5.15E-08
102	599611.2	4176220	2.06E-07	5.55E-07	0.00E+00	7.60E-07	2.06E-07	5.55E-07	0.00E+00	7.60E-07	3.35E-08	8.39E-08	0.00E+00	1.17E-07	1.75E-08	3.20E-08	0.00E+00	4.94E-08
103	599572.5	4176223	2.13E-07	5.73E-07	0.00E+00	7.85E-07	2.13E-07	5.73E-07	0.00E+00	7.85E-07	3.46E-08	8.66E-08	0.00E+00	1.21E-07	1.80E-08	3.30E-08	0.00E+00	5.11E-08
104	599581.8	4176225	2.06E-07	5.56E-07	0.00E+00	7.62E-07	2.06E-07	5.56E-07	0.00E+00	7.62E-07	3.35E-08	8.41E-08	0.00E+00	1.18E-07	1.75E-08	3.20E-08	0.00E+00	4.96E-08
105	599591.1	4176226	2.00E-07	5.39E-07	0.00E+00	7.38E-07	2.00E-07	5.39E-07	0.00E+00	7.38E-07	3.25E-08	8.14E-08	0.00E+00	1.14E-07	1.70E-08	3.10E-08	0.00E+00	4.80E-08
106	599600.4	4176228	1.92E-07	5.18E-07	0.00E+00	7.10E-07	1.92E-07	5.18E-07	0.00E+00	7.10E-07	3.12E-08	7.83E-08	0.00E+00	1.10E-07	1.63E-08	2.98E-08	0.00E+00	4.61E-08
107	599570.9	4176233	1.94E-07	5.23E-07	0.00E+00	7.17E-07	1.94E-07	5.23E-07	0.00E+00	7.17E-07	3.16E-08	7.91E-08	0.00E+00	1.11E-07	1.65E-08	3.01E-08	0.00E+00	4.66E-08
108	599580.2	4176235	1.87E-07	5.05E-07	0.00E+00	6.92E-07	1.87E-07	5.05E-07	0.00E+00	6.92E-07	3.05E-08	7.64E-08	0.00E+00	1.07E-07	1.59E-08	2.91E-08	0.00E+00	4.50E-08
109	599589.5	4176236	1.82E-07	4.92E-07	0.00E+00	6.74E-07	1.82E-07	4.92E-07	0.00E+00	6.74E-07	2.97E-08	7.43E-08	0.00E+00	1.04E-07	1.55E-08	2.83E-08	0.00E+00	4.38E-08

110	599598.8	4176238	1.76E-07	4.75E-07	0.00E+00	6.51E-07	1.76E-07	4.75E-07	0.00E+00	6.51E-07	2.86E-08	7.18E-08	0.00E+00	1.00E-07	1.49E-08	2.73E-08	0.00E+00	4.23E-08
111	599569.3	4176243	1.78E-07	4.80E-07	0.00E+00	6.58E-07	1.78E-07	4.80E-07	0.00E+00	6.58E-07	2.90E-08	7.26E-08	0.00E+00	1.02E-07	1.51E-08	2.77E-08	0.00E+00	4.28E-08
112	599578.6	4176245	1.72E-07	4.64E-07	0.00E+00	6.36E-07	1.72E-07	4.64E-07	0.00E+00	6.36E-07	2.80E-08	7.02E-08	0.00E+00	9.82E-08	1.46E-08	2.67E-08	0.00E+00	4.14E-08
113	599587.9	4176246	1.67E-07	4.51E-07	0.00E+00	6.18E-07	1.67E-07	4.51E-07	0.00E+00	6.18E-07	2.72E-08	6.82E-08	0.00E+00	9.54E-08	1.42E-08	2.60E-08	0.00E+00	4.02E-08
114	599567.8	4176253	1.63E-07	4.41E-07	0.00E+00	6.04E-07	1.63E-07	4.41E-07	0.00E+00	6.04E-07	2.66E-08	6.66E-08	0.00E+00	9.32E-08	1.39E-08	2.54E-08	0.00E+00	3.93E-08
115	599577.1	4176255	1.60E-07	4.31E-07	0.00E+00	5.91E-07	1.60E-07	4.31E-07	0.00E+00	5.91E-07	2.60E-08	6.52E-08	0.00E+00	9.12E-08	1.36E-08	2.48E-08	0.00E+00	3.84E-08
116	599483.1	4176116	3.17E-06	8.53E-06	0.00E+00	1.17E-05	3.17E-06	8.53E-06	0.00E+00	1.17E-05	5.15E-07	1.29E-06	0.00E+00	1.81E-06	2.69E-07	4.92E-07	0.00E+00	7.61E-07
117	599492.5	4176117	3.535E-06	9.53E-06	0.00E+00	1.31E-05	3.54E-06	9.53E-06	0.00E+00	1.31E-05	5.75E-07	1.44E-06	0.00E+00	2.02E-06	3.00E-07	5.49E-07	0.00E+00	8.49E-07
118	599501.9	4176119	3.895E-06	1.05E-05	0.00E+00	1.44E-05	3.89E-06	1.05E-05	0.00E+00	1.44E-05	6.34E-07	1.59E-06	0.00E+00	2.22E-06	3.31E-07	6.05E-07	0.00E+00	9.36E-07
119	599511.3	4176121	4.101E-06	1.11E-05	0.00E+00	1.52E-05	4.10E-06	1.11E-05	0.00E+00	1.52E-05	6.67E-07	1.67E-06	0.00E+00	2.34E-06	3.48E-07	6.37E-07	0.00E+00	9.85E-07
120	599520.7	4176123	4.082E-06	1.10E-05	0.00E+00	1.51E-05	4.08E-06	1.10E-05	0.00E+00	1.51E-05	6.64E-07	1.66E-06	0.00E+00	2.33E-06	3.47E-07	6.34E-07	0.00E+00	9.81E-07
121	599530.1	4176124	3.809E-06	1.03E-05	0.00E+00	1.41E-05	3.81E-06	1.03E-05	0.00E+00	1.41E-05	6.20E-07	1.55E-06	0.00E+00	2.17E-06	3.23E-07	5.92E-07	0.00E+00	9.15E-07
122	599539.5	4176126	2.932E-06	7.91E-06	0.00E+00	1.08E-05	2.93E-06	7.91E-06	0.00E+00	1.08E-05	4.77E-07	1.20E-06	0.00E+00	1.67E-06	2.49E-07	4.56E-07	0.00E+00	7.05E-07
123	599548.9	4176128	2.553E-06	6.88E-06	0.00E+00	9.44E-06	2.55E-06	6.88E-06	0.00E+00	9.44E-06	4.15E-07	1.04E-06	0.00E+00	1.46E-06	2.17E-07	3.97E-07	0.00E+00	6.14E-07
124	599558.3	4176129	2.307E-06	6.22E-06	0.00E+00	8.53E-06	2.31E-06	6.22E-06	0.00E+00	8.53E-06	3.75E-07	9.40E-07	0.00E+00	1.32E-06	1.96E-07	3.58E-07	0.00E+00	5.54E-07
125	599567.7	4176131	2.056E-06	5.54E-06	0.00E+00	7.60E-06	2.06E-06	5.54E-06	0.00E+00	7.60E-06	3.34E-07	8.38E-07	0.00E+00	1.17E-06	1.75E-07	3.19E-07	0.00E+00	4.94E-07
126	599577.1	4176133	1.863E-06	5.02E-06	0.00E+00	6.89E-06	1.86E-06	5.02E-06	0.00E+00	6.89E-06	3.03E-07	7.60E-07	0.00E+00	1.06E-06	1.58E-07	2.89E-07	0.00E+00	4.48E-07
127	599481.3	4176125	2.199E-06	5.93E-06	0.00E+00	8.13E-06	2.20E-06	5.93E-06	0.00E+00	8.13E-06	3.58E-07	8.96E-07	0.00E+00	1.25E-06	1.87E-07	3.42E-07	0.00E+00	5.28E-07
128	599490.7	4176127	2.38E-06	6.42E-06	0.00E+00	8.80E-06	2.38E-06	6.42E-06	0.00E+00	8.80E-06	3.87E-07	9.70E-07	0.00E+00	1.36E-06	2.02E-07	3.70E-07	0.00E+00	5.72E-07
129	599500.1	4176129	2.558E-06	6.90E-06	0.00E+00	9.45E-06	2.56E-06	6.90E-06	0.00E+00	9.45E-06	4.16E-07	1.04E-06	0.00E+00	1.46E-06	2.17E-07	3.97E-07	0.00E+00	6.15E-07
130	599509.5	4176131	2.647E-06	7.14E-06	0.00E+00	9.78E-06	2.65E-06	7.14E-06	0.00E+00	9.78E-06	4.31E-07	1.08E-06	0.00E+00	1.51E-06	2.25E-07	4.11E-07	0.00E+00	6.36E-07
131	599518.9	4176132	2.583E-06	6.96E-06	0.00E+00	9.55E-06	2.58E-06	6.96E-06	0.00E+00	9.55E-06	4.20E-07	1.05E-06	0.00E+00	1.47E-06	2.19E-07	4.01E-07	0.00E+00	6.21E-07
132	599528.3	4176134	2.055E-06	5.54E-06	0.00E+00	7.59E-06	2.05E-06	5.54E-06	0.00E+00	7.59E-06	3.34E-07	8.38E-07	0.00E+00	1.17E-06	1.74E-07	3.19E-07	0.00E+00	4.94E-07
133	599537.7	4176136	1.724E-06	4.65E-06	0.00E+00	6.37E-06	1.72E-06	4.65E-06	0.00E+00	6.37E-06	2.80E-07	7.03E-07	0.00E+00	9.83E-07	1.46E-07	2.68E-07	0.00E+00	4.14E-07
134	599547.1	4176138	1.548E-06	4.17E-06	0.00E+00	5.72E-06	1.55E-06	4.17E-06	0.00E+00	5.72E-06	2.52E-07	6.31E-07	0.00E+00	8.83E-07	1.31E-07	2.40E-07	0.00E+00	3.72E-07
135	599556.5	4176139	1.492E-06	4.02E-06	0.00E+00	5.51E-06	1.49E-06	4.02E-06	0.00E+00	5.51E-06	2.43E-07	6.08E-07	0.00E+00	8.51E-07	1.27E-07	2.32E-07	0.00E+00	3.58E-07
136	599565.9	4176141	1.388E-06	3.74E-06	0.00E+00	5.13E-06	1.39E-06	3.74E-06	0.00E+00	5.13E-06	2.26E-07	5.66E-07	0.00E+00	7.92E-07	1.18E-07	2.16E-07	0.00E+00	3.33E-07
137	599575.3	4176143	1.278E-06	3.44E-06	0.00E+00	4.72E-06	1.28E-06	3.44E-06	0.00E+00	4.72E-06	2.08E-07	5.21E-07	0.00E+00	7.29E-07	1.08E-07	1.99E-07	0.00E+00	3.07E-07
138	599479.5	4176135	1.64E-06	4.42E-06	0.00E+00	6.06E-06	1.64E-06	4.42E-06	0.00E+00	6.06E-06	2.67E-07	6.68E-07	0.00E+00	9.35E-07	1.39E-07	2.55E-07	0.00E+00	3.94E-07
139	599488.9	4176137	1.736E-06	4.68E-06	0.00E+00	6.42E-06	1.74E-06	4.68E-06	0.00E+00	6.42E-06	2.82E-07	7.08E-07	0.00E+00	9.90E-07	1.47E-07	2.70E-07	0.00E+00	4.17E-07
140	599498.3	4176139	1.824E-06	4.92E-06	0.00E+00	6.74E-06	1.82E-06	4.92E-06	0.00E+00	6.74E-06	2.97E-07	7.44E-07	0.00E+00	1.04E-06	1.55E-07	2.83E-07	0.00E+00	4.38E-07
141	599507.7	4176140	1.871E-06	5.04E-06	0.00E+00	6.92E-06	1.87E-06	5.04E-06	0.00E+00	6.92E-06	3.04E-07	7.63E-07	0.00E+00	1.07E-06	1.59E-07	2.91E-07	0.00E+00	4.50E-07
142	599517.1	4176142	1.652E-06	4.45E-06	0.00E+00	6.11E-06	1.65E-06	4.45E-06	0.00E+00	6.11E-06	2.69E-07	6.73E-07	0.00E+00	9.42E-07	1.40E-07	2.57E-07	0.00E+00	3.97E-07
143	599526.5	4176144	1.456E-06	3.92E-06	0.00E+00	5.38E-06	1.46E-06	3.92E-06	0.00E+00	5.38E-06	2.37E-07	5.93E-07	0.00E+00	8.30E-07	1.24E-07	2.26E-07	0.00E+00	3.50E-07
144	599535.9	4176146	1.252E-06	3.38E-06	0.00E+00	4.63E-06	1.25E-06	3.38E-06	0.00E+00	4.63E-06	2.04E-07	5.10E-07	0.00E+00	7.14E-07	1.06E-07	1.95E-07	0.00E+00	3.01E-07
145	599545.3	4176147	1.104E-06	2.98E-06	0.00E+00	4.08E-06	1.10E-06	2.98E-06	0.00E+00	4.08E-06	1.80E-07	4.50E-07	0.00E+00	6.29E-07	9.37E-08	1.71E-07	0.00E+00	2.65E-07
146	599554.7	4176149	1.066E-06	2.87E-06	0.00E+00	3.94E-06	1.07E-06	2.87E-06	0.00E+00	3.94E-06	1.73E-07	4.34E-07	0.00E+00	6.08E-07	9.05E-08	1.66E-07	0.00E+00	2.56E-07
147	599564.1	4176151	9.953E-07	2.68E-06	0.00E+00	3.68E-06	9.95E-07	2.68E-06	0.00E+00	3.68E-06	1.62E-07	4.06E-07	0.00E+00	5.68E-07	8.45E-08	1.55E-07	0.00E+00	2.39E-07
148	599573.5	4176153	9.065E-07	2.44E-06	0.00E+00	3.35E-06	9.07E-07	2.44E-06	0.00E+00	3.35E-06	1.47E-07	3.70E-07	0.00E+00	5.17E-07	7.70E-08	1.41E-07	0.00E+00	2.18E-07
149	599477.7	4176145	1.286E-06	3.47E-06	0.00E+00	4.75E-06	1.29E-06	3.47E-06	0.00E+00	4.75E-06	2.09E-07	5.24E-07	0.00E+00	7.34E-07	1.09E-07	2.00E-07	0.00E+00	3.09E-07
150	599487.1	4176147	1.351E-06	3.64E-06	0.00E+00	4.99E-06	1.35E-06	3.64E-06	0.00E+00	4.99E-06	2.20E-07	5.51E-07	0.00E+00	7.71E-07	1.15E-07	2.10E-07	0.00E+00	3.25E-07
151	599496.5	4176149	1.401E-06	3.78E-06	0.00E+00	5.18E-06	1.40E-06	3.78E-06	0.00E+00	5.18E-06	2.28E-07	5.71E-07	0.00E+00	7.99E-07	1.19E-07	2.18E-07	0.00E+00	3.37E-07
152	599505.9	4176150	1.428E-06	3.85E-06	0.00E+00	5.28E-06	1.43E-06	3.85E-06	0.00E+00	5.28E-06	2.32E-07	5.82E-07	0.00E+00	8.15E-07	1.21E-07	2.22E-07	0.00E+00	3.43E-07
153	599515.3	4176152	1.266E-06	3.41E-06	0.00E+00	4.68E-06	1.27E-06	3.41E-06	0.00E+00	4.68E-06	2.06E-07	5.16E-07	0.00E+00	7.22E-07	1.08E-07	1.97E-07	0.00E+00	3.04E-07
154	599524.7	4176154	1.105E-06	2.98E-06	0.00E+00	4.08E-06	1.11E-06	2.98E-06	0.00E+00	4.08E-06	1.80E-07	4.51E-07	0.00E+00	6.30E-07	9.38E-08	1.72E-07	0.00E+00	2.66E-07
155	599534.1	4176155	9.442E-07	2.55E-06	0.00E+00	3.49E-06	9.44E-07	2.55E-06	0.00E+00	3.49E-06	1.54E-07	3.85E-07	0.00E+00	5.39E-07	8.02E-08	1.47E-07	0.00E+00	2.27E-07
156	599543.5	4176157	8.171E-07	2.20E-06	0.00E+00	3.02E-06	8.17E-07	2.20E-06	0.00E+00	3.02E-06	1.33E-07	3.33E-07	0.00E+00	4.66E-07	6.94E-08	1.27E-07	0.00E+00	1.96E-07
157	599552.9	4176159	7.892E-07	2.13E-06	0.00E+00	2.92E-06	7.89E-07	2.13E-06	0.00E+00	2.92E-06	1.28E-07	3.22E-07	0.00E+00	4.50E-07	6.70E-08	1.23E-07	0.00E+00	1.90E-07
158	599562.3	4176161	7.405E-07	2.00E-06	0.00E+00	2.74E-06	7.40E-07	2.00E-06	0.00E+00	2.74E-06	1.20E-07	3.02E-07	0.00E+00	4.22E-07	6.29E-08	1.15E-07	0.00E+00	1.78E-07
159	599571.7	4176162	6.787E-07	1.83E-06	0.00E+00	2.51E-06	6.79E-07	1.83E-06	0.00E+00	2.51E-06	1.10E-07	2.77E-07	0.00E+00	3.87E-07	5.76E-08	1.05E-07	0.00E+00	1.63E-07
160	599485.3	4176157	1.093E-06	2.95E-06	0.00E+00	4.04E-06	1.09E-06	2.95E-06	0.00E+00	4.04E-06	1.78E-07	4.46E-07	0.00E+00	6.23E-07	9.28E-08	1.70E-07	0.00E+00	2.63E-07
161	599494.7	4176158	1.124E-06	3.03E-06	0.00E+00	4.15E-06	1.12E-06	3.03E-06	0.00E+00	4.15E-06	1.83E-07	4.58E-07	0.00E+00	6.41E-07	9.54E-08	1.75E-07	0.00E+00	2.70E-07
162	599504.1	4176160	1.136E-06	3.06E-06	0.00E+00	4.20E-06	1.14E-06	3.06E-06	0.00E+00	4.20E-06	1.85E-07	4.63E-07	0.00E+00	6.48E-07	9.64E-08	1.76E-07	0.00E+00	2.73E-07
163	599513.5	4176162	1.011E-06	2.73E-06	0.00E+00	3.74E-06	1.01E-06	2.73E-06	0.00E+00	3.74E-06	1.64E-07	4.12E-07	0.00E+00	5.77E-07	8.58E-08	1.57E-07	0.00E+00	2.43E-07
164	599522.9	4176164	8.711E-07	2.35E-06	0.00E+00	3.22E-06	8.71E-07	2.35E-06	0.00E+00	3.22E-06	1.42E-07	3.55E-07	0.00E+00	4.97E-07	7.40E-08	1.35E-07	0.00E+00	2.09E-07
165	599532.3	4176165	7.347E-07	1.98E-06	0.00E+00	2.72E-06	7.35E-07	1.98E-06	0.00E+00	2.72E-06	1.20E-07	3.00E-07	0.00E+00	4.19E-07	6.24E-08	1.14E-07	0.00E+00	1.77E-07
166	599541.7	4176167	6.369E-07	1.72E-06	0.00E+00	2.35E-06	6.37E-07	1.72E-06	0.00E+00	2.35E-06	1.04E-07	2.60E-07	0.00E+00	3.63E-07	5.41E-08	9.90E-08	0.00E+00	1.53E-07
167	599551.1	4176169	6.042E-07	1.63E-06	0.00E+00	2.23E-06	6.04E-07	1.63E-06	0.00E+00	2.23E-06	9.83E-08	2.46E-07	0.00E+00	3.45E-07	5.13E-08	9.39E-08	0.00E+00	1.45E-07
168	599560.5	4176170	5.704E-07	1.54E-06	0.00E+00	2.11E-06	5.70E-07	1.54E-06	0.00E+00	2.11E-06	9.28E-08	2.33E-07	0.00E+00	3.25E-07	4.84E-08	8.86E-08	0.00E+00	1.37E-07
169	599569.9	4176172	5.27E-07	1.42E-06	0.00E+00	1.95E-06	5.27E-07	1.42E-06	0.00E+00	1.95E-06	8.57E-08	2.15E-07	0.00E+00	3.01E-07	4.47E-08	8.19E-08	0.00E+00	1.27E-07
170	599474.1	4176165	8.679E-07	2.34E-06	0.00E+00	3.21E-06	8.68E-07	2.34E-06	0.00E+00	3.21E-06	1.41E-07	3.54E-07	0.00E+00	4.95E-07	7.37E-08	1.35E-07	0.00E+00	2.09E-07
171	599483.5	4176167	9.082E-07	2.45E-06	0.00E+00	3.36E-06	9.08E-07	2.45E-06	0.00E+00	3.36E-06	1.48E-07	3.70E-07	0.00E+00	5.18E-07	7.71E-08	1.41E-07	0.00E+00	2.18E-07
172	599492.9	4176168	9.291E-07	2.50E-06	0.00E+00	3.43E-06	9.29E-07	2.50E-06	0.00E+00	3.43E-06	1.51E-07	3.79E-07	0.00E+00	5.30E-07	7.89E-08	1.44E-07	0.00E+00	2.23E-07
173	599502.3	4176170	9.328E-07	2.52E-06	0.00E+00	3.45E-06	9.33E-07	2.52E-06	0.00E+00	3.45E-06	1.52E-07	3.80E-07	0.00E+00	5.32E-07	7.92E-08	1.45E-07	0.00E+00	2.24E-07
174	599511.7	4176172	8.262E-07	2.23E-06	0.00E+00	3.05E-06	8.26E-07	2.23E-06	0.00E+00	3.05E-06	1.34E-07	3.37E-07	0.00E+00	4.71E-07	7.02E-08	1.28E-07	0.00E+00	1.99E-07
175	599521.1	4176173	7.158E-07	1.93E-06	0.00E+00	2.65E-06	7.16E-07	1.93E-06	0.00E+00	2.65E-06	1.16E-07	2.92E-07	0.00E+00	4.08E-07	6.08E-08	1.11E-07	0.00E+00	1.72E-07
176	599530.5	4176175	5.999E-07	1.62E-06	0.00E+00	2.22E-06	6.00E-07	1.62E-06	0.00E+00	2.22E-06	9.76E-08	2.45E-07	0.00E+00	3.42E-07	5.09E-08	9.32E-08	0.00E+00	1.44E-07
177	599539.9	4176177	5.175E-07	1.40E-06	0.00E+00	1.91E-06	5.17E-07	1.40E-06	0.00E+00	1.91E-06	8.42E-08	2.11E-07	0.00E+00	2.95E-07	4.39E-08	8.04E-08	0.00E+00	1.24E-07
178	599549.3	4176179	4.793E-07	1.29E-06	0.00E+00	1.77E-06	4.79E-07	1.29E-06	0.00E+00	1.77E-06	7.80E-08	1.95E-07	0.00E+00	2.73E-07	4.07E-08	7.45E-08	0.00E+00	1.15E-07
179	599558.7	4176180	4.516E-07	1.22E-06	0.00E+00	1.67E-06	4.52E-07	1.22E-06	0.00E+00	1.67E-06	7.35E-08	1.84E-07	0.00E+00	2.58E-07	3.83E-08	7.02E-08	0.00E+00	1.09E-07
180	599568.1	4176182	4.199E-07	1.13E-06	0.00E+00	1.55E-06	4.20E-07	1.13E-06	0.00E+00	1.55E-06	6.83E-08	1.71E-07	0.00E+00	2.39E-07	3.57E-08	6.52E-08	0.00E+00	1.01E-07
181	599472.3	4176175	7.368E-07	1.99E-06	0.00E+00	2.72E-06	7.37E-07	1.99E-06	0.00E+00	2.72E-06	1.20E-07	3.00E-07	0.00E+00	4.20E-07	6.26E-08	1.14E-07	0.00E+00	1.77E-07
182	599481.7	4176176	7.681E-07	2.07E-06	0.00E+00	2.84E-06	7.68E-07	2.07E-06	0.00E+00	2.84E-06	1.25E-07	3.13E-07	0.00E+00	4.38E-07	6.52E-08	1.19E-07	0.00E+00	1.85E-07
183	599491.1	4176178	7.862E-07	2.12E-06	0.00E+00	2.91E-06	7.86E-07	2.12E-06	0.00E+00	2.91E-06	1.28E-07	3.21E-07	0.00E+00	4.48E-07	6.68E-08	1.22E-07	0.00E+00	1.89E-07
184	599500.5	4176180	7.849E-07	2.12E-06	0.00E+00	2.90E-06	7.85E-07	2.12E-06	0.00E+00	2.90E-06	1.28E-07	3.20E-07	0.00E+00	4.48E-07	6.66E-08	1.22E-07	0.00E+00	1.89E-07
185	599509.9	4176182	6.928E-07	1.87E-06	0.00E+00	2.56E-06	6.93E-07	1.87E-06	0.00E+00	2.56E-06	1.13E-07	2.82E-07	0.00E+00	3.95E-07	5.88E-08	1.08E-07	0.00E+00	1.66E-07
186	599519.3	4176183	6.036E-07	1.63E-06	0.00E+00	2.23E-06	6.04E-07	1.63E-06	0.00E+00	2.23E-06	9.82E-08	2.46E-07	0.00E+00	3.44E-07	5.13E-08	9.38E-08	0.00E+00	1.45E-07
187	599528.7	4176185	5.012E-07	1.35E-06	0.00E+00	1.85E-06	5.01E-07	1.35E-06	0.00E+00	1.85E-06	8.15E-08	2.04E-07	0.00E+00	2.86E-07	4.26E-08	7.79E-08	0.00E+00	1.20E-07
188	599538.1	4176187	4.279E-07	1.15E-06	0.00E+00	1.58E-06	4.28E-07	1.15E-06	0.00E+00	1.58E-06	6.96E-08	1.74E-07	0.00E+00	2.44E-07	3.63E-08	6.65E-08	0.00E+00	1.03E-07
189	599547.5	4176188	3.881E-07	1.05E-06	0.00E+00	1.43E-06	3.88E-07	1.05E-06	0.00E+00	1.43E-06	6.31E-08	1.58E-07	0.00E+00	2.21E-07	3.30E-08	6.03E-08	0.00E+00	9.33E-08
190	599556.9	4176190	3.638E-07	9.81E-07	0.00E+00	1.34E-06	3.64E-07	9.81E-07	0.00E+00	1.34E-06	5.92E-08	1.48E-07	0.00E+00	2.07E-07	3.09E-08	5.65E-08	0.00E+00	8.74E-08
191	599566.3	4176192	3.399E-07	9.16E-07	0.00E+00	1.26E-06	3.40E-07	9.16E-07	0.00E+00	1.26E-06	5.53E-08	1.39E-07	0.00E+00	1.94E-07	2.89E-08	5.28E-08	0.00E+00	8.17E-08
192	599470.5	4176184	6.356E-07	1.71E-06	0.00E+00	2.35E-06	6.36E-07	1.71E-06	0.00E+00	2.35E-06	1.03E-07	2.59E-07	0.00E+00	3.63E-07	5.40E-08	9.88E-08	0.00E+00	1.53E-07
193	599479.9	4176186	6.604E-07	1.78E-06	0.00E+00	2.44E-06	6.60E-07	1.78E-06	0.00E+00	2.44E-06	1.07E-07	2.69E-07	0.00E+00	3.77E-07	5.61E-08	1.03E-07	0.00E+00	1.59E-07
194	599489.3	4176188	6.767E-07	1.82E-06	0.00E+00	2.50E-06	6.77E-07	1.82E-06	0.00E+00	2.50E-06	1.10E-07	2.76E-07	0.00E+00	3.86E-07	5.75E-08	1.05E-07	0.00E+00	1.63E-07
195	599498.7	4176190	6.738E-07	1.82E-06	0.00E+00	2.49E-06	6.74E-07	1.82E-06	0.00E+00	2.49E-06	1.10E-07	2.75E-07	0.00E+00	3.84E-07	5.72E-08	1.05E-07	0.00E+00	1.62E-07
196	599508.1	4176191	5.948E-07	1.60E-06	0.00E+00	2.20E-06	5.95E-07	1.60E-06	0.00E+00	2.20E-06	9.68E-08	2.42E-07	0.00E+00	3.39E-07	5.05E-08	9.24E-08	0.00E+00	1.43E-07
197	599517.5	4176193	5.209E-07	1.40E-06	0.00E+00	1.93E-06	5.21E-07	1.40E-06	0.00E+00	1.93E-06	8.47E-08	2.12E-07	0.00E+00	2.97E-07	4.42E-08	8.09E-08	0.00E+00	1.25E-07
198	599526.9	4176195	4.271E-07	1.15E-06	0.00E+00	1.58E-06	4.27E-07	1.15E-06	0.00E+00	1.58E-06	6.95E-08	1.74E-07	0.00E+00	2.44E-07	3.63E-08	6.64E-08	0.00E+00	1.03E-07
199	599536.3	4176197	3.639E-07	9.81E-07	0.00E+00	1.35E-06	3.64E-07	9.81E-07	0.00E+00	1.35E-06	5.92E-08	1.48E-07	0.00E+00	2.08E-07	3.09E-08	5.66E-08	0.00E+00	8.75E-08
200	599545.7	4176198	3.309E-07	8.92E-07	0.00E+00	1.22E-06	3.31E-07	8.92E-07	0.00E+00	1.22E-06	5.38E-08	1.35E-07	0.00E+00	1.89E-07	2.81E-08	5.14E-08	0.00E+00	7.95E-08
201	599555.1	4176200	3.103E-07	8.37E-07	0.00E+00	1.15E-06	3.10E-07	8.37E-07	0.00E+00	1.15E-06	5.05E-08	1.27E-07	0.00E+00	1.77E-07	2.63E-08	4.82E-08	0.00E+00	7.46E-08
202	599564.5	4176202	2.917E-07	7.86E-07	0.00E+00	1.08E-06	2.92E-07	7.86E-07	0.00E+00	1.08E-06	4.74E-08	1.19E-07	0.00E+00	1.66E-07	2.48E-08	4.53E-08	0.00E+00	7.01E-08
203	599478.1	4176196	5.755E-07	1.55E-06	0.00E+00	2.13E-06	5.76E-07	1.55E-06	0.00E+00	2.13E-06	9.36E-08	2.35E-07	0.00E+00	3.28E-07	4.89E-08	8.94E-08	0.00E+00	1.38E-07
204	599487.5	4176198	5.917E-07	1.60E-06	0.00E+00	2.19E-06	5.92E-07	1.60E-06	0.00E+00	2.19E-06	9.63E-08	2.41E-07	0.00E+00	3.38E-07	5.02E-08	9.19E-08	0.00E+00	1.42E-07
205	599496.9	4176199	5.942E-07	1.60E-06	0.00E+00	2.20E-06	5.94E-07	1.60E-06	0.00E+00	2.20E-06	9.67E-08	2.42E-07	0.00E+00	3.39E-07	5.05E-08	9.23E-08	0.00E+00	1.43E-07
206	599506.3	4176201	5.888E-07	1.59E-06	0.00E+00	2.18E-06	5.89E-07	1.59E-06	0.00E+00	2.18E-06	9.58E-08	2.40E-07	0.00E+00	3.36E-07	5.00E-08	9.15E-08	0.00E+00	1.41E-07
207	599515.7	4176203	5.141E-07	1.39E-06	0.00E+00	1.90E-06	5.14E-07	1.39E-06	0.00E+00	1.90E-06	8.36E-08	2.10E-07	0.00E+00	2.93E-07	4.37E-08	7.99E-08	0.00E+00	1.24E-07
208	599525.1	4176205	4.425E-07	1.19E-06	0.00E+00	1.64E-06	4.43E-07	1.19E-06	0.00E+00	1.64E-06	7.20E-08	1.80E-07	0.00E+00	2.52E-07	3.76E-08	6.88E-08	0.00E+00	1.06E-07
209	599534.5	4176206	3.764E-07	1.01E-06	0.00E+00	1.39E-06	3.76E-07	1.01E-06	0.00E+00	1.39E-06	6.12E-08	1.53E-07	0.00E+00	2.15E-07	3.20E-08	5.85E-08	0.00E+00	9.04E-08
210	599543.9	4176208	3.274E-07	8.83E-07	0.00E+00	1.21E-06	3.27E-07	8.83E-07	0.00E+00	1.21E-06	5.33E-08	1.33E-07	0.00E+00	1.87E-07	2.78E-08	5.09E-08	0.00E+00	7.87E-08
211	599553.3	4176210	2.892E-07	7.80E-07	0.00E+00	1.07E-06	2.89E-07	7.80E-07	0.00E+00	1.07E-06	4.71E-08	1.18E-07	0.00E+00	1.65E-07	2.46E-08	4.49E-08	0.00E+00	6.95E-08
212	599562.7	4176212	2.626E-07	7.08E-07	0.00E+00	9.71E-07	2.63E-07	7.08E-07	0.00E+00	9.71E-07	4.27E-08	1.07E-07	0.00E+00	1.50E-07	2.23E-08	4.08E-08	0.00E+00	6.31E-08
213	599476.3	4176206	5.079E-07	1.37E-06	0.00E+00	1.88E-06	5.08E-07	1.37E-06	0.00E+00	1.88E-06	8.26E-08	2.07E-07	0.00E+00	2.90E-07	4.31E-08	7.89E-08	0.00E+00	1.22E-07
214	599485.7	4176208	5.253E-07	1.42E-06	0.00E+00	1.94E-06	5.25E-07	1.42E-06	0.00E+00	1.94E-06	8.55E-08	2.14E-07	0.00E+00	3.00E-07	4.46E-08	8.16E-08	0.00E+00	1.26E-07
215	599495.1	4176209	5.351E-07	1.44E-06	0.00E+00	1.98E-06	5.35E-07	1.44E-06	0.00E+00	1.98E-06	8.71E-08	2.18E-07	0.00E+00	3.05E-07	4.54E-08	8.31E-08	0.00E+00	1.29E-07
216	599504.5	4176211	5.402E-07	1.46E-06	0.00E+00	2.00E-06	5.40E-07	1.46E-06	0.00E+00	2.00E-06	8.79E-08	2.20E-07	0.00E+00	3.08E-07	4.59E-08	8.39E-08	0.00E+00	1.30E-07
217	599513.9	4176213	5.417E-07	1.46E-06	0.00E+00	2.00E-06	5.42E-07	1.46E-06	0.00E+00	2.00E-06	8.81E-08	2.21E-07	0.00E+00	3.09E-07	4.60E-08	8.42E-08	0.00E+00	1.30E-07
218	599523.3	4176214	4.601E-07	1.24E-06	0.00E+00	1.70E-06	4.60E-07	1.24E-06	0.00E+00	1.70E-06	7.48E-08	1.88E-07	0.00E+00	2.62E-07	3.91E-08	7.15E-08	0.00E+00	1.11E-07
219	599532.7	4176216	3.97E-07	1.07E-06	0.00E+00	1.47E-06	3.97E-07	1.07E-06	0.00E+00	1.47E-06	6.46E-08	1.62E-07	0.00E+00	2.26E-07	3.37E-08	6.17E-08	0.00E+00	9.54E-08
220	599542.1	4176218	3.398E-07	9.16E-07	0.00E+00	1.26E-06	3.40E-07	9.16E-07	0.00E+00	1.26E-06	5.53E-08	1.39E-07	0.00E+00	1.94E-07	2.89E-08	5.28E-08	0.00E+00	8.17E-08
221	599551.5	4176220	2.819E-07	7.60E-07	0.00E+00	1.04E-06	2.82E-07	7.60E-07	0.00E+00	1.04E-06	4.59E-08	1.15E-07	0.00E+00	1.61E-07	2.39E-08	4.38E-08	0.00E+00	6.77E-08

222	599560.9	4176221	2.424E-07	6.53E-07	0.00E+00	8.96E-07	2.42E-07	6.53E-07	0.00E+00	8.96E-07	3.94E-08	9.88E-08	0.00E+00	1.38E-07	2.06E-08	3.77E-08	0.00E+00	5.82E-08
223	599474.5	4176216	4.513E-07	1.22E-06	0.00E+00	1.67E-06	4.51E-07	1.22E-06	0.00E+00	1.67E-06	7.34E-08	1.84E-07	0.00E+00	2.57E-07	3.83E-08	7.01E-08	0.00E+00	1.08E-07
224	599483.9	4176217	4.678E-07	1.26E-06	0.00E+00	1.73E-06	4.68E-07	1.26E-06	0.00E+00	1.73E-06	7.61E-08	1.91E-07	0.00E+00	2.67E-07	3.97E-08	7.27E-08	0.00E+00	1.12E-07
225	599493.3	4176219	4.805E-07	1.30E-06	0.00E+00	1.78E-06	4.80E-07	1.30E-06	0.00E+00	1.78E-06	7.82E-08	1.96E-07	0.00E+00	2.74E-07	4.08E-08	7.47E-08	0.00E+00	1.15E-07
226	599502.7	4176221	4.906E-07	1.32E-06	0.00E+00	1.81E-06	4.91E-07	1.32E-06	0.00E+00	1.81E-06	7.98E-08	2.00E-07	0.00E+00	2.80E-07	4.17E-08	7.62E-08	0.00E+00	1.18E-07
227	599512.1	4176223	4.988E-07	1.34E-06	0.00E+00	1.84E-06	4.99E-07	1.34E-06	0.00E+00	1.84E-06	8.11E-08	2.03E-07	0.00E+00	2.84E-07	4.24E-08	7.75E-08	0.00E+00	1.20E-07
228	599521.5	4176224	4.864E-07	1.31E-06	0.00E+00	1.80E-06	4.86E-07	1.31E-06	0.00E+00	1.80E-06	7.91E-08	1.98E-07	0.00E+00	2.77E-07	4.13E-08	7.56E-08	0.00E+00	1.17E-07
229	599530.9	4176226	4.109E-07	1.11E-06	0.00E+00	1.52E-06	4.11E-07	1.11E-06	0.00E+00	1.52E-06	6.69E-08	1.68E-07	0.00E+00	2.34E-07	3.49E-08	6.39E-08	0.00E+00	9.87E-08
230	599540.3	4176228	3.389E-07	9.14E-07	0.00E+00	1.25E-06	3.39E-07	9.14E-07	0.00E+00	1.25E-06	5.51E-08	1.38E-07	0.00E+00	1.93E-07	2.88E-08	5.27E-08	0.00E+00	8.14E-08
231	599549.7	4176229	2.671E-07	7.20E-07	0.00E+00	9.87E-07	2.67E-07	7.20E-07	0.00E+00	9.87E-07	4.35E-08	1.09E-07	0.00E+00	1.52E-07	2.27E-08	4.15E-08	0.00E+00	6.42E-08
232	599559.1	4176231	2.214E-07	5.97E-07	0.00E+00	8.18E-07	2.21E-07	5.97E-07	0.00E+00	8.18E-07	3.60E-08	9.03E-08	0.00E+00	1.26E-07	1.88E-08	3.44E-08	0.00E+00	5.32E-08
233	599472.6	4176226	4.036E-07	1.09E-06	0.00E+00	1.49E-06	4.04E-07	1.09E-06	0.00E+00	1.49E-06	6.57E-08	1.65E-07	0.00E+00	2.30E-07	3.43E-08	6.27E-08	0.00E+00	9.70E-08
234	599482	4176227	4.182E-07	1.13E-06	0.00E+00	1.55E-06	4.18E-07	1.13E-06	0.00E+00	1.55E-06	6.80E-08	1.71E-07	0.00E+00	2.39E-07	3.55E-08	6.50E-08	0.00E+00	1.00E-07
235	599491.4	4176229	4.297E-07	1.16E-06	0.00E+00	1.59E-06	4.30E-07	1.16E-06	0.00E+00	1.59E-06	6.99E-08	1.75E-07	0.00E+00	2.45E-07	3.65E-08	6.68E-08	0.00E+00	1.03E-07
236	599500.8	4176231	4.367E-07	1.18E-06	0.00E+00	1.61E-06	4.37E-07	1.18E-06	0.00E+00	1.61E-06	7.10E-08	1.78E-07	0.00E+00	2.49E-07	3.71E-08	6.79E-08	0.00E+00	1.05E-07
237	599510.2	4176232	4.38E-07	1.18E-06	0.00E+00	1.62E-06	4.38E-07	1.18E-06	0.00E+00	1.62E-06	7.13E-08	1.79E-07	0.00E+00	2.50E-07	3.72E-08	6.81E-08	0.00E+00	1.05E-07
238	599519.6	4176234	3.919E-07	1.06E-06	0.00E+00	1.45E-06	3.92E-07	1.06E-06	0.00E+00	1.45E-06	6.38E-08	1.60E-07	0.00E+00	2.24E-07	3.33E-08	6.09E-08	0.00E+00	9.42E-08
239	599529	4176236	3.308E-07	8.92E-07	0.00E+00	1.22E-06	3.31E-07	8.92E-07	0.00E+00	1.22E-06	5.38E-08	1.35E-07	0.00E+00	1.89E-07	2.81E-08	5.14E-08	0.00E+00	7.95E-08
240	599538.4	4176238	2.691E-07	7.26E-07	0.00E+00	9.95E-07	2.69E-07	7.26E-07	0.00E+00	9.95E-07	4.38E-08	1.10E-07	0.00E+00	1.53E-07	2.28E-08	4.18E-08	0.00E+00	6.47E-08
241	599547.8	4176239	2.225E-07	6.00E-07	0.00E+00	8.22E-07	2.23E-07	6.00E-07	0.00E+00	8.22E-07	3.62E-08	9.07E-08	0.00E+00	1.27E-07	1.89E-08	3.46E-08	0.00E+00	5.35E-08
242	599557.2	4176241	1.956E-07	5.27E-07	0.00E+00	7.23E-07	1.96E-07	5.27E-07	0.00E+00	7.23E-07	3.18E-08	7.98E-08	0.00E+00	1.12E-07	1.66E-08	3.04E-08	0.00E+00	4.70E-08
243	599480.2	4176237	3.751E-07	1.01E-06	0.00E+00	1.39E-06	3.75E-07	1.01E-06	0.00E+00	1.39E-06	6.10E-08	1.53E-07	0.00E+00	2.14E-07	3.18E-08	5.83E-08	0.00E+00	9.01E-08
244	599489.6	4176239	3.834E-07	1.03E-06	0.00E+00	1.42E-06	3.83E-07	1.03E-06	0.00E+00	1.42E-06	6.24E-08	1.56E-07	0.00E+00	2.19E-07	3.26E-08	5.96E-08	0.00E+00	9.21E-08
245	599499	4176241	3.848E-07	1.04E-06	0.00E+00	1.42E-06	3.85E-07	1.04E-06	0.00E+00	1.42E-06	6.26E-08	1.57E-07	0.00E+00	2.20E-07	3.27E-08	5.98E-08	0.00E+00	9.25E-08
246	599508.4	4176242	3.789E-07	1.02E-06	0.00E+00	1.40E-06	3.79E-07	1.02E-06	0.00E+00	1.40E-06	6.16E-08	1.54E-07	0.00E+00	2.16E-07	3.22E-08	5.89E-08	0.00E+00	9.11E-08
247	599517.8	4176244	3.233E-07	8.72E-07	0.00E+00	1.19E-06	3.23E-07	8.72E-07	0.00E+00	1.19E-06	5.26E-08	1.32E-07	0.00E+00	1.84E-07	2.75E-08	5.02E-08	0.00E+00	7.77E-08
248	599527.2	4176246	2.661E-07	7.18E-07	0.00E+00	9.84E-07	2.66E-07	7.18E-07	0.00E+00	9.84E-07	4.33E-08	1.09E-07	0.00E+00	1.52E-07	2.26E-08	4.14E-08	0.00E+00	6.40E-08
249	599536.6	4176247	2.153E-07	5.80E-07	0.00E+00	7.96E-07	2.15E-07	5.80E-07	0.00E+00	7.96E-07	3.50E-08	8.78E-08	0.00E+00	1.23E-07	1.83E-08	3.35E-08	0.00E+00	5.17E-08
250	599546	4176249	1.828E-07	4.93E-07	0.00E+00	6.76E-07	1.83E-07	4.93E-07	0.00E+00	6.76E-07	2.97E-08	7.45E-08	0.00E+00	1.04E-07	1.55E-08	2.84E-08	0.00E+00	4.39E-08
251	599555.4	4176251	1.706E-07	4.60E-07	0.00E+00	6.31E-07	1.71E-07	4.60E-07	0.00E+00	6.31E-07	2.78E-08	6.96E-08	0.00E+00	9.73E-08	1.45E-08	2.65E-08	0.00E+00	4.10E-08
252	599478.4	4176247	3.385E-07	9.13E-07	0.00E+00	1.25E-06	3.38E-07	9.13E-07	0.00E+00	1.25E-06	5.51E-08	1.38E-07	0.00E+00	1.93E-07	2.87E-08	5.26E-08	0.00E+00	8.13E-08
253	599487.8	4176249	3.449E-07	9.30E-07	0.00E+00	1.27E-06	3.45E-07	9.30E-07	0.00E+00	1.27E-06	5.61E-08	1.41E-07	0.00E+00	1.97E-07	2.93E-08	5.36E-08	0.00E+00	8.29E-08
254	599497.2	4176250	3.419E-07	9.22E-07	0.00E+00	1.26E-06	3.42E-07	9.22E-07	0.00E+00	1.26E-06	5.56E-08	1.39E-07	0.00E+00	1.95E-07	2.90E-08	5.31E-08	0.00E+00	8.22E-08
255	599506.6	4176252	3.061E-07	8.25E-07	0.00E+00	1.13E-06	3.06E-07	8.25E-07	0.00E+00	1.13E-06	4.98E-08	1.25E-07	0.00E+00	1.75E-07	2.60E-08	4.76E-08	0.00E+00	7.36E-08
256	599516	4176254	2.655E-07	7.16E-07	0.00E+00	9.81E-07	2.65E-07	7.16E-07	0.00E+00	9.81E-07	4.32E-08	1.08E-07	0.00E+00	1.51E-07	2.25E-08	4.13E-08	0.00E+00	6.38E-08
257	599476.6	4176257	3.069E-07	8.27E-07	0.00E+00	1.13E-06	3.07E-07	8.27E-07	0.00E+00	1.13E-06	4.99E-08	1.25E-07	0.00E+00	1.75E-07	2.61E-08	4.77E-08	0.00E+00	7.37E-08
258	599486	4176259	3.117E-07	8.40E-07	0.00E+00	1.15E-06	3.12E-07	8.40E-07	0.00E+00	1.15E-06	5.07E-08	1.27E-07	0.00E+00	1.78E-07	2.65E-08	4.84E-08	0.00E+00	7.49E-08
259	599495.4	4176260	3.038E-07	8.19E-07	0.00E+00	1.12E-06	3.04E-07	8.19E-07	0.00E+00	1.12E-06	4.94E-08	1.24E-07	0.00E+00	1.73E-07	2.58E-08	4.72E-08	0.00E+00	7.30E-08
260	599504.8	4176262	2.557E-07	6.89E-07	0.00E+00	9.45E-07	2.56E-07	6.89E-07	0.00E+00	9.45E-07	4.16E-08	1.04E-07	0.00E+00	1.46E-07	2.17E-08	3.97E-08	0.00E+00	6.14E-08
261	599474.8	4176267	2.767E-07	7.46E-07	0.00E+00	1.02E-06	2.77E-07	7.46E-07	0.00E+00	1.02E-06	4.50E-08	1.13E-07	0.00E+00	1.58E-07	2.35E-08	4.30E-08	0.00E+00	6.65E-08
262	599484.2	4176268	2.799E-07	7.55E-07	0.00E+00	1.03E-06	2.80E-07	7.55E-07	0.00E+00	1.03E-06	4.55E-08	1.14E-07	0.00E+00	1.60E-07	2.38E-08	4.35E-08	0.00E+00	6.73E-08
263	599493.6	4176270	2.49E-07	6.71E-07	0.00E+00	9.20E-07	2.49E-07	6.71E-07	0.00E+00	9.20E-07	4.05E-08	1.02E-07	0.00E+00	1.42E-07	2.11E-08	3.87E-08	0.00E+00	5.98E-08

			UnMitigated			T2			T2L3			T4		
			2.11E-02	5.68E-02	0.00E+00	2.11E-02	5.68E-02	0.00E+00	3.43E-03	8.59E-03	0.00E+00	1.79E-03	3.27E-03	0.00E+00
			Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	599586.7	4176135	8.97E-03	2.42E-02	0.00E+00	8.97E-03	2.42E-02	0.00E+00	1.46E-03	3.66E-03	0.00E+00	7.62E-04	1.39E-03	0.00E+00
2	599596	4176136	8.49E-03	2.29E-02	0.00E+00	8.49E-03	2.29E-02	0.00E+00	1.38E-03	3.46E-03	0.00E+00	7.21E-04	1.32E-03	0.00E+00
3	599605.3	4176138	8.36E-03	2.25E-02	0.00E+00	8.36E-03	2.25E-02	0.00E+00	1.36E-03	3.41E-03	0.00E+00	7.10E-04	1.30E-03	0.00E+00
4	599614.6	4176139	7.62E-03	2.06E-02	0.00E+00	7.62E-03	2.06E-02	0.00E+00	1.24E-03	3.11E-03	0.00E+00	6.47E-04	1.18E-03	0.00E+00
5	599623.9	4176141	6.98E-03	1.88E-02	0.00E+00	6.98E-03	1.88E-02	0.00E+00	1.14E-03	2.85E-03	0.00E+00	5.93E-04	1.08E-03	0.00E+00
6	599633.2	4176142	6.41E-03	1.73E-02	0.00E+00	6.41E-03	1.73E-02	0.00E+00	1.04E-03	2.61E-03	0.00E+00	5.44E-04	9.96E-04	0.00E+00
7	599642.4	4176144	5.85E-03	1.58E-02	0.00E+00	5.85E-03	1.58E-02	0.00E+00	9.52E-04	2.39E-03	0.00E+00	4.97E-04	9.09E-04	0.00E+00
8	599651.7	4176145	5.36E-03	1.44E-02	0.00E+00	5.36E-03	1.44E-02	0.00E+00	8.72E-04	2.18E-03	0.00E+00	4.55E-04	8.33E-04	0.00E+00
9	599661	4176146	4.93E-03	1.33E-02	0.00E+00	4.93E-03	1.33E-02	0.00E+00	8.01E-04	2.01E-03	0.00E+00	4.18E-04	7.65E-04	0.00E+00
10	599670.3	4176148	4.51E-03	1.22E-02	0.00E+00	4.51E-03	1.22E-02	0.00E+00	7.33E-04	1.84E-03	0.00E+00	3.83E-04	7.00E-04	0.00E+00
11	599679.6	4176149	4.13E-03	1.11E-02	0.00E+00	4.13E-03	1.11E-02	0.00E+00	6.71E-04	1.68E-03	0.00E+00	3.50E-04	6.41E-04	0.00E+00
12	599688.9	4176151	3.61E-03	9.73E-03	0.00E+00	3.61E-03	9.73E-03	0.00E+00	5.87E-04	1.47E-03	0.00E+00	3.06E-04	5.61E-04	0.00E+00
13	599698.2	4176152	3.30E-03	8.91E-03	0.00E+00	3.30E-03	8.91E-03	0.00E+00	5.37E-04	1.35E-03	0.00E+00	2.80E-04	5.13E-04	0.00E+00
14	599707.5	4176154	3.04E-03	8.19E-03	0.00E+00	3.04E-03	8.19E-03	0.00E+00	4.94E-04	1.24E-03	0.00E+00	2.58E-04	4.72E-04	0.00E+00
15	599585.1	4176144	6.30E-03	1.70E-02	0.00E+00	6.30E-03	1.70E-02	0.00E+00	1.02E-03	2.57E-03	0.00E+00	5.35E-04	9.78E-04	0.00E+00
16	599594.4	4176146	6.04E-03	1.63E-02	0.00E+00	6.04E-03	1.63E-02	0.00E+00	9.83E-04	2.46E-03	0.00E+00	5.13E-04	9.39E-04	0.00E+00
17	599603.7	4176147	5.75E-03	1.55E-02	0.00E+00	5.75E-03	1.55E-02	0.00E+00	9.35E-04	2.34E-03	0.00E+00	4.88E-04	8.93E-04	0.00E+00
18	599613	4176149	5.48E-03	1.48E-02	0.00E+00	5.48E-03	1.48E-02	0.00E+00	8.92E-04	2.23E-03	0.00E+00	4.65E-04	8.52E-04	0.00E+00
19	599622.3	4176150	5.23E-03	1.41E-02	0.00E+00	5.23E-03	1.41E-02	0.00E+00	8.50E-04	2.13E-03	0.00E+00	4.44E-04	8.12E-04	0.00E+00
20	599631.6	4176152	4.98E-03	1.34E-02	0.00E+00	4.98E-03	1.34E-02	0.00E+00	8.11E-04	2.03E-03	0.00E+00	4.23E-04	7.74E-04	0.00E+00
21	599640.9	4176153	4.64E-03	1.25E-02	0.00E+00	4.64E-03	1.25E-02	0.00E+00	7.55E-04	1.89E-03	0.00E+00	3.94E-04	7.22E-04	0.00E+00
22	599650.2	4176155	4.31E-03	1.16E-02	0.00E+00	4.31E-03	1.16E-02	0.00E+00	7.00E-04	1.76E-03	0.00E+00	3.66E-04	6.69E-04	0.00E+00
23	599659.5	4176156	4.00E-03	1.08E-02	0.00E+00	4.00E-03	1.08E-02	0.00E+00	6.51E-04	1.63E-03	0.00E+00	3.40E-04	6.22E-04	0.00E+00
24	599668.7	4176158	3.68E-03	9.92E-03	0.00E+00	3.68E-03	9.92E-03	0.00E+00	5.99E-04	1.50E-03	0.00E+00	3.12E-04	5.72E-04	0.00E+00
25	599678	4176159	3.36E-03	9.07E-03	0.00E+00	3.36E-03	9.07E-03	0.00E+00	5.47E-04	1.37E-03	0.00E+00	2.86E-04	5.23E-04	0.00E+00
26	599687.3	4176161	3.09E-03	8.32E-03	0.00E+00	3.09E-03	8.32E-03	0.00E+00	5.02E-04	1.26E-03	0.00E+00	2.62E-04	4.80E-04	0.00E+00
27	599696.6	4176162	2.85E-03	7.67E-03	0.00E+00	2.85E-03	7.67E-03	0.00E+00	4.63E-04	1.16E-03	0.00E+00	2.42E-04	4.42E-04	0.00E+00
28	599705.9	4176164	2.63E-03	7.09E-03	0.00E+00	2.63E-03	7.09E-03	0.00E+00	4.28E-04	1.07E-03	0.00E+00	2.23E-04	4.09E-04	0.00E+00
29	599583.5	4176154	4.45E-03	1.20E-02	0.00E+00	4.45E-03	1.20E-02	0.00E+00	7.23E-04	1.81E-03	0.00E+00	3.77E-04	6.91E-04	0.00E+00
30	599592.8	4176156	4.25E-03	1.15E-02	0.00E+00	4.25E-03	1.15E-02	0.00E+00	6.92E-04	1.73E-03	0.00E+00	3.61E-04	6.61E-04	0.00E+00
31	599602.1	4176157	4.05E-03	1.09E-02	0.00E+00	4.05E-03	1.09E-02	0.00E+00	6.59E-04	1.65E-03	0.00E+00	3.44E-04	6.29E-04	0.00E+00
32	599611.4	4176159	3.94E-03	1.06E-02	0.00E+00	3.94E-03	1.06E-02	0.00E+00	6.42E-04	1.61E-03	0.00E+00	3.35E-04	6.13E-04	0.00E+00
33	599620.7	4176160	3.87E-03	1.04E-02	0.00E+00	3.87E-03	1.04E-02	0.00E+00	6.29E-04	1.58E-03	0.00E+00	3.28E-04	6.01E-04	0.00E+00
34	599630	4176162	3.80E-03	1.02E-02	0.00E+00	3.80E-03	1.02E-02	0.00E+00	6.17E-04	1.55E-03	0.00E+00	3.22E-04	5.90E-04	0.00E+00
35	599639.3	4176163	3.63E-03	9.78E-03	0.00E+00	3.63E-03	9.78E-03	0.00E+00	5.90E-04	1.48E-03	0.00E+00	3.08E-04	5.64E-04	0.00E+00
36	599648.6	4176165	3.41E-03	9.18E-03	0.00E+00	3.41E-03	9.18E-03	0.00E+00	5.54E-04	1.39E-03	0.00E+00	2.89E-04	5.29E-04	0.00E+00
37	599657.9	4176166	3.20E-03	8.63E-03	0.00E+00	3.20E-03	8.63E-03	0.00E+00	5.20E-04	1.30E-03	0.00E+00	2.72E-04	4.97E-04	0.00E+00
38	599667.2	4176168	2.98E-03	8.03E-03	0.00E+00	2.98E-03	8.03E-03	0.00E+00	4.85E-04	1.21E-03	0.00E+00	2.53E-04	4.63E-04	0.00E+00
39	599676.5	4176169	2.74E-03	7.40E-03	0.00E+00	2.74E-03	7.40E-03	0.00E+00	4.46E-04	1.12E-03	0.00E+00	2.33E-04	4.26E-04	0.00E+00
40	599685.7	4176171	2.54E-03	6.84E-03	0.00E+00	2.54E-03	6.84E-03	0.00E+00	4.13E-04	1.03E-03	0.00E+00	2.16E-04	3.94E-04	0.00E+00
41	599695	4176172	2.35E-03	6.35E-03	0.00E+00	2.35E-03	6.35E-03	0.00E+00	3.83E-04	9.60E-04	0.00E+00	2.00E-04	3.66E-04	0.00E+00
42	599704.3	4176174	2.18E-03	5.88E-03	0.00E+00	2.18E-03	5.88E-03	0.00E+00	3.55E-04	8.89E-04	0.00E+00	1.85E-04	3.39E-04	0.00E+00
43	599582	4176164	3.28E-03	8.84E-03	0.00E+00	3.28E-03	8.84E-03	0.00E+00	5.34E-04	1.34E-03	0.00E+00	2.78E-04	5.10E-04	0.00E+00
44	599591.3	4176166	3.12E-03	8.41E-03	0.00E+00	3.12E-03	8.41E-03	0.00E+00	5.08E-04	1.27E-03	0.00E+00	2.65E-04	4.85E-04	0.00E+00
45	599600.5	4176167	2.94E-03	7.93E-03	0.00E+00	2.94E-03	7.93E-03	0.00E+00	4.79E-04	1.20E-03	0.00E+00	2.50E-04	4.57E-04	0.00E+00
46	599609.8	4176169	2.84E-03	7.66E-03	0.00E+00	2.84E-03	7.66E-03	0.00E+00	4.62E-04	1.16E-03	0.00E+00	2.41E-04	4.42E-04	0.00E+00
47	599619.1	4176170	2.78E-03	7.50E-03	0.00E+00	2.78E-03	7.50E-03	0.00E+00	4.53E-04	1.13E-03	0.00E+00	2.36E-04	4.32E-04	0.00E+00
48	599628.4	4176172	2.73E-03	7.35E-03	0.00E+00	2.73E-03	7.35E-03	0.00E+00	4.44E-04	1.11E-03	0.00E+00	2.32E-04	4.24E-04	0.00E+00
49	599637.7	4176173	2.64E-03	7.11E-03	0.00E+00	2.64E-03	7.11E-03	0.00E+00	4.29E-04	1.07E-03	0.00E+00	2.24E-04	4.10E-04	0.00E+00
50	599647	4176175	2.51E-03	6.78E-03	0.00E+00	2.51E-03	6.78E-03	0.00E+00	4.09E-04	1.02E-03	0.00E+00	2.13E-04	3.90E-04	0.00E+00
51	599656.3	4176176	2.41E-03	6.49E-03	0.00E+00	2.41E-03	6.49E-03	0.00E+00	3.91E-04	9.81E-04	0.00E+00	2.04E-04	3.74E-04	0.00E+00
52	599665.6	4176178	2.30E-03	6.21E-03	0.00E+00	2.30E-03	6.21E-03	0.00E+00	3.74E-04	9.38E-04	0.00E+00	1.95E-04	3.58E-04	0.00E+00
53	599674.9	4176179	2.15E-03	5.80E-03	0.00E+00	2.15E-03	5.80E-03	0.00E+00	3.50E-04	8.78E-04	0.00E+00	1.83E-04	3.35E-04	0.00E+00
54	599684.2	4176181	2.02E-03	5.45E-03	0.00E+00	2.02E-03	5.45E-03	0.00E+00	3.29E-04	8.23E-04	0.00E+00	1.71E-04	3.14E-04	0.00E+00
55	599693.5	4176182	1.90E-03	5.13E-03	0.00E+00	1.90E-03	5.13E-03	0.00E+00	3.09E-04	7.75E-04	0.00E+00	1.61E-04	2.95E-04	0.00E+00
56	599702.8	4176184	1.77E-03	4.78E-03	0.00E+00	1.77E-03	4.78E-03	0.00E+00	2.88E-04	7.22E-04	0.00E+00	1.50E-04	2.75E-04	0.00E+00
57	599580.4	4176174	2.52E-03	6.80E-03	0.00E+00	2.52E-03	6.80E-03	0.00E+00	4.10E-04	1.03E-03	0.00E+00	2.14E-04	3.92E-04	0.00E+00
58	599589.7	4176176	2.39E-03	6.43E-03	0.00E+00	2.39E-03	6.43E-03	0.00E+00	3.88E-04	9.72E-04	0.00E+00	2.03E-04	3.71E-04	0.00E+00
59	599599	4176177	2.23E-03	6.02E-03	0.00E+00	2.23E-03	6.02E-03	0.00E+00	3.63E-04	9.10E-04	0.00E+00	1.90E-04	3.47E-04	0.00E+00
60	599608.3	4176179	2.12E-03	5.72E-03	0.00E+00	2.12E-03	5.72E-03	0.00E+00	3.45E-04	8.65E-04	0.00E+00	1.80E-04	3.30E-04	0.00E+00
61	599617.6	4176180	2.06E-03	5.55E-03	0.00E+00	2.06E-03	5.55E-03	0.00E+00	3.35E-04	8.39E-04	0.00E+00	1.75E-04	3.20E-04	0.00E+00
62	599626.8	4176182	1.99E-03	5.38E-03	0.00E+00	1.99E-03	5.38E-03	0.00E+00	3.25E-04	8.13E-04	0.00E+00	1.69E-04	3.10E-04	0.00E+00
63	599636.1	4176183	1.93E-03	5.21E-03	0.00E+00	1.93E-03	5.21E-03	0.00E+00	3.14E-04	7.88E-04	0.00E+00	1.64E-04	3.00E-04	0.00E+00
64	599645.4	4176185	1.87E-03	5.05E-03	0.00E+00	1.87E-03	5.05E-03	0.00E+00	3.05E-04	7.63E-04	0.00E+00	1.59E-04	2.91E-04	0.00E+00
65	599654.7	4176186	1.82E-03	4.92E-03	0.00E+00	1.82E-03	4.92E-03	0.00E+00	2.97E-04	7.43E-04	0.00E+00	1.55E-04	2.83E-04	0.00E+00
66	599664	4176187	1.78E-03	4.80E-03	0.00E+00	1.78E-03	4.80E-03	0.00E+00	2.90E-04	7.26E-04	0.00E+00	1.51E-04	2.77E-04	0.00E+00
67	599673.3	4176189	1.69E-03	4.56E-03	0.00E+00	1.69E-03	4.56E-03	0.00E+00	2.75E-04	6.90E-04	0.00E+00	1.44E-04	2.63E-04	0.00E+00
68	599682.6	4176190	1.61E-03	4.34E-03	0.00E+00	1.61E-03	4.34E-03	0.00E+00	2.62E-04	6.56E-04	0.00E+00	1.37E-04	2.50E-04	0.00E+00
69	599691.9	4176192	1.53E-03	4.14E-03	0.00E+00	1.53E-03	4.14E-03	0.00E+00	2.50E-04	6.26E-04	0.00E+00	1.30E-04	2.39E-04	0.00E+00
70	599701.2	4176193	1.44E-03	3.90E-03	0.00E+00	1.44E-03	3.90E-03	0.00E+00	2.35E-04	5.89E-04	0.00E+00	1.23E-04	2.25E-04	0.00E+00
71	599578.8	4176184	2.00E-03	5.40E-03	0.00E+00	2.00E-03	5.40E-03	0.00E+00	3.26E-04	8.17E-04	0.00E+00	1.70E-04	3.11E-04	0.00E+00
72	599588.1	4176185	1.90E-03	5.13E-03	0.00E+00	1.90E-03	5.13E-03	0.00E+00	3.09E-04	7.75E-04	0.00E+00	1.61E-04	2.95E-04	0.00E+00
73	599597.4	4176187	1.78E-03	4.81E-03	0.00E+00	1.78E-03	4.81E-03	0.00E+00	2.90E-04	7.27E-04	0.00E+00	1.51E-04	2.77E-04	0.00E+00
74	599606.7	4176188	1.68E-03	4.53E-03	0.00E+00	1.68E-03	4.53E-03	0.00E+00	2.73E-04	6.85E-04	0.00E+00	1.43E-04	2.61E-04	0.00E+00
75	599616	4176190	1.62E-03	4.37E-03	0.00E+00	1.62E-03	4.37E-03	0.00E+00	2.63E-04	6.60E-04	0.00E+00	1.38E-04	2.52E-04	0.00E+00
76	599625.3	4176191	1.56E-03	4.21E-03	0.00E+00	1.56E-03	4.21E-03	0.00E+00	2.54E-04	6.36E-04	0.00E+00	1.32E-04	2.42E-04	0.00E+00
77	599634.6	4176193	1.50E-03	4.05E-03	0.00E+00	1.50E-03	4.05E-03	0.00E+00	2.45E-04	6.13E-04	0.00E+00	1.28E-04	2.34E-04	0.00E+00
78	599643.8	4176194	1.47E-03	3.95E-03	0.00E+00	1.47E-03	3.95E-03	0.00E+00	2.38E-04	5.97E-04	0.00E+00	1.24E-04	2.28E-04	0.00E+00
79	599653.1	4176196	1.43E-03	3.87E-03	0.00E+00	1.43E-03	3.87E-03	0.00E+00	2.33E-04	5.85E-04	0.00E+00	1.22E-04	2.23E-04	0.00E+00
80	599662.4	4176197	1.41E-03	3.81E-03	0.00E+00	1.41E-03	3.81E-03	0.00E+00	2.30E-04	5.77E-04	0.00E+00	1.20E-04	2.20E-04	0.00E+00
81	599671.7	4176199	1.36E-03	3.67E-03	0.00E+00	1.36E-03	3.67E-03	0.00E+00	2.21E-04	5.54E-04	0.00E+00	1.15E-04	2.11E-04	0.00E+00
82	599681	4176200	1.30E-03	3.51E-03	0.00E+00	1.30E-03	3.51E-03	0.00E+00	2.12E-04	5.31E-04	0.00E+00	1.11E-04	2.02E-04	0.00E+00
83	599577.2	4176194	1.62E-03	4.38E-03	0.00E+00	1.62E-03	4.38E-03	0.00E+00	2.64E-04	6.62E-04	0.00E+00	1.38E-04	2.52E-04	0.00E+00
84	599586.5	4176195	1.55E-03	4.18E-03	0.00E+00	1.55E-03	4.18E-03	0.00E+00	2.52E-04	6.33E-04	0.00E+00	1.32E-04	2.41E-04	0.00E+00
85	599595.8	4176197	1.47E-03	3.97E-03	0.00E+00	1.47E-03	3.97E-03	0.00E+00	2.40E-04	6.01E-04	0.00E+00	1.25E-04	2.29E-04	0.00E+00
86	599605.1	4176198	1.40E-03	3.77E-03	0.00E+00	1.40E-03	3.77E-03	0.00E+00	2.28E-04	5.71E-04	0.00E+00	1.19E-04	2.17E-04	0.00E+00
87	599614.4	4176200	1.36E-03	3.66E-03	0.00E+00	1.36E-03	3.66E-03	0.00E+00	2.21E-04	5.53E-04	0.00E+00	1.15E-04	2.11E-04	0.00E+00
88	599623.7	4176201	1.31E-03	3.53E-03	0.00E+00	1.31E-03	3.53E-03	0.00E+00	2.13E-04	5.34E-04	0.00E+00	1.11E-04	2.04E-04	0.00E+00

89	599633	4176203	1.26E-03	3.40E-03	0.00E+00	1.26E-03	3.40E-03	0.00E+00	2.05E-04	5.14E-04	0.00E+00	1.07E-04	1.96E-04	0.00E+00
90	599642.3	4176204	1.23E-03	3.31E-03	0.00E+00	1.23E-03	3.31E-03	0.00E+00	1.99E-04	5.00E-04	0.00E+00	1.04E-04	1.91E-04	0.00E+00
91	599651.6	4176206	1.19E-03	3.22E-03	0.00E+00	1.19E-03	3.22E-03	0.00E+00	1.94E-04	4.87E-04	0.00E+00	1.01E-04	1.86E-04	0.00E+00
92	599575.7	4176204	1.40E-03	3.77E-03	0.00E+00	1.40E-03	3.77E-03	0.00E+00	2.28E-04	5.71E-04	0.00E+00	1.19E-04	2.17E-04	0.00E+00
93	599584.9	4176205	1.36E-03	3.67E-03	0.00E+00	1.36E-03	3.67E-03	0.00E+00	2.21E-04	5.54E-04	0.00E+00	1.15E-04	2.11E-04	0.00E+00
94	599594.2	4176207	1.30E-03	3.51E-03	0.00E+00	1.30E-03	3.51E-03	0.00E+00	2.12E-04	5.31E-04	0.00E+00	1.11E-04	2.02E-04	0.00E+00
95	599603.5	4176208	1.24E-03	3.33E-03	0.00E+00	1.24E-03	3.33E-03	0.00E+00	2.01E-04	5.04E-04	0.00E+00	1.05E-04	1.92E-04	0.00E+00
96	599612.8	4176210	1.19E-03	3.22E-03	0.00E+00	1.19E-03	3.22E-03	0.00E+00	1.94E-04	4.87E-04	0.00E+00	1.01E-04	1.85E-04	0.00E+00
97	599622.1	4176211	1.15E-03	3.09E-03	0.00E+00	1.15E-03	3.09E-03	0.00E+00	1.86E-04	4.67E-04	0.00E+00	9.72E-05	1.78E-04	0.00E+00
98	599574.1	4176214	1.23E-03	3.31E-03	0.00E+00	1.23E-03	3.31E-03	0.00E+00	2.00E-04	5.01E-04	0.00E+00	1.04E-04	1.91E-04	0.00E+00
99	599583.4	4176215	1.20E-03	3.23E-03	0.00E+00	1.20E-03	3.23E-03	0.00E+00	1.95E-04	4.89E-04	0.00E+00	1.02E-04	1.86E-04	0.00E+00
100	599592.7	4176217	1.15E-03	3.11E-03	0.00E+00	1.15E-03	3.11E-03	0.00E+00	1.88E-04	4.71E-04	0.00E+00	9.80E-05	1.79E-04	0.00E+00
101	599601.9	4176218	1.10E-03	2.97E-03	0.00E+00	1.10E-03	2.97E-03	0.00E+00	1.79E-04	4.49E-04	0.00E+00	9.34E-05	1.71E-04	0.00E+00
102	599611.2	4176220	1.06E-03	2.85E-03	0.00E+00	1.06E-03	2.85E-03	0.00E+00	1.72E-04	4.31E-04	0.00E+00	8.97E-05	1.64E-04	0.00E+00
103	599572.5	4176223	1.09E-03	2.94E-03	0.00E+00	1.09E-03	2.94E-03	0.00E+00	1.78E-04	4.45E-04	0.00E+00	9.27E-05	1.70E-04	0.00E+00
104	599581.8	4176225	1.06E-03	2.86E-03	0.00E+00	1.06E-03	2.86E-03	0.00E+00	1.72E-04	4.32E-04	0.00E+00	9.00E-05	1.65E-04	0.00E+00
105	599591.1	4176226	1.03E-03	2.77E-03	0.00E+00	1.03E-03	2.77E-03	0.00E+00	1.67E-04	4.18E-04	0.00E+00	8.72E-05	1.60E-04	0.00E+00
106	599600.4	4176228	9.87E-04	2.66E-03	0.00E+00	9.87E-04	2.66E-03	0.00E+00	1.61E-04	4.02E-04	0.00E+00	8.38E-05	1.53E-04	0.00E+00
107	599570.9	4176233	9.97E-04	2.69E-03	0.00E+00	9.97E-04	2.69E-03	0.00E+00	1.62E-04	4.06E-04	0.00E+00	8.46E-05	1.55E-04	0.00E+00
108	599580.2	4176235	9.63E-04	2.60E-03	0.00E+00	9.63E-04	2.60E-03	0.00E+00	1.57E-04	3.92E-04	0.00E+00	8.17E-05	1.50E-04	0.00E+00
109	599589.5	4176236	9.37E-04	2.53E-03	0.00E+00	9.37E-04	2.53E-03	0.00E+00	1.52E-04	3.82E-04	0.00E+00	7.96E-05	1.46E-04	0.00E+00
110	599598.8	4176238	9.04E-04	2.44E-03	0.00E+00	9.04E-04	2.44E-03	0.00E+00	1.47E-04	3.69E-04	0.00E+00	7.68E-05	1.41E-04	0.00E+00
111	599569.3	4176243	9.15E-04	2.47E-03	0.00E+00	9.15E-04	2.47E-03	0.00E+00	1.49E-04	3.73E-04	0.00E+00	7.77E-05	1.42E-04	0.00E+00
112	599578.6	4176245	8.84E-04	2.38E-03	0.00E+00	8.84E-04	2.38E-03	0.00E+00	1.44E-04	3.61E-04	0.00E+00	7.51E-05	1.37E-04	0.00E+00
113	599587.9	4176246	8.60E-04	2.32E-03	0.00E+00	8.60E-04	2.32E-03	0.00E+00	1.40E-04	3.51E-04	0.00E+00	7.30E-05	1.34E-04	0.00E+00
114	599567.8	4176253	8.40E-04	2.26E-03	0.00E+00	8.40E-04	2.26E-03	0.00E+00	1.37E-04	3.42E-04	0.00E+00	7.13E-05	1.30E-04	0.00E+00
115	599577.1	4176255	8.21E-04	2.21E-03	0.00E+00	8.21E-04	2.21E-03	0.00E+00	1.34E-04	3.35E-04	0.00E+00	6.97E-05	1.28E-04	0.00E+00
116	599483.1	4176116	1.63E-02	4.39E-02	0.00E+00	1.63E-02	4.39E-02	0.00E+00	2.65E-03	6.63E-03	0.00E+00	1.38E-03	2.53E-03	0.00E+00
117	599492.5	4176117	0.018164	4.90E-02	0.00E+00	1.82E-02	4.90E-02	0.00E+00	2.95E-03	7.41E-03	0.00E+00	1.54E-03	2.82E-03	0.00E+00
118	599501.9	4176119	0.020013	5.40E-02	0.00E+00	2.00E-02	5.40E-02	0.00E+00	3.26E-03	8.16E-03	0.00E+00	1.70E-03	3.11E-03	0.00E+00
119	599511.3	4176121	0.021071	5.68E-02	0.00E+00	2.11E-02	5.68E-02	0.00E+00	3.43E-03	8.59E-03	0.00E+00	1.79E-03	3.27E-03	0.00E+00
120	599520.7	4176123	0.020973	5.65E-02	0.00E+00	2.10E-02	5.65E-02	0.00E+00	3.41E-03	8.55E-03	0.00E+00	1.78E-03	3.26E-03	0.00E+00
121	599530.1	4176124	0.019573	5.28E-02	0.00E+00	1.96E-02	5.28E-02	0.00E+00	3.18E-03	7.98E-03	0.00E+00	1.66E-03	3.04E-03	0.00E+00
122	599539.5	4176126	0.015068	4.06E-02	0.00E+00	1.51E-02	4.06E-02	0.00E+00	2.45E-03	6.14E-03	0.00E+00	1.28E-03	2.34E-03	0.00E+00
123	599548.9	4176128	0.013119	3.54E-02	0.00E+00	1.31E-02	3.54E-02	0.00E+00	2.13E-03	5.35E-03	0.00E+00	1.11E-03	2.04E-03	0.00E+00
124	599558.3	4176129	0.011853	3.20E-02	0.00E+00	1.19E-02	3.20E-02	0.00E+00	1.93E-03	4.83E-03	0.00E+00	1.01E-03	1.84E-03	0.00E+00
125	599567.7	4176131	0.010563	2.85E-02	0.00E+00	1.06E-02	2.85E-02	0.00E+00	1.72E-03	4.31E-03	0.00E+00	8.97E-04	1.64E-03	0.00E+00
126	599577.1	4176133	0.009573	2.58E-02	0.00E+00	9.57E-03	2.58E-02	0.00E+00	1.56E-03	3.90E-03	0.00E+00	8.13E-04	1.49E-03	0.00E+00
127	599481.3	4176125	0.011298	3.05E-02	0.00E+00	1.13E-02	3.05E-02	0.00E+00	1.84E-03	4.61E-03	0.00E+00	9.59E-04	1.76E-03	0.00E+00
128	599490.7	4176127	0.012229	3.30E-02	0.00E+00	1.22E-02	3.30E-02	0.00E+00	1.99E-03	4.99E-03	0.00E+00	1.04E-03	1.90E-03	0.00E+00
129	599500.1	4176129	0.013143	3.54E-02	0.00E+00	1.31E-02	3.54E-02	0.00E+00	2.14E-03	5.36E-03	0.00E+00	1.12E-03	2.04E-03	0.00E+00
130	599509.5	4176131	0.0136	3.67E-02	0.00E+00	1.36E-02	3.67E-02	0.00E+00	2.21E-03	5.54E-03	0.00E+00	1.15E-03	2.11E-03	0.00E+00
131	599518.9	4176132	0.01327	3.58E-02	0.00E+00	1.33E-02	3.58E-02	0.00E+00	2.16E-03	5.41E-03	0.00E+00	1.13E-03	2.06E-03	0.00E+00
132	599528.3	4176134	0.010558	2.85E-02	0.00E+00	1.06E-02	2.85E-02	0.00E+00	1.72E-03	4.30E-03	0.00E+00	8.96E-04	1.64E-03	0.00E+00
133	599537.7	4176136	0.008859	2.39E-02	0.00E+00	8.86E-03	2.39E-02	0.00E+00	1.44E-03	3.61E-03	0.00E+00	7.52E-04	1.38E-03	0.00E+00
134	599547.1	4176138	0.007953	2.14E-02	0.00E+00	7.95E-03	2.14E-02	0.00E+00	1.29E-03	3.24E-03	0.00E+00	6.75E-04	1.24E-03	0.00E+00
135	599556.5	4176139	0.007664	2.07E-02	0.00E+00	7.66E-03	2.07E-02	0.00E+00	1.25E-03	3.12E-03	0.00E+00	6.51E-04	1.19E-03	0.00E+00
136	599565.9	4176141	0.007131	1.92E-02	0.00E+00	7.13E-03	1.92E-02	0.00E+00	1.16E-03	2.91E-03	0.00E+00	6.05E-04	1.11E-03	0.00E+00
137	599575.3	4176143	0.006566	1.77E-02	0.00E+00	6.57E-03	1.77E-02	0.00E+00	1.07E-03	2.68E-03	0.00E+00	5.57E-04	1.02E-03	0.00E+00
138	599479.5	4176135	0.008425	2.27E-02	0.00E+00	8.43E-03	2.27E-02	0.00E+00	1.37E-03	3.43E-03	0.00E+00	7.15E-04	1.31E-03	0.00E+00
139	599488.9	4176137	0.008921	2.41E-02	0.00E+00	8.92E-03	2.41E-02	0.00E+00	1.45E-03	3.64E-03	0.00E+00	7.57E-04	1.39E-03	0.00E+00
140	599498.3	4176139	0.009372	2.53E-02	0.00E+00	9.37E-03	2.53E-02	0.00E+00	1.52E-03	3.82E-03	0.00E+00	7.96E-04	1.46E-03	0.00E+00
141	599507.7	4176140	0.009615	2.59E-02	0.00E+00	9.61E-03	2.59E-02	0.00E+00	1.56E-03	3.92E-03	0.00E+00	8.16E-04	1.49E-03	0.00E+00
142	599517.1	4176142	0.008488	2.29E-02	0.00E+00	8.49E-03	2.29E-02	0.00E+00	1.38E-03	3.46E-03	0.00E+00	7.21E-04	1.32E-03	0.00E+00
143	599526.5	4176144	0.00748	2.02E-02	0.00E+00	7.48E-03	2.02E-02	0.00E+00	1.22E-03	3.05E-03	0.00E+00	6.35E-04	1.16E-03	0.00E+00
144	599535.9	4176146	0.006433	1.73E-02	0.00E+00	6.43E-03	1.73E-02	0.00E+00	1.05E-03	2.62E-03	0.00E+00	5.46E-04	1.00E-03	0.00E+00
145	599545.3	4176147	0.005671	1.53E-02	0.00E+00	5.67E-03	1.53E-02	0.00E+00	9.23E-04	2.31E-03	0.00E+00	4.82E-04	8.81E-04	0.00E+00
146	599554.7	4176149	0.005475	1.48E-02	0.00E+00	5.48E-03	1.48E-02	0.00E+00	8.91E-04	2.23E-03	0.00E+00	4.65E-04	8.51E-04	0.00E+00
147	599564.1	4176151	0.005114	1.38E-02	0.00E+00	5.11E-03	1.38E-02	0.00E+00	8.32E-04	2.09E-03	0.00E+00	4.34E-04	7.95E-04	0.00E+00
148	599573.5	4176153	0.004658	1.26E-02	0.00E+00	4.66E-03	1.26E-02	0.00E+00	7.58E-04	1.90E-03	0.00E+00	3.96E-04	7.24E-04	0.00E+00
149	599477.7	4176145	0.00661	1.78E-02	0.00E+00	6.61E-03	1.78E-02	0.00E+00	1.08E-03	2.69E-03	0.00E+00	5.61E-04	1.03E-03	0.00E+00
150	599487.1	4176147	0.006942	1.87E-02	0.00E+00	6.94E-03	1.87E-02	0.00E+00	1.13E-03	2.83E-03	0.00E+00	5.89E-04	1.08E-03	0.00E+00
151	599496.5	4176149	0.007201	1.94E-02	0.00E+00	7.20E-03	1.94E-02	0.00E+00	1.17E-03	2.94E-03	0.00E+00	6.11E-04	1.12E-03	0.00E+00
152	599505.9	4176150	0.007339	1.98E-02	0.00E+00	7.34E-03	1.98E-02	0.00E+00	1.19E-03	2.99E-03	0.00E+00	6.23E-04	1.14E-03	0.00E+00
153	599515.3	4176152	0.006507	1.75E-02	0.00E+00	6.51E-03	1.75E-02	0.00E+00	1.06E-03	2.65E-03	0.00E+00	5.53E-04	1.01E-03	0.00E+00
154	599524.7	4176154	0.005679	1.53E-02	0.00E+00	5.68E-03	1.53E-02	0.00E+00	9.24E-04	2.32E-03	0.00E+00	4.82E-04	8.82E-04	0.00E+00
155	599534.1	4176155	0.004852	1.31E-02	0.00E+00	4.85E-03	1.31E-02	0.00E+00	7.89E-04	1.98E-03	0.00E+00	4.12E-04	7.54E-04	0.00E+00
156	599543.5	4176157	0.004198	1.13E-02	0.00E+00	4.20E-03	1.13E-02	0.00E+00	6.83E-04	1.71E-03	0.00E+00	3.56E-04	6.52E-04	0.00E+00
157	599552.9	4176159	0.004055	1.09E-02	0.00E+00	4.06E-03	1.09E-02	0.00E+00	6.60E-04	1.65E-03	0.00E+00	3.44E-04	6.30E-04	0.00E+00
158	599562.3	4176161	0.003805	1.03E-02	0.00E+00	3.80E-03	1.03E-02	0.00E+00	6.19E-04	1.55E-03	0.00E+00	3.23E-04	5.91E-04	0.00E+00
159	599571.7	4176162	0.003487	9.40E-03	0.00E+00	3.49E-03	9.40E-03	0.00E+00	5.67E-04	1.42E-03	0.00E+00	2.96E-04	5.42E-04	0.00E+00
160	599485.3	4176157	0.005616	1.51E-02	0.00E+00	5.62E-03	1.51E-02	0.00E+00	9.14E-04	2.29E-03	0.00E+00	4.77E-04	8.73E-04	0.00E+00
161	599494.7	4176158	0.005775	1.56E-02	0.00E+00	5.77E-03	1.56E-02	0.00E+00	9.39E-04	2.35E-03	0.00E+00	4.90E-04	8.97E-04	0.00E+00
162	599504.1	4176160	0.005837	1.57E-02	0.00E+00	5.84E-03	1.57E-02	0.00E+00	9.49E-04	2.38E-03	0.00E+00	4.96E-04	9.07E-04	0.00E+00
163	599513.5	4176162	0.005195	1.40E-02	0.00E+00	5.19E-03	1.40E-02	0.00E+00	8.45E-04	2.12E-03	0.00E+00	4.41E-04	8.07E-04	0.00E+00
164	599522.9	4176164	0.004476	1.21E-02	0.00E+00	4.48E-03	1.21E-02	0.00E+00	7.28E-04	1.82E-03	0.00E+00	3.80E-04	6.96E-04	0.00E+00
165	599532.3	4176165	0.003775	1.02E-02	0.00E+00	3.78E-03	1.02E-02	0.00E+00	6.14E-04	1.54E-03	0.00E+00	3.21E-04	5.87E-04	0.00E+00
166	599541.7	4176167	0.003273	8.82E-03	0.00E+00	3.27E-03	8.82E-03	0.00E+00	5.32E-04	1.33E-03	0.00E+00	2.78E-04	5.09E-04	0.00E+00
167	599551.1	4176169	0.003105	8.37E-03	0.00E+00	3.10E-03	8.37E-03	0.00E+00	5.05E-04	1.27E-03	0.00E+00	2.64E-04	4.82E-04	0.00E+00
168	599560.5	4176170	0.002931	7.90E-03	0.00E+00	2.93E-03	7.90E-03	0.00E+00	4.77E-04	1.19E-03	0.00E+00	2.49E-04	4.55E-04	0.00E+00
169	599569.9	4176172	0.002708	7.30E-03	0.00E+00	2.71E-03	7.30E-03	0.00E+00	4.41E-04	1.10E-03	0.00E+00	2.30E-04	4.21E-04	0.00E+00
170	599474.1	4176165	0.00446	1.20E-02	0.00E+00	4.46E-03	1.20E-02	0.00E+00	7.26E-04	1.82E-03	0.00E+00	3.79E-04	6.93E-04	0.00E+00
171	599483.5	4176167	0.004667	1.26E-02	0.00E+00	4.67E-03	1.26E-02	0.00E+00	7.59E-04	1.90E-03	0.00E+00	3.96E-04	7.25E-04	0.00E+00
172	599492.9	4176168	0.004774	1.29E-02	0.00E+00	4.77E-03	1.29E-02	0.00E+00	7.77E-04	1.95E-03	0.00E+00	4.05E-04	7.42E-04	0.00E+00
173	599502.3	4176170	0.004793	1.29E-02	0.00E+00	4.79E-03	1.29E-02	0.00E+00	7.80E-04	1.95E-03	0.00E+00	4.07E-04	7.45E-04	0.00E+00
174	599511.7	4176172	0.004245	1.14E-02	0.00E+00	4.25E-03	1.14E-02	0.00E+00	6.91E-04	1.73E-03	0.00E+00	3.60E-04	6.60E-04	0.00E+00
175	599521.1	4176173	0.003678	9.92E-03	0.00E+00	3.68E-03	9.92E-03	0.00E+00	5.98E-04	1.50E-03	0.00E+00	3.12E-04	5.72E-04	0.00E+00
176	599530.5	4176175	0.003082	8.31E-03	0.00E+00	3.08E-03	8.31E-03	0.00E+00	5.01E-04	1.26E-03	0.00E+00	2.62E-04	4.79E-04	0.00E+00
177	599539.9	4176177	0.002659	7.17E-03	0.00E+00	2.66E-03	7.17E-03	0.00E+00	4.33E-04	1.08E-03	0.00E+00	2.26E-04	4.13E-04	0.00E+00
178	599549.3	4176179	0.002463	6.64E-03	0.00E+00	2.46E-03	6.64E-03	0.00E+00	4.01E-04	1.00E-03	0.00E+00	2.09E-04	3.83E-04	0.00E+00
179	599558.7	4176180	0.00232	6.26E-03	0.00E+00	2.32E-03	6.26E-03	0.00E+00	3.77E-04	9.46E-04	0.00E+00	1.97E-04	3.61E-04	0.00E+00

180	599568.1	4176182	0.002158	5.82E-03	0.00E+00	2.16E-03	5.82E-03	0.00E+00	3.51E-04	8.80E-04	0.00E+00	1.83E-04	3.35E-04	0.00E+00
181	599472.3	4176175	0.003786	1.02E-02	0.00E+00	3.79E-03	1.02E-02	0.00E+00	6.16E-04	1.54E-03	0.00E+00	3.21E-04	5.88E-04	0.00E+00
182	599481.7	4176176	0.003947	1.06E-02	0.00E+00	3.95E-03	1.06E-02	0.00E+00	6.42E-04	1.61E-03	0.00E+00	3.35E-04	6.13E-04	0.00E+00
183	599491.1	4176178	0.00404	1.09E-02	0.00E+00	4.04E-03	1.09E-02	0.00E+00	6.57E-04	1.65E-03	0.00E+00	3.43E-04	6.28E-04	0.00E+00
184	599500.5	4176180	0.004033	1.09E-02	0.00E+00	4.03E-03	1.09E-02	0.00E+00	6.56E-04	1.64E-03	0.00E+00	3.42E-04	6.27E-04	0.00E+00
185	599509.9	4176182	0.00356	9.60E-03	0.00E+00	3.56E-03	9.60E-03	0.00E+00	5.79E-04	1.45E-03	0.00E+00	3.02E-04	5.53E-04	0.00E+00
186	599519.3	4176183	0.003102	8.36E-03	0.00E+00	3.10E-03	8.36E-03	0.00E+00	5.05E-04	1.26E-03	0.00E+00	2.63E-04	4.82E-04	0.00E+00
187	599528.7	4176185	0.002575	6.94E-03	0.00E+00	2.58E-03	6.94E-03	0.00E+00	4.19E-04	1.05E-03	0.00E+00	2.19E-04	4.00E-04	0.00E+00
188	599538.1	4176187	0.002199	5.93E-03	0.00E+00	2.20E-03	5.93E-03	0.00E+00	3.58E-04	8.96E-04	0.00E+00	1.87E-04	3.42E-04	0.00E+00
189	599547.5	4176188	0.001994	5.38E-03	0.00E+00	1.99E-03	5.38E-03	0.00E+00	3.24E-04	8.13E-04	0.00E+00	1.69E-04	3.10E-04	0.00E+00
190	599556.9	4176190	0.001869	5.04E-03	0.00E+00	1.87E-03	5.04E-03	0.00E+00	3.04E-04	7.62E-04	0.00E+00	1.59E-04	2.90E-04	0.00E+00
191	599566.3	4176192	0.001747	4.71E-03	0.00E+00	1.75E-03	4.71E-03	0.00E+00	2.84E-04	7.12E-04	0.00E+00	1.48E-04	2.71E-04	0.00E+00
192	599470.5	4176184	0.003266	8.81E-03	0.00E+00	3.27E-03	8.81E-03	0.00E+00	5.31E-04	1.33E-03	0.00E+00	2.77E-04	5.07E-04	0.00E+00
193	599479.9	4176186	0.003393	9.15E-03	0.00E+00	3.39E-03	9.15E-03	0.00E+00	5.52E-04	1.38E-03	0.00E+00	2.88E-04	5.27E-04	0.00E+00
194	599489.3	4176188	0.003477	9.37E-03	0.00E+00	3.48E-03	9.37E-03	0.00E+00	5.66E-04	1.42E-03	0.00E+00	2.95E-04	5.40E-04	0.00E+00
195	599498.7	4176190	0.003463	9.34E-03	0.00E+00	3.46E-03	9.34E-03	0.00E+00	5.63E-04	1.41E-03	0.00E+00	2.94E-04	5.38E-04	0.00E+00
196	599508.1	4176191	0.003056	8.24E-03	0.00E+00	3.06E-03	8.24E-03	0.00E+00	4.97E-04	1.25E-03	0.00E+00	2.60E-04	4.75E-04	0.00E+00
197	599517.5	4176193	0.002677	7.22E-03	0.00E+00	2.68E-03	7.22E-03	0.00E+00	4.35E-04	1.09E-03	0.00E+00	2.27E-04	4.16E-04	0.00E+00
198	599526.9	4176195	0.002195	5.92E-03	0.00E+00	2.19E-03	5.92E-03	0.00E+00	3.57E-04	8.95E-04	0.00E+00	1.86E-04	3.41E-04	0.00E+00
199	599536.3	4176197	0.00187	5.04E-03	0.00E+00	1.87E-03	5.04E-03	0.00E+00	3.04E-04	7.62E-04	0.00E+00	1.59E-04	2.91E-04	0.00E+00
200	599545.7	4176198	0.0017	4.58E-03	0.00E+00	1.70E-03	4.58E-03	0.00E+00	2.77E-04	6.93E-04	0.00E+00	1.44E-04	2.64E-04	0.00E+00
201	599555.1	4176200	0.001595	4.30E-03	0.00E+00	1.59E-03	4.30E-03	0.00E+00	2.59E-04	6.50E-04	0.00E+00	1.35E-04	2.48E-04	0.00E+00
202	599564.5	4176202	0.001499	4.04E-03	0.00E+00	1.50E-03	4.04E-03	0.00E+00	2.44E-04	6.11E-04	0.00E+00	1.27E-04	2.33E-04	0.00E+00
203	599478.1	4176196	0.002957	7.97E-03	0.00E+00	2.96E-03	7.97E-03	0.00E+00	4.81E-04	1.21E-03	0.00E+00	2.51E-04	4.60E-04	0.00E+00
204	599487.5	4176198	0.003041	8.20E-03	0.00E+00	3.04E-03	8.20E-03	0.00E+00	4.95E-04	1.24E-03	0.00E+00	2.58E-04	4.72E-04	0.00E+00
205	599496.9	4176199	0.003053	8.23E-03	0.00E+00	3.05E-03	8.23E-03	0.00E+00	4.97E-04	1.24E-03	0.00E+00	2.59E-04	4.74E-04	0.00E+00
206	599506.3	4176201	0.003026	8.16E-03	0.00E+00	3.03E-03	8.16E-03	0.00E+00	4.92E-04	1.23E-03	0.00E+00	2.57E-04	4.70E-04	0.00E+00
207	599515.7	4176203	0.002642	7.12E-03	0.00E+00	2.64E-03	7.12E-03	0.00E+00	4.30E-04	1.08E-03	0.00E+00	2.24E-04	4.11E-04	0.00E+00
208	599525.1	4176205	0.002274	6.13E-03	0.00E+00	2.27E-03	6.13E-03	0.00E+00	3.70E-04	9.27E-04	0.00E+00	1.93E-04	3.53E-04	0.00E+00
209	599534.5	4176206	0.001934	5.21E-03	0.00E+00	1.93E-03	5.21E-03	0.00E+00	3.15E-04	7.88E-04	0.00E+00	1.64E-04	3.01E-04	0.00E+00
210	599543.9	4176208	0.001683	4.54E-03	0.00E+00	1.68E-03	4.54E-03	0.00E+00	2.74E-04	6.86E-04	0.00E+00	1.43E-04	2.61E-04	0.00E+00
211	599553.3	4176210	0.001486	4.01E-03	0.00E+00	1.49E-03	4.01E-03	0.00E+00	2.42E-04	6.06E-04	0.00E+00	1.26E-04	2.31E-04	0.00E+00
212	599562.7	4176212	0.00135	3.64E-03	0.00E+00	1.35E-03	3.64E-03	0.00E+00	2.20E-04	5.50E-04	0.00E+00	1.15E-04	2.10E-04	0.00E+00
213	599476.3	4176206	0.00261	7.04E-03	0.00E+00	2.61E-03	7.04E-03	0.00E+00	4.25E-04	1.06E-03	0.00E+00	2.22E-04	4.06E-04	0.00E+00
214	599485.7	4176208	0.002699	7.28E-03	0.00E+00	2.70E-03	7.28E-03	0.00E+00	4.39E-04	1.10E-03	0.00E+00	2.29E-04	4.19E-04	0.00E+00
215	599495.1	4176209	0.00275	7.41E-03	0.00E+00	2.75E-03	7.41E-03	0.00E+00	4.47E-04	1.12E-03	0.00E+00	2.33E-04	4.27E-04	0.00E+00
216	599504.5	4176211	0.002776	7.48E-03	0.00E+00	2.78E-03	7.48E-03	0.00E+00	4.52E-04	1.13E-03	0.00E+00	2.36E-04	4.31E-04	0.00E+00
217	599513.9	4176213	0.002783	7.50E-03	0.00E+00	2.78E-03	7.50E-03	0.00E+00	4.53E-04	1.13E-03	0.00E+00	2.36E-04	4.33E-04	0.00E+00
218	599523.3	4176214	0.002364	6.37E-03	0.00E+00	2.36E-03	6.37E-03	0.00E+00	3.85E-04	9.64E-04	0.00E+00	2.01E-04	3.67E-04	0.00E+00
219	599532.7	4176216	0.00204	5.50E-03	0.00E+00	2.04E-03	5.50E-03	0.00E+00	3.32E-04	8.32E-04	0.00E+00	1.73E-04	3.17E-04	0.00E+00
220	599542.1	4176218	0.001746	4.71E-03	0.00E+00	1.75E-03	4.71E-03	0.00E+00	2.84E-04	7.12E-04	0.00E+00	1.48E-04	2.71E-04	0.00E+00
221	599551.5	4176220	0.001448	3.91E-03	0.00E+00	1.45E-03	3.91E-03	0.00E+00	2.36E-04	5.90E-04	0.00E+00	1.23E-04	2.25E-04	0.00E+00
222	599560.9	4176221	0.001245	3.36E-03	0.00E+00	1.25E-03	3.36E-03	0.00E+00	2.03E-04	5.08E-04	0.00E+00	1.06E-04	1.94E-04	0.00E+00
223	599474.5	4176216	0.002319	6.25E-03	0.00E+00	2.32E-03	6.25E-03	0.00E+00	3.77E-04	9.45E-04	0.00E+00	1.97E-04	3.60E-04	0.00E+00
224	599483.9	4176217	0.002404	6.48E-03	0.00E+00	2.40E-03	6.48E-03	0.00E+00	3.91E-04	9.80E-04	0.00E+00	2.04E-04	3.74E-04	0.00E+00
225	599493.3	4176219	0.002469	6.66E-03	0.00E+00	2.47E-03	6.66E-03	0.00E+00	4.02E-04	1.01E-03	0.00E+00	2.10E-04	3.84E-04	0.00E+00
226	599502.7	4176221	0.002521	6.80E-03	0.00E+00	2.52E-03	6.80E-03	0.00E+00	4.10E-04	1.03E-03	0.00E+00	2.14E-04	3.92E-04	0.00E+00
227	599512.1	4176223	0.002563	6.91E-03	0.00E+00	2.56E-03	6.91E-03	0.00E+00	4.17E-04	1.04E-03	0.00E+00	2.18E-04	3.98E-04	0.00E+00
228	599521.5	4176224	0.0025	6.74E-03	0.00E+00	2.50E-03	6.74E-03	0.00E+00	4.07E-04	1.02E-03	0.00E+00	2.12E-04	3.88E-04	0.00E+00
229	599530.9	4176226	0.002112	5.69E-03	0.00E+00	2.11E-03	5.69E-03	0.00E+00	3.44E-04	8.61E-04	0.00E+00	1.79E-04	3.28E-04	0.00E+00
230	599540.3	4176228	0.001741	4.70E-03	0.00E+00	1.74E-03	4.70E-03	0.00E+00	2.83E-04	7.10E-04	0.00E+00	1.48E-04	2.71E-04	0.00E+00
231	599549.7	4176229	0.001373	3.70E-03	0.00E+00	1.37E-03	3.70E-03	0.00E+00	2.23E-04	5.60E-04	0.00E+00	1.17E-04	2.13E-04	0.00E+00
232	599559.1	4176231	0.001138	3.07E-03	0.00E+00	1.14E-03	3.07E-03	0.00E+00	1.85E-04	4.64E-04	0.00E+00	9.66E-05	1.77E-04	0.00E+00
233	599472.6	4176226	0.002074	5.59E-03	0.00E+00	2.07E-03	5.59E-03	0.00E+00	3.37E-04	8.46E-04	0.00E+00	1.76E-04	3.22E-04	0.00E+00
234	599482	4176227	0.002149	5.79E-03	0.00E+00	2.15E-03	5.79E-03	0.00E+00	3.50E-04	8.76E-04	0.00E+00	1.82E-04	3.34E-04	0.00E+00
235	599491.4	4176229	0.002208	5.95E-03	0.00E+00	2.21E-03	5.95E-03	0.00E+00	3.59E-04	9.00E-04	0.00E+00	1.87E-04	3.43E-04	0.00E+00
236	599500.8	4176231	0.002244	6.05E-03	0.00E+00	2.24E-03	6.05E-03	0.00E+00	3.65E-04	9.15E-04	0.00E+00	1.91E-04	3.49E-04	0.00E+00
237	599510.2	4176232	0.002251	6.07E-03	0.00E+00	2.25E-03	6.07E-03	0.00E+00	3.66E-04	9.18E-04	0.00E+00	1.91E-04	3.50E-04	0.00E+00
238	599519.6	4176234	0.002014	5.43E-03	0.00E+00	2.01E-03	5.43E-03	0.00E+00	3.28E-04	8.21E-04	0.00E+00	1.71E-04	3.13E-04	0.00E+00
239	599529	4176236	0.0017	4.58E-03	0.00E+00	1.70E-03	4.58E-03	0.00E+00	2.77E-04	6.93E-04	0.00E+00	1.44E-04	2.64E-04	0.00E+00
240	599538.4	4176238	0.001383	3.73E-03	0.00E+00	1.38E-03	3.73E-03	0.00E+00	2.25E-04	5.64E-04	0.00E+00	1.17E-04	2.15E-04	0.00E+00
241	599547.8	4176239	0.001143	3.08E-03	0.00E+00	1.14E-03	3.08E-03	0.00E+00	1.86E-04	4.66E-04	0.00E+00	9.71E-05	1.78E-04	0.00E+00
242	599557.2	4176241	0.001005	2.71E-03	0.00E+00	1.01E-03	2.71E-03	0.00E+00	1.64E-04	4.10E-04	0.00E+00	8.54E-05	1.56E-04	0.00E+00
243	599480.2	4176237	0.001927	5.20E-03	0.00E+00	1.93E-03	5.20E-03	0.00E+00	3.14E-04	7.86E-04	0.00E+00	1.64E-04	2.99E-04	0.00E+00
244	599489.6	4176239	0.00197	5.31E-03	0.00E+00	1.97E-03	5.31E-03	0.00E+00	3.20E-04	8.03E-04	0.00E+00	1.67E-04	3.06E-04	0.00E+00
245	599499	4176241	0.001978	5.33E-03	0.00E+00	1.98E-03	5.33E-03	0.00E+00	3.22E-04	8.06E-04	0.00E+00	1.68E-04	3.07E-04	0.00E+00
246	599508.4	4176242	0.001947	5.25E-03	0.00E+00	1.95E-03	5.25E-03	0.00E+00	3.17E-04	7.94E-04	0.00E+00	1.65E-04	3.03E-04	0.00E+00
247	599517.8	4176244	0.001661	4.48E-03	0.00E+00	1.66E-03	4.48E-03	0.00E+00	2.70E-04	6.77E-04	0.00E+00	1.41E-04	2.58E-04	0.00E+00
248	599527.2	4176246	0.001368	3.69E-03	0.00E+00	1.37E-03	3.69E-03	0.00E+00	2.22E-04	5.58E-04	0.00E+00	1.16E-04	2.13E-04	0.00E+00
249	599536.6	4176247	0.001106	2.98E-03	0.00E+00	1.11E-03	2.98E-03	0.00E+00	1.80E-04	4.51E-04	0.00E+00	9.39E-05	1.72E-04	0.00E+00
250	599546	4176249	0.000939	2.53E-03	0.00E+00	9.39E-04	2.53E-03	0.00E+00	1.53E-04	3.83E-04	0.00E+00	7.98E-05	1.46E-04	0.00E+00
251	599555.4	4176251	0.000877	2.36E-03	0.00E+00	8.77E-04	2.36E-03	0.00E+00	1.43E-04	3.57E-04	0.00E+00	7.44E-05	1.36E-04	0.00E+00
252	599478.4	4176247	0.001739	4.69E-03	0.00E+00	1.74E-03	4.69E-03	0.00E+00	2.83E-04	7.09E-04	0.00E+00	1.48E-04	2.70E-04	0.00E+00
253	599487.8	4176249	0.001772	4.78E-03	0.00E+00	1.77E-03	4.78E-03	0.00E+00	2.88E-04	7.23E-04	0.00E+00	1.50E-04	2.75E-04	0.00E+00
254	599497.2	4176250	0.001757	4.74E-03	0.00E+00	1.76E-03	4.74E-03	0.00E+00	2.86E-04	7.16E-04	0.00E+00	1.49E-04	2.73E-04	0.00E+00
255	599506.6	4176252	0.001573	4.24E-03	0.00E+00	1.57E-03	4.24E-03	0.00E+00	2.56E-04	6.41E-04	0.00E+00	1.34E-04	2.44E-04	0.00E+00
256	599516	4176254	0.001364	3.68E-03	0.00E+00	1.36E-03	3.68E-03	0.00E+00	2.22E-04	5.56E-04	0.00E+00	1.16E-04	2.12E-04	0.00E+00
257	599476.6	4176257	0.001577	4.25E-03	0.00E+00	1.58E-03	4.25E-03	0.00E+00	2.57E-04	6.43E-04	0.00E+00	1.34E-04	2.45E-04	0.00E+00
258	599486	4176259	0.001602	4.32E-03	0.00E+00	1.60E-03	4.32E-03	0.00E+00	2.61E-04	6.53E-04	0.00E+00	1.36E-04	2.49E-04	0.00E+00
259	599495.4	4176260	0.001561	4.21E-03	0.00E+00	1.56E-03	4.21E-03	0.00E+00	2.54E-04	6.37E-04	0.00E+00	1.33E-04	2.43E-04	0.00E+00
260	599504.8	4176262	0.001314	3.54E-03	0.00E+00	1.31E-03	3.54E-03	0.00E+00	2.14E-04	5.36E-04	0.00E+00	1.12E-04	2.04E-04	0.00E+00
261	599474.8	4176267	0.001422	3.83E-03	0.00E+00	1.42E-03	3.83E-03	0.00E+00	2.31E-04	5.80E-04	0.00E+00	1.21E-04	2.21E-04	0.00E+00
262	599484.2	4176268	0.001439	3.88E-03	0.00E+00	1.44E-03	3.88E-03	0.00E+00	2.34E-04	5.86E-04	0.00E+00	1.22E-04	2.24E-04	0.00E+00
263	599493.6	4176270	0.001279	3.45E-03	0.00E+00	1.28E-03	3.45E-03	0.00E+00	2.08E-04	5.22E-04	0.00E+00	1.09E-04	1.99E-04	0.00E+00

			UnMitigated	T2	T2L3	T4
			2.84E-01	2.84E-01	4.62E-02	2.41E-02
			Yr 1	Yr 1	Yr 1	Yr 1
1	599586.7	4176135	1.21E-01	1.21E-01	1.97E-02	1.03E-02
2	599596	4176136	1.14E-01	1.14E-01	1.86E-02	9.72E-03
3	599605.3	4176138	1.13E-01	1.13E-01	1.83E-02	9.57E-03
4	599614.6	4176139	1.03E-01	1.03E-01	1.67E-02	8.73E-03
5	599623.9	4176141	9.41E-02	9.41E-02	1.53E-02	7.99E-03
6	599633.2	4176142	8.64E-02	8.64E-02	1.41E-02	7.34E-03
7	599642.4	4176144	7.89E-02	7.89E-02	1.28E-02	6.70E-03
8	599651.7	4176145	7.22E-02	7.22E-02	1.18E-02	6.13E-03
9	599661	4176146	6.64E-02	6.64E-02	1.08E-02	5.64E-03
10	599670.3	4176148	6.08E-02	6.08E-02	9.88E-03	5.16E-03
11	599679.6	4176149	5.56E-02	5.56E-02	9.05E-03	4.72E-03
12	599688.9	4176151	4.86E-02	4.86E-02	7.91E-03	4.13E-03
13	599698.2	4176152	4.45E-02	4.45E-02	7.24E-03	3.78E-03
14	599707.5	4176154	4.09E-02	4.09E-02	6.66E-03	3.48E-03
15	599585.1	4176144	8.49E-02	8.49E-02	1.38E-02	7.21E-03
16	599594.4	4176146	8.14E-02	8.14E-02	1.32E-02	6.92E-03
17	599603.7	4176147	7.75E-02	7.75E-02	1.26E-02	6.58E-03
18	599613	4176149	7.39E-02	7.39E-02	1.20E-02	6.27E-03
19	599622.3	4176150	7.05E-02	7.05E-02	1.15E-02	5.98E-03
20	599631.6	4176152	6.72E-02	6.72E-02	1.09E-02	5.70E-03
21	599640.9	4176153	6.26E-02	6.26E-02	1.02E-02	5.32E-03
22	599650.2	4176155	5.80E-02	5.80E-02	9.44E-03	4.93E-03
23	599659.5	4176156	5.39E-02	5.39E-02	8.77E-03	4.58E-03
24	599668.7	4176158	4.96E-02	4.96E-02	8.07E-03	4.21E-03
25	599678	4176159	4.54E-02	4.54E-02	7.38E-03	3.85E-03
26	599687.3	4176161	4.16E-02	4.16E-02	6.77E-03	3.53E-03
27	599696.6	4176162	3.84E-02	3.84E-02	6.24E-03	3.26E-03
28	599705.9	4176164	3.55E-02	3.55E-02	5.77E-03	3.01E-03
29	599583.5	4176154	5.99E-02	5.99E-02	9.75E-03	5.09E-03
30	599592.8	4176156	5.74E-02	5.74E-02	9.33E-03	4.87E-03
31	599602.1	4176157	5.46E-02	5.46E-02	8.88E-03	4.64E-03
32	599611.4	4176159	5.32E-02	5.32E-02	8.65E-03	4.51E-03
33	599620.7	4176160	5.21E-02	5.21E-02	8.48E-03	4.43E-03
34	599630	4176162	5.12E-02	5.12E-02	8.32E-03	4.34E-03
35	599639.3	4176163	4.89E-02	4.89E-02	7.95E-03	4.15E-03
36	599648.6	4176165	4.59E-02	4.59E-02	7.47E-03	3.90E-03
37	599657.9	4176166	4.31E-02	4.31E-02	7.02E-03	3.66E-03
38	599667.2	4176168	4.01E-02	4.01E-02	6.53E-03	3.41E-03
39	599676.5	4176169	3.70E-02	3.70E-02	6.02E-03	3.14E-03
40	599685.7	4176171	3.42E-02	3.42E-02	5.57E-03	2.91E-03
41	599695	4176172	3.17E-02	3.17E-02	5.16E-03	2.69E-03
42	599704.3	4176174	2.94E-02	2.94E-02	4.78E-03	2.50E-03
43	599582	4176164	4.42E-02	4.42E-02	7.19E-03	3.75E-03
44	599591.3	4176166	4.21E-02	4.21E-02	6.84E-03	3.57E-03

45	599600.5	4176167	3.97E-02	3.97E-02	6.45E-03	3.37E-03
46	599609.8	4176169	3.83E-02	3.83E-02	6.23E-03	3.25E-03
47	599619.1	4176170	3.75E-02	3.75E-02	6.10E-03	3.19E-03
48	599628.4	4176172	3.68E-02	3.68E-02	5.98E-03	3.12E-03
49	599637.7	4176173	3.55E-02	3.55E-02	5.78E-03	3.02E-03
50	599647	4176175	3.39E-02	3.39E-02	5.51E-03	2.88E-03
51	599656.3	4176176	3.24E-02	3.24E-02	5.28E-03	2.75E-03
52	599665.6	4176178	3.10E-02	3.10E-02	5.05E-03	2.63E-03
53	599674.9	4176179	2.90E-02	2.90E-02	4.72E-03	2.46E-03
54	599684.2	4176181	2.72E-02	2.72E-02	4.43E-03	2.31E-03
55	599693.5	4176182	2.56E-02	2.56E-02	4.17E-03	2.18E-03
56	599702.8	4176184	2.39E-02	2.39E-02	3.88E-03	2.03E-03
57	599580.4	4176174	3.40E-02	3.40E-02	5.53E-03	2.89E-03
58	599589.7	4176176	3.22E-02	3.22E-02	5.23E-03	2.73E-03
59	599599	4176177	3.01E-02	3.01E-02	4.90E-03	2.56E-03
60	599608.3	4176179	2.86E-02	2.86E-02	4.65E-03	2.43E-03
61	599617.6	4176180	2.77E-02	2.77E-02	4.51E-03	2.35E-03
62	599626.8	4176182	2.69E-02	2.69E-02	4.37E-03	2.28E-03
63	599636.1	4176183	2.61E-02	2.61E-02	4.24E-03	2.21E-03
64	599645.4	4176185	2.52E-02	2.52E-02	4.11E-03	2.14E-03
65	599654.7	4176186	2.46E-02	2.46E-02	4.00E-03	2.09E-03
66	599664	4176187	2.40E-02	2.40E-02	3.91E-03	2.04E-03
67	599673.3	4176189	2.28E-02	2.28E-02	3.71E-03	1.94E-03
68	599682.6	4176190	2.17E-02	2.17E-02	3.53E-03	1.84E-03
69	599691.9	4176192	2.07E-02	2.07E-02	3.37E-03	1.76E-03
70	599701.2	4176193	1.95E-02	1.95E-02	3.17E-03	1.65E-03
71	599578.8	4176184	2.70E-02	2.70E-02	4.40E-03	2.29E-03
72	599588.1	4176185	2.56E-02	2.56E-02	4.17E-03	2.18E-03
73	599597.4	4176187	2.40E-02	2.40E-02	3.91E-03	2.04E-03
74	599606.7	4176188	2.27E-02	2.27E-02	3.69E-03	1.92E-03
75	599616	4176190	2.18E-02	2.18E-02	3.55E-03	1.85E-03
76	599625.3	4176191	2.10E-02	2.10E-02	3.42E-03	1.79E-03
77	599634.6	4176193	2.03E-02	2.03E-02	3.30E-03	1.72E-03
78	599643.8	4176194	1.98E-02	1.98E-02	3.21E-03	1.68E-03
79	599653.1	4176196	1.93E-02	1.93E-02	3.15E-03	1.64E-03
80	599662.4	4176197	1.91E-02	1.91E-02	3.10E-03	1.62E-03
81	599671.7	4176199	1.83E-02	1.83E-02	2.98E-03	1.56E-03
82	599681	4176200	1.76E-02	1.76E-02	2.86E-03	1.49E-03
83	599577.2	4176194	2.19E-02	2.19E-02	3.56E-03	1.86E-03
84	599586.5	4176195	2.09E-02	2.09E-02	3.40E-03	1.78E-03
85	599595.8	4176197	1.99E-02	1.99E-02	3.23E-03	1.69E-03
86	599605.1	4176198	1.89E-02	1.89E-02	3.07E-03	1.60E-03
87	599614.4	4176200	1.83E-02	1.83E-02	2.98E-03	1.55E-03
88	599623.7	4176201	1.77E-02	1.77E-02	2.87E-03	1.50E-03
89	599633	4176203	1.70E-02	1.70E-02	2.76E-03	1.44E-03
90	599642.3	4176204	1.65E-02	1.65E-02	2.69E-03	1.40E-03
91	599651.6	4176206	1.61E-02	1.61E-02	2.62E-03	1.37E-03

92	599575.7	4176204	1.89E-02	1.89E-02	3.07E-03	1.60E-03
93	599584.9	4176205	1.83E-02	1.83E-02	2.98E-03	1.56E-03
94	599594.2	4176207	1.76E-02	1.76E-02	2.86E-03	1.49E-03
95	599603.5	4176208	1.67E-02	1.67E-02	2.71E-03	1.42E-03
96	599612.8	4176210	1.61E-02	1.61E-02	2.62E-03	1.37E-03
97	599622.1	4176211	1.54E-02	1.54E-02	2.51E-03	1.31E-03
98	599574.1	4176214	1.66E-02	1.66E-02	2.69E-03	1.41E-03
99	599583.4	4176215	1.62E-02	1.62E-02	2.63E-03	1.37E-03
100	599592.7	4176217	1.56E-02	1.56E-02	2.53E-03	1.32E-03
101	599601.9	4176218	1.48E-02	1.48E-02	2.41E-03	1.26E-03
102	599611.2	4176220	1.42E-02	1.42E-02	2.32E-03	1.21E-03
103	599572.5	4176223	1.47E-02	1.47E-02	2.39E-03	1.25E-03
104	599581.8	4176225	1.43E-02	1.43E-02	2.32E-03	1.21E-03
105	599591.1	4176226	1.38E-02	1.38E-02	2.25E-03	1.18E-03
106	599600.4	4176228	1.33E-02	1.33E-02	2.16E-03	1.13E-03
107	599570.9	4176233	1.34E-02	1.34E-02	2.19E-03	1.14E-03
108	599580.2	4176235	1.30E-02	1.30E-02	2.11E-03	1.10E-03
109	599589.5	4176236	1.26E-02	1.26E-02	2.06E-03	1.07E-03
110	599598.8	4176238	1.22E-02	1.22E-02	1.98E-03	1.04E-03
111	599569.3	4176243	1.23E-02	1.23E-02	2.01E-03	1.05E-03
112	599578.6	4176245	1.19E-02	1.19E-02	1.94E-03	1.01E-03
113	599587.9	4176246	1.16E-02	1.16E-02	1.89E-03	9.84E-04
114	599567.8	4176253	1.13E-02	1.13E-02	1.84E-03	9.61E-04
115	599577.1	4176255	1.11E-02	1.11E-02	1.80E-03	9.40E-04
116	599483.1	4176116	2.19E-01	2.19E-01	3.57E-02	1.86E-02
117	599492.5	4176117	0.2448668	2.45E-01	3.98E-02	2.08E-02
118	599501.9	4176119	0.269787	2.70E-01	4.39E-02	2.29E-02
119	599511.3	4176121	0.2840474	2.84E-01	4.62E-02	2.41E-02
120	599520.7	4176123	0.2827251	2.83E-01	4.60E-02	2.40E-02
121	599530.1	4176124	0.2638521	2.64E-01	4.29E-02	2.24E-02
122	599539.5	4176126	0.2031314	2.03E-01	3.30E-02	1.72E-02
123	599548.9	4176128	0.1768584	1.77E-01	2.88E-02	1.50E-02
124	599558.3	4176129	0.1597875	1.60E-01	2.60E-02	1.36E-02
125	599567.7	4176131	0.1423935	1.42E-01	2.32E-02	1.21E-02
126	599577.1	4176133	0.1290548	1.29E-01	2.10E-02	1.10E-02
127	599481.3	4176125	0.1522997	1.52E-01	2.48E-02	1.29E-02
128	599490.7	4176127	0.1648584	1.65E-01	2.68E-02	1.40E-02
129	599500.1	4176129	0.1771817	1.77E-01	2.88E-02	1.50E-02
130	599509.5	4176131	0.1833389	1.83E-01	2.98E-02	1.56E-02
131	599518.9	4176132	0.1788881	1.79E-01	2.91E-02	1.52E-02
132	599528.3	4176134	0.1423253	1.42E-01	2.32E-02	1.21E-02
133	599537.7	4176136	0.1194211	1.19E-01	1.94E-02	1.01E-02
134	599547.1	4176138	0.1072094	1.07E-01	1.74E-02	9.10E-03
135	599556.5	4176139	0.1033175	1.03E-01	1.68E-02	8.77E-03
136	599565.9	4176141	0.0961298	9.61E-02	1.56E-02	8.16E-03
137	599575.3	4176143	0.0885069	8.85E-02	1.44E-02	7.52E-03
138	599479.5	4176135	0.1135756	1.14E-01	1.85E-02	9.64E-03

139	599488.9	4176137	0.1202565	1.20E-01	1.96E-02	1.02E-02
140	599498.3	4176139	0.1263415	1.26E-01	2.06E-02	1.07E-02
141	599507.7	4176140	0.1296129	1.30E-01	2.11E-02	1.10E-02
142	599517.1	4176142	0.1144247	1.14E-01	1.86E-02	9.72E-03
143	599526.5	4176144	0.1008408	1.01E-01	1.64E-02	8.56E-03
144	599535.9	4176146	0.0867146	8.67E-02	1.41E-02	7.36E-03
145	599545.3	4176147	0.0764473	7.64E-02	1.24E-02	6.49E-03
146	599554.7	4176149	0.0738081	7.38E-02	1.20E-02	6.27E-03
147	599564.1	4176151	0.0689438	6.89E-02	1.12E-02	5.85E-03
148	599573.5	4176153	0.0627941	6.28E-02	1.02E-02	5.33E-03
149	599477.7	4176145	0.0891052	8.91E-02	1.45E-02	7.57E-03
150	599487.1	4176147	0.0935776	9.36E-02	1.52E-02	7.95E-03
151	599496.5	4176149	0.0970697	9.71E-02	1.58E-02	8.24E-03
152	599505.9	4176150	0.0989392	9.89E-02	1.61E-02	8.40E-03
153	599515.3	4176152	0.0877236	8.77E-02	1.43E-02	7.45E-03
154	599524.7	4176154	0.0765552	7.66E-02	1.25E-02	6.50E-03
155	599534.1	4176155	0.0654034	6.54E-02	1.06E-02	5.55E-03
156	599543.5	4176157	0.0565973	5.66E-02	9.21E-03	4.81E-03
157	599552.9	4176159	0.0546651	5.47E-02	8.89E-03	4.64E-03
158	599562.3	4176161	0.0512916	5.13E-02	8.34E-03	4.36E-03
159	599571.7	4176162	0.0470129	4.70E-02	7.65E-03	3.99E-03
160	599485.3	4176157	0.0757008	7.57E-02	1.23E-02	6.43E-03
161	599494.7	4176158	0.0778455	7.78E-02	1.27E-02	6.61E-03
162	599504.1	4176160	0.0786802	7.87E-02	1.28E-02	6.68E-03
163	599513.5	4176162	0.0700293	7.00E-02	1.14E-02	5.95E-03
164	599522.9	4176164	0.0603404	6.03E-02	9.82E-03	5.12E-03
165	599532.3	4176165	0.0508923	5.09E-02	8.28E-03	4.32E-03
166	599541.7	4176167	0.0441163	4.41E-02	7.18E-03	3.75E-03
167	599551.1	4176169	0.041851	4.19E-02	6.81E-03	3.55E-03
168	599560.5	4176170	0.039512	3.95E-02	6.43E-03	3.36E-03
169	599569.9	4176172	0.0365051	3.65E-02	5.94E-03	3.10E-03
170	599474.1	4176165	0.0601204	6.01E-02	9.78E-03	5.10E-03
171	599483.5	4176167	0.0629103	6.29E-02	1.02E-02	5.34E-03
172	599492.9	4176168	0.0643574	6.44E-02	1.05E-02	5.46E-03
173	599502.3	4176170	0.0646176	6.46E-02	1.05E-02	5.49E-03
174	599511.7	4176172	0.0572302	5.72E-02	9.31E-03	4.86E-03
175	599521.1	4176173	0.049586	4.96E-02	8.07E-03	4.21E-03
176	599530.5	4176175	0.0415531	4.16E-02	6.76E-03	3.53E-03
177	599539.9	4176177	0.0358439	3.58E-02	5.83E-03	3.04E-03
178	599549.3	4176179	0.033202	3.32E-02	5.40E-03	2.82E-03
179	599558.7	4176180	0.031279	3.13E-02	5.09E-03	2.66E-03
180	599568.1	4176182	0.0290851	2.91E-02	4.73E-03	2.47E-03
181	599472.3	4176175	0.0510411	5.10E-02	8.30E-03	4.33E-03
182	599481.7	4176176	0.0532037	5.32E-02	8.66E-03	4.52E-03
183	599491.1	4176178	0.0544574	5.45E-02	8.86E-03	4.62E-03
184	599500.5	4176180	0.0543698	5.44E-02	8.85E-03	4.62E-03
185	599509.9	4176182	0.0479902	4.80E-02	7.81E-03	4.07E-03

186	599519.3	4176183	0.0418113	4.18E-02	6.80E-03	3.55E-03
187	599528.7	4176185	0.0347171	3.47E-02	5.65E-03	2.95E-03
188	599538.1	4176187	0.0296422	2.96E-02	4.82E-03	2.52E-03
189	599547.5	4176188	0.026883	2.69E-02	4.37E-03	2.28E-03
190	599556.9	4176190	0.0251992	2.52E-02	4.10E-03	2.14E-03
191	599566.3	4176192	0.0235457	2.35E-02	3.83E-03	2.00E-03
192	599470.5	4176184	0.0440255	4.40E-02	7.16E-03	3.74E-03
193	599479.9	4176186	0.0457452	4.57E-02	7.44E-03	3.88E-03
194	599489.3	4176188	0.0468717	4.69E-02	7.63E-03	3.98E-03
195	599498.7	4176190	0.0466764	4.67E-02	7.59E-03	3.96E-03
196	599508.1	4176191	0.0412001	4.12E-02	6.70E-03	3.50E-03
197	599517.5	4176193	0.0360822	3.61E-02	5.87E-03	3.06E-03
198	599526.9	4176195	0.0295834	2.96E-02	4.81E-03	2.51E-03
199	599536.3	4176197	0.0252103	2.52E-02	4.10E-03	2.14E-03
200	599545.7	4176198	0.0229204	2.29E-02	3.73E-03	1.95E-03
201	599555.1	4176200	0.0214947	2.15E-02	3.50E-03	1.83E-03
202	599564.5	4176202	0.0202032	2.02E-02	3.29E-03	1.72E-03
203	599478.1	4176196	0.0398661	3.99E-02	6.49E-03	3.39E-03
204	599487.5	4176198	0.0409898	4.10E-02	6.67E-03	3.48E-03
205	599496.9	4176199	0.0411587	4.12E-02	6.70E-03	3.49E-03
206	599506.3	4176201	0.0407866	4.08E-02	6.64E-03	3.46E-03
207	599515.7	4176203	0.0356147	3.56E-02	5.79E-03	3.02E-03
208	599525.1	4176205	0.0306546	3.07E-02	4.99E-03	2.60E-03
209	599534.5	4176206	0.0260716	2.61E-02	4.24E-03	2.21E-03
210	599543.9	4176208	0.0226814	2.27E-02	3.69E-03	1.93E-03
211	599553.3	4176210	0.020036	2.00E-02	3.26E-03	1.70E-03
212	599562.7	4176212	0.0181925	1.82E-02	2.96E-03	1.54E-03
213	599476.3	4176206	0.03518	3.52E-02	5.72E-03	2.99E-03
214	599485.7	4176208	0.0363858	3.64E-02	5.92E-03	3.09E-03
215	599495.1	4176209	0.0370657	3.71E-02	6.03E-03	3.15E-03
216	599504.5	4176211	0.0374229	3.74E-02	6.09E-03	3.18E-03
217	599513.9	4176213	0.037522	3.75E-02	6.10E-03	3.19E-03
218	599523.3	4176214	0.0318682	3.19E-02	5.18E-03	2.71E-03
219	599532.7	4176216	0.0275021	2.75E-02	4.47E-03	2.34E-03
220	599542.1	4176218	0.0235375	2.35E-02	3.83E-03	2.00E-03
221	599551.5	4176220	0.019525	1.95E-02	3.18E-03	1.66E-03
222	599560.9	4176221	0.0167887	1.68E-02	2.73E-03	1.43E-03
223	599474.5	4176216	0.031263	3.13E-02	5.09E-03	2.65E-03
224	599483.9	4176217	0.0324058	3.24E-02	5.27E-03	2.75E-03
225	599493.3	4176219	0.0332812	3.33E-02	5.41E-03	2.83E-03
226	599502.7	4176221	0.0339805	3.40E-02	5.53E-03	2.89E-03
227	599512.1	4176223	0.0345502	3.46E-02	5.62E-03	2.93E-03
228	599521.5	4176224	0.033696	3.37E-02	5.48E-03	2.86E-03
229	599530.9	4176226	0.0284657	2.85E-02	4.63E-03	2.42E-03
230	599540.3	4176228	0.0234749	2.35E-02	3.82E-03	1.99E-03
231	599549.7	4176229	0.018502	1.85E-02	3.01E-03	1.57E-03
232	599559.1	4176231	0.0153381	1.53E-02	2.50E-03	1.30E-03

233	599472.6	4176226	0.0279585	2.80E-02	4.55E-03	2.37E-03
234	599482	4176227	0.0289697	2.90E-02	4.71E-03	2.46E-03
235	599491.4	4176229	0.0297664	2.98E-02	4.84E-03	2.53E-03
236	599500.8	4176231	0.0302517	3.03E-02	4.92E-03	2.57E-03
237	599510.2	4176232	0.0303422	3.03E-02	4.94E-03	2.58E-03
238	599519.6	4176234	0.0271455	2.71E-02	4.42E-03	2.30E-03
239	599529	4176236	0.0229124	2.29E-02	3.73E-03	1.95E-03
240	599538.4	4176238	0.0186398	1.86E-02	3.03E-03	1.58E-03
241	599547.8	4176239	0.0154136	1.54E-02	2.51E-03	1.31E-03
242	599557.2	4176241	0.0135512	1.36E-02	2.20E-03	1.15E-03
243	599480.2	4176237	0.0259828	2.60E-02	4.23E-03	2.21E-03
244	599489.6	4176239	0.0265559	2.66E-02	4.32E-03	2.25E-03
245	599499	4176241	0.0266576	2.67E-02	4.34E-03	2.26E-03
246	599508.4	4176242	0.0262464	2.62E-02	4.27E-03	2.23E-03
247	599517.8	4176244	0.0223947	2.24E-02	3.64E-03	1.90E-03
248	599527.2	4176246	0.0184358	1.84E-02	3.00E-03	1.57E-03
249	599536.6	4176247	0.0149122	1.49E-02	2.43E-03	1.27E-03
250	599546	4176249	0.0126648	1.27E-02	2.06E-03	1.08E-03
251	599555.4	4176251	0.011819	1.18E-02	1.92E-03	1.00E-03
252	599478.4	4176247	0.0234444	2.34E-02	3.81E-03	1.99E-03
253	599487.8	4176249	0.023893	2.39E-02	3.89E-03	2.03E-03
254	599497.2	4176250	0.0236864	2.37E-02	3.85E-03	2.01E-03
255	599506.6	4176252	0.021203	2.12E-02	3.45E-03	1.80E-03
256	599516	4176254	0.0183891	1.84E-02	2.99E-03	1.56E-03
257	599476.6	4176257	0.021258	2.13E-02	3.46E-03	1.81E-03
258	599486	4176259	0.0215912	2.16E-02	3.51E-03	1.83E-03
259	599495.4	4176260	0.0210473	2.10E-02	3.42E-03	1.79E-03
260	599504.8	4176262	0.017713	1.77E-02	2.88E-03	1.50E-03
261	599474.8	4176267	0.0191702	1.92E-02	3.12E-03	1.63E-03
262	599484.2	4176268	0.0193914	1.94E-02	3.15E-03	1.65E-03
263	599493.6	4176270	0.0172473	1.72E-02	2.81E-03	1.46E-03

Quarry Lane School Performing Arts Center
Mitigation Monitoring or Reporting Program

Date	August 9, 2023
Project Name	Quarry Lane School Performing Arts Center
Project Location	The project site is located at 6363 and 6237 Tassajara Road in eastern Dublin within the EDSP area (Assessor's Parcel Numbers [APNs]: 985-0072-002-00 and 985-0002-006-03). The proposed project is located just east of Tassajara Road and immediately to the south of the existing Quarry Lane School.
Project Applicant	Dr. Sabri Arac Quarry Lane School 3750 Boulder Street Pleasanton, CA 94566
State Clearinghouse Number	1991103064
Contact	Anne Hersch Assistant Community Development Department Director City of Dublin Community Development Department 100 Civic Plaza Dublin, CA 94568 Phone: 925-833-6617 anne.hersch@dublin.ca.gov

Mitigation Monitoring or Reporting Program

The California Environmental Quality Act (CEQA) requires that all public agencies establish monitoring and/or reporting procedures for mitigation measures (MMs) adopted as part of the project approval in order to mitigate or avoid significant project impacts.

The MMRP identifies the following for each MM:

Timing. In each case, a timeframe for performance of the mitigation measure, or review of evidence that mitigation has taken place, is provided. The measures are designed to ensure that impact-related components of Project implementation do not proceed without establishing that the mitigation is implemented or assured. All activities are subject to the approval of all required permits from local, State, and federal agencies with permitting authority over the specific activity.

Responsible Party or Designated Representative. In each case, unless otherwise indicated, the applicant is the Responsible Party for implementing the mitigation. The City or a Designated Representative will also monitor the performance and implementation of the mitigation measures. To guarantee that the mitigation measure will not be inadvertently overlooked, a supervising public official acting as the Designated Representative is the official who grants the permit or authorization called for in the performance. Where more than one official is identified, permits or authorization from all officials shall be required.

The numbering system corresponds with the numbering system used in the Final EIR. The last column of the MMRP table will be used by the parties responsible for documenting when implementation of the MM has been completed. The ongoing documentation and monitoring of mitigation compliance will be completed by the City of Dublin. The completed MMRP will be kept on file at the City of Dublin Community Development Department.

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Aesthetics				
Improvement Plan approval	Mitigation Measure 3.8/1.0. Ensure development proposals comply with design guidelines set forth in Chapter 7: Community Design of the specific Plan.	▪ City of Dublin		
Improvement Plan approval	Mitigation Measure 3.8/2.0 Ensure that development proposals emphasize retention of predominant natural features and preservation of a sense of openness.	▪ City of Dublin		
Improvement Plan approval	Mitigation Measure 3.8/3.0, Ensure that development proposals preserve the natural open beauty of the hills and other important visual resources on the site.	▪ City of Dublin		
Final map approval	Mitigation Measures 3.8/4.0 Review plans to ensure implementation of sensitive engineering design and revegetation.	▪ City of Dublin		
Before final grading plan approval	Mitigation Measure 3.8/4.1 Review plans to see that they minimize alteration of natural contours.	▪ City of Dublin		
Before final grading plan approval	Mitigation Measure 3.8/4.4 Review plans to ensure that graded slopes will be recontoured to blend into existing landforms in the immediate area.	▪ City of Dublin		
Before final grading plan approval	Mitigation Measure 3.8/4.5 Require that the height of cut and fill slopes be minimized.	▪ City of Dublin		
Improvement Plan approval	Mitigation Measure 3.8/5.1 Ensure that proposed development minimizes obstruction of scenic views.	▪ City of Dublin		
Improvement Plan approval	Mitigation Measure 3.8/6.0 Review plans to ensure that watercourses are protected from unnecessary alteration or disturbance, and that visual access to the stream corridors is maintained.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Improvement Plan approval	Mitigation Measures 3.8/7.0 Review plans to ensure that view corridors are maintained between developed and open space areas	▪ City of Dublin		
Improvement Plan approval	Mitigation Measure 3.8/8.1 Review visual analysis of projects with potential impacts on scenic corridors to ensure project conformance with visual quality objectives.	▪ City of Dublin		
Air Quality				
1) Prior to grading plan approval 2) Monitoring of implementation during construction	Mitigation Measures 3.11/1.0 1) Require dust abatement measures to be outlined as conditions in the grading plan, including the most current BAAQMD measures, as outlined in Initial Study. 2) Monitor implementation of measures during construction.	▪ City of Dublin		
Prior to approval of building and/or grading permits	Mitigation Measure 3.11/2.0 Routing and scheduling of construction-related traffic to avoid interference with non-project traffic movement.	▪ City of Dublin		
1) Prior to Implementation Plan approval 2) During construction	Mitigation Measure 3.11/3.0 1) Verify the incorporation of this emissions control measure in the conditions of approval. 2) Monitor construction to verify implementation of control measure.	▪ City of Dublin		
1) Preparation of plan prior to development review approval 2) Monitoring of implementation during construction	Mitigation Measure 3.11/4.0 Ensure that the construction impact reduction plan incorporate all proposed air quality mitigation strategies, and clearly defines responsibilities for implementation and supervision.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
On-going	Mitigation Measure 3.11/5.0 Coordinate interagency cooperation to integrate air quality planning with transportation, transit and other infrastructure plans.	▪ City of Dublin		
Implementation Plan approval	Mitigation Measure 3.11/6.0 Review plans to ensure consistency between specific development plans for the Project site and regional transportation and growth management plans.	▪ City of Dublin		
Implementation Plan approval	Mitigation Measure 3.11/7.0 Review plans for inclusion of TDM techniques to reduce mobile source emissions.	▪ City of Dublin		
On-going	Mitigation Measure 3.11/8.0 Work with LAVTA to develop public information programs to encourage use of public transit and encourage large employers to implement measures to shift travel to non-peak travel periods.	▪ City of Dublin		
Implementation Plan approval	Mitigation Measure 3.11/9.0 Phase roadway improvements so that they accommodate growth but avoid "over-building" facility improvements.	▪ City of Dublin		
Implementation Plan approval	Mitigation Measure 3.11/10.0 Encourage developers to consider mixed-use development in their projects as a means to reduce discretionary vehicle trips.	▪ City of Dublin		
On-going	Mitigation Measure 3.11/11.0 Keep Planning Commission and City Council aware of sub-regional jobs/housing status and the implications of project approvals on that balance.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.11/12.0 1) Establish and implement a conservation target level for stationary source emissions at 10 percent above the Title 24 standards. 2) Review individual projects to verify attempts to meet conservation target.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Prior to Implementation Plan approval	Mitigation Measure 3.11/13.0 Develop a strategy for integrating solid waste recycling into planning for all new development, and work with developers to implement this strategy.	▪ City of Dublin		
1) Prior to grading plan approval 2) During construction	Project-Specific MM AIR-1: During construction of the proposed project, the project contractor shall ensure all off-road diesel-powered construction equipment of 50 horsepower or more used for the project construction at a minimum meets the California Air Resources Board Tier 2 emissions standards equipped with Level 3 diesel particulate filters or the equivalent.	▪ City of Dublin		
Biological Resources				
Prior to Implementation Plan approval	Mitigation Measure 3.7/1.0 Review plans to verify that disturbance/removal of vegetation has been kept to a minimum.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.7/2.0 (Policy 6-23) Review plans to verify that project is consistent with vegetation/enhancement management plans for adjacent open space areas.	▪ City of Dublin		
Prior to approval of final grading plans	Mitigation Measure 3.7/3.0 Ensure that a revegetation/restoration plan is prepared for disturbed areas that will remain undeveloped.	▪ City of Dublin		
1) Prior to approval of final grading plans 2) Completion of revegetation	Mitigation Measure 3.7/5.0 1) Planning Department will ensure that revegetation plans include schedule for replanting. 2) Building Inspectors will ensure that revegetation occurs on schedule.	▪ City of Dublin		
Prior to approval of final grading plans	Mitigation Measure 3.7/6.0 Review plans to verify that natural stream corridors, ponds, springs, seeps and wetland areas have been preserved.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Prior to approval of final grading plans	Mitigation Measure 3.7/7.0 Review plans to verify that riparian and wetland areas have been preserved and incorporated into greenbelt and open space areas and any loss of riparian habitat has been replaced as requested by the CDFW.	▪ City of Dublin		
Prior to approval of final grading plans	Mitigation Measure 3.7/8.0 Review plans to verify that stream corridors have been revegetated with native plant species.	▪ City of Dublin		
Prior to approval of final grading plans	Mitigation Measure 3.7/9.0 Review plans to verify that open stream channels have been retained to carry stormwater runoff.	▪ City of Dublin		
Prior to approval of final grading plans	Mitigation Measure 3.7/10.0 Review plans to verify that stream corridors have been established to provide multi-purpose open space corridors capable of accommodating wildlife and pedestrian circulation.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.7/11.0 Review wetlands delineation, COE and CDFW determinations, any required permits, and approved mitigation plans for proposed alteration to any watercourse.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.7/14.0 Enactment and enforcement of a sedimentation control ordinance.	▪ City of Dublin		
COA of project approval	Mitigation Measure 3.7/16.0 Verify that land use proposals avoid and protect existing sensitive habitat areas.	▪ City of Dublin		
COA of project approval	Mitigation Measure 3.7/17.0 Require that construction near drainages take place only during the dry season.	▪ City of Dublin		
COA of project approval	Mitigation Measure 3.7/19.0 Monitor use of rodenticides/herbicides on Project site. Require any poisoning programs to be done in cooperation with and under supervision of the County Department of Agriculture.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Prior to approval of grading plans	Mitigation Measure 3.7/20.0 Review results of pre-construction surveys.	▪ City of Dublin		
Prior to approval of grading plans	Mitigation Measure 3.7/21.0 Review plans to ensure that sensitive habitat has been protected and enhanced through Mitigation Measures 3.7/2.0, 3.7/3.0, 3.7/6.0-3.7/18.0 inclusive	▪ City of Dublin		
COA of grading plans	Mitigation Measure 3.7/22.0 Maintenance of minimum buffer around California red-legged frog breeding sites identified during the pre-construction surveys.	▪ City of Dublin		
COA of grading plans	Mitigation Measure 3.7/23.0 Maintenance of natural open space zone around the golden eagle nest identified during the pre-construction survey.	▪ City of Dublin		
COA of grading plans	Mitigation Measure 3.7/24.0 During the golden eagle reproductive period (July-January) maintain a temporal buffer within 250 feet of the Golden Eagle Protection Zone	▪ City of Dublin		
Ongoing	Mitigation Measure 3.7/25.0 Partial mitigation for the loss of useable foraging habitat will be provided by MM 3.7 / 23 which establishes a Golden Eagle Protection Zone. Additional mitigation will be provided by the 571 .1 acres of Open Space and 2,672.3 acres of Rural Residential land use of the Project. Combined, the Golden Eagle Protection Zone and the 3,243.4 acres of land projected for open space protection or low intensity development would provide suitable foraging habitat	▪ City of Dublin		
Prior to approval of grading plans	Mitigation Measure 3.7/27.0 Maintenance of minimum buffer around known or identified nesting sites of the burrowing owl and breeding sites of the American badger during the breeding season to avoid direct loss of individuals (March – September).	▪ City of Dublin		
Cultural Resources				

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Prior to Final Map approval	Mitigation Measure 3.9/1.0 Require submittal of findings of subsurface testing (mechanical or hand) to determine the presence or absence of midden deposits.	▪ City of Dublin		
Prior to grading plan approval	Mitigation Measure 3.9/2.0 Record midden components or concentrations of cultural materials on State of California site survey forms.	▪ City of Dublin		
Prior to grading plan approval	Mitigation Measure 3.9/3.0 Review the findings of evaluative testing required for recorded and mapped locations that may be impacted by future construction or access.	▪ City of Dublin		
Prior to grading plan approval	Mitigation Measure 3.9/4.0 The City shall retain the services of a qualified archaeologist to develop a protection program for prehistoric and/or historic-period sites which contain either a surface or subsurface deposit of cultural materials or information which qualify under Appendix K of CEQA as "significant" and which are located in areas of the project site where development will significantly alter the current conditions of the ~~prehistoric~~ resource. An archaeologist (either an archaeologist who meets the Secretary of the Interior's Professional Qualifications Standards for Archaeology or an archaeologist supervised by such an archaeologist) shall monitor all ground-disturbing activities associated with project implementation in non-bedrock sediments, including clearing and grubbing activities. Archaeological monitoring shall occur on a full-time basis during these excavation activities until the Project Archaeologist, based on the archaeological monitor's observations, is satisfied that there is little likelihood of encountering intact archaeological deposits. The Project Archaeologist may also determine it is appropriate to reduce monitoring to spot-checking on a part-time basis.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
During grading /construction	Mitigation Measure 3.9/5.0 Cease grading/construction activities when historic or prehistoric resources are discovered. Retain a certified archaeologist to ascertain the significance of the remains.	▪ City of Dublin		
Prior to grading plan approval	Mitigation Measure 3.9/6.0 Prepare site sensitivity determination. If determined to be sensitive, require detailed research and field reconnaissance, and development of a mitigation plan as necessary.	▪ City of Dublin		
Prior to grading plan approval	Mitigation Measure 3.9/7.0 Review findings of in-depth archival research on any historic resources potentially impacted by future development.	▪ City of Dublin		
Energy				
Prior to building permit approval	Mitigation Measure 3.4/46.0 Preparation of an Energy Conservation Plan. "To require developers to demonstrate the incorporation of energy conservation measures into the design, construction, and operation of proposed development." Review plan to ensure compliance with this measure.	▪ City of Dublin		
Geology and Soils				
Prior to final improvement plan/grading plan approval	Mitigation Measure 3.6/1.0 Review plans to ensure conformance to UBC and all other applicable codes.	▪ City of Dublin		
Prior to the issuance of grading/building permits	Mitigation Measure 3.6 /2.0 Verify that improvements have been located away from unstable landforms; that potentially unstable landforms have been stabilized; and that development plans conform to UBC and all other applicable codes.	▪ City of Dublin		
Prior to issuance of grading permits	Mitigation Measure 3.6 /4.0 Require engineered retention structures, surface and subsurface drainage improvements.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Prior to issuance of grading permits	Mitigation Measure 3.6 /5.0 Require fills be properly designed with keyways and subsurface drainage, and adequately compacted (i.e., minimum 90 percent relative compaction as defined by the American Society for Testing and Materials (ASTM) test method D1557).	▪ City of Dublin		
Prior to issuance of grading permits	Mitigation Measure 3.6/6.0 Verify the effectiveness of improvements to ensure the stability of proposed roads, structural foundations, and underground utilities.	▪ City of Dublin		
Prior to issuance of grading permits	Mitigation Measure 3.6 /7.0 Confirm receipt of geotechnical investigations (i.e. stability analysis of significant slopes and displacement analysis of critical slopes) in conjunction with final design of improvements.	▪ City of Dublin		
Prior to issuance of grading permits	Mitigation Measure 3.6 /14.0 Confirm the preparation of geotechnical investigations to characterize site specific soils and rock conditions, and the development of appropriate design solutions.	▪ City of Dublin		
Prior to building permit issuance	Mitigation Measure 3.6 /15.0 Verify the appropriate application of moisture conditioning. If construction of surface and subsurface drainage to control infiltration; lime treatment.	▪ City of Dublin		
Prior to issuance of grading permits	Mitigation Measure 3.6/16.0 Verify that structural foundations have been located below the zone of seasonal moisture change; the use structurally supported floors; the use of non-expansive fill beneath structure slabs and asphaltic concrete.	▪ City of Dublin		
Prior to issuance of grading permits	Mitigation Measure 3.6 /27.0 Review interim control measures to prevent runoff, control runoff velocity and trap silt for effectiveness.	▪ City of Dublin		
Prior to issuance of grading permits	Mitigation Measure 3.6 /28.0 Review adequacy of long-term control measures based upon recommendations. of geotechnical consultants.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Hydrology and Water Quality				
Prior to Implementation Plan approval	Mitigation Measure 3.5/44.0 Review drainage facilities design to verify that erosion/flooding potential will be minimized.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/45.0 Review required channel improvements for their attempt to maintain natural-appearing conditions while addressing the drainage requirements.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/46.0 Preparation of Storm Drainage Master Plan.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/47.0 Provision of flood control improvements	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/49.0 Oversight of facilities to protect and enhance water quality.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/50.0 Support Zone 7 groundwater recharge program, by encouraging recharge areas within the Project area where feasible.	▪ City of Dublin		
Noise and Vibration				
Prior to final map approval	Mitigation Measure 3.10/1.0 Verify the preparation of an acoustical study for all residential projects located within the future CNEL 60 noise contour and confirm the incorporation of mitigation measures into the proposed plan.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Prior to Implementation Plan approval	Mitigation Measure 3.10/2.0 Verify that proposed plans provide noise abatement for existing residences or that such mitigation is not necessary.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.10/3.0 Verify that acoustical studies have been prepared for projects proposed in identified subareas, and incorporate recommended mitigations as conditions of project approval.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.10/4.0 Review Construction Noise Management Program to ensure that adequate measures have been taken to protect existing residents.	▪ City of Dublin		
During construction	Mitigation Measure 3.10/5.0 Ensure that noise mitigation measures have been included as conditions of project approval.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.10/6.0 Verify the preparation of a noise management plan for mixed-used projects, and review plans for mitigation that should be incorporated as a condition.	▪ City of Dublin		
Prior to issuance of grading plan approval/monitoring during construction	Project-Specific MM-NOI-1: Review plans to ensure that vibration measures are incorporated and implemented during construction. Review vibration monitoring and contingency plan.	▪ City of Dublin		
Public Services				

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Annually as part of the Police Department's planning and budgetary process	Mitigation Measure 3.4/1.0 1) Police Department will hire and train new sworn and civilian staff, revise "beat" system to serve eastern Dublin, and estimate and schedule projected facility needs in eastern Dublin. 2) Planning Department to notify Police Department of development approvals to assist the Police Department in its annual budget formulation.	▪ City of Dublin		
Ongoing	Mitigation Measure 3.4/2.0 Notification to the Police Department of the timing of annexation and approved development	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.4/3.0 Police Department review of proposed development plans for safety issues and provide the Planning Department with recommendations for inclusion in the final plans.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.4/5.0 Police Department review of proposed development plans for safety issues.	▪ City of Dublin		
Construction of fire station(s) will occur concurrently with new service demand not addressed by other agreements	Mitigation Measure 3.4/7.0 Establish funding mechanism for capital improvements.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.4/9.0 Review of proposed developments by DRFA for fire safety. Incorporation of DRFA recommendations into project conditions by Planning Department.	▪ City of Dublin		
Ongoing	Mitigation Measure 3.4/17.0 Ensure that new development fully mitigates the impact of such growth on school facilities.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Prior to Implementation Plan approval	Mitigation Measure 3.4/29.0 Review each development proposal against the Specific Plan/GPA to ensure that designated park and open space is set aside.	▪ City of Dublin		
Payment at time of Implementation Plan approval	Mitigation Measure 3.4/31.0 Assessment of In-Lieu Park Fees.	▪ City of Dublin		
Transportation and Traffic				
Prior to occupancy	Mitigation Measure 3.3/2.0 Require compliance with BAAQMD *Regulation 13 Transportation Control Measures Rule 1* to satisfaction of BAAQMD or City of Dublin (Public Works Department)	▪ City of Dublin		
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/2.1 Proportionate monetary contribution to regional transportation mitigation programs as approved by the City of Dublin.	▪ City of Dublin		
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/3.0 Payment of a regionally-assessed fee for construction of auxiliary lanes on I-580 between Tassajara Road and Airway Boulevard.	▪ City of Dublin		
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/4.0 Payment of a regionally-assessed fee for planned improvements at the I-580 /I-680 interchange and the associated mitigation on adjacent local streets.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/5.0 1) Proportionate monetary contribution to regional transportation mitigation programs as approved by the City of Dublin. 2) City coordination with other local jurisdictions to require that all future development projects participate in regional transportation mitigation programs.	▪ City of Dublin		
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/6.0 1) Payment of fees towards the construction of additional lanes at the intersection of Dougherty Road and Dublin Boulevard. 2) Monitoring of the need for intersection improvements and coordination of their construction.	▪ City of Dublin		
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/7.0 1) Payment of fee towards widening that will prevent congestion on the eastbound offramps from I-580 at Hacienda Drive 2) Coordination of improvement with Caltrans and the City of Pleasanton.	▪ City of Dublin		
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/8.0 1) Payment of fee to fund design and construction of improvements, including widening of the 1-580 westbound off-ramp and modification of northbound approach to provide additional turn and through lanes. 2) Monitoring of service levels and coordination of construction.	▪ City of Dublin		
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/9.0 1) Payment of fee to fund design and construction of improvements; including widening of I-580 eastbound off-ramps. 2) Monitoring of service levels and coordination of construction.	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/11.0 1) Payment of fee to fund design and construction of improvements; including the widening or replacement of the Airway Blvd. overcrossing and the widening of the I-580 westbound off-ramp.	▪ City of Dublin		
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/12.0 1) Payment of fees to fund design and construction of necessary improvements. 2) Monitoring of service levels and coordination of improvements with Caltrans and the City of Pleasanton Department of Public Works.	▪ City of Dublin		
Payments shall be made prior to issuance of building permits	Mitigation Measure 3.3/15.2 Payment of fees or construction of capital improvements to support extension of transit service.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.3/16.1 Locate pedestrian and bicycle paths so that their crossings of major arterial streets coincide with signalized street intersections, providing a signalized pedestrian and bicycle crossing of the major street	▪ City of Dublin		
Utilities and Service Systems				
Prior to Final Map approval	Mitigation Measure 3.5/1.0 Require connection to public sewers	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/4.0 Confirm receipt of a "will-serve" letter for all proposed projects.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/5.0 Confirm that wastewater system meet DSRSD standards	▪ City of Dublin		

Timing	Project Design Feature / Condition of Approval / Mitigation Measure	Responsible for Approval / Monitoring / Implementation	Completion	
			Date	Initials
Prior to Implementation Plan approval	Mitigation Measure 3.5/25.0 Encourage all developments in the Specific Plan and Project to connect to the DSRSD water system	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/26.0 (Program 9A). Ensure water conservation measures are included as conditions of project approval.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/27.0 (Program 9B). Ensure water recycling measures are included as conditions of project approval.	▪ City of Dublin		
Prior to Implementation Plan approval	Mitigation Measure 3.5/37.0 (Program 9E). Require that design and construction of all water system facility improvements be in accordance with DSRSD standards.	▪ City of Dublin		
Prior to issuance of a grading permit	Mitigation Measure 3.5/38.0 (Program 9G). Require a "will-serve" letter from DSRSD prior to grading permit approval.	▪ City of Dublin		
Wildfire				
Prior to Implementation Plan approval	Mitigation Measure 3.4/9.0 Review of proposed developments by DRFA for fire safety. Incorporation of DRFA recommendations into project conditions by Planning Department.	▪ City of Dublin		

5480182.2

ORDINANCE NO. xx – 23

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF DUBLIN

AMENDING THE ZONING MAP AND APPROVING AN AMENDED PLANNED DEVELOPMENT ZONING DISTRICT AND RELATED STAGE 1 AND STAGE 2 DEVELOPMENT PLANS FOR THE QUARRY LANE SCHOOL PLPA-2021-00041 (APNS 985-0072-002-00 AND 985-0002-006-03)

The Dublin City Council does ordain as follows:

SECTION 1: RECITALS

A. The Applicant, Dr. Sabri Arac, is requesting an amendment to the Planned Development Zoning and related Stage 1 and Stage 2 Development Plans for the property located at 6237 and 6363 Tassajara Road. The proposed Project would expand the campus to include a new performing arts center on the Quarry Lane School. Requested approvals include a Planned Development Rezone with a related Stage 1 and Stage 2 Development Plan. These planning and implementing actions are collectively known as the "Quarry Lane Performing Arts Center Project" or the "Project."

B. The 12.63-acre Project site (APN 985-0072-002-00 and 985-0002-006-03) is located in eastern Dublin, at 6237 and 6363 Tassajara Road.

C. The existing General Plan and Eastern Dublin Specific Plan land use designations are Medium-Density Residential.

D. On December 19, 2000, the City Council approved the Planned Development (PD) District Pre-zoning and Annexation application (PA-99-064) and adopted a Mitigated Negative Declaration (Resolution No. 204-00) for Phase II of the Quarry Lane School and a PD Pre-zone for the Kobold Property (Ordinance No. 24-00).

E. On June 17, 2014, the City Council adopted an Ordinance (No. 12-14) to amend the Zoning Map for PD Zoning District rezone and related Stage 1 and 2 Development Plan Amendments for the Quarry Lane School Phase III expansion and adopted an Initial Study and a CEQA Addendum (Resolution No. 18-14). Ordinance No. 12-14 replaced Ordinance No. 24-00 except as it pertained to the Kobold Property (APN 985-0072-002-00).

F. The Project area was previously analyzed in the Eastern Dublin General Plan Amendment and Specific Plan, which was adopted in 1993 and has a certified Program EIR (SCH No. 91-103064) and analyzed in the Quarry Lane Master Plan, which was adopted in 1998 by the County of Alameda and has a certified EIR (SCH No. 97122109).

G. The City prepared a Supplemental Mitigated Negative Declaration for the Project,

which reflected the City's independent judgment and analysis of the potential environmental impacts of the Project. Prior CEQA analysis for the Project area includes: the Eastern Dublin General Plan Amendment and Specific Plan, which was adopted in 1993 and has a certified Program EIR (SCH No. 91-103064) and analyzed in the Quarry Lane Master Plan, which was adopted in 1998 by the County of Alameda and has a certified EIR (SCH No. 97122109)

H. Upon completion of the Initial Study, it was determined that there were new potentially significant impacts associated with the project related to noise and air quality and therefore a Supplemental Mitigated Negative Declaration was prepared to analyze those impacts and identify mitigation measures to reduce the impacts to less than significant.

I. The Supplemental Mitigated Negative Declaration/Initial Study was circulated for public review from July 5, 2023-August 4, 2023.

J. The City received one comment letter during the public review period.

K. The Planning Commission held a properly noticed public hearing on the Project, on September 12, 2023, at which time all interested parties had the opportunity to be heard.

L. On September 12, 2023, the Planning Commission adopted Resolution No. 23-08 recommending that the City Council adopt the Supplemental Mitigated Negative Declaration and approve amendments to the Planned Development Zoning and related Stage 1 and Stage 2 Development Plans, a Conditional Use Permit and Site Development Review Permit, which resolution is incorporated herein by reference and available for review at City Hall during normal business hours.

M. On October 3, 2023, the City Council held a properly noticed public hearing on the project and the Supplemental Mitigated Negative Declaration at which time all interested parties had the opportunity to be heard.

N. A Staff Report dated October 3, 2023, and incorporated herein by reference, described and analyzed the project, including the amendment to the Planned Development Zoning District, Site Development Review Permit, and Supplemental Mitigated Negative Declaration for the City Council.

O. The City Council considered the Supplemental Mitigated Negative Declaration and all above-referenced reports, recommendations, and testimony before taking any action on the Project.

P. The City Council did hear and use independent judgment and considered all said reports, recommendations, and testimony hereinabove set forth.

Q. Following a public hearing on September 12, 2023, the Planning Commission adopted Resolution No. 23-08, recommending approval of the Supplemental Mitigated Negative Declaration and the Quarry Lane Performing Arts Center Project.

R. The City Council considered the Supplemental Mitigated Negative Declaration, and all above referenced reports, recommendations, and testimony prior to taking action on the Project.

SECTION 2: FINDINGS

A. Pursuant to Section 8.32.070 the Dublin Municipal Code, the City Council finds as follows:

1. The Quarry Lane Performing Arts Center Project ("the Project") Planned Development zoning meets the purpose and intent of Chapter 8.32 in that it provides a comprehensive development plan that is consistent with the General Plan and protects the integrity and character of the area by creating a desirable use of land that is sensitive to surrounding land uses by virtue of the layout and design of the site plan. The Project is planned comprehensively and will follow development standards tailored to the specific needs of the site. These standards will address issues such as building setbacks, architecture, landscaping and grading. The proposed development will blend with the natural features unique to the site through the use of design and planning.

2. Development of the Project under the Planned Development zoning will be harmonious and compatible with existing residential and semi-public development in the surrounding area in that the site will provide a dedicated performing arts space on an existing school campus.

B. Pursuant to Sections 8.120.050.A and B of the Dublin Municipal Code, the City Council finds as follows:

1. The Planned Development zoning for the Project will be harmonious and compatible with existing and potential development in the surrounding area in that the proposed site plan has taken into account existing site development and uses and will provide a new performing arts center.

2. The Project site conditions were documented in the Eastern Dublin General Plan Amendment and Specific Plan EIR (1993), Eastern Dublin General Plan Amendment and Specific Plan, which was adopted in 1993 and has a certified Program EIR (SCH No. 91-103064) and analyzed in the Quarry Lane Master Plan, which was adopted in 1998 by the County of Alameda and has a certified EIR (SCH No. 97122109) and the Supplemental Mitigated Negative Declaration that was prepared, and the environmental impacts that have been identified will be mitigated to the greatest degree possible.

3. The Planned Development zoning is consistent with the General Plan policies and the City's Zoning Ordinance enacted for the public health, safety and welfare. The Project will not adversely affect the health or safety of persons residing or working in the vicinity nor will it be detrimental to public health, safety or welfare. The Project will comply with all applicable development regulations and standards and will implement all adopted mitigation measures. Additionally, no noxious odors, hazardous materials, or excessive noises will be produced.

4. The Planned Development zoning is consistent with and in conformance with the Dublin General Plan land use designation of Medium Density which allows for private school uses.

SECTION 3. ZONING MAP AMENDMENT

Pursuant to Chapter 8.32, Title 8 of the City of Dublin Municipal Code the City of Dublin Zoning Map is amended to Rezone the property described below to a Planned Development zoning district and supersedes and replaces the previously adopted Planned Development Zoning Ordinance No. 12-14 and Ordinance 24-00:

12.63 acres at 6327 and 6363 Tassajara Road. APN 985-0072-002-00 and 985-0002-006-03

("The Property"). A map of the rezoning area is shown below:



SECTION 4. APPROVAL OF STAGE 1 AND STAGE 2 DEVELOPMENT PLAN

The regulations for the use, development, improvement, and maintenance of the Property are set forth in the following Stage 1 and Stage 2 Development Plan for the 12.63 acre property, which is hereby approved. Any amendments to the Stage 1 and Stage 2 Development Plan shall be in accordance with Section 8.32.080 of the Dublin Municipal Code (DMC) or its successors.

Stage 1 and Stage 2 Development Plan

This is a Stage 1 and Stage 2 Development Plan pursuant to DMC Chapter 8.32. This Development Plan meets all the requirements for both a Stage 1 and Stage 2 Development Plan and is adopted as part of the Planned Development Rezone for the Quarry Lane Performing Arts Center Project (PLPA-2021-00041).

The Planned Development zoning district and this Stage 1 and Stage 2 Development Plan provides flexibility to encourage innovative development while ensuring that the goals, policies, and action programs of the General Plan and provisions of DMC Chapter 8.32 are satisfied.

1. Zoning. The Zoning for the subject property is PD-Planned Development (PLPA-2014-00008).

2. Statement of Permitted Uses.

Permitted Uses (as defined by the Zoning Ordinance):
Private School:

1. Kindergarten through high school grades
2. After school care
3. Recreational play fields
4. Similar and related uses as determined by the Director of Community Development

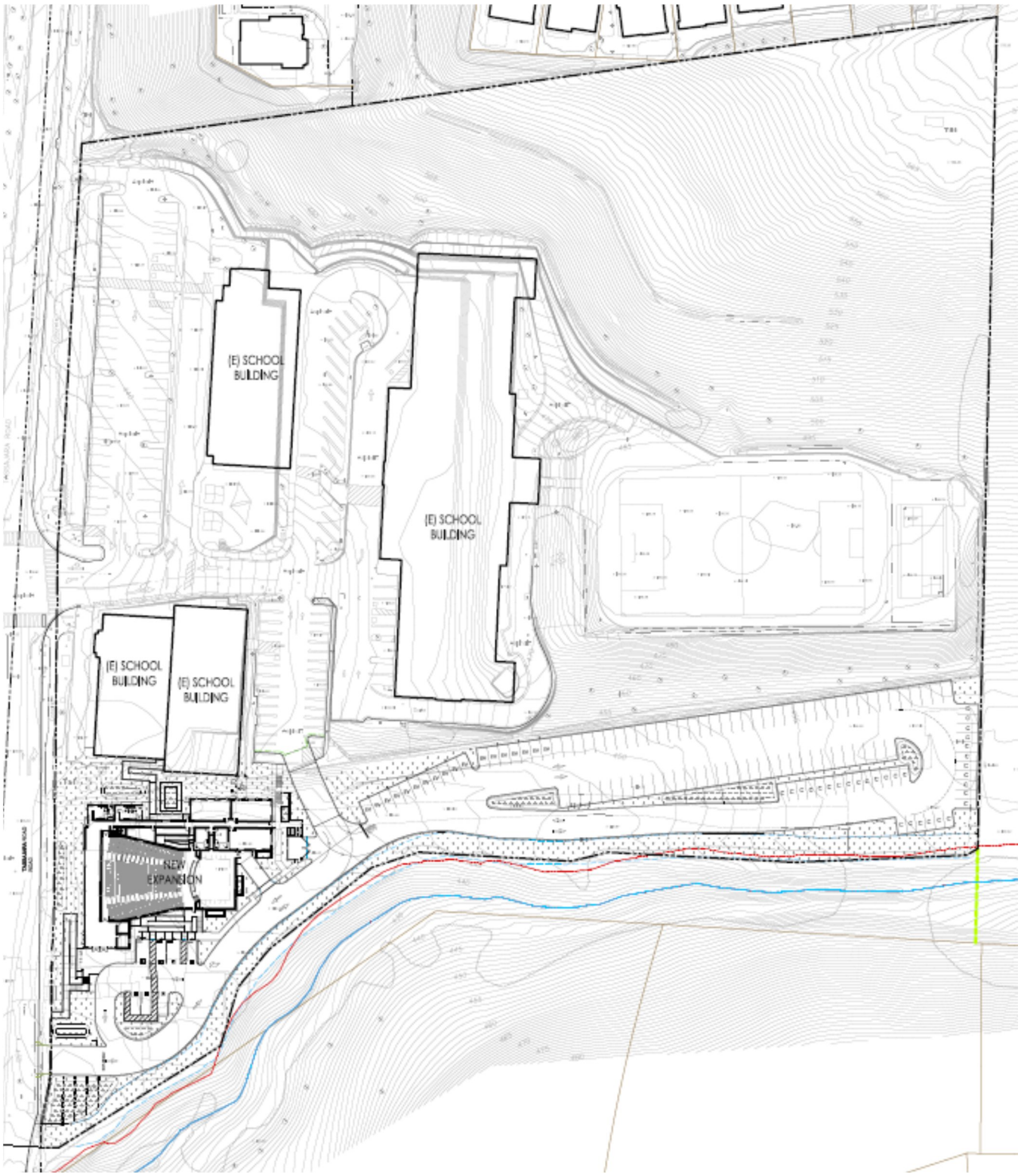
Conditional Uses:

1. A performing arts center for school programs
2. All conditional uses in the Dublin Zoning Ordinance for the R-1 Residential Zoning District are conditionally allowed uses in this Planned Development Zoning District.

Prohibited Uses:

1. All those not specifically listed herein as permitted or conditionally permitted.

3. Stage 1 and Stage 2 Site Plan.



4. Site Area, Proposed Densities, and Development Regulations.

Maximum Student Population	950 students (200 Preschool and Kindergarten, 600 Elementary and Middle School, 150 High School)
Maximum Faculty and Staff	55
No. of Classrooms	51
Maximum Building Area	124,402 square feet
Floor to Area Ratio	.226
Parking Spaces	149 spaces (minimum required per parking analysis conducted in 2004) + 117 for the performing arts center
Maximum Building Height:	59 feet
Minimum Lot Size	None
Maximum lot coverage	25%
Parking Stall Dimensions Standards	Per Chapter 8.76 Off-Street Parking And Loading Regulations of the Dublin Zoning Ordinance
Minimum Setbacks	20' front yard setback 9'8" side yard setback 20' rear yard setback

5. Phasing Plan. The project site will be developed in one phase.

6. Preliminary Landscape Plan. As shown in the Site Development Review approvals for the various project phases and the Performing Arts Center (PLPA 99-064, PLPA-2014-0008, PLPA-2021-00041).

7. Architectural Standards. The design of future buildings on the project site shall be architecturally compatible with the existing Building 2 (Preschool and Elementary School) and Building 3 (Middle and High School Building) including the standing seam metal roof with decorative eave corbels and a simple cement plaster finish painted to match the existing buildings. The window design and placement on future buildings will also be complementary to the other buildings on the school campus.

8. Consistency with General Plan and any applicable Specific Plan. The proposed project is consistent with the General Plan and Eastern Dublin Specific Plan.

9. Inclusionary Zoning Regulations. The Inclusionary Zoning Regulations do not regulate non-residential projects, so therefore this is not applicable.

10. Aerial Photo. An aerial photo is on file with the Community Development Department.

11. Applicable Requirements of Dublin Zoning Ordinance. Except as specifically provided in this Stage 1/2 Development Plan, the use, development, improvement and maintenance of the property shall be governed by the R-1 (Single Family Residential Zoning District) provisions of the Dublin Zoning Ordinance pursuant to Section 8.32.060.C. No development shall occur on this property until a Site Development Review permit has been approved for the property.

12. **Compliance with adopted Mitigation Measures.** The Applicant/Developer shall comply with all applicable action programs and mitigation measures of the Eastern Dublin Specific Plan and General Plan Amendment EIR, the Quarry Lane EIR, the Quarry Lane School Phase II expansion Mitigated Negative Declaration, the Quarry Lane School Phase III CEQA Addendum, and the Supplemental Mitigated Negative Declaration prepared for the Performing Arts Center Project.

SECTION 5. SEVERABILITY

The provisions of this Ordinance are severable and if any provision, clause, sentence, word or part thereof is held illegal, invalid, unconstitutional, or inapplicable to any person or circumstances, such illegality, invalidity, unconstitutionality, or inapplicability shall not affect or impair any of the remaining provisions, clauses, sentences, sections, words or parts thereof of the ordinance or their applicability to other persons or circumstances.

SECTION 6. POSTING OF ORDINANCE

The City Clerk of the City of Dublin shall cause this Ordinance to be posted in at least three (3) public places in the City of Dublin in accordance with Section 36933 of the Government Code of the State of California.

SECTION 7. EFFECTIVE DATE

This ordinance shall take effect and be enforced thirty (30) days following its adoption.

PASSED AND ADOPTED BY the City Council of the City of Dublin, on this ___ day of 2023, by the following votes:

AYES:

NOES:

ABSENT:

ABSTAIN:

_____
Mayor

ATTEST:

_____
City Clerk

RESOLUTION NO. XX – 23

**A RESOLUTION OF THE CITY COUNCIL
OF THE CITY OF DUBLIN**

**APPROVING A CONDITIONAL USE PERMIT AND SITE DEVELOPMENT REVIEW PERMIT FOR A NEW PERFORMING ARTS CENTER AT THE QUARRY LANE SCHOOL
6237 & 6363 TASSAJARA ROAD
(APNS 985-0072-002-00 AND 985-0002-006-03)
PLPA-2021-00041**

WHEREAS, the Applicant, Dr. Sabri Arac of Quarry Lane School (School), has requested approval of a Site Development Review Permit and a Conditional Use Permit to construct and operate a 13,800 square foot performing arts center, 126 parking spaces, and related site and landscape improvements on the southern 2.6-acre portion of the school property acquired by the School in 2020 (formerly known as the Kobold Property), and to amend the Planned Development Zoning District and related Stage 1 and 2 Development Plan to incorporate the southern 2.6-acres and allow development of the performing arts center. These planning and implementing actions are collectively known as the "Project"; and

WHEREAS, the project site is 12.63 acres located at 6237 and 6363 Tassajara Road (APNS 985-0072-002-00 AND 985-0002-006-03); and

WHEREAS, the existing General Plan and Eastern Dublin Specific Plan land use designations are Medium-Density Residential; and

WHEREAS, the Project site is located within Planned Development Zoning District Ordinance No. xx-23; and

WHEREAS, On December 19, 2000, the City Council approved the Planned Development (PD) District Pre-zoning and Annexation application (PA-99-064), and adopted a Mitigated Negative Declaration (Resolution No. 204-00) for Phase II of the Quarry Lane School and a PD Pre-zone for the Kobold Property (Ordinance No. 24-00); and

WHEREAS, On May 25, 2004, the Planning Commission approved Resolution No. 04-46, which included a minor amendment to the Stage 2 Development Plan and Site Development Review to construct Phase II of the Quarry Lane School, and the related CEQA Addendum; and

WHEREAS, On June 17, 2014, the City Council adopted an Ordinance (No. 12-14) to amend the Zoning Map for a PD Zoning District rezone and related Stage 1 and 2 Development Plan Amendments for the Quarry Lane School Phase III expansion and adopted an Initial Study and a CEQA Addendum (Resolution No. 18-14). Ordinance No. 12-14 replaced Ordinance No. 24-00 except as it pertained to the Kobold Property (APN 985-0072-002-00); and

WHEREAS, On March 31, 2022, a voluntary lot merger was recorded with the Alameda County Recorder (Application No. M-2022-001, Record No. 2022065678) to merge the Kobold Property at 6237 (Project site) with the Quarry Lane School site at 6363 Tassajara Road to create a single 12.6-acre parcel; and

WHEREAS, the California Environmental Quality Act (CEQA) together with State guidelines and Dublin's CEQA Guidelines and Procedures require that certain projects be reviewed for environmental impacts and when applicable, environmental documents prepared; and

WHEREAS, the Project area was previously analyzed in the Eastern Dublin General Plan Amendment (GPA) and Specific Plan (SP EIR), which was adopted in 1993 and has a certified Program EIR (SCH No. 91-103064) and analyzed in the Quarry Lane Master Plan, which was adopted in 1998 by the County of Alameda and has a certified EIR (SCH No. 97122109); and

WHEREAS, the City prepared an Initial Study to determine whether supplemental environmental review was required for the proposed Project under CEQA standards. The Initial Study examined whether there were substantial changes to the proposed development, substantial changes in circumstances, or new information, any of which would result in new or more severe significant impacts than previously analyzed in the 1993 GPA/SP EIR, or whether any standards for supplemental environmental review were met; and

WHEREAS, upon completion of the Initial Study, it was determined that there were new potentially significant impacts associated with the project related to noise and air quality and therefore a Supplemental Mitigated Negative Declaration was prepared to analyze those impacts and identify mitigation measures to reduce the impacts to less than significant; and

WHEREAS, the Supplemental Mitigated Negative Declaration/Initial Study was circulated for public review from July 5, 2023-August 4, 2023; and

WHEREAS, the City received one comment letter during the public review period; and

WHEREAS, a Staff Report, dated September 12, 2023, and incorporated herein by reference, described and analyzed the proposed Project, including the Planned Development Amendment with related Stage 1 and Stage 2 Development Plan, Site Development Review application and the Conditional Use Permit for the Performing Arts Center, for the Planning Commission; and

WHEREAS, the Planning Commission held a properly noticed public hearing on the Project on September 12, 2023, at which time all interested parties had the opportunity to be heard; and

WHEREAS, the Planning Commission did hear and use independent judgment and considered all said reports, recommendations, and testimony hereinabove set forth.

WHEREAS, on October 3, 2023, the City Council held a properly noticed public hearing on the project and the Supplemental Mitigated Negative Declaration at which time all interested parties had the opportunity to be heard; and

WHEREAS, a Staff Report, dated October 23, 2023, and incorporated herein by reference, described and analyzed the project, including the Planned Development Zoning Amendment, Conditional Use Permit, Site Development Review Permit, and Supplemental Mitigated Negative Declaration for the City Council; and

WHEREAS, on October 3, 2023, the City Council adopted Resolution xx-23 adopting the Supplemental Mitigated Negative Declaration and Mitigation and Monitoring Reporting Program for the project, and the City Council considered the Supplemental Mitigated Negative Declaration,

and all above-referenced reports, recommendations, and testimony before taking any action on the project; and

WHEREAS, the City Council did hear and use independent judgment and considered all said reports, recommendations, and testimony hereinabove set forth.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Dublin does hereby make the following findings and determinations regarding the Site Development Review Permit for the Quarry Lane Performing Arts Center Project:

A. *The proposal is consistent with the purposes of Chapter 8.104 (Site Development Review) of the Zoning Ordinance, with the General Plan, and any applicable Specific Plans and design guidelines because*: the colors and materials of the new building will match those of existing buildings on campus, including the standing seam metal roof and a stucco finish painted to match the existing buildings. The window design and placement will also compliment the other buildings on the school campus to create a unified aesthetic.

B. *The proposal is consistent with the provisions of Title 8, Zoning Ordinance because:* 1) the architecture and landscape design for the new building are well-suited to the proposed use; 2) the overall design of the project is consistent with the design requirements of the Stage 1 and Stage 2 Development Plan for the Quarry Lane School; 3) the proposed project is consistent with the General Plan and Eastern Dublin Specific Plan land use designation of Medium Density Residential and a school is permitted within this land use; and 4) the proposed project meets the intent of the Dublin General Plan, which discourages projects that do not relate well to the surrounding developments and the proposed project is compatible with the surrounding neighborhood that is primarily residential uses. The Quarry Lane School has existed in the location since the late 1990's and the Project is an expansion of the existing campus facilities.

C. *The design of the project is appropriate to the City, the vicinity, surrounding properties, and the lot(s) in which the project is proposed because:* 1) the architecture and landscape design for the new building are well-suited to the proposed use and integrated into the overall campus design; 2) the overall design of the project is consistent with the design requirements of the Stage 1 and Stage 2 Development Plan for the Quarry Lane School; 3) the proposed project is consistent with the General Plan and Eastern Dublin Specific Plan land use designation of Medium Density Residential in that a private school is considered a community facility, a use that can be permitted in any zoning district with approval of a Conditional Use Permit; 4) the proposed project meets the intent of the Dublin General Plan, which discourages projects that do not relate well to the surrounding developments and the proposed project is compatible with the surrounding neighborhood that is primarily residential uses; and 5) the overall intensity of use of the site is not proposed to increase in that the maximum student population and other similar factors are not proposed to increase.

D. *The subject site is suitable for the type and intensity of the approved development because:* 1) the project site has been home to Quarry Lane School since the late 1990's and the use is proposed to continue; and 2) although the amount of developable building area is proposed to increase, the intensity of use of the site is not proposed to change in that the proposed Performing Arts Center is intended to serve the existing student population and will not increase the total maximum student population, the maximum number of faculty

and staff members; and 3) access to the site and circulation are designed to minimize impacts to Tassajara Road.

E. *Impacts to existing slopes and topographic features are addressed because*: 1) the Project site is currently developed with a single-family home and associated outbuildings; 2) the site is relatively flat and will not have significant impacts to the existing topographic features; 3) the roadway and utility infrastructure to serve the site already exists; 4) future approval of grading and improvement plans will enable the site to be modified to suit the project, which will be developed for the site in accordance with City policies and regulations; and 5) the project complies with the Planned Development Zoning District established for the site pursuant to provisions and policies of the Eastern Dublin Specific Plan, including the Tassajara Road Scenic Corridor Policy.

F. *Architectural considerations including the character, scale and quality of the design, site layout, the architectural relationship with the site and other buildings, screening of unsightly uses, lighting, building materials and colors and similar elements result in a project that is harmonious with its surroundings and compatible with other developments in the vicinity because:* the colors and materials of the new building will match those of the Buildings 2 and 3, including the standing seam metal roof with decorative eave corbels and a simple cement plaster finish painted to match the existing buildings. The window design and placement will also complement the other buildings on the school campus.

G. *Landscape considerations, including the location, type, size, color, texture and coverage of plant materials, and similar elements have been incorporated into the project to ensure visual relief, adequate screening and an attractive environment for the public because:* 1) the new perimeter landscape and hardscape will be consistent with the existing school campus to create a cohesive overall design; 2) the proposed landscape buffer along Tassajara Road will include a variety of trees, shrubs, flowering perennials, and grasses will be provided around the building and in the parking lot; and 3) the Project will conform to the requirements of the City's Water Efficient Landscape Ordinance.

H. *The site has been adequately designed to ensure the proper circulation for bicyclist, pedestrians, and automobiles because:* 1) new site infrastructure includes driveways, pathways, sidewalks, and site lighting designed to create an interconnection between the existing campus facility and the new building and parking lot, including pedestrian and vehicular connections pathways that lead to the new building; 2) a new driveway from Tassajara Road will circulate one-way into the southern campus and exit through the signalized driveway at the intersection of Quarry Lane School and Tassajara Road and will circulate to the one-way, right turn only exit at the northernmost section of the campus; and 3) the proposed roadway and site frontage improvements has been designed in coordination with the City as part of the Tassajara Road widening and improvement project that is currently underway, including a dedication of frontage to accommodate the road widening project.

BE IT FURTHER RESOLVED that the City of Dublin Planning Commission does hereby make the following findings and determinations regarding the Conditional Use Permit:

A. *The proposed use and related structures are compatible with other land uses, transportation and service facilities in the vicinity in that:* 1) the Project is an expansion of an existing school that has been in operation since the late 1990's; 2) the proposed Performing Arts Center will provide a dedicated space for the school's existing performing

arts program but will not include any increase in total student enrollment or an expansion of existing school operations; 3) construction of the new performing arts center and associated site improvements have been designed to be compatible with the existing school buildings and site design; and 4) the Project site is accessible from an existing signalized driveway in the center of the campus and a one-way, right turn only exit to the north. In addition, the Project will include a new one-way driveway to enter the site from Tassajara Road on the southernmost side of the campus.

B. *The proposed use will not adversely affect the health or safety of persons residing or working in the vicinity, or be detrimental to the public health, safety and welfare in that:* 1) the Project will expand the existing school campus to include the acquisition of the adjacent parcel to the south but will not result in any increase in total student enrollment or an expansion of existing school operations; 2) adequate signage will be placed within the Project site to safely circulate vehicular traffic one-way through the new driveway from Tassajara Road to access to the new performing arts center and surface parking lot; 3) the Project has been designed to ensure continued compatibility with the surrounding uses.

C. *It will not be injurious to property or improvements in the neighborhood in that:* 1) the Project will include demolition of the existing structures on the site and construction of a new Performing Arts Center, surface parking lot and site landscaping, thus improving the neighborhood; 2) sufficient parking will be provided to meet the on-site parking requirements for the new Performing Arts Center; 3) The Performing Arts Center will serve the existing arts programs and will not increase to the maximum student enrollment or staff; and 4) the Project includes a right-of-way dedication as part of the City's road widening project on Tassajara Road.

D. *There are adequate provisions for public access, water sanitation, and public utilities and services to ensure that the proposed use and related structures would not be detrimental to the public health, safety and welfare in that:* 1) the Project is served by existing public roadways including Tassajara Road which is sized to accommodate the Project; and 2) the Project is served by existing public utilities and services including water and sanitation which are sized to accommodate the Project.

E. *The subject site is physically suitable for the type, density and intensity of the use and related structures being proposed in that:* 1) the Project is consistent with the General Plan and Eastern Dublin Specific Plan land use designation of Medium Density Residential which allows schools; 2) the Project will comply with the Planned Development Zoning Stage I and II Development Plan for the Quarry Lane School; and 3) the Project site is immediately adjacent to the existing school and has been purchased and merged to create a single site that can accommodate the expansion of the school campus that is suitable for the area and compatible with the surrounding residential uses.

F. *The proposed use will not be contrary to the specific intent clauses, development regulations, or performance standards established for the zoning district in which it is located in that:* 1) the Quarry Lane School has been in operation since the late 1990's and will continue as such; 2) the acquisition and development of the adjacent lot to the south will allow the school to provide improved facilities for its existing arts program; and 3) the physical improvements to the Project site have been designed to blend in with the existing campus to create one cohesive campus.

G. *The proposed use is consistent with the Dublin General Plan and with any applicable Specific Plans in that:* 1) the Project is consistent with the General Plan and Eastern Dublin Specific Plan land use designation of Medium Density Residential in that a private school is considered a community facility, a use that can be permitted in any zoning district with approval of a Conditional Use Permit; and 2) the Project will comply with the approved Stage I and 2 Development Plan for the Quarry Lane School.

CONDITIONS OF APPROVAL:

Unless stated otherwise, all Conditions of Approval shall be complied with prior to the issuance of building permits or establishment of use and shall be subject to Planning Department review and approval. The following codes represent those departments/agencies responsible for monitoring compliance of the conditions of approval. [PL.] Planning, [B] Building, [PO] Police, [PW] Public Works [P&CS] Parks & Community Services, [ADM] Administration/City Attorney, [FIN] Finance, [F] Alameda County Fire Department, [DSR] Dublin San Ramon Services District, [CO] Alameda County Department of Environmental Health, [Z7] Zone 7.

NO.	CONDITIONS OF APPROVAL	RESPON. AGENCY	When Required, Prior to:
1.	**Approval – Site Development Review Permit.** This Site Development Review (SDR) approval is for the Quarry Lane School Performing Arts Center (PLPA-2021-00041). This approval shall be as generally depicted and indicated on the plans prepared by BKBC Architects Inc. dated received by Dublin Planning on April 18, 2023, attached as **Exhibit A** and other plans, text and diagrams related to this approval, stamped approved and on file in the Community Development Department, except as modified by the following Conditions of Approval.	PL	Ongoing
2.	**Approval – Conditional Use Permit.** This Conditional Use Permit ("CUP" or "Permit") approval is to allow operation of a new performing arts facility at the Quarry Lane School (PLPA-2021-00041). This approval shall be as generally depicted and indicated on the site plan (DR-1.1) prepared by BKBC Architects Inc. included as part of the project plans April 18, 2023, attached as **Exhibit A,** and other plans including the Statement of Operations dated September 30, 2021, text, and diagrams relating to this CUP, unless modified by the Conditions of Approval contained herein.	PL	On-going
3.	**Effective Date.** This SDR and CUP approval is effective once the companion Planned Development Zoning District amendment has been approved by the City Council and is effective.	PL	On-going
4.	**Permit Expiration.** Construction or use shall commence within one (1) year of Permit	PL	1 year from approval

	approval or the Permit shall lapse and become null and void.		
5.	**Time Extension.** The Director of Community Development may, upon the Applicant's written request for an extension of approval prior to expiration, and upon the determination that any Conditions of Approval remain adequate to assure that applicable findings of approval will continue to be met, grant a time extension of approval for a period not to exceed 12 months. The Director of Community Development may grant a maximum of two extensions of approval, and additional extensions may be granted by the original decision maker.	PL	Prior to Expiration Date
6.	**Modifications.** The Community Development Director may consider modifications or changes to this Permit approval if the modifications or changes proposed comply with applicable sections of the Zoning Ordinance.	PL	On-going
7.	**Revocation of Permit.** The SDR/CUP Permit approvals shall be revocable for cause in accordance with Section 8.96.020.I of the Dublin Zoning Ordinance. Any violation of the terms or conditions of this permit shall be subject to citation.	PL	On-going
8.	**Requirements and Standard Conditions.** The Applicant/Developer shall comply with applicable City of Dublin Fire Prevention Bureau, Dublin Public Works Department, Dublin Building Department, Dublin Police Services, Alameda County Flood Control District Zone 7, Livermore Amador Valley Transit Authority, Alameda County Public and Environmental Health, Dublin San Ramon Services District and the California Department of Health Services requirements and standard conditions. Prior to issuance of building permits or the installation of any improvements related to this project, the Developer shall supply written statements from each such agency or department to the Planning Department, indicating that all applicable conditions required have been or will be met.	Various	Building Permit Issuance and Grading Permit Issuance
9.	**Fees.** Applicant/Developer shall pay all applicable fees in effect, including, but not limited to, Planning fees, Building fees, Dublin San Ramon Services District fees, Public Facilities fees, Dublin Unified School District School Impact fees (per agreement between Developer and School District), Fire Facilities Impact fees, Noise Mitigation fees, Inclusionary Housing In-Lieu fees, Alameda County Flood and Water Conservation District (Zone 7) Drainage and Water Connection fees; or any other fee that may be adopted and applicable.	Various	Building Permit Issuance

10.	**Indemnification.** Applicant shall defend, indemnify, and hold harmless the City of Dublin and its agents, officers, and employees from any claim, action, or proceeding against the City of Dublin or its agents, officers, or employees to attack, set aside, void, or annul an approval of the City of Dublin or its advisory agency, appeal board, Planning Commission, City Council, Community Development Director, Zoning Administrator, or any other department, committee, or agency of the City; provided, however, that the Applicant's duty to so defend, indemnify, and hold harmless shall be subject to the City's promptly notifying the Applicant of any said claim, action, or proceeding and the City's full cooperation in the defense of such actions or proceeding.	ADM	On-going
11.	**Clarifications to the Conditions of Approval.** In the event that there needs to be clarification to the Conditions of Approval, the Community Development Director and/or City Engineer has the authority to clarify the intent of these Conditions of Approval to the Applicant without going to a public hearing. The Community Development Director and/or City Engineer also has the authority to make minor modifications to these Conditions of Approval without going to a public hearing in order for the Applicant to fulfill needed improvements or mitigations resulting from impacts to this project.	PL	On-going
12.	**Controlling Activities.** The Applicant/Developer shall control all activities on the project site so as not to create a nuisance to existing/surrounding businesses and/or residences.	PL	Through construction and on-going
13.	**Clean-up.** The Applicant/Developer shall be responsible for clean-up and disposal of project related trash to maintain a safe, clean, and litter-free site.	PL	Through construction
14.	**Property Maintenance.** The Applicant/Developer and property owner shall be responsible for maintaining the site in a clean and litter free condition during construction and through completion. Per the City of Dublin Non-Residential Property Maintenance Ordinance, DMC Section 5.64.050, the Applicant/ Property Owner shall maintain the building, site and all signage in good condition and shall keep the site clear of trash, debris and graffiti vandalism on a regular and continuous basis.	PL	On-going
15.	**Construction Trailer.** The Applicant/Developer shall obtain a Temporary Use Permit prior to the establishment of any construction trailer, storage shed, or container units on the Project site.	PL	Establishment of the Temporary Use

16.	**Equipment Screening.** All electrical equipment, fire risers, and/or mechanical equipment shall be screened from public view by landscaping and/or architectural features and electrical transformers shall be underground or architecturally screened. Any roof-mounted equipment shall be completely screened from adjacent street view by materials architecturally compatible with the building and to the satisfaction of the Community Development Director. The Building Permit plans shall show the location of all equipment and screening for review and approval by the Community Development Director.	PL	Building Permit Issuance
17.	**Outdoor Events.** Any outside events shall be subject to the Temporary Use Permit requirements contained in the City of Dublin Municipal Code, specifically Section 8.108.020.	PL	On-going
PLANNING DIVISION-LANDSCAPING			
18.	**Final Landscape and Irrigation Plan.** Plans shall comply with DMC Chapter 8.72 and be generally consistent with the project plans attached to this Resolution as **Exhibit A** Final Landscape and Irrigation Plan prepared and stamped by a State licensed landscape architect or registered engineer shall be submitted for review and approval by the Community Development Director.	PL	Building Permit Issuance
19.	**Water Efficient Landscaping Regulations.** The Applicant/Developer shall meet all requirements of the City of Dublin's Water-Efficient Landscaping Regulations contained in DMC Chapter 8.88 and submit written documentation to the Public Works Department (in the form of a Landscape Documentation Package and other required documents) that the development conforms to the City's Water Efficient Landscaping Ordinance.	PL	Building Permit Issuance
20.	**Landscape Edges.** Concrete curbs or bands shall be used at the edges of all planters and paving surfaces, unless otherwise defined differently. The design width and depth of the concrete edge shall be to the satisfaction of the Community Development Director and City Engineer.	PL	Building Permit Issuance
21.	**Maintenance of Landscape.** All landscape areas on the site shall be enhanced and properly maintained at all times. Any proposed or modified landscaping to the site, including the removal or replacement of trees, shall require prior review and written approval from the Community Development Director.	PL	On-going
PLANNING – PROJECT SPECIFIC – CONDITIONAL USE PERMIT			

22.	**Approval Period.** This Conditional Use Permit approval shall be null and void in the event the approved use fails to be established within one year or ceases to operate for a continuous one-year period.	PL	On-Going
23.	**Annual Review.** On an annual basis, this Conditional Use Permit approval may be subject to a review by the Community Development Director to determine compliance with the Conditions of Approval.	PL	On-Going
24.	**Use of the Performing Arts Center.** The Performing Arts Center may only be rented or otherwise used by school approved non-school entities according to the capacity, schedule, and any other limits of all applicable site conditions as allowed by the Zoning Ordinance.	PL	On-Going
25.	**Noise/Nuisances.** The operator shall control all activities so as not to create unusual or unnecessary noise which annoys or disturbs or injures or endangers the health, repose peace or safety of any reasonable person of normal sensitivity present in the area.	PL	On-going
26.	**Permanent and Temporary Signs.** All permanent and temporary signs shall conform to Chapter 8.84 of the Dublin Zoning Ordinance at all times.	PL	On-going
27.	**Property Maintenance.** The property owner and/or operator shall be responsible to maintain the site in a clean and litter free condition at all times.	PL	On-Going
28.	**Driveway Maintenance and Monitoring.** The Applicant shall monitor and maintain the driveway operations to ensure it operates as a right-in-only driveway.	PW	On-Going
29.	**Driveway Design.** The applicant shall work with Staff to ensure the new driveway is designed to facilitate right-in-only vehicle movements from Tassajara Road.	PL	Approval of Improvement Plans
SITE DEVELOPMENT REVIEW-GENERAL			
30.	**Public Art.** The Developer shall provide an on-site public art project or make a monetary contribution to the City in-lieu thereof in accordance with Chapter 8.58 of the Dublin Zoning Ordinance.	PL	DMC 8.58
31.	**Mitigation Monitoring Program.** The Developer shall comply with the Supplemental Mitigated Negative Declaration Mitigation Monitoring Program and subsequent environmental documents pertaining to this site including all mitigation measures, action programs, and implementation measures on file with the Community Development Department.	PL	Planning
32.	**Glare/Reflective Finishes.** The use of reflective finishes on building exteriors is prohibited. In order to control the effects of	PL	Planning

	glare, reflective glass is prohibited on all east-facing windows.		
33.	**Light and Glare.** All exterior building and site lighting fixtures shall be directed downwards and not onto adjacent properties; all light sources shall be shielded from direct off-site viewing.	PL	Planning
34.	**Photometric Plan.** The Applicant/Developer shall prepare a photometric plan to the satisfaction of the Directors of Public Works and Community Development. A minimum of one foot-candle of light shall be provided and maintained across the surface of all parking areas and walkways. Any illumination, including security lighting, shall be directed away from adjoining properties, businesses or vehicular traffic so as not to cause any glare.	PL	Planning
	BUILDING DIVISION		
35.	**Building Codes and Ordinances.** All project construction shall conform to all building codes and ordinances in effect at the time of building permit	B	Through Completion
36.	**Construction Drawings.** Construction plans shall be fully dimensioned (including building elevations) accurately drawn (depicting all existing and proposed conditions on site), and prepared and signed by a California licensed Architect or Engineer. All structural calculations shall be prepared and signed by a California licensed Architect or Engineer. The site plan, landscape plan and details shall be consistent with each other.	B	Issuance of Building Permits
37.	**Building Permits.** To apply for building permits, Applicant/Developer shall submit electronic drawings for plan check. An annotated copy of the Conditions of Approval shall be included with the submittal. <u>The notations shall clearly indicate how all Conditions of Approval will or have been complied with</u>. Construction plans will not be accepted without the annotated resolutions attached to each set of plans. Applicant/Developer will be responsible for obtaining the approvals of all participation non-City agencies prior to the issuance of building permits.	B	Issuance of Building Permits
38.	**As-Built Drawings.** All revisions made to the building plans during the project shall be incorporated into an "As Built" electronic file and submitted prior to the issuance of the final occupancy.	B	Occupancy
39.	**Addressing:** a) If you are not going to change the existing address, these comments apply.	B	Prior to Release of Addresses

	b) Address signage shall be provided as per the Dublin Commercial Security Code. c) Address will be required on all doors leading to the exterior of the building. Addresses shall be illuminated and be able to be seen from the street, 4 inches in height minimum.		Prior to Permitting Prior to Occupancy
40.	**Engineer Observation.** The Engineer of record shall be retained to provide observation services for all components of the lateral and vertical design of the building, including nailing, hold-downs, straps, shear, roof diaphragm and structural frame of building. A written report shall be submitted to the City Inspector prior to scheduling the final frame inspection	B	Prior to Scheduling Final Inspection
41.	**Foundation.** Geotechnical Engineer for the soils report shall review and approve the foundation design. A letter shall be submitted to the Building Division on the approval.	B	Prior to Permit Issuance
42.	**CASp Reports.** Applicant shall obtain the services of a Certified Access Specialist for the review of the construction drawings and inspections for the building interior and site exterior. A written report shall be submitted to the City prior to approval of the permit application. Additionally, a written report shall be submitted to the City Building Inspector prior to scheduling the final inspection	B	Prior to Permitting and Occupancy
43.	**Air Conditioning Units**. Air conditioning units and ventilation ducts shall be screened from public view with materials compatible to the main building. Units shall be permanently installed on concrete pads or other non-movable materials approved by the Chief Building Official and Director of Community Development.	B	Occupancy of Building
44.	**Plumbing Fixture Count.** The plumbing fixture count (e.g., water closets, lavatories, urinals, drinking fountains) shall meet the minimum requirements for the use as regulated by the CA Plumbing Code.	B	Prior to Permitting
45.	**Solar Zone – CA Energy Code.** Show the location of the Solar Zone on the site plan. Detail the orientation of the Solar Zone. This condition of approval will be waived if the project meets the exceptions provided in the CA Energy Code	B	Through Completion
46.	**Accessible Parking.** The required number of parking stalls, the design and location of the accessible parking stalls shall be as required by the CA Building Code, Chapter 11-B	B	Through Completion
47.	**Green Parking.** The design and number of clean air/ EV ready stalls shall be as required by the CA Green Building Standards Code	B	Through Completion

48.	**Accessory Structures.** Building permits are required for all trash enclosures and associated amenities / structures and are required to meet the accessibility and building codes	B	Through Completion
49.	**Temporary Fencing.** Temporary construction fencing shall be installed along perimeter of all work under construction	B	Through Completion
50.	**Copies of Approved Plans.** Applicant shall provide City with one reduced (1/2 size) copy of the City of Dublin stamped approved plan.	B	30 days After Permit and Each Revision Issuance
	FIRE PREVENTION		
51.	No fire service lines shall pass beneath buildings.	F	Approval of Improvement Plans
52.	**Fire Apparatus Access Road.** Fire department access requirements are to be met. All fire apparatus access road shall be with an approved all-weathered surface and capable of supporting imposed load of 75,000 lbs.	F	Approval of Improvement Plans
53.	**Fire Hydrants.** All existing and proposed fire hydrants shall comply with the requirements in CFC 507.5.	F	Approval of Improvement Plans
54.	**Fire Hydrants.** All existing and proposed fire hydrants shall comply with the requirements in CFC 507.5.	F	Approval of Improvement Plans
55.	**New Fire Sprinkler System & Monitoring Requirements.** In accordance with The Dublin Fire Code, fire sprinklers shall be installed in the building. The system shall be in accordance with the NFPA 13, the CA Fire Code and CA Building Code. Plans and specifications showing detailed mechanical design, cut sheets, listing sheets and hydraulic calculations shall be submitted to the Fire Department for approval and permit prior to installation. This may be a deferred submittal. **a)** **Sprinkler Plans.** (Deferred Submittal Item). Submit detailed mechanical drawings of all sprinkler modifications, including cut sheets, listing sheets and calculations to the Fire Department for approval and permit prior to installation. **b)** All sprinkler system components shall remain in compliance with the applicable N.F.P.A. 13 Standard, the CA Fire Code and the CA Building Code. **c)** **Underground Plans. (Deferred Submittal Item).** Submit detailed shop drawings for the fire water supply system, including cut sheets, listing sheets and calculations to the Fire Department for approval and permit prior to installation. All underground and fire water supply system components shall be in	F	Building Permit Issuance

	compliance with the applicable N.F.P.A. 13, 24, 20, 22 Standards, the CA Fire Code and the CA Building Code**.** The system shall be hydrostatically tested and inspected prior to being covered. Prior to the system being connected to any fire protection system, a system flush shall be witnessed by the Fire Department. **d) Central Station Monitoring.** Automatic fire extinguishing systems installed within buildings shall have all control valves and flow devices electrically supervised and maintained by an approved central alarm station. Zoning and annunciation of central station alarm signals shall be submitted to the Fire Department for approval. **e)** Fire Protection Equipment shall be identified with approved signs constructed of durable materials, permanently installed and readily visible.		
56.	**Fire Access During Construction.** a) **Fire Access.** Access roads, turnaround, pullouts, and fire operation areas are fire lanes and shall be maintained clear and free of obstructions, including the parking of vehicles. b) **Entrances.** Entrances to job sites shall not be blocked, including after hours, other than by approved gates/barriers that provide for emergency access. c) **Site Utilities.** Site utilities that would require the access road to be dug up or made impassible shall be installed prior to construction commencing. d) Entrance flare, angle of departure, width, turning radii, grades, turnaround, vertical clearances, road surface, bridges/crossings, gates/key-switch, within a 150-foot distance to Fire Lane shall be maintained. e) **Personnel Access.** Route width, slope, surface and obstructions must be considered for the approved route to furthermost portion of the exterior wall. **f) All-weather access**. Fire access is required to be all-weather access. Show on the plans the location of the all-weather access and a description of the construction. Access roads must be designed to support the imposed loads of fire apparatus.	F	During Construction
57.	**Fire Alarm System Required.** A Fire Alarm System in conformance with Sections 907.2.1 and 907.2.3.8 of the Dublin Fire Code is required shall be installed throughout the building so as to provide full property protection, including combustible concealed spaces, as	F	Occupancy

	required by NFPA 72. The system shall be installed in accordance with NFPA 72, CA Fire, Building, Electrical, and Mechanical Codes. If the system is intended to serve as an evacuation system, compliance with the horn/strobe requirements for the entire building must also be met. All automatic fire extinguishing systems shall be interconnected to the fire alarm system so as to activate an alarm if activated and to monitor control valves. **Delayed egress locks** shall meet requirements of C.F.C. **a) Fire Alarm Plans. (Deferred Submittal Item).** Submit detailed drawings of the fire alarm system, including floor plan showing all rooms, device locations, ceiling height and construction, cut sheets, listing sheets and battery and voltage drop calculations to the Fire Department for review and permit prior to the installation. Where employee work area's have audible alarm coverage, circuits shall be initially designed with a minimum 20% spare capacity for adding appliances to accommodate hearing impaired employee's. b) **Central Station Monitored Account.** Automatic fire alarm systems shall be monitored by an approved central alarm station. Zoning and annunciation of central station alarm signals shall be approved by the Fire Department. c) **Qualified Personnel.** The system shall be installed, inspected, tested, and maintained in accordance with the provisions of NFPA 72. Only qualified and experienced persons shall perform this work. Examples of qualified individuals are those who have been factory trained and certified or are NICET Fire Alarm Certified. **d) Inspection & Testing Documentation.** Performance testing of all initiating & notification devices in the presence of the Fire Inspector shall occur prior to final of the system. Upon this inspection, proof that the specific account is UL Certificated must be provided to the Fire Inspector.		
58.	**Fire Extinguishers**. Extinguishers shall be visible and unobstructed. Signage shall be provided to indicate fire extinguisher locations. The number and location of extinguishers shall be shown on the plans. Additional fire extinguishers maybe required by the fire inspector.	F	Occupancy

	Fire extinguisher shall meet a minimum classification of 2A 10BC. Extinguishers weighing 40 pounds or less shall be mounted no higher than 5 feet above the floor measured to the top of the extinguisher. Extinguishers shall be inspected monthly and serviced by a licensed concern annually		
59.	**FD Building Key Box.** Building Access. A Fire Department Key Box shall be installed at the main entrance to the Building. Note these locations on the plans. The key box should be installed approximately 5 1/2 feet above grade. The box shall be sized to hold the master key to the facility as well as keys for rooms not accessible by the master key. Specialty keys, such as the fire alarm control box key and elevator control keys shall also be installed in the box. The key box door and necessary keys are to be provided to the fire inspector upon the final inspection. The inspector will then lock the keys into the box.	F	Occupancy
60.	**Means of Egress.** Exit signs shall be visible and illuminated with emergency lighting when building is occupied.	F	Occupancy
61.	**Maximum Occupant Load.** Posting of room capacity is required for any occupant load of 50 or more persons. Submittal of a seating plan on 8.5" x 11" paper is required prior to final occupancy	F	Occupancy
62.	**Interior Finish.** Wall and ceiling interior finish material shall meet the requirements of Chapter 8 of the California Fire Code. Interior finishes will be field verified upon final inspection. If the product is not field marked and the marking visible for inspection, maintain the products cut-sheets and packaging that show proof of the products flammability and flame-spread ratings. Decorative materials shall be fire retardant.	F	Occupancy
63.	**General Inspection.** Upon inspection of the work for which this submittal was provided, a general inspection of the business and site will be conducted.	F	Occupancy
64.	**Addressing**. Addressing shall be illuminated or in an illuminated area. The address characters shall be contrasting to their background. If address is placed on glass, the numbers shall be on the exterior of the glass and a contrasting background placed behind the numbers. Building Address. The building shall be provided with all addresses or the assigned address range so as to be clearly visible from either direction of travel on the street the	F	Occupancy of any building

	address references. The address characters shall not be less than 5 inches in height by 1-inch stroke. Larger sizes may be necessary depending on the setbacks and visibility. Multi-Tenants. Where a building has multiple tenants, address shall also be provided near the main entrance door of each tenant space. The address shall be high enough on the building to be clearly visible from the driveway, street or parking area it faces even when vehicles are parked in front of the tenant space. The address shall not be less than 5-inches in height with a ½-inch stroke.		
65.	**Fire Safety During Construction and Demolition** a) Clearance to combustibles from temporary heating devices shall be maintained. Devices shall be fixed in place and protected from damage, dislodgement or overturning in accordance with the manufacturer's instructions. b) Smoking shall be prohibited except in approved areas. Signs shall be posted "NO SMOKING" in a conspicuous location in each structure or location in which smoking is prohibited. c) Combustible debris, rubbish and waste material shall be removed from buildings at the end of each shift of work. d) Flammable and combustible liquid storage areas shall be maintained clear of combustible vegetation and waste materials.	F	Ongoing during construction and demolition
PUBLIC WORKS-AGREEMENTS			
66.	**Stormwater Management Maintenance Agreement.** Property Owner shall enter into an Agreement with the City of Dublin that guarantees the property owner's perpetual maintenance obligation for all stormwater management measures installed as part of the project, including those on-site and within the public Rights of Way. In addition to stormwater management measures, drainage v-ditches, mitigation areas, and existing wetlands shall be included for reference, as applicable. Said Agreement is required pursuant to Provision C.3 of the Municipal Regional Stormwater NPDES Permit, Order No. R2-2022-0018. Said permit requires the City to provide verification and assurance that all treatment devices will be properly operated and maintained. The Agreement shall be recorded against the property and shall run with the land.	PW	Building Permit Issuance
67.	**Improvement Agreement.** Applicant/Developer shall enter into an	PW	

	Improvement Agreement with the City for all public improvements including any required offsite storm drainage or roadway improvements that are needed to serve the development, as determined by the City Engineer.		Improvement Plan Approval
PUBLIC WORKS-PROJECT SPECIFIC			
68.	**Creek Setback.** No development shall occur within thirty feet (30') of the centerline of any creek or twenty feet (20') of the top of bank, in conformance with Dublin Municipal Code (DMC) 7.74.110.B.3.	PW	Grading and Improvement Plan Approval and On-going
69.	**Temporary Perimeter Fence.** The Applicant shall install a temporary perimeter fence along the 20' creek setback line to prevent encroaching into the creek. Additionally, the Applicant shall provide written justification to the City Engineer in the event construction activities encroach within the 20' setback from the creek bank, as noted in Section 32 of the City Ordinance No. 52-87.	PW	Start of Construction and On-going
70.	**Driveway Design.** The new driveway on Tassajara Road shall be designed for right-in-only vehicle movements. The driveway shall be designed to emphasize the right-in only vehicle movement, while still allowing garbage and fire truck access. The Applicant shall work with the City during construction document review to finalize the driveway design.	PW	Improvement Plan Approval
71.	**Tassajara Road Gap Closure Project.** The Quarry Lane School site will be impacted/limited during construction of the Tassajara Road Gap Closure project. The Owner shall work with the City as needed during construction.	PW	Start of Construction and On-going
72.	**Tassajara Road Gap Closure Project Interface.** If the QLS Project is underway but cannot be completed by the time the City Project work begins, or if the QLS Project's schedule and work conflicts with the City Project, the City Project shall take priority over the QLS Project. As may be necessary to enforce the above conditions during construction, the Applicant shall enter into an agreement with the City to layout the conditions if the two construction projects should interface.	PW	Start of Construction and On-going
73.	**Auxiliary Lane.** This Quarry Lane School (QLS) Project requires an auxiliary lane for queuing vehicles at the proposed driveway when the driveway is operational. 1. If the Tassajara Gap Closure Project (City Project) construction is completed prior to this project, the following shall apply: a. The City Project will build the ultimate lane configuration of Tassajara Road	PW	Improvement Plan Approval

	which will include a second lane that can serve as an auxiliary lane for the proposed driveway. b. The QLS project shall allow the City Project to build the project frontage, but the driveway approach will be required to remain closed until the auxiliary lane that will be built with the City Project is completed. 2. If the City Project has not been completed prior to construction of the QLS Project, the following shall apply: a. The Applicant will be required to construct frontage improvements along the parcel street frontage with the QLS Project to address queueing resulting from the proposed driveway approach being opened to student drop-off and pick-up until the City Project is completed. b. The QLS Project's Tassajara Road frontage improvements shall be coordinated with the Tassajara Road Gap Closure Project (City Project). Street improvements will include, but are not limited to, the installation of pavement, curb, gutter, sidewalk, curb ramps, driveway approach, streetlights, landscaping, bio-retention area, street trees, utility relocation, fire hydrants, traffic signal modification, and drainage improvements between the Tassajara Road/Quarry Lane School intersection to a point approximately 200' south of Shadow Hill Drive. c. The frontage improvements are eligible for EDTIF credit up to 85 percent of the costs as detailed in the EDTIF program. However, any work that is not in the EDTIF or exceeds the quantities in EDTIF are considered not eligible for credit. d. Credits received from EDTIF may be used to offset Transportation Impact Fees (TIF) or when no TIF is required, the credits can then be sold to another developer following the procedure in the EDTIF Administrative Guidelines. If the Applicant constructs the auxiliary lane to the alignment, grade and specifications of the City Project, the work performed will be eligible to receive EDTIF credit. If the Applicant does not build the auxiliary lane to the plan and specification of the City Project, then no credit will be given and these improvements will be		

	removed and replaced by the City Project. The Applicant will not receive reimbursement for costs related to building the temporary auxiliary lane.		
74.	**Tassajara Road Moratorium.** If the Tassajara Road Gap project is constructed prior to this project, Tassajara Road will be under moratorium. All utility connections serving this project shown in Tassajara Road shall be constructed prior to or during Tassajara Road gap construction. This includes utilities constructed by the contractor and those constructed by the utility companies for services to this project. If utility installations are not completed prior to the Tassajara Road Gap Project, the Quarry Lane School Performing Arts Center project shall be responsible to replace/repair Tassajara Road improvements between adjacent intersections, including but not limited to asphalt pavement, median improvements, curb, gutter, sidewalk, landscaping, signing and striping, to the satisfaction of the City Engineer.	PW	Improvement Plan Approval and Acceptance of Improvements
75.	**Bicycle Parking.** The Applicant shall provide 8 short-term and 8 long-term bicycle parking spaces. Short-term bicycle parking spaces shall have 2 points of contact. Long-term bicycle parking spaces shall be two-tier bike lockers.	PW	Improvement Plan Approval
76.	**Parking Lot Grades.** Per Dublin Municipal Code (DMC) Section 8.76.070.A.22., parking lot grades shall not exceed 5% slope.	PW	Improvement / Grading Plan Approval
77.	**Slope Offsets.** • Provide 1' minimum offset from improvements to top/toe of slopes. • Provide 1' minimum offset from creek setback to top/toe of slopes.	PW	Grading Plan Approval
78.	**Wheel Stops.** Wheel stops to be placed at parking stalls as applicable to ensure the accessible path of travel is kept clear of obstructions.	PW	Improvement Plan Approval
79.	**Landscape Features within Public Right-of-Way.** The Property Owner shall enter into an "Agreement for Long Term Encroachment for Landscape Features" with the City to require the Property Owner to maintain the landscape and decorative features within public right-of-way including frontage landscaping, decorative pavements and special features (i.e. walls, portals, benches, etc.). The Agreement shall identify the ownership of the special features and maintenance responsibilities. The Property Owner will be responsible for maintaining the surface of all decorative pavements including restoration required as the result of utility repairs.	PW	Grading Permit or Encroachment Permit Issuance

80.	**Tassajara Road Landscape Maintenance.** Landscaping along the Tassajara Road project frontage shall be maintained by Quarry Lane School. This maintenance responsibility shall be reflected in the Long Term Encroachment Agreement.	PW	Grading Permit or Encroachment Permit Issuance
81.	**ReScape California Landscape Design**. All publicly owned landscape (e.g. parks, right of way, etc.) shall be designed and rated to meet ReScape standards. The applicant is encouraged to design all other landscape areas according to ReScape Landscape standards.	PW/ESD	Building Permit Issuance and Grading Permit Issuance
82.	**Street Restoration.** A pavement treatment, such as slurry seal or grind and overlay, will be required within the public streets fronting the site as determined by the Public Works Department. The type and limits of the pavement treatment shall be determined by the City Engineer based upon the number and proximity of trench cuts, extent of frontage and median improvements, extent of pavement striping and restriping, excessive wear and tear/damage due to construction traffic, etc.	PW	Certificate of Occupancy or Acceptance of Improvements
83.	**Bioretention Area Lining.** If the high-ground water elevation is within five feet from the bottom of the bio-retention area (BRA), then the BRA will be required to be lined.	PW	Improvement Plan Approval
84.	**Hydromodification Management Standards.** This project is subject to hydromodification management measures. The Applicant/Developer shall review the Bay Area Hydrology Model (BAHM) Review Worksheet for all projects that must meet Hydromodification Management Standards. The worksheet is available on the City's website at the following webpage: http://dublin.ca.gov/1656/ The applicant shall provide the BAHM WD2, WDM, and WHM files to the City for review.	PW	Grading Permit or Encroachment Permit Issuance
85.	**Mitigation Measures.** The applicant shall provide to the Planning Division and the Public Works Department a copy of the mitigation measures maintenance manual and schedule for reference, including maintenance procedures and protocols to follow after mitigation reporting is complete.	PW/ESD	Acceptance of Improvements
PUBLIC WORKS – PERMITS AND BONDS			
86.	**Encroachment Permit.** Applicant/Developer shall obtain an Encroachment Permit from the Public Works Department for all construction activity within the public right-of-way. At the discretion of the City Engineer an encroachment permit for work specifically	PW	Permit Issuance

	included in an Improvement Agreement may not be required.		
87.	**Grading Permit.** Applicant/Developer shall obtain a Grading Permit from the Public Works Department for all grading.	PW	Permit Issuance
88.	**Security.** Applicant/Developer shall provide faithful performance security to guarantee the improvements, as well as payment security, as determined by the City Engineer. The performance security shall remain in effect until one year after final inspection.	PW	Permit Issuance
89.	**Permits from Other Agencies.** Applicant/Developer shall obtain all permits and/or approvals required by other agencies including, but not limited to: • Army Corps of Engineers • US Fish and Wildlife • Regional Water Quality Control Board • Federal Emergency Management Agency • California Department of Fish and Wildlife • California Dept. of Transportation (Caltrans) • Bay Area Rapid Transit (BART) • Livermore-Amador Valley Transit Authority (LAVTA) • Tri-Valley-San Joaquin Valley Regional Rail Authority • Dublin San Ramon Services District (DSRSD) • Alameda County Flood Control and Water Conservation District Zone 7 (Zone 7)	PW	Permit Issuance
PUBLIC WORKS- SUBMITTALS			
90.	**Improvement Plan Submittal Requirements.** All submittals of plans shall comply with the requirements of the "City of Dublin Public Works Department Improvement Plan Submittal Requirements", the "City of Dublin Improvement Plan Review Check List," and current Public Works and industry standards. A complete submittal of improvement plans shall include all civil improvements, joint trench, street lighting and on-site safety lighting, landscape plans, and all associated documents as required. Applicant/Developer shall not piecemeal the submittal by submitting various components separately.	PW	Grading Permit Issuance
91.	**Improvement Plan Requirements from Other Agencies.** Applicant/Developer will be responsible for submittals and reviews to obtain the approvals of all participating non-City agencies, including but not limited to: the Alameda County Fire Department and the Dublin San Ramon Services District.	PW	Grading Permit Issuance
92.	**Composite Exhibit.** Construction plan set shall include a Composite Exhibit showing all site	PW	Grading Permit Issuance

	improvements, utilities, landscaping improvements and trees, etc. to be constructed to ensure that there are no conflicts among the proposed and existing improvements.		
93.	**Geotechnical Report.** Applicant/Developer shall submit a Design Level Geotechnical Report, which includes street pavement sections, grading and additional information and/or clarifications as determined by the City Engineer.	PW	Grading Permit Issuance
94.	**Ownership and Maintenance of Improvements.** Applicant/Developer shall submit an Ownership and Maintenance Exhibit for review and approval by Planning Division and Public Works Department. Terms of maintenance are subject to review and approval by the City Engineer.	PL, PW	Grading Permit Issuance
95.	**Building Pads, Slopes and Walls.** Applicant/Developer shall provide the Public Works Department with a letter from a registered civil engineer or surveyor stating that the building pads have been graded to within 0.1 feet of the grades shown on the approved Grading Plans, and that the top & toe of banks and retaining walls are at the locations shown on the approved Grading Plans.	PW	Acceptance of Improvements
96.	**Approved Plan Files.** Applicant/Developer shall provide the Public Works Department a PDF format file of approved site plans, including grading, improvement, landscaping & irrigation, joint trench and lighting.	PW	Grading Permit Issuance
97.	**Master Files.** Applicant/Developer shall provide the Public Works Department a digital vectorized file of the "master" files for the project, in a format acceptable to the City Engineer. Digital raster copies are not acceptable. The digital vectorized files shall be in AutoCAD 14 or higher drawing format. All objects and entities in layers shall be colored by layer and named in English. All submitted drawings shall use the Global Coordinate System of USA, California, NAD 83 California State Plane, Zone III, and U.S. foot.	PW	Acceptance of Improvements
98.	**Environmental Services Files**. Applicant/Developer shall provide to the Public Works Department GIS shape files, provided in a format acceptable to the City, all MRP Provision C.3 stormwater features, trash capture devices, mitigation measures, wetlands, v-ditches and public waste containers.	PW/ESD	Acceptance of Improvements
99.	**SB 1383 Compliance Reporting.** To comply with SB 1383, applicant shall provide to the Public Works Department records indicating where SB 1383 compliant mulch or compost was applied in the project, the source and type	PW/ESD	Acceptance of Improvements / Certificate of Occupancy

	of product, quantity of each product, and invoices demonstrating procurement.		
PUBLIC WORKS – EASEMENTS AND ACCESS RIGHTS			
100.	**Dedications.** The Applicant shall be responsible for dedication of all rights-of-way and easements required by these conditions or determined necessary by the City Engineer.	PW	Building Permit Issuance
101.	**Public Service Easements.** A Public Service Easement (PSE) shall be dedicated along the project's frontage to allow for the proper placement of public utility vaults, boxes, appurtenances or similar items behind the back-of-sidewalk. Private improvements such as stormwater treatment facilities, fences, gates or trellises shall not be located within the PSE.	PW	Building Permit Issuance
102.	**Emergency Vehicle Access Easements.** The Applicant/Developer shall dedicate Emergency Vehicle Access Easements (EVAE) over the clear pavement width of all drive aisles as required by the Alameda County Fire Department and City Engineer.	PW	Building Permit Issuance
103.	**Abandonment of Easements.** Applicant/Developer shall obtain abandonment from all applicable public agencies of existing easements and rights-of-way within the project site that will no longer be used. Prior to completion of abandonment, the improvement plans may be approved if the Applicant/Developer can demonstrate to the satisfaction of the City Engineer that the abandonment process has been initiated.	PW	Building Permit Issuance
104.	**Acquisition of Easements.** Applicant/Developer shall be responsible for obtaining all onsite and offsite easements, and/or obtain rights-of-entry from the adjacent property owners for any improvements not located on their property. The Applicant/Developer shall prepare all required documentation for dedication of all easements on-site and off-site. The easements and/or rights-of-entry shall be in writing and copies furnished to the Public Works Department.	PW	Building Permit Issuance
105.	**Approval by Others.** The Applicant/Developer will be responsible for submittals and reviews to obtain the approvals of all applicable non-City agencies.	PW	Building Permit Issuance
PUBLIC WORKS – STORM DRAINAGE & OTHER UTILITIES			
106.	**On-site Storm Drain System.** Storm drainage for the 10-year storm event shall be collected on-site and conveyed through storm drains to the public storm drain system. Show the size and location of existing and proposed storm drains and catch basins on the site plan. Show the size and location of public storm drain lines	PW	Grading Permit Issuance

	and the points of connection for the on-site storm drain system.		
107.	**Overland Release.** Grading and drainage shall be designed so that surplus drainage (above and beyond that of the 10-year storm event) not collected in site catch basins, is directed overland so as not to cause flooding of existing or proposed buildings.	PW	Grading Permit Issuance
108.	**Storm Drain Inlet Markers.** All public and private storm drain inlets must be marked with storm drain markers that read: "No dumping, drains to creek," and a note shall be shown on the improvement plans. The markers may be purchased from the Public Work Department.	PW	Acceptance of Improvements
109.	**Fire Hydrants.** Fire hydrant locations shall be approved by the Alameda County Fire Department. A raised reflector blue traffic marker shall be installed in the street opposite each hydrant, and shown on the signing & striping plan.	PW	Acceptance of Improvements
110.	**Dry Utilities.** Applicant/Developer shall construct gas, electric, telephone, cable TV, and communication improvements within the fronting streets and as necessary to serve the project and the future adjacent parcels as approved by the City Engineer and the various Public Utility agencies.	PW	Certificate of Occupancy or Acceptance of Improvements
111.	**Dry Utility Locations.** All electric, telephone, cable TV, and communications utilities, shall be placed underground in accordance with the City policies and ordinances. All utilities shall be located and provided within public utility easements or public services easements and sized to meet utility company standards.	PW	Certificate of Occupancy or Acceptance of Improvements
112.	**Utility Vaults and Boxes.** All utility vaults, boxes, and structures, unless specifically approved otherwise by the City Engineer, shall be underground and placed in landscaped areas and screened from public view. Landscape drawings shall be submitted to the City showing the location of all utility vaults, boxes, and structures and adjacent landscape features and plantings. The Joint Trench Plans shall be submitted along with the grading and/or improvement plans.	PW	Certificate of Occupancy or Acceptance of Improvements
PUBLIC WORKS- STREET IMPROVEMENTS			
113.	**Public Improvements.** The public improvements shall be constructed generally as shown on the Site Development Review. However, the approval of the Site Development Review is not an approval of the specific design of the drainage, traffic circulation, parking, stormwater treatment, sidewalks and street improvements.	PW	Grading Permit or Encroachment Permit Issuance

114.	**Public Improvement Conformance.** All public improvements shall conform to the City of Dublin Standard Plans, current practices, and design requirements and as approved by the City Engineer.	PW	Grading Permit or Encroachment Permit Issuance
115.	**Pavement Structural Sections.** Asphalt concrete pavement sections within the public right-of-way shall be designed using the Caltrans method for flexible pavement design (including the asphalt factor of safety), an assumed R-Value of 5. Final pavement sections shall be based on the actual R-Value obtained from pavement subgrade.	PW	Grading Permit or Encroachment Permit Issuance
116.	**Curb, Gutter & Sidewalk.** Applicant/Developer shall remove and replace damaged, hazardous, or nonstandard curb, gutter and sidewalk along the project frontage. Contact the Public Works Department to mark the existing curb, gutter and sidewalk that will need to be removed and replaced.	PW	Grading Permit or Encroachment Permit Issuance
117.	**Curb Ramps**. City standard curb ramps are required at all intersections. All curb ramps shall include truncated domes, and meet the most current City and ADA design standards. Show curb ramp locations on the plans. Please note that all curb returns on public streets shall have directional or dual ADA ramps – one for each crosswalk and oriented to align parallel with the crosswalk.	PW	Grading Permit or Encroachment Permit Issuance
118.	**Visibility Triangle.** All improvements within the sight visibility triangle at all intersections, including but not limited to walls and landscaping, shall be a maximum height of 30" from the roadway surface elevation at the nearest lane.	PW	Grading Permit or Encroachment Permit Issuance
119.	**Traffic Signing and Striping.** Applicant/Developer shall install all traffic signage, striping, and pavement markings as required by the City Engineer. Signing plans shall show street name and stop signs and any other regulatory signage appropriate for the project. Striping plans shall show stop bars, lane lines and channelization as necessary. Striping plans shall distinguish between existing striping to be removed and new striping to be installed. All striping shall be thermoplastic.	PW	Grading Permit or Encroachment Permit Issuance
PUBLIC WORKS-CONSTRUCTION			
120.	**Erosion Control Implementation.** The Erosion and Sediment Control Plan shall be implemented between October 1st and April 30th unless otherwise allowed in writing by the City Engineer. The Applicant/Developer will be responsible for maintaining erosion and sediment control measures for one year	PW	Start of Construction and On-going

	following the City's acceptance of the improvements.		
121.	**Archaeological Finds.** If archaeological materials are encountered during construction, construction within 100 ft of these materials shall be halted until a professional Archaeologist certified by the Society of California Archaeology (SCA) or the Society of Professional Archaeology (SOPA) has had an opportunity to evaluate the significance of the find and suggest appropriate mitigation measures.	PW	Start of Construction and On-going
122.	**Construction Activities.** Construction activities, including the idling, maintenance, and warming up of equipment, shall be limited to Monday through Friday, and non-City holidays, between the hours of 7:30 a.m. and 6:00 p.m. except as otherwise approved by the City Engineer. Extended hours or Saturday work will be considered by the City Engineer on a case-by-case basis. Note that the construction hours of operation within the public right-of-way are more restrictive.	PW	Start of Construction and On-going
123.	**Temporary Fencing.** Temporary construction fencing shall be installed along the construction work perimeter to separate the construction area from the public. All construction activities shall be confined within the fenced area. Construction materials and/or equipment shall not be operated/stored outside of the fenced area or within the public right-of-way unless approved in advance by the City Engineer.	PW	Start of Construction and On-going
124.	**Construction Noise Management Plan.** Applicant/Developer shall prepare a construction noise management plan that identifies measures to minimize construction noise on surrounding developed properties. The plan shall include hours of construction operation, use of mufflers on construction equipment, speed limit for construction traffic, haul routes and identify a noise monitor. Specific noise management measures shall be provided prior to project construction.	PW	Start of Construction Implementation , and On-going as needed
125.	**Traffic Control Plan.** Closing of any existing pedestrian pathway and/or sidewalk during construction shall be implemented through a City-approved Traffic Control Plan and shall be done with the goal of minimizing the impact on pedestrian circulation.	PW	Start of Construction and On-going as needed
126.	**Construction Traffic Interface Plan.** Applicant/Developer shall prepare a plan for construction traffic interface with public traffic on any existing public street. Construction traffic and parking may be subject to specific requirements by the City Engineer.	PW	Start of Construction; Implementation , and On-going as needed

127.	**Pest Control.** Applicant/Developer shall be responsible for controlling any rodent, mosquito, or other pest problem due to construction activities.	PW	On-going
128.	**Dust Control Measures.** Applicant/Developer shall be responsible for watering or other dust-palliative measures to control dust as conditions warrant or as directed by the City Engineer.	PW	Start of Construction; Implementation On-going as needed
129.	**Dust Control/Street Sweeping.** The Applicant/Developer shall provide adequate dust control measures at all times during the grading and hauling operations. All trucks hauling export and import materials shall be provided with tarp cover at all times. Spillage of haul materials and mud-tracking on the haul routes shall be prevented at all times. The Applicant/Developer shall be responsible for sweeping of streets within, surrounding and adjacent to the project, as well as along the haul route, if it is determined that the tracking or accumulation of material on the streets is due to its construction activities.	PW	During Grading and Site Work
130.	**Construction Traffic and Parking.** All construction-related parking shall be off-street in an area provided by the Applicant/Developer. Construction traffic and parking shall be provided in a manner approved by the City Engineer.	PW	Start of Construction and On-going
	PUBLIC WORKS – EROSION CONTROL & STORMWATER QUALITY		
131.	**Stormwater Treatment.** Consistent with Provision C.3 of the Municipal Regional Stormwater NPDES Permit (MRP) Order No. R2-2022-0018, the Applicant/Developer shall submit documentation including construction drawings demonstrating all stormwater treatment measures and hydromodification requirements as applicable are met.	PW/ESD	Grading Permit Issuance
132.	**Stormwater Source Control.** All applicable structural and operational stormwater source controls shall be implemented.	PW/ESD	Grading/Sitework Permit Issuance
133.	**Maintenance Access.** Applicant shall design and construct maintenance access to all stormwater management measures. Maintenance access for equipment and personnel to overflow risers, cleanouts and other structures is required. The final number, location, width, and surfacing of maintenance access points from public or private streets is subject to the approval of the City Engineer.	PW/ESD	Grading Permit Issuance
134.	**NOI and SWPPP.** Prior to any clearing or grading, Applicant/Developer shall provide the City evidence that a Notice of Intent (NOI) has been sent to the California State Water Resources Control Board per the requirements	PW	Start of Any Construction Activities

	of the NPDES. A copy of the NOI with issued WDID # and Storm Water Pollution Prevention Plan (SWPPP) shall be provided to the Public Works Department and be kept at the construction site.		
135.	**SWPPP.** The Storm Water Pollution Prevention Plan (SWPPP) shall identify the Best Management Practices (BMPs) appropriate to the project construction activities. The SWPPP shall include the erosion and sediment control measures in accordance with the regulations outlined in the most current version of the Association of Bay Area Governments (ABAG) Erosion and Sediment Control Handbook or State Construction Best Management Practices Handbook. The Applicant/Developer is responsible for ensuring that all contractors implement all storm water pollution prevention measures in the SWPPP.	PW	SWPPP to be Prepared Prior to Grading Permit Issuance; Implementation Prior to Start of Construction and On-going
136.	**Stormwater Management Plan.** A final Stormwater Management Plan shall be submitted for review and approval by the City Engineer. Approval is subject to the Applicant/Developer providing the necessary plans, details, and calculations that demonstrate the plan complies with the standards issued by the San Francisco Bay Regional Water Quality Control Board and Alameda Countywide Clean Water Program. Landscape Based Stormwater Management Measures shall be irrigated and meet WELO requirements.	PW/ESD	Building Permit Issuance and Grading Permit Issuance
137.	**SB 1383 Compliance.** To comply with SB 1383 procurement requirements, all mulch and compost used in stormwater management measures and general landscape areas shall meet SB 1383 procurement requirements. Specifically, compost must be produced at a permitted composting facility; digestate, biosolids, manure and mulch do not qualify as compost. Eligible mulch must be derived from organic materials and be produced at a permitted transfer station, landfill, or composting facility. Examples of allowed compost include arbor mulch and composted mulch.	PW/ESD	Building Permit Issuance and Grading Permit Issuance
138.	**Trash Capture.** The project must either demonstrate that on-site stormwater runoff flows to a regional trash capture device or ensure MRP full trash capture requirements are met though the installation of approved full trash capture devices or by entering into a trash maintenance agreement with the City. Specific details on the trash capture devices selected are required on the construction plan set demonstrating how MRP Provision C.10 (trash capture) requirements are met. A list of	PW	Building Permit Issuance and Grading Permit Issuance

	approved full trash capture devices may be found at the California Stormwater Quality Association website at the following link: https://www.casqa.org/resources/trash/certified-full-capture-system-trash-treatment-control-devices. Please note that lead time for trash capture device delivery can be substantial. The applicant/contractor shall plan accordingly.		
PUBLIC WORKS – ONSITE IMPROVEMENTS			
139.	**Drive Aisle Width.** The parking lot aisles shall be a minimum of 24 feet wide to allow for adequate onsite vehicle circulation for cars, trucks, and emergency vehicles.	PW	Grading Permit Issuance
140.	**Vehicle Parking.** All on-site vehicle parking spaces shall conform to the following: a. All parking spaces shall be double striped using 4" white lines set 2 feet apart in accordance with City Standards and DMC 8.76.070.A.17. b. 12"-wide concrete step-out curbs shall be constructed at each parking space where one or both sides abut a landscaped area or planter. c. Where wheel stops are shown, individual 6' long wheel stops shall be provided within each parking space in accordance with City Standards. d. A minimum 2' radius shall be provided at curb returns and curb intersections where applicable. e. Parking stalls next to walls, fences and obstructions to vehicle door opening shall be an additional 4' in width per DMC 8.76.070.A.16. Landscaped strips adjacent to parking stalls shall be unobstructed in order to allow for a minimum 2-foot vehicular overhang at front of vehicles.	PW	Grading Permit Issuance
141.	**Onsite Signing and Striping Plan.** A Traffic Signing and Striping Plan showing all proposed signing and striping within on-site parking lots and drive aisles, shall be submitted for review and approval by the City Engineer.	PW	Grading Permit or Encroachment Permit Issuance
142.	**Photometrics.** The Applicant/Developer shall provide a complete photometrics plan for both onsite and frontage roadways. Include the complete data on photometrics, including the High, Average and Minimum values for illuminance and uniformity ratio.	PW	Grading Permit or Encroachment Permit Issuance
143.	**Project signs.** All proposed project monument signs shall be placed on private property. Signs should be located outside of any easement areas unless specifically approved by the City Engineer. Any signage allowed to be located in an easement is subject to removal and	PW	Grading Permit Issuance

	replacement at the expense of the Developer/property owner if required by the easement holder.		
144.	**Solid Waste Requirements.** The Project must comply with all requirements in Dublin Municipal Code Chapter 7.98, including the following requirements: Install trash, recycling and organics collection containers in congregation areas and along public and private sidewalks.	PW/ESD	Building Permit or Site Work Permit Issuance
145.	**Waste Enclosure**. The waste enclosure shall meet all of the requirements set forth within the Dublin Municipal Code Section 7.98, including but not limited to providing sewer and water hook-ups. The improvement plans and/or building permit plans shall show additional information demonstrating these requirements are met. A standard plan for the waste enclosure can be downloaded at https://dublin.ca.gov/341/Standard-Plans in the "Stormwater Measures" section. A pedestrian accessible path of travel shall be provided for employees from the building to the waste enclosure in conformance with current accessibility requirements.	PW/ESD	Building Permit Issuance and Grading Permit Issuance
146.	**Garbage Truck Access**. The applicant shall provide plans and details on anticipated garbage truck access and routes, in addition to example set-out diagrams for waste carts/bins placement on garbage day demonstrating adequate space available for carts/bins. Carts and bins shall not block street or driveway access.	PW/ESD	Building Permit or Site Work Permit Issuance
PUBLIC WORKS-GRADING			
147.	**Grading Plan.** The Grading Plan shall be in conformance with the recommendation of the Geotechnical Report, the approved Site Development Review, and the City design standards & ordinances. In case of conflict between the soil engineer's recommendation and the City ordinances, the City Engineer shall determine which shall apply.	PW	Grading Permit Issuance
148.	**Geotechnical Engineer Review and Approval**. The Project Geotechnical Engineer shall be retained to review all final grading plans and specifications. The Project Geotechnical Engineer shall approve all grading plans prior to City approval.	PW	Grading Permit Issuance/ Sitework Permit
149.	**Grading Off-Haul.** The disposal site and haul truck route for any off-haul dirt materials shall be subject to the review and approval by the City Engineer prior to the issuance of a Grading Permit. If the Applicant/Developer does not own the parcel on which the proposed disposal site is located, the	PW	Grading Permit Issuance/Sitework Permit

	Applicant/Developer shall provide the City with a Letter of Consent signed by the current owner, approving the placement of off-haul material on their parcel. A Grading Plan may be required for the placement of the off-haul material. A Transportation Permit or Encroachment Permit may be required for the haul route, as determined by the City Engineer, which shall include a pre- and post-hauling survey of the pavement condition. Applicant/Developer shall be responsible for repairing damaged pavement due to hauling operations, as determined by the City Engineer.		
150.	**Erosion Control Plan.** A detailed Erosion and Sediment Control Plan shall be included with the Grading Plan submittal. The plan shall include detailed design, location, and maintenance criteria of all erosion and sedimentation control measures. The plan shall also address site housekeeping best management practices.	PW	Grading Permit Issuance
151.	**Demolition Plan.** The Applicant/Developer's Civil Engineer shall prepare a demolition plan for the project, which shall be submitted concurrent with the improvement plan package. The demolition plan shall address the following: • Pavement demolition, including streetlights and landscaped median islands; • Landscaping and irrigation; • Fencing to be removed and fencing to remain; • Buildings to be removed; Any items to be saved in place and or protected, such as trees, water meters, sewer cleanouts, drainage inlets or backflow prevention devices.	PW	Grading Permit Issuance
DUBLIN SAN RAMON SERVICES DISTRICT			
152.	The regulations that apply to development projects are codified in: the Dublin San Ramon Services District Code; the DSRSD "Standard Procedures, Specifications and Drawings for Design and Installation of Water and Wastewater Facilities" as amended from time to time; all applicable DSRSD Master Plans and all DSRSD policies. Prior to issuance of any building permit, complete improvement plans shall be submitted to DSRSD that conform to the pertinent documents.	DSRSD	Through Completion
153.	Planning and review fees, inspection fees, and fees associated with a wastewater discharge permit shall be paid to DSRSD in accordance with the rates and schedules and at time of	DSRSD	Through Completion

	payment as established in the DSRSD Code. Planning and review fees are due after the 1st submittal of plans. Construction Permit and Inspection Fees are due prior to the issuance of a Construction Permit. Capacity Reserve Fees are due before the water meter can be set or the connection to the sewer system.		
154.	Prior to issuance of any building permit by the City; or any Building Permit or Construction Permit by the Dublin San Ramon Services District, all improvement plans for DSRSD facilities shall be signed by the District Engineer. Each drawing of improvement plans for DSRSD facilities shall contain a signature block for the District Engineer indicating approval of the sanitary sewer and/or water facilities shown. Prior to approval by the District Engineer, the applicant shall pay all required DSRSD fees, and provide an engineer's estimate of construction costs for the sewer and water systems, a faithful performance bond, and a comprehensive general liability insurance policy in the amounts and forms that are acceptable to DSRSD. The applicant shall allow at least 15 working days for final improvement drawing review by DSRSD before signature by the District Engineer.	DSRSD	Building Permit Issuance
155.	All easement dedications for DSRSD facilities shall be by separate instrument irrevocably offered to DSRSD or by offer of dedication on the Final Map. Prior to approval by the City for Recordation, the Final Map shall be submitted to and approved by DSRSD for easement locations, widths, and restrictions.	DSRSD	Prior to Recordation
156.	Where the narrow width of a proposed alley or cul-de-sac is so restrictive that the standard separation requirements for water mains and sewer mains cannot be maintained, the water and sewer mains shall be installed within main thoroughfares, outside of alleyways or cul-de-sacs. Water and sewer mains may not be installed within courtyards. Water meters shall be installed around the outer perimeter of buildings. Installation of water lines from the meter to each unit shall be documented and submitted to the District.	DSRSD	Building Permit Issuance
157.	All mains shall be sized to provide sufficient capacity to accommodate future flow demands in addition to each development project's demand. Layout and sizing of mains shall be in conformance with DSRSD utility master planning.	DSRSD	Building Permit Issuance
158.	Prior to approval by the City of a grading permit or a site development permit, the locations and widths of all proposed easement dedications for	DSRSD	Prior to Grading Permit

	water and sewer lines shall be submitted to and approved by DSRSD.		
159.	Water and sewer mains shall be located in public streets rather than in off-street locations to the fullest extent possible. If unavoidable, then sewer or water easements must be established over the alignment of each sewer or water main in an off-street or private street location to provide access for future maintenance and/or replacement.	DSRSD	Building Permit Issuance
160.	Domestic and fire protection waterline systems for Tracts or Commercial Developments shall be designed to be looped or interconnected to avoid dead end sections in accordance with requirements of the DSRSD Standard Specifications and sound engineering practice.	DSRSD	Permit Submittal and Construction Permit Issuance
161.	Sewers shall be designed to operate by gravity flow to DSRSD's existing sanitary sewer system. Pumping of sewage is discouraged and may only be allowed under extreme circumstances following a case-by-case review with DSRSD staff. Any pumping station will require specific review and approval by DSRSD of preliminary design reports, design criteria, and final plans and specifications. The DSRSD reserves the right to require payment of present worth 30-year operations and maintenance costs as well as other conditions within a separate agreement with the applicant for any project that requires a pumping station.	DSRSD	Building Permit Issuance or Construction Permit Issuance
162.	This project will be analyzed by DSRSD to determine if it represents additional water and/or sewer capacity demands on the District. Applicant will be required to pay all incremental capacity reserve fees for water and sewer services as required by the project demands. All capacity reserve fees must be paid prior to installation of a water meter for water. If a water meter is not required, the capacity reserve fee shall be paid prior to issuance of a building permit. The District may not approve the building permit until capacity reserve fees are paid.	DSRSD	Building Permit Issuance or Construction Permit Issuance
163.	No sewer line or waterline construction shall be permitted unless the proper utility construction permit has been issued by DSRSD. A construction permit will only be issued after all of the items in Condition No. 153 have been satisfied.	DSRSD	Approval of Improvement Plans
164.	Above ground backflow prevention devices/double detector check valves shall be installed on fire protection systems connected to the DSRSD water main. The applicant shall collaborate with the Fire Department and with DSRSD to size and configure its fire system.	DSRSD	Approval of Improvement Plans

165.	Any proposed irrigation for this project shall be designed for and connected to potable water. Unless explicitly stated otherwise by DSRSD, recycled water irrigation is unavailable for use for this project per DERWA recycled water moratorium Resolution No. 19-3 dated 3/24/2019.	DSRSD	Grading Permit Issuance

PASSED, APPROVED AND ADOPTED this 3rd day of October 2023, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

_____
Mayor

ATTEST:

_____
City Clerk

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Performing Arts Center at Quarry Lane School

6363 & 6237 TASSAJARA ROAD, DUBLIN CA 94568

DESIGN SET



SHEET INDEX

NOTE: SEE 11x17 SET Qp-13 FOR EXTERIOR COLORS & MATERIALS

ARCHITECTURAL

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Qp-12b	OVERALL SITE PLAN
Qp-12c	SITE PLAN
Qp-12d	ACCESS AND EXITING PLAN
Qp-12e	FLOOR PLAN
Qp-12f	ROOF PLAN
Qp-12g	SITE DETAILS
Qp-12h	EXTERIOR ELEVATIONS
Qp-12i	BUILDING SECTIONS
Qp-12j	BUILDING SECTIONS
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CIVIL

C1.00	EXISTING CONDITIONS
C2.00	SITE LAYOUT
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C5.01	STORMWATER CONTROL PLAN

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L1.3	IRRIGATION DETAILS
L2.1	PLANTING PLAN
L2.2	PLANTING DETAILS
L2.3	BAY FRIENDLY SCORECARD

PROJECT DESCRIPTION

Since its opening in January of 1991, The Quarry Lane School has provided a nationally recognized, exceptional, independent education program for students in the early education, elementary, middle, and high school levels. With a 100% graduation rate, Quarry Lane graduates are accepted into the top colleges of their choice year after year–many of which include some of the nation's finest colleges and universities. Quarry Lane has consistently ranked among the top private schools in the nation. For 2022, Quarry Lane was ranked 20th in the nation and 4th in the State in the Best Private K-12 Schools category by Niche.com. It also ranks among the top Best College Prep, STEM, and Best Private High Schools in the nation. Quarry Lane School's Dublin East Campus, located at 6363 Tassajara Rd in Dublin, offers education for elementary through high school students with an approved total student enrollment capacity of 950 students. The campus has been in operation since 1999 and currently includes the four following buildings, as well as the Athletic Field at the East end of the campus:

- **Building 1 (7,611 SF)**: Admissions Office, Multipurpose Room (The Villa), and Lower Elementary School Library
- **Building 2 (15,578 SF)**: Elementary School classrooms
- **Building 3 (70,701 SF)**: Middle and High School classrooms and laboratories, Library, and Gymnasium
- **Building 4 (13,003 SF)** : Engineering/Science and Technology classrooms and laboratories, Dining Hall, and Lecture Hall

The school purchased the property adjacent to the southern perimeter of the campus, which lies next to the Buildings 1, 3, and 4, in October of 2020 with the primary goal of providing an improved, dedicated space for the existing Performing Arts program and associated parking. **It is important to note that the school is not planning for nor is asking for an increase to the total student capacity approved by the City. There will be no expansion or addition to the total student enrollment and its current operations with this additional property. The proposed Performance Arts Building, and parking area will work towards providing a state-of-the-art, 21st century learning environment for our existing Performance Arts program, and associated parking spaces. Simply put, there will be no change to the day-to-day school operations.**

The Performance Arts Building is designed to include a performance hall with seating for approximately 350, along with drama, music, dance, and rehearsal studios for current Quarry Lane students. The new facility will allow the school to provide a higher quality, modern space for performing arts, music, and dance classes. It will also provide a dedicated space to host the school's existing performance art shows and events, as well as an improved space for high school commencement ceremonies. The school currently hosts no more than eight events, including the high school graduation ceremony, during the school year and these events take place in the evenings and on weekends. Each of these events has had a total attendance of approximately 350 people which have had to take place in the school gymnasium, multipurpose room, or spread out throughout the campus.

Again, please note, the new facility will not change anything in the school's current operations, rather, it will help to offer convenient parking for our school community and an improved learning environment for our students and staff.

The school has a high school student parking policy which controls the number of high school students that can drive and park on campus. The total number of parking permit is about 30%of the existing total parking stalls. In issuing a limited number of permits to high school students per the policy, the school prioritizes first, the number of parking spaces available for students on campus, and secondly, the academic and community standing of students in the current year. Therefore, not every high school senior or age-qualified junior gets a parking permit for the school year. Furthermore, over the last 15 or so years, the school has not traditionally had all qualified senior and junior students apply for a student parking permit. The school has controlled and enforced this policy effectively and students and parents are well-versed in the policy before signing enrollment paperwork for any given school year.

As exhibited in the proposed drawing, the student and staff parking will not change despite additional parking is proposed for the project. As shown in the proposed civil drawings, inbound traffic for staff and students will have its own right lane entering the parking lot. The proposed lot will only be used for inbound entry and it will not provide any exit. Students and staff will continue to leave campus as per existing current conditions.

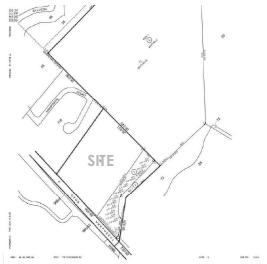
The Upper School program for grades 6 through 12 follows a rotating block schedule which allows teachers to teach their subject classes two to three days a week versus every day. This means these teachers do not have to be on campus for eight hours a day; more likely, they are on campus for two to five hours each day. This gives teachers the flexibility to come and leave the campus during the off-peak hours. Essentially, not every teacher has to be on campus during the standard arrival times in the mornings and they can also leave once their teaching responsibilities are over for the day.

Additionally, the school uses a staggered system for morning arrival and afternoon dismissal times for different grade levels. Specifically, this means that there are different arrival and dismissal times for Jr. K-Grade 2, Grades 3-5, Grades 6-8, and Grades 9-12. The school has utilized this staggering system successfully since the opening of the Dublin East campus in 1999.

VICINITY MAP



ASSESSOR'S PARCEL MAP



PROJECT DIRECTORY

ARCHITECT
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925.930.9700
CONTACT: COURTNEY FOGAL

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CONTACT: JOHN FRIAR

CIVIL ENGINEER
BKF
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CONTACT: AUSTIN RICHWOOD

ENVIRONMENTAL CONSULTANT
ENGEO INCORPORATED
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CONTACT: STEPHEN FALLON

LANDSCAPE ARCHITECT
VALLIER DESIGN ASSOCIATES, INC.
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POINT RICHMOND, CA 94801
510.237.7745
CONTACT: PAUL STEVENSON

OWNER
QUARRY LANE SCHOOL
3750 BOULDER STREET
PLEASANTON, CA 94566
925.846.9400
CONTACT: DR. SABRI ARAC

PARKING REQUIREMENTS

PARKING REQUIREMENTS PER CALGREEN 2019

STALL TYPE	REQUIRED	PROVIDED
SHORT TERM BICYCLE	7 (5.106.4.1.1)	8 SP
LONG TERM BICYCLE	7 (5.106.4.1.2)	8 SP
CLEAN AIR VEHICLE	18 (TABLE 5.106.5.2)	18 SP
ELECTRIC VEHICLE	13 (TABLE 5.106.5.3.3)	13 SP

PARKING REQUIREMENTS PER CBC CHAPTER 11B 2019

STALL TYPE	REQUIRED	PROVIDED
ACCESSIBLE PARKING STALL	4 (TABLE 11B-208.2)	4 SP
VAN PARKING SPACES	1 (11B-208.2.4)	1 SP
ELECTRIC VEHICLE	1 (TABLE 11B-228.3.2.1)	1 SP
ELECTRIC VEHICLE VAN	1 (TABLE 11B-228.3.2.1)	1 SP

PARKING REQUIREMENTS PER DUBLIN MUNCIPAL CODE

REQUIREMENT	REQUIRED	PROVIDED
1 PER 3 SEATS	117 SP	126 SP

PROJECT DATA

APN:	985-2-6-3 & 982-72-2
ZONING:	P.D.
SITE AREA:	550,081 SF (12.63 ACRES) (PER RECORDED LOT MERGER M-2022-001)

BUILDING AREA	
EXISTING BUILDING 1	7,611 SF
EXISTING BUILDING 2	15,578 SF
EXISTING BUILDING 3	70,701 SF
EXISTING BUILDING 4	13,003 SF
TOTAL EXISTING AREA	**106,893 SF**
PROPOSED AUDITORIUM	13,800 SF
GRAND TOTAL BUILDING AREA	**120,693 SF**
FAR	21.9
LOT COVERAGE	14%

PROPOSED AUDITORIUM	
OCCUPANCY CLASSIFICATION:	A & E
AUDITORIUM CAPACITY:	350 SEATS
CONSTRUCTION TYPE:	VB
FIRE SPRINKLER:	AUTOMATIC SPRINKLER SYSTEM

MINIMUM BUILDING SETBACKS	
FRONT	25'0"
SIDE	43'-5"
REAR	755'
MAXIMUM BUILDING HEIGHT	29'-9"

NOTE: NO ADDITIONAL STAFF OR STUDENT CAPACITY ADDED AS PART OF THIS EXPANSION

PARKING PROVIDED

EXISTING PARKING 6 ADA + 130 STANDARD + 35 COMPACT	165 SPACES
PROPOSED PARKING 7 ADA + 88 STANDARD + 31 COMPACT	126 SPACES
GRAND TOTAL PARKING	**291 SPACES**

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PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

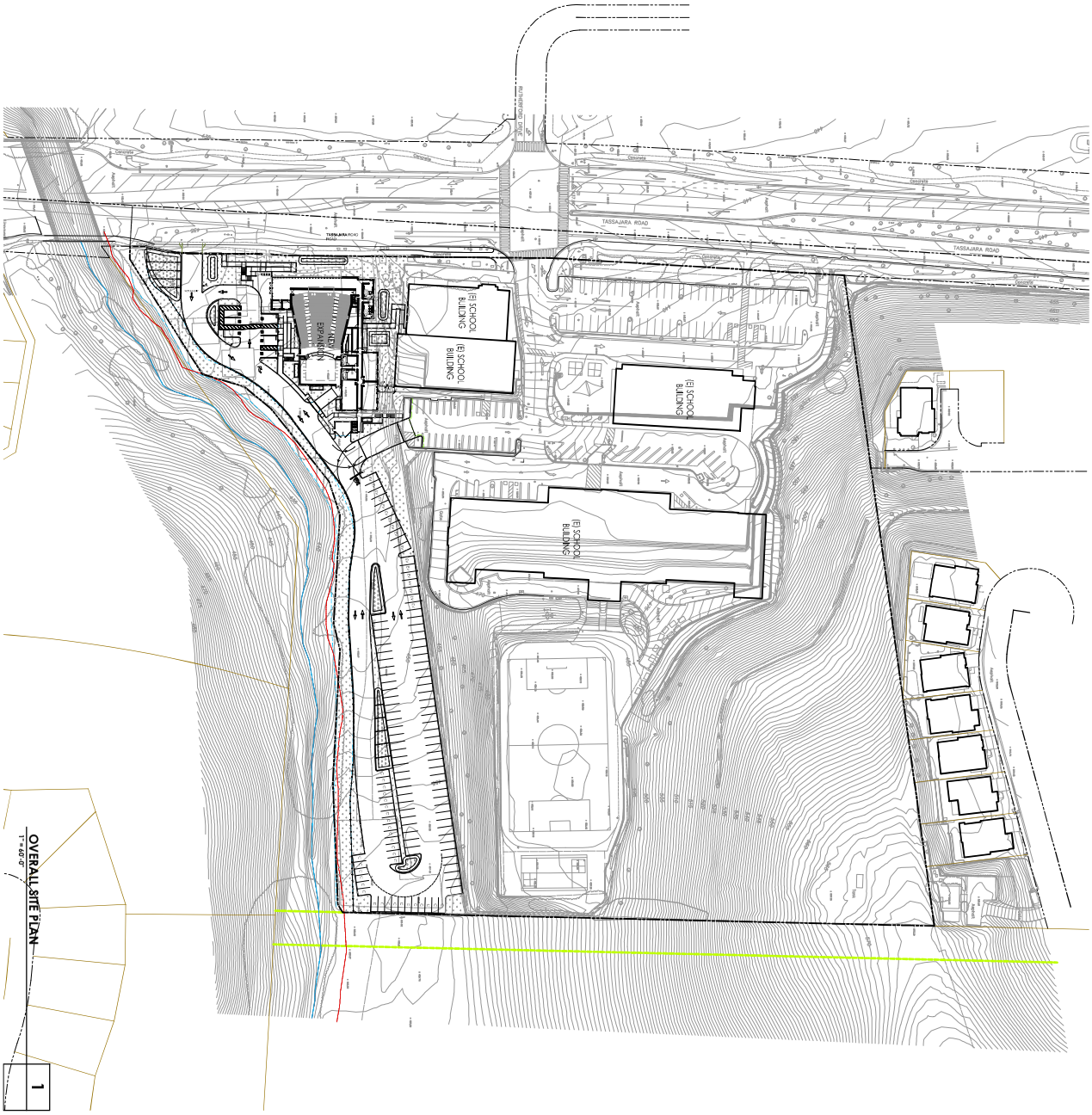
SEAL

ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: NTS
TITLE: COVER

DRAWING NO: Qp-12a

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OVERALL SITE PLAN
1" = 60'-0"

1

DRAWING NO: Qp-12b

TITLE: OVERALL SITE PLAN

SCALE: 1" = 60'

DATE: 12/10/2021

DRAWN: MW CHECKED: CF

PROJECT NUMBER: 2104

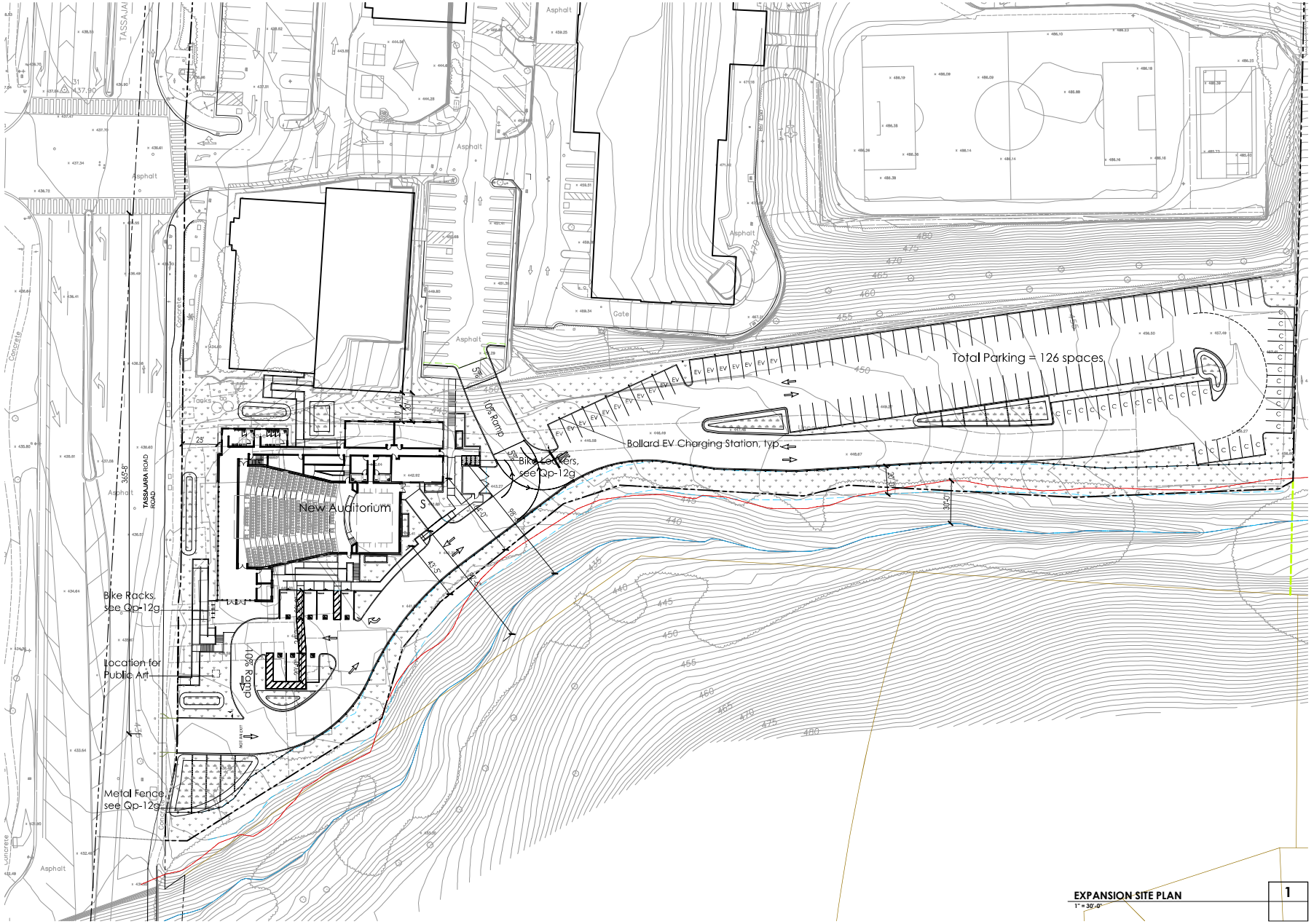
ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

SEAL

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
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EXPANSION SITE PLAN
1" = 30'-0"

1

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QLS Performing Arts Center
6237 TASSAJARA ROAD
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SEAL

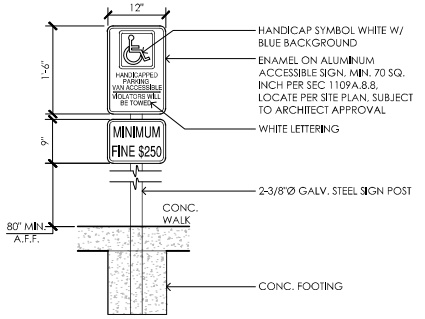
ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: 1" = 30'

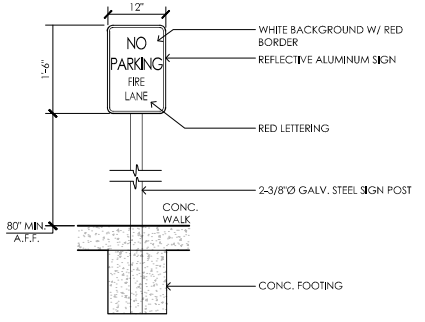
TITLE:
SITE PLAN

DRAWING NO:
Qp-12c

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ACCESSIBLE PARKING SIGNAGE — NTS — **4**

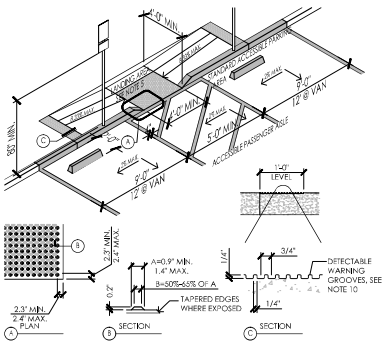


FIRE LANE SIGNAGE — NTS — **3**

EXITING ANALYSIS

PER CBC SECTIONS 1004 & 1005

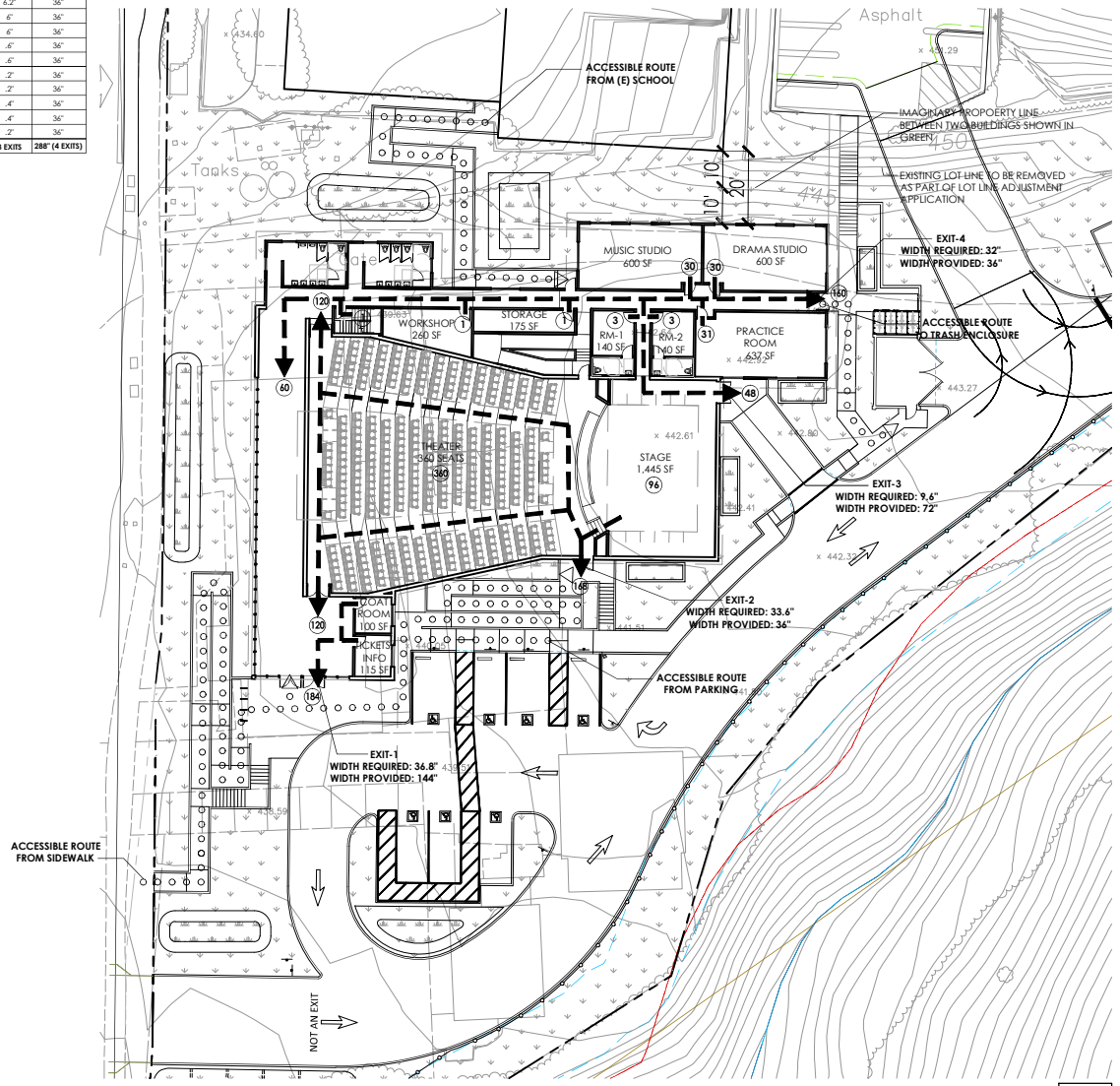
	AREA	OCCUPANT LOAD FACTOR	TOTAL OCCUPANCY	EXIT WIDTH REQUIRED	EXIT WIDTH PROVIDED
THEATER	360 SEATS	1/SEAT	360	72"	216"
STAGE	1,445 SF	15 NET	96	19.2"	72"
PRACTICE ROOM	637 SF	20 NET	31	6.2"	36"
DRAMA STUDIO	600 SF	20 NET	30	.6"	36"
MUSIC STUDIO	600 SF	20 NET	30	.6"	36"
DRESSING ROOM-1	140 SF	50 GROSS	3	.6"	36"
DRESSING ROOM-2	140 SF	50 GROSS	3	.6"	36"
STORAGE	175 SF	300 GROSS	1	.2"	36"
WORKSHOP	260 SF	300 GROSS	1	.2"	36"
COAT ROOM	100 SF	150 GROSS	2	.4"	36"
TICKETS	115 SF	150 GROSS	2	.4"	36"
PROJECTION RM	300 SF	300 GROSS	1	.2"	36"
TOTAL			**560**	**3 EXITS**	**288" (4 EXITS)**



NOTES:

1. PEDESTRIAN WALKS SHALL BE PROVIDED IN LOCATIONS AS INDICATED PER PLAN
2. (N) PAVEMENT SHALL BE BLOCKED OUT FULL DEPTH. (E) PAVEMENT SHALL BE REMOVED BACK TO THE FACE OF THE EXISTING CURB
3. WALK FLATWORK SHALL BE ISOLATED FROM ALL OTHER CONCRETE BY THROUGH JOINTS
4. ALL FLATWORK SHALL BE COMPLETED WITH A NON-SLIP FINISH, MEDIUM BROOM FINISH, U.O.N.
5. PROVIDE A LANDING SLEED FULL WIDTH OF EACH INTERSECTING WALK (MIN 48"X 48") WITH 2% MAX. GRADE SLOPE IN ANY DIRECTION
6. THE SIDEWALK THICKENED AND REINFORCED EDGE SHALL BE CONTINUOUS AT PERIMETER
7. AT INTERSECTIONS OF THE WALKS WITH ANY VEHICULAR AREA, THE WALK SHALL HAVE DETECTABLE WARNING TILES CONSISTING OF TRUNCATED DOMES. DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF THE WALK FOR A DEPTH OF 3 FT. IN THE DIRECTION OF TRAVEL. PROVIDE (NONE TRUNCATED DOMES
8. LATERAL CLEARANCE FROM INLETS, POLES, HYDRANTS AND OTHER ABOVE GROUND OBSTACLES SHALL BE 1'-4" MIN. FROM THE WALK AND LANDING
9. ALL FLATWORK SHALL BE COMPLETED SUCH THAT JOINTS BETWEEN (N) AND (E) SURFACES RESULT IN A CONFORMING TRANSITION WITH OUT ABRUPT CHANGES IN ELEVATION EXCEEDING 1/4" VERTICAL EXCEPT VERTICAL GRADE CHANGES UP TO 1/2" ARE PERMITTED WITH A BEVELED EDGE 2 HORIZ:1 VERT. REMOVE OR GRIND (E) ADJACENT PAVING AS REQUIRED. GRADE SLOPE AT WALKS ADJACENT TO LANDINGS AND WALKS SHALL BE 5% MAX IN DIRECTION OF TRAVEL AND 2% MAX. GRADE SLOPE IN ANY DIRECTION
10. RAMPS AND CURB RAMPS TO COMPLY WITH CBC #118-405. PROVIDE A 12" WIDE GROOVED BORDER ALONG THE TOP OF RAMP AND TOP OF SIDE WINGS LOCATED AT THE LEVEL SURFACE OF THE ADJACENT SIDEWALK. GROOVES SHALL BE 1/4"X1/4" AND SPACED 3/4" APART
11. ALL FLATWORK SHALL BE COMPLETED TO PREVENT STANDING WATER AT ANY LOCATION OF THE WALK SURFACE
12. COLOR OF CONCRETE PAVEMENT AT DETECTABLE GROOVES, SLOPED RAMP PORTION AND BOTTOM LANDING SHALL BE A CLEARLY CONTRASTING COLOR FINISH. USE CARBON LAMP BLACK 5 LBS/CU. YD.

CURB CUT & PARKING STALL — NTS — **2**



EXITING & ACCESS ANALYSIS — 1/16" = 1'-0" — **1**

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PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

SEAL

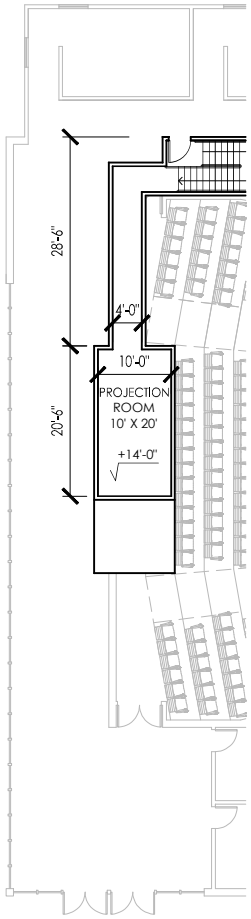
ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

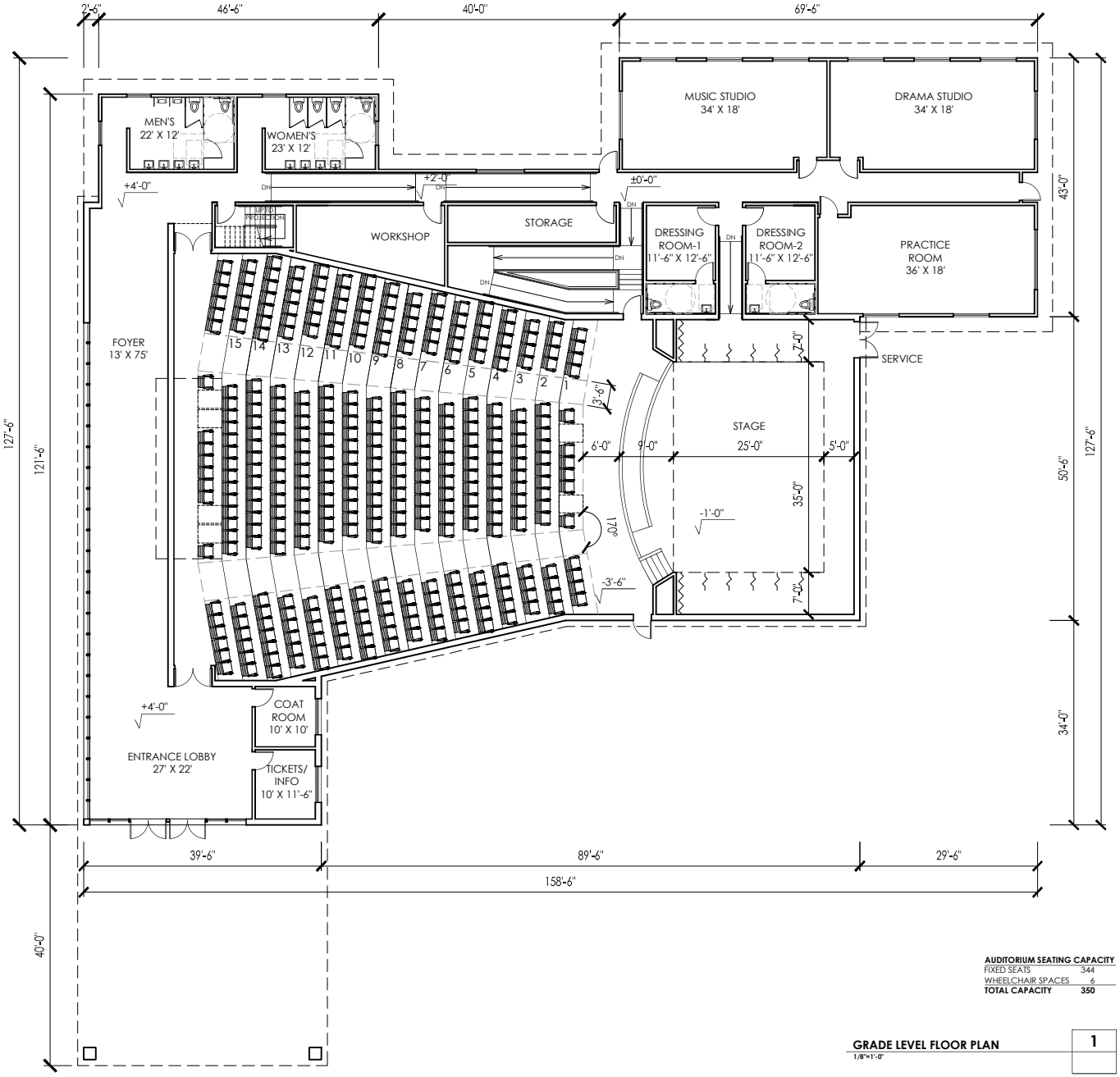
PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: 1/16" = 1'-0"

TITLE:
EXITING & ACCESS PLAN

DRAWING NO:
Qp-12d

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AUDITORIUM SEATING CAPACITY

FIXED SEATS	344
WHEELCHAIR SPACES	6
TOTAL CAPACITY	**350**

MEZZANINE PROJECTION ROOM 2
1/8"=1'-0"

GRADE LEVEL FLOOR PLAN 1
1/8"=1'-0"

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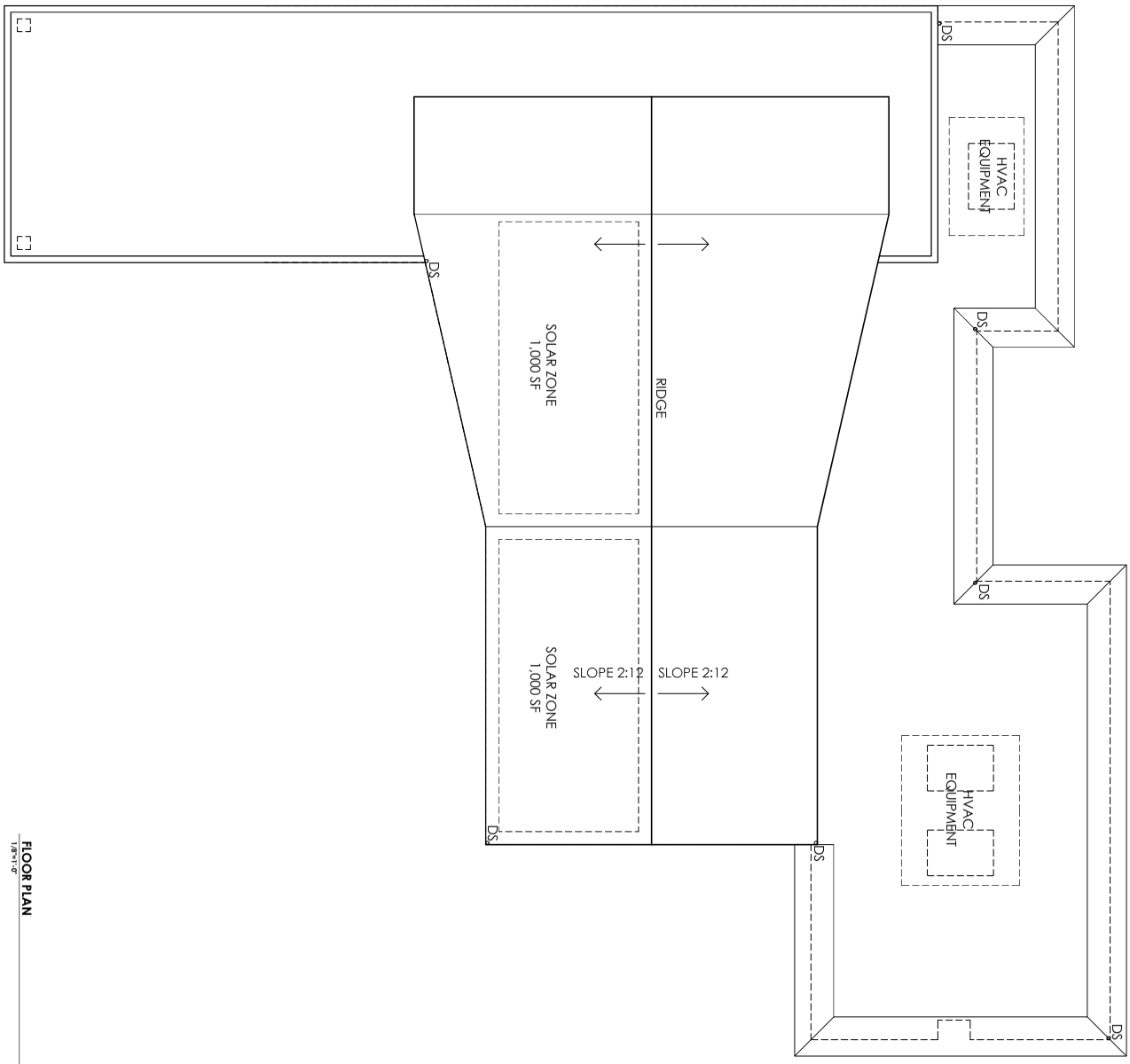
SEAL

ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: 1/8"=1'-0"
TITLE:
FLOOR PLAN

DRAWING NO:
Qp-12e

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FLOOR PLAN
1/8"=1'-0"

1

PROJECT
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DUBLIN, CA 94568

ARCHITECTS
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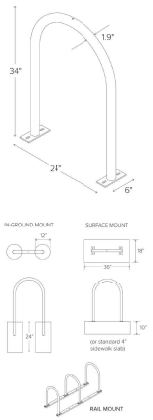
ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: 1/8"=1'-0"
TITLE: FLOOR PLAN

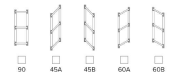
DRAWING NO: Qp-12f

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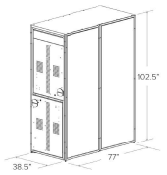
DERO | Hoop Rack — Submittal Sheet



CAPACITY	2 Bikes
MATERIALS	1.5" schedule 40 pipe (1.9" OD)
FINISHES	☐ **Galvanized** An after fabrication hot dipped galvanized finish is our standard option. ☐ **Powder Coat** Our powder coat finish assures a high level of adhesion and durability by following these steps: 1. Sandblast 2. Epoxy primer electrostatically applied 3. Final thick TGIC polyester powder coat ☐ **Stainless** Stainless Steel: 304 grade stainless steel material finished in either a high polished shine or a satin finish.
MOUNT OPTIONS	☐ **Surface** Foot Mount has two 2.5" x 6" x .25" feet with two anchors per foot. Specify foot mount for this option. Tamper-resistant fasteners available upon request. ☐ **In-Ground** In-ground mount is embedded into concrete base. Specify in-ground mount for this option ☐ **Rail** Rail Mounted Downtown Racks are bolted to two parallel rails which can be set freestanding or anchored to the ground. Rails are heavy duty 3" x 1.4" x .376" thick galvanized mounting rails. Specify rail mount for this option.
OPTIONAL LEAN BAR	☐ **Add Lean Bar**



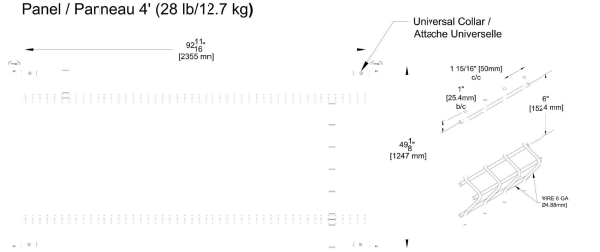
DERO | Two Tier Bike Locker — Submittal Sheet



CAPACITY	2 Bikes
MATERIALS	**Frame:** 1.5" x 14g square tube **Sides:** 18g plate **Doors:** 10g plate **Top:** 18g plate
FINISHES	☐ **Galvanized** An after fabrication hot dipped galvanized finish is our standard option. Pre-fabrication galvanizing is standard on panel components. ☐ **Powder Coat** Our powder coat finish assures a high level of adhesion and durability by following these steps: 1. Sandblast 2. Epoxy primer electrostatically applied 3. Final thick TGIC polyester powder coat
LOAD DATA	40 psf snow, 90 mph wind exposure B, high seismic
SETBACKS	Allow a 60" clearance from door face.
STANDARD	• Leveling feet • Ventilating window on doors • Graffiti resistant • UV resistant • Rot-resistant plastics • Gear hook (lower evel only) • Door closer (both evels)
LOCKING SYSTEM	☐ **Keyed Lock Only** ☐ **Padlock/U-Lock Handle**

OMEGA ARCHITECTURAL PANELS MOUNTED ON SQUARE POSTS (HEIGHT 4')
PANNEAUX OMEGA AFCHITECTURALE SUR POTEAUX CARRÉS (GRANDEUR 4')

Panel / Parneau 4' (28 lb/12.7 kg)



SYSTÈMES DE CLÔTURES omega II FENCE SYSTEMS

Omega II Fence Systems
1735, Blvd. St-Elzéar West
Laval, Quebec
H7L 3N6

Tel: 450-686-9600
1-800-836-6342
Fax: 450-681-5318
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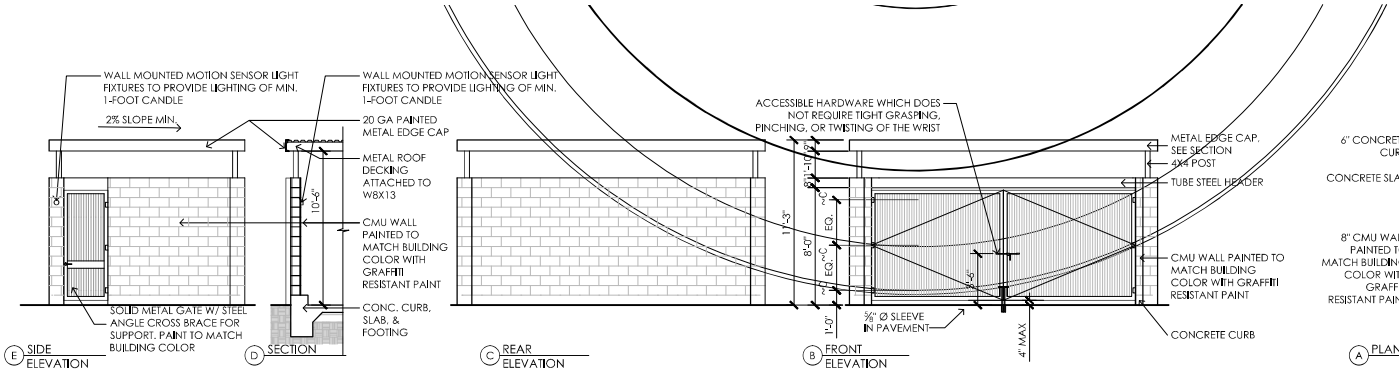
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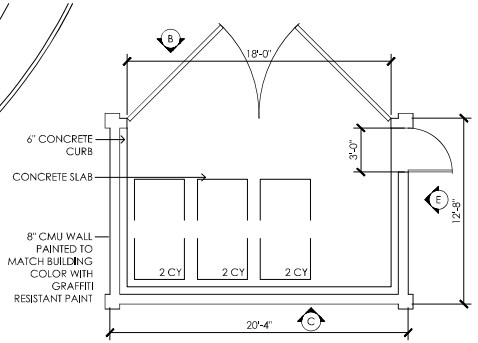
REVISION : 09/21

BIKE RACK — 4
NTS

BIKE LOCKER — 3
NTS

OMEGA FENCING — 2
NTS





TRASH ENCLOSURE — 1
1/4" = 1'-0"

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DUBLIN, CA 94568

SEAL

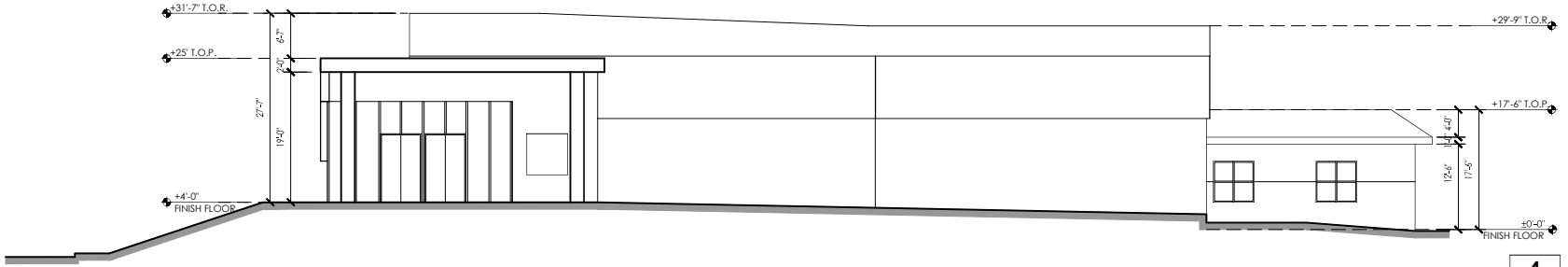
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1 5/13/2022
2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: AS NOTED

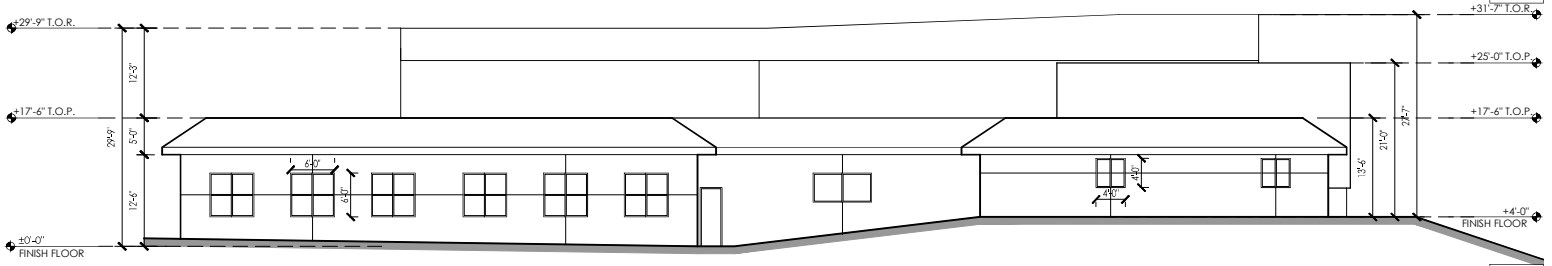
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SITE DETAILS

DRAWING NO:
Qp-12g

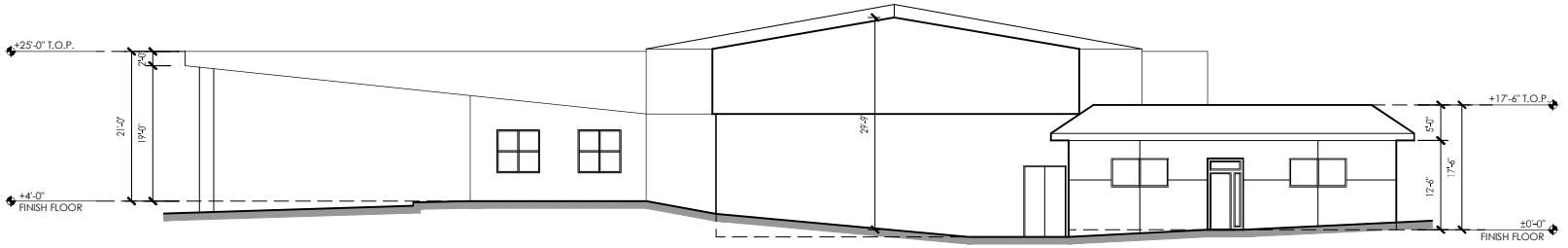
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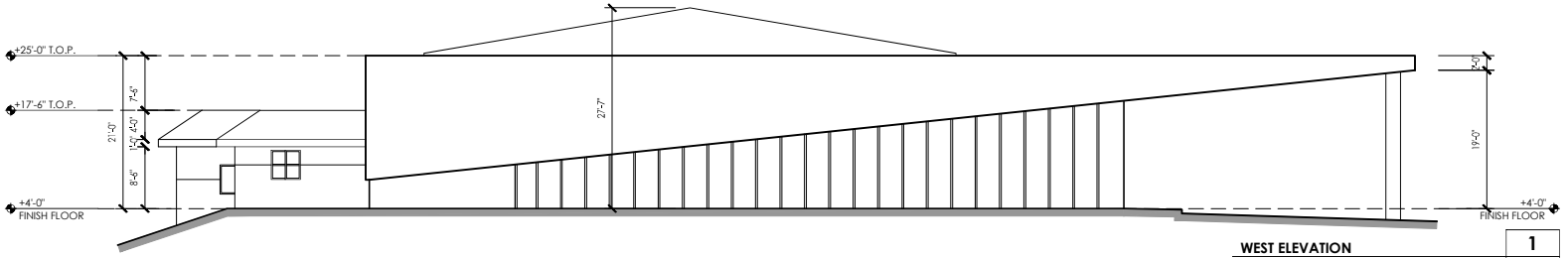
SOUTH ELEVATION 4
1/8" = 1'-0"



NORTH ELEVATION 3
1/8" = 1'-0"



EAST ELEVATION 2
1/8" = 1'-0"



WEST ELEVATION 1
1/8" = 1'-0"

NOTE: FOR COLORS AND MATERIALS SEE Qp-13 SERIES

ARCHITECTS
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925.930.9700 www.bkbcarch.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

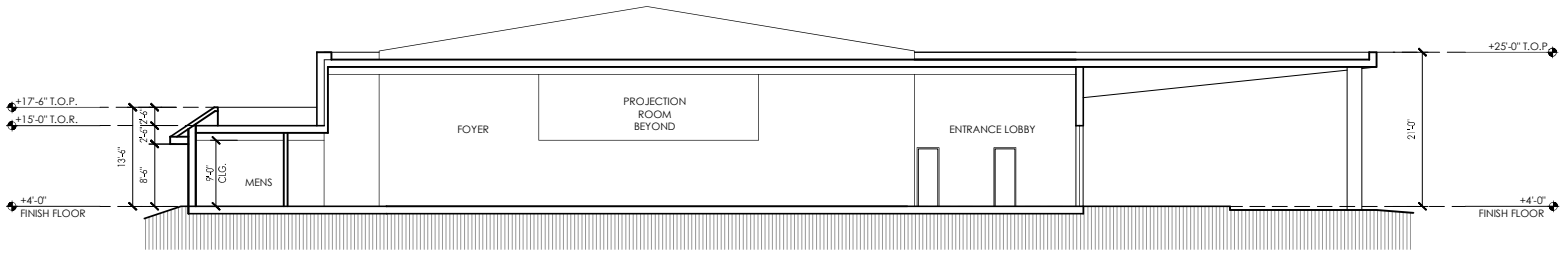
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ISSUES:
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2 8/4/2022
3 3/27/2023

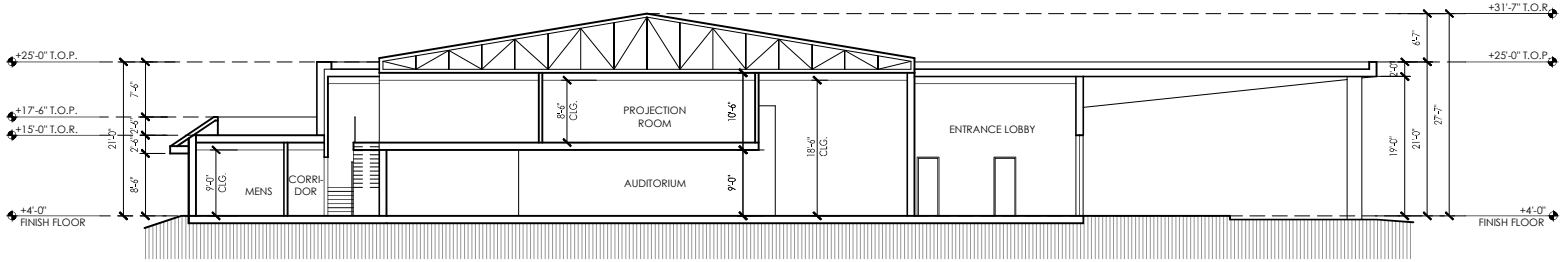
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DATE: 12/10/2021
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TITLE: ELEVATIONS

DRAWING NO: Qp-12h

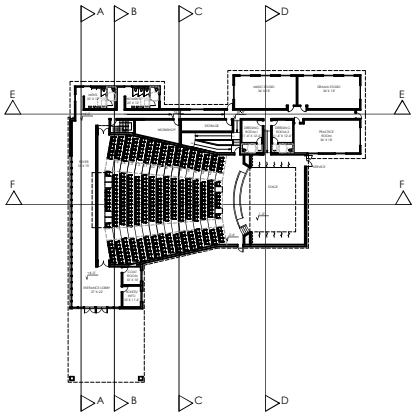
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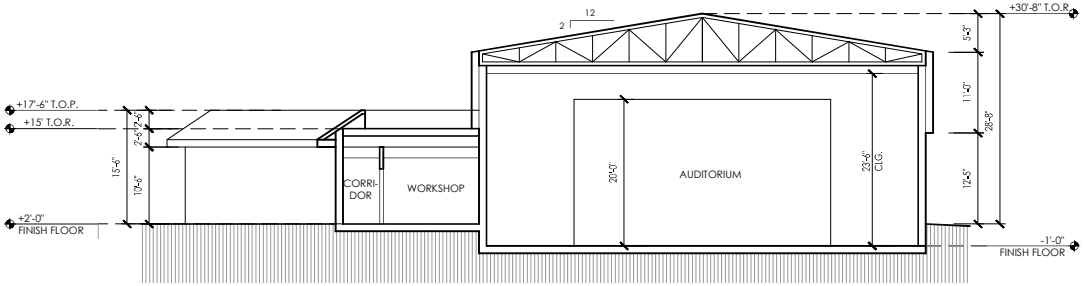
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SECTION B-B 2
1/8"=1'-0"



KEY PLAN 4
NTS



SECTION C-C 1
1/8"=1'-0"

ARCHITECTS
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WALNUT CREEK, CA 94596
925.930.9700 www.bkbcarch.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

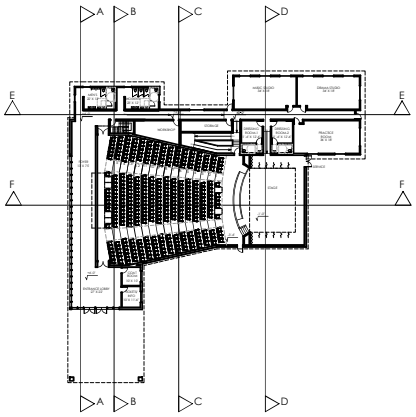
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ISSUES:
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2 8/4/2022
3 3/27/2023

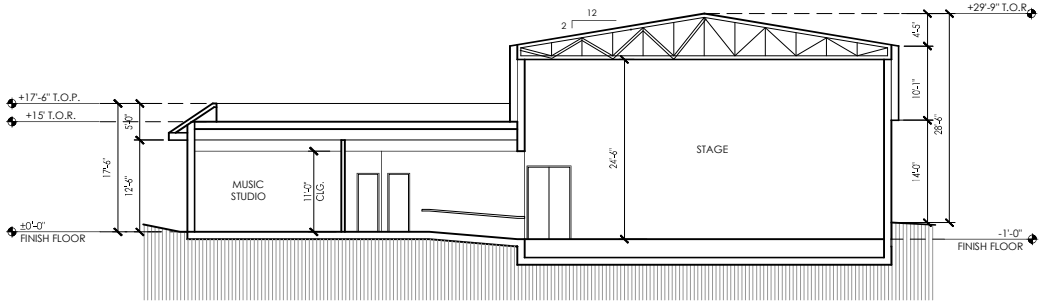
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DATE: 12/10/2021
SCALE: 1/8" =1'-0"
TITLE: SECTION

DRAWING NO:
Qp-12i

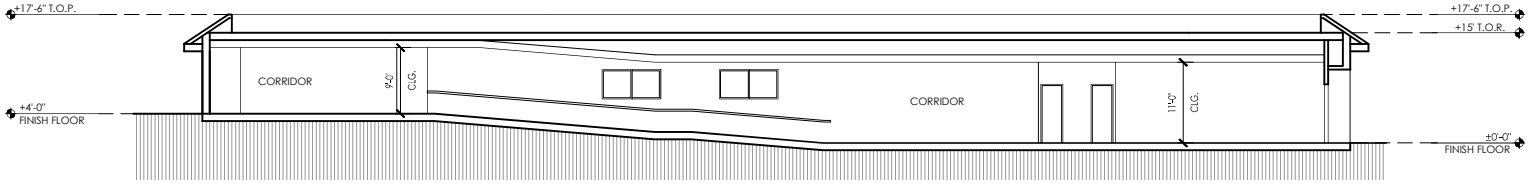
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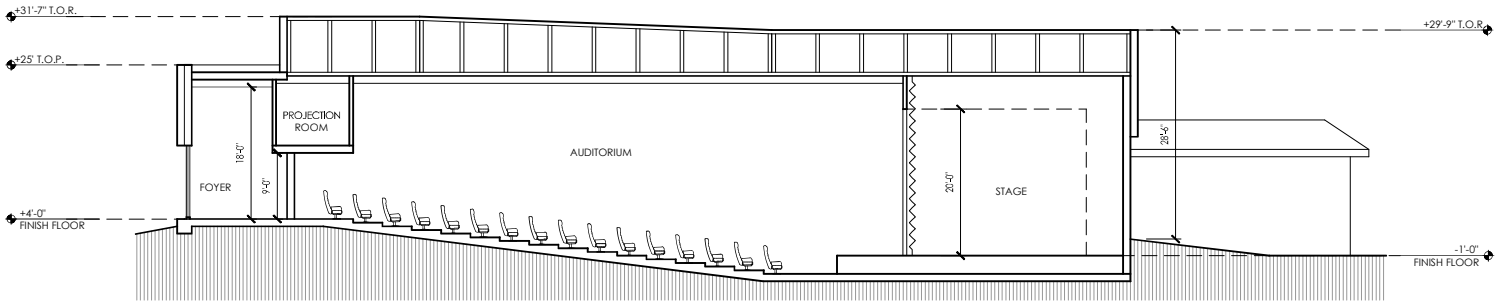
KEY PLAN 4
NTS



SECTION D-D 3
1/8"=1'-0"



SECTION E-E 2
1/8"=1'-0"



SECTION F-F 1
1/8"=1'-0"

ARCHITECTS
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925.930.9700 www.bkbcarch.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

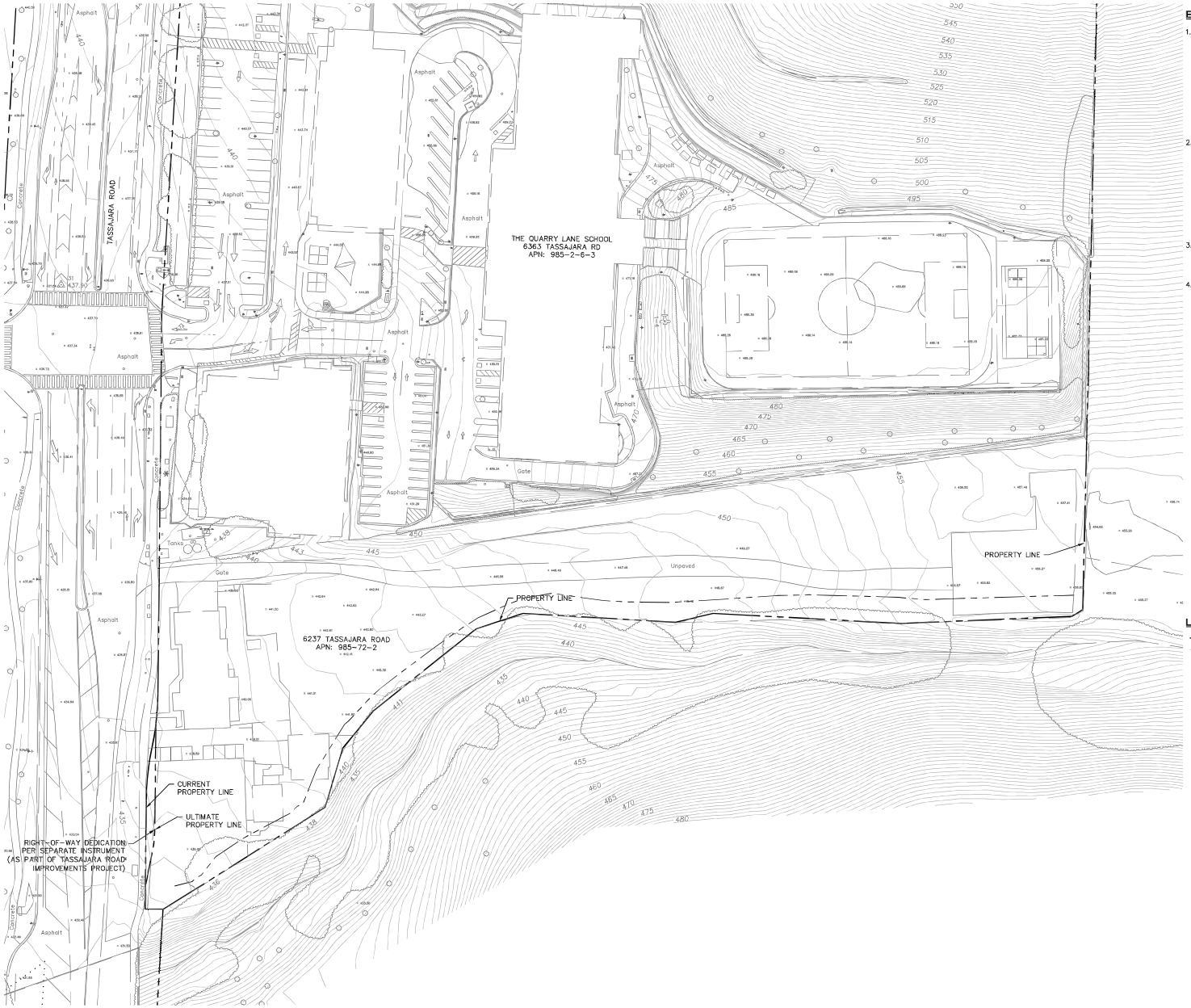
SEAL

ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: 1/8"=1'-0"
TITLE: SECTION

DRAWING NO:
Qp-12j

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EXISTING CONDITION NOTES

1. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE KNOWN UNDERGROUND UTILITIES. THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE OBTAINED FROM VARIOUS SOURCES, INCLUDING TOPOGRAPHIC FIELD SURVEYS, AND AS-BUILT DRAWINGS PROVIDED BY THE PROPERTY OWNER. ABANDONED UNDERGROUND UTILITIES MAY EXIST, THE LOCATION OF WHICH ARE NOT KNOWN. CONTRACTOR IS CAUTIONED THAT THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS MAY NOT BE THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS ENCOUNTERED IN THE FIELD.

2. ONLY EXCAVATION AND PHYSICAL EXPOSURE WILL REVEAL THE ACTUAL TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING EXISTING UNDERGROUND UTILITIES WITHIN THE AREA OF WORK. CONTRACTOR SHALL RETAIN A PRIVATE UTILITY LOCATOR TO IDENTIFY EXISTING UTILITIES. THE CONTRACTOR SHALL POTHOLE AS NECESSARY AT CONNECTION LOCATIONS AND PROPOSED UTILITY CROSSINGS TO FULLY LOCATE AND IDENTIFY EXISTING UTILITIES. POTHOLING SHALL BE DONE AND THE RESULTS, INCLUDING ANY CONFLICTS IDENTIFIED, REPORTED TO THE ENGINEER PRIOR TO THE START OF WORK.

3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK TO AVOID CONFLICTS BETWEEN SEWER LATERALS, STORM DRAINS, WATER MAINS, AND ALL OTHER UNDERGROUND UTILITIES.

4. UTILITY INFORMATION IS OBTAINED BY AS-BUILT INFORMATION AS WELL AS SURVEY OBSERVATION. ALL EXISTING UTILITY INFORMATION IN THIS PLAN SET IS IDENTIFIED PER THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD FOR LEVEL OF QUALITY. BELOW IS A LIST OF THE LEVEL OF QUALITY CATEGORIES WITH THE ASSOCIATED DEFINITION PER ASCE STANDARDS.

   (A) – PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. A PRECISE HORIZONTAL AND VERTICAL LOCATION, AS WELL AS OTHER UTILITY ATTRIBUTES, IS SHOWN ON PLAN DOCUMENTS. ACCURACY IS TYPICALLY SET TO 15-MM VERTICAL AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY AS DEFINED OR EXPECTED BY THE PROJECT OWNER.

   (B) – INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QUALITY LEVEL B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

   (C) – INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

   (D) – UTILITY LOCATION INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

LEGEND

PROPERTY LINE

450 EXISTING CONTOUR LINE

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

CIVIL ENGINEERS
BKF
300 FRANK OGAWA PLAZA
SUITE 300
OAKLAND, CA 94612
(510) 899-7300
www.bkf.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

SEAL

REGISTERED PROFESSIONAL ENGINEER
No. C 72285
Exp. 6.30.2022
CIVIL
STATE OF CALIFORNIA

ISSUES:

PROJECT NUMBER:	2104
DRAWN: AR	CHECKED: KW
DATE:	04/22/2022
SCALE:	AS SHOWN

TITLE:
EXISTING CONDITIONS

DRAWING NO:
C1.00

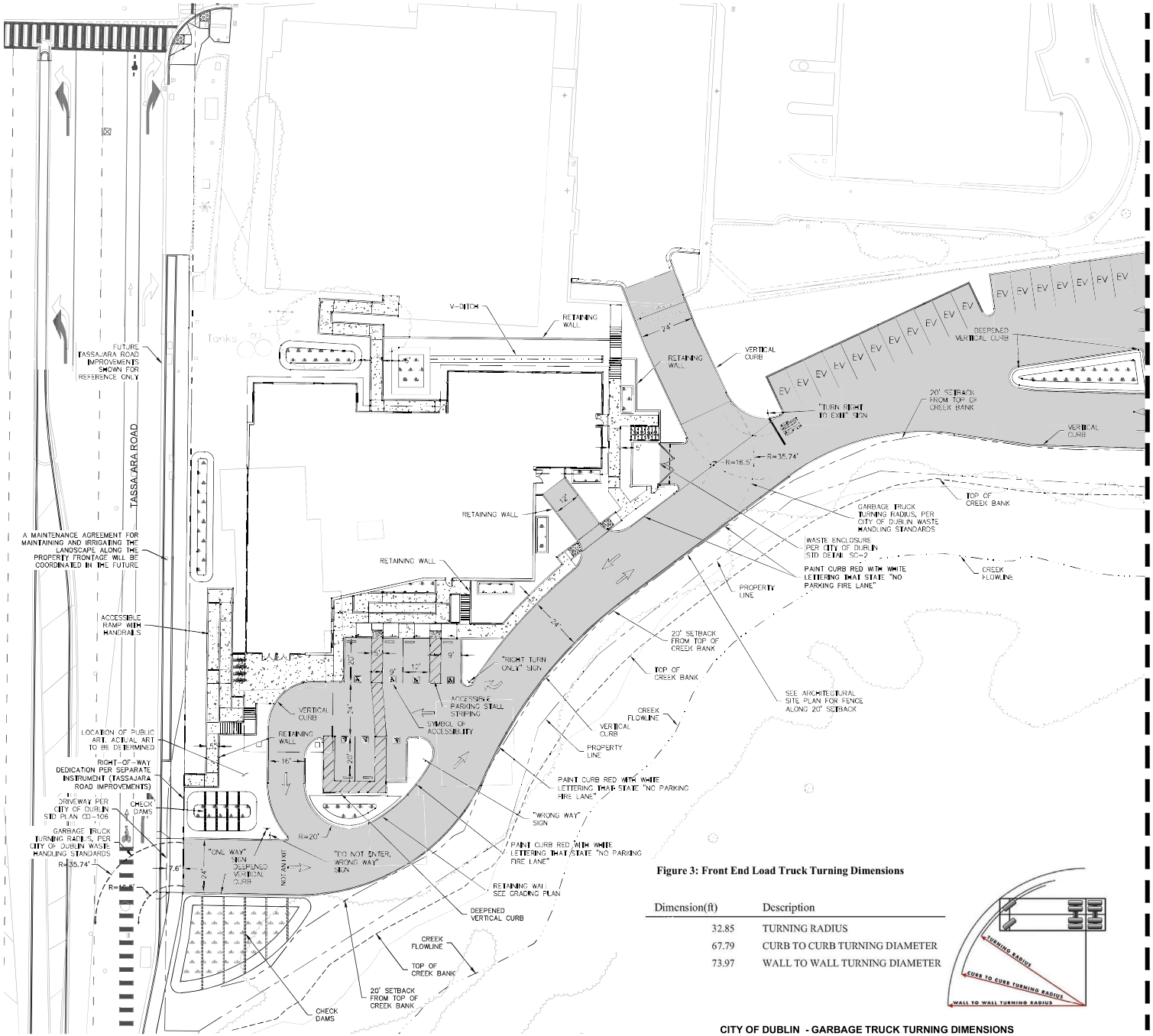


Figure 3: Front End Load Truck Turning Dimensions

Dimension(ft)	Description
32.85	TURNING RADIUS
67.79	CURB TO CURB TURNING DIAMETER
73.97	WALL TO WALL TURNING DIAMETER

CITY OF DUBLIN - GARBAGE TRUCK TURNING DIMENSIONS

LEGEND

- PROPERTY LINE/RIGHT OF WAY DEDICATION
- TASSAJARA CREEK FLOWLINE
- TOP OF CREEK BANK
- 20' SETBACK FROM TOP OF CREEK BANK
- ASPHALT CONCRETE PAVEMENT SECTION 4" AC OVER 11" CLASS II AB Ti=6, R-VALUE=10
- PEDESTRIAN CONCRETE PAVEMENT SECTION 4" PCC OVER 4" CLASS II AB #4 REBAR, SPACED 18" O.C. EACH WAY. SLD FOR COLOR AND FINISH
- FULL DEPTH ASPHALT PLUG
- DETECTABLE WARNING SURFACE (TRUNCATED DOMES)
- STORMWATER TREATMENT MEASURE

SURFACE IMPROVEMENTS NOTES

1. THE LIMITS OF WORK ARE APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING SURROUNDINGS, LANDSCAPE, AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION, AVOIDING ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS-SLOPES OR HAZARDOUS CONDITIONS.
2. EXISTING CONCRETE SHALL BE REMOVED AT THE NEAREST EXPANSION JOINTS.
3. NEW WORK SHALL MATCH EXISTING AS CLOSELY AS POSSIBLE IN FINISH, SCORING, AND COLOR.
4. EXISTING SITE FEATURES (CURBS, CONCRETE WALKS, LANDSCAPE, IRRIGATION, ETC.) DEMOLISHED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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(510) 899-7300
www.bkf.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

SEAL
REGISTERED PROFESSIONAL ENGINEER — No. C 72285 Exp. 6.30.2022 CIVIL — STATE OF CALIFORNIA

ISSUES:

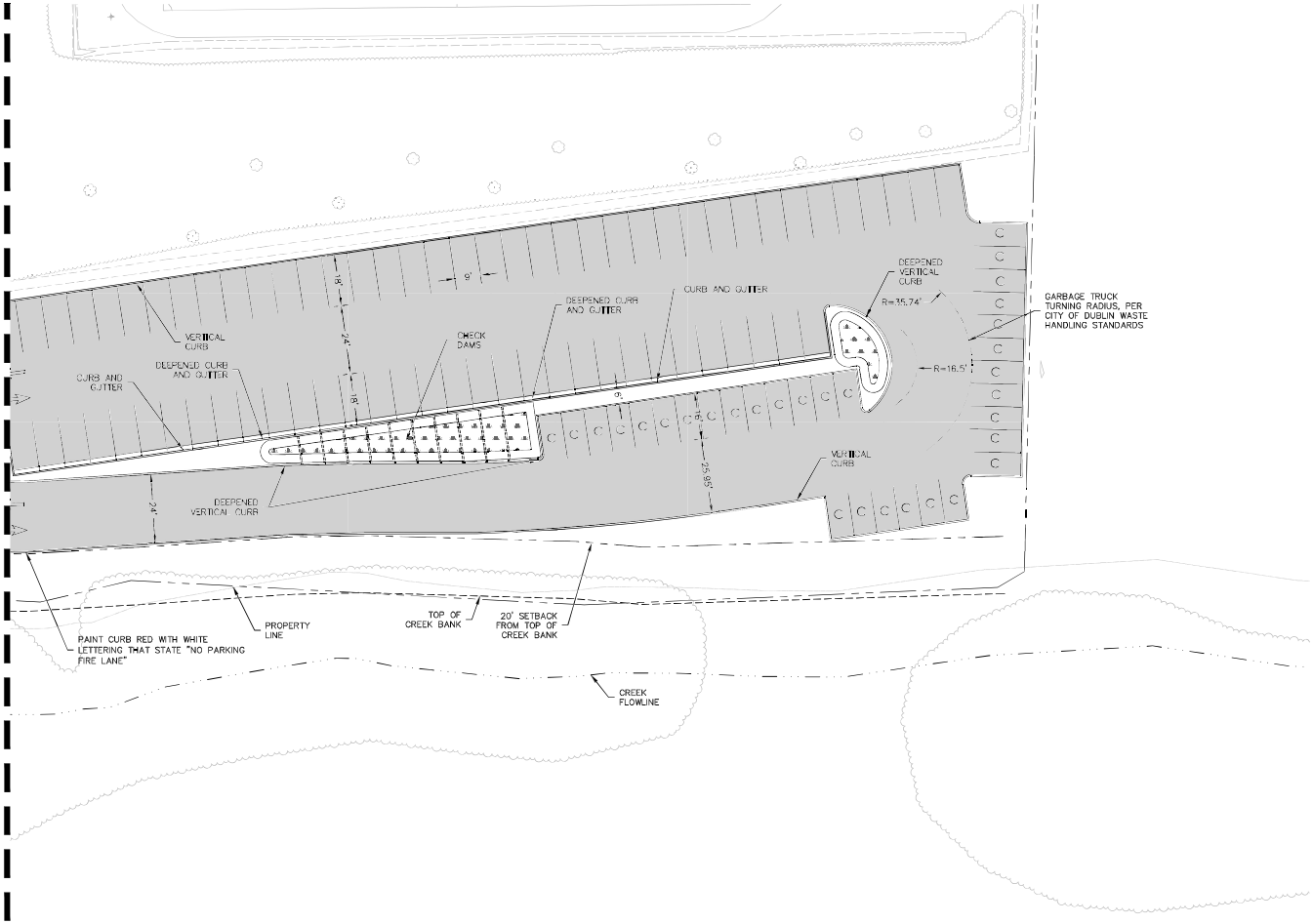
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DRAWN: AR CHECKED: KW
DATE: 04/22/2022
SCALE: AS SHOWN

TITLE:
SITE LAYOUT

DRAWING NO:
C2.00

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MATCHLINE, SEE SHEET C2.00 FOR CONTINUATION



LEGEND

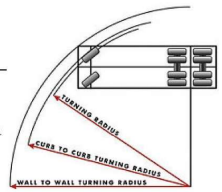
- PROPERTY LINE/RIGHT OF WAY DEDICATION
- TASSAJARA CREEK FLOWLINE
- TOP OF CREEK BANK
- 20' SETBACK FROM TOP OF CREEK BANK
- ASPHALT CONCRETE PAVEMENT SECTION 4" AC OVER 11" CLASS II AB TI=6, R-VALUE=10
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Figure 3: Front End Load Truck Turning Dimensions

Dimension(ft)	Description
32.85	TURNING RADIUS
67.79	CURB TO CURB TURNING DIAMETER
73.97	WALL TO WALL TURNING DIAMETER



CITY OF DUBLIN - GARBAGE TRUCK TURNING DIMENSIONS

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

CIVIL ENGINEERS
BKF
300 FRANK OGAWA PLAZA
SUITE 300
OAKLAND, CA 94612
(510) 899-7300
www.bkf.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

SEAL
REGISTERED PROFESSIONAL ENGINEER CIVIL
No. C 72285
Exp. 6.30.2022
CIVIL
STATE OF CALIFORNIA

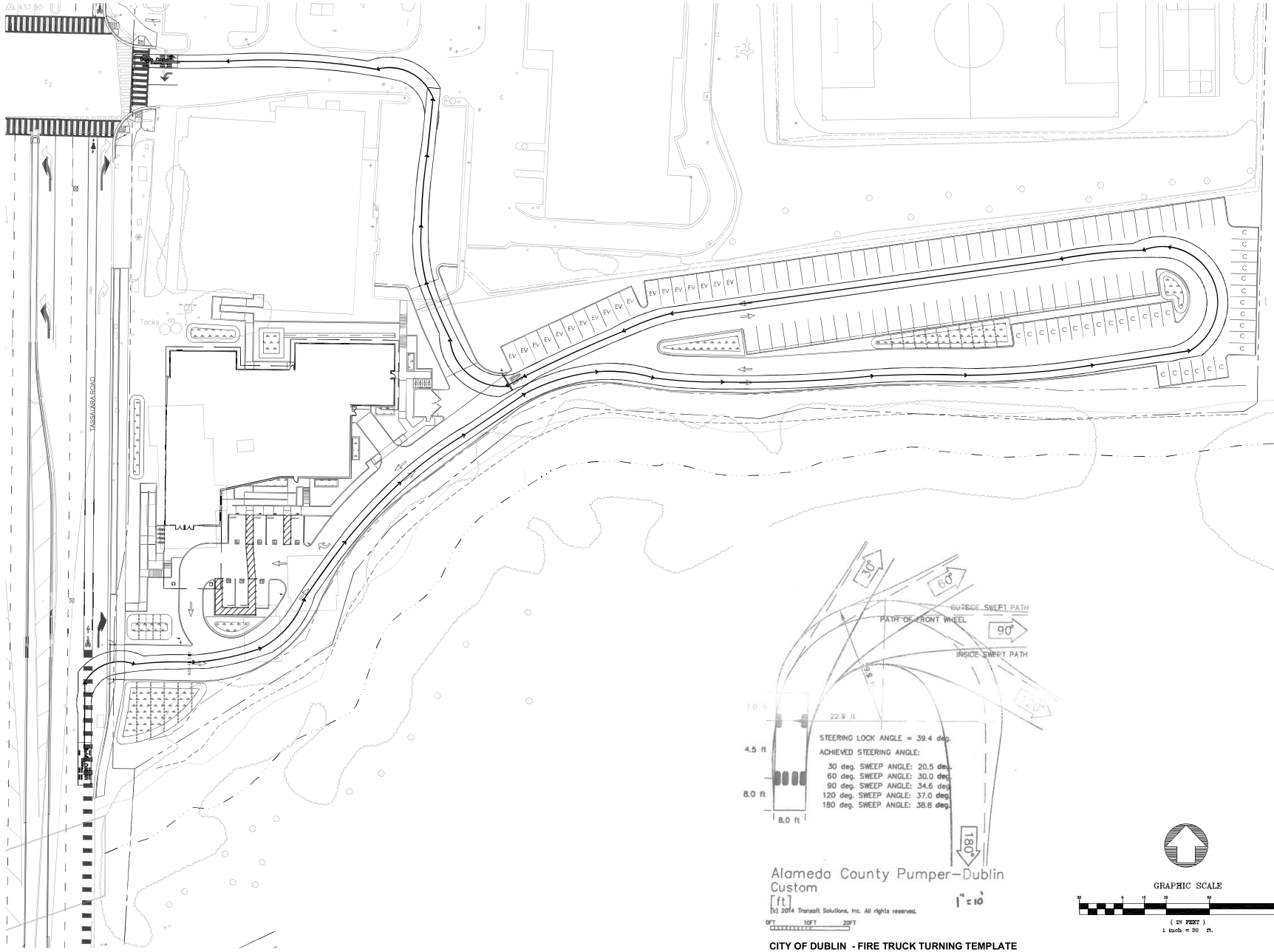
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PROJECT NUMBER: 2104
DRAWN: AR CHECKED: KW
DATE: 04/22/2022
SCALE: AS SHOWN

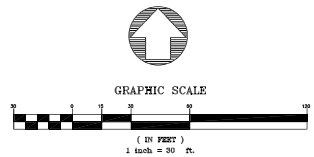
TITLE:
SITE LAYOUT

DRAWING NO:
C2.01

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CITY OF DUBLIN - FIRE TRUCK TURNING TEMPLATE



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SUITE 300
OAKLAND, CA 94612
(510) 899-7300
www.bkf.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

SEAL
REGISTERED PROFESSIONAL ENGINEER
KEVIN W. KING
No. C 72285
Exp. 6.30.2022
CIVIL
STATE OF CALIFORNIA

ISSUES:

PROJECT NUMBER:	2104
DRAWN: AR	CHECKED: KW
DATE:	04/22/2022
SCALE:	AS SHOWN

TITLE:
FIRE ACCESS PLAN

DRAWING NO:
C2.02



GRADING NOTES

1. PROPOSED SITE PLAN AND UTILITIES HAS BEEN SCREENED FOR CLARITY.
2. GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE PROJECT GEOTECHNICAL REPORT.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN TOLERANCE OF ONE-TENTH OF A FOOT IN LANDSCAPED AREAS AND TWO-HUNDREDTHS OF A FOOT IN HARDSCAPED OR PAVED AREAS. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE OWNER.
4. CONTRACTOR SHALL FIELD VERIFY FINISHED FLOOR ELEVATIONS OF EXISTING BUILDINGS PRIOR TO STARTING CONSTRUCTION.
5. CONTRACTOR SHALL TAKE CAUTION WHEN GRADING ADJACENT TO EXISTING BUILDINGS, TO PROTECT EXISTING FOUNDATIONS AND TO NOT TO COVER EXISTING VENTS.
6. RIMS OF UTILITY STRUCTURES SHALL BE ADJUSTED TO FINISHED GRADE IN AREAS OF RE-GRADING. IN PAVED AREAS, ELEVATION DIFFERENCE SHALL NOT BE MORE THAN ½ INCH BETWEEN RIMS AND ADJACENT SURFACE.
7. WHERE IMPROVEMENTS INVOLVE ADA ACCESSIBILITY, CONTRACTOR'S ATTENTION IS DIRECTED TO THE FOLLOWING PARAMETERS THAT NEED TO BE MET WITH THE FINISHED CONSTRUCTION:
   a. WALKWAYS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4.9% AND A MAXIMUM CROSS SLOPE OF 2%
   b. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS, INCLUDING DIAGONAL.
   c. ADA PARKING STALLS AND STRIPED AISLE SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS, INCLUDING DIAGONAL.
   d. TRANSITIONS BETWEEN PROPOSED IMPROVEMENTS AND EXISTING CONDITIONS SHALL BE SMOOTH AND FREE OF ABRUPT CHANGES.

* **CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AT CONFORMS PRIOR TO FORMING/AC WORK.**

LEGEND

- PROPERTY LINE
- 450 PROPOSED CONTOUR LINE
- 450 EXISTING CONTOUR LINE
- GRADE BREAK
- 2.0% SLOPE DIRECTION

PRELIMINARY EARTHWORK QUANTITIES

CUT = 3,150 CY
FILL = 375 CY
NET CUT = 2,775 CY

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

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CIVIL ENGINEERS
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300 FRANK OGAWA PLAZA
SUITE 300
OAKLAND, CA 94612
(510) 899-7300
www.bkf.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

SEAL
REGISTERED PROFESSIONAL ENGINEER — CIVIL — No. C 72285 Exp. 6.30.2022 — CIVIL — STATE OF CALIFORNIA

ISSUES:

PROJECT NUMBER:	2104
DRAWN: AR	CHECKED: KW
DATE:	04/22/2022
SCALE:	AS SHOWN

TITLE:
SITE GRADING

DRAWING NO:
C3.00

ALL IDEAS, DESIGN, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF BKBC ARCHITECTS INC., AND WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON, AND IN CONNECTION WITH THIS PROJECT. NONE OF SUCH IDEAS, DESIGN, ARRANGEMENTS, OR PLANS SHALL BE USED BY, OR DISCLOSED TO, ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BKBC ARCHITECTS INC. FILING THESE DRAWINGS OR SPECIFICATIONS WITH ANY PUBLIC AGENCY IS NOT A PUBLICATION OF SAME. NO COPYING, REPRODUCTION OR USE THEREOF IS PERMISSIBLE WITHOUT THE CONSENT OF BKBC ARCHITECTS INC.



GRADING NOTES

1. PROPOSED SITE PLAN AND UTILITIES HAS BEEN SCREENED FOR CLARITY.
2. GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE PROJECT GEOTECHNICAL REPORT.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN TOLERANCE OF ONE-TENTH OF A FOOT IN LANDSCAPED AREAS AND TWO-HUNDREDTHS OF A FOOT IN HARDSCAPED OR PAVED AREAS. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE OWNER.
4. CONTRACTOR SHALL FIELD VERIFY FINISHED FLOOR ELEVATIONS OF EXISTING BUILDINGS PRIOR TO STARTING CONSTRUCTION.
5. CONTRACTOR SHALL TAKE CAUTION WHEN GRADING ADJACENT TO EXISTING BUILDINGS, TO PROTECT EXISTING FOUNDATIONS AND TO NOT TO COVER EXISTING VENTS.
6. RIMS OF UTILITY STRUCTURES SHALL BE ADJUSTED TO FINISHED GRADE IN AREAS OF RE-GRADING. IN PAVED AREAS, ELEVATION DIFFERENCE SHALL NOT BE MORE THAN ½ INCH BETWEEN RIMS AND ADJACENT SURFACE.
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*** CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AT CONFORMS PRIOR TO FORMING/AC WORK.**

LEGEND

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- GRADE BREAK
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PRELIMINARY EARTHWORK QUANTITIES

CUT = 3,150 CY
FILL = 375 CY
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GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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SEAL
REGISTERED PROFESSIONAL ENGINEER CIVIL No. C 72285 Exp. 6.30.2022 CIVIL STATE OF CALIFORNIA

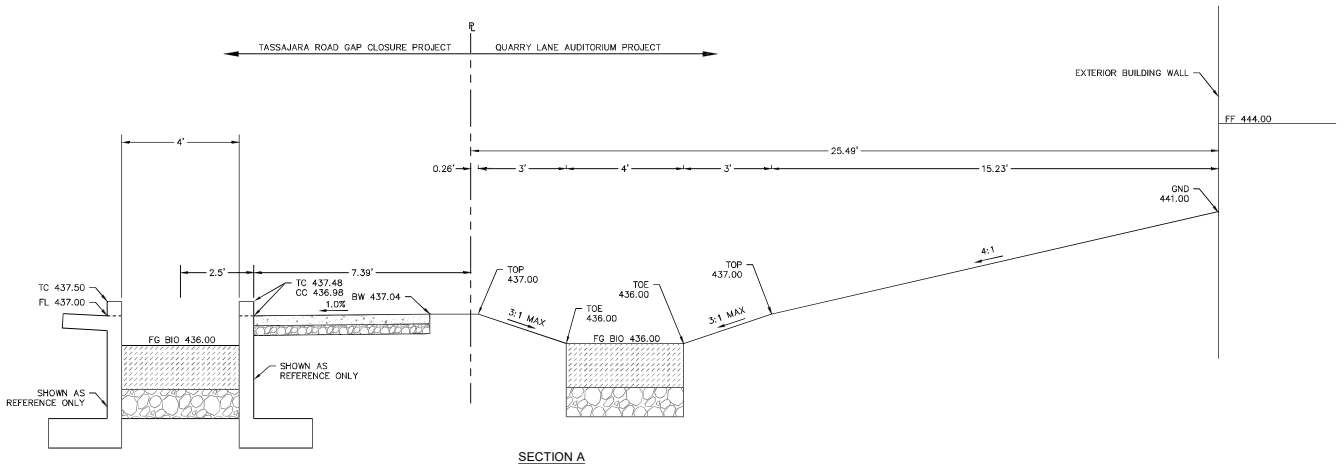
ISSUES:

PROJECT NUMBER: 2104
DRAWN: AR CHECKED: KW
DATE: 04/22/2022
SCALE: AS SHOWN

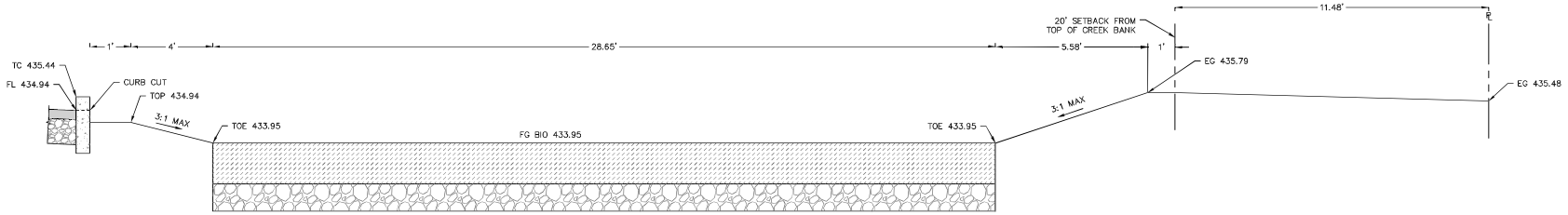
TITLE:
SITE GRADING

DRAWING NO:
C3.01

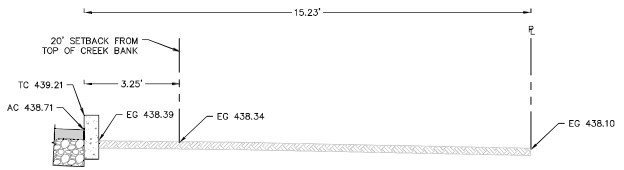
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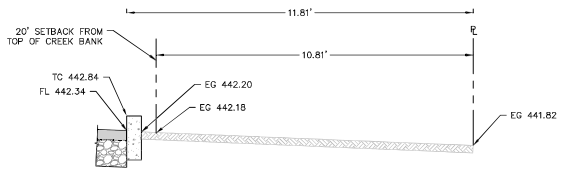
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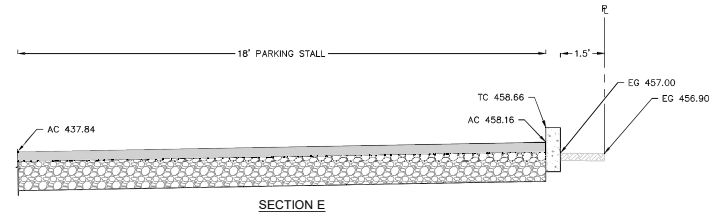
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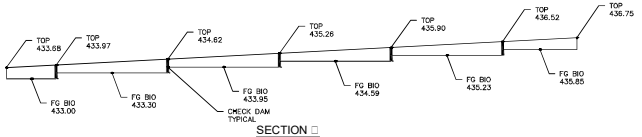
SECTION C



SECTION D



SECTION E



SECTION □

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PROJECT
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DUBLIN, CA 94568

SEAL
REGISTERED PROFESSIONAL ENGINEER
KEVIN W. WONG
No. C 72285
Exp. 6.30.2022
CIVIL
STATE OF CALIFORNIA

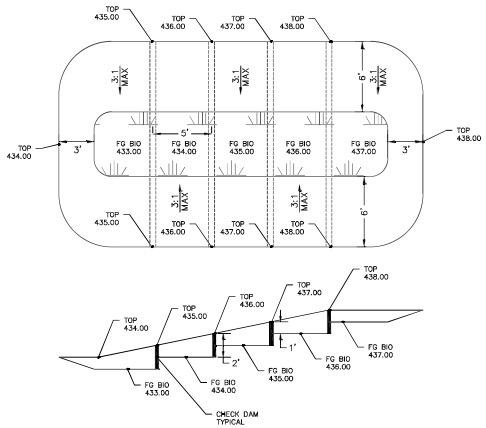
ISSUES:

PROJECT NUMBER: 2104
DRAWN: AR CHECKED: KW
DATE: 04/22/2022
SCALE: AS SHOWN

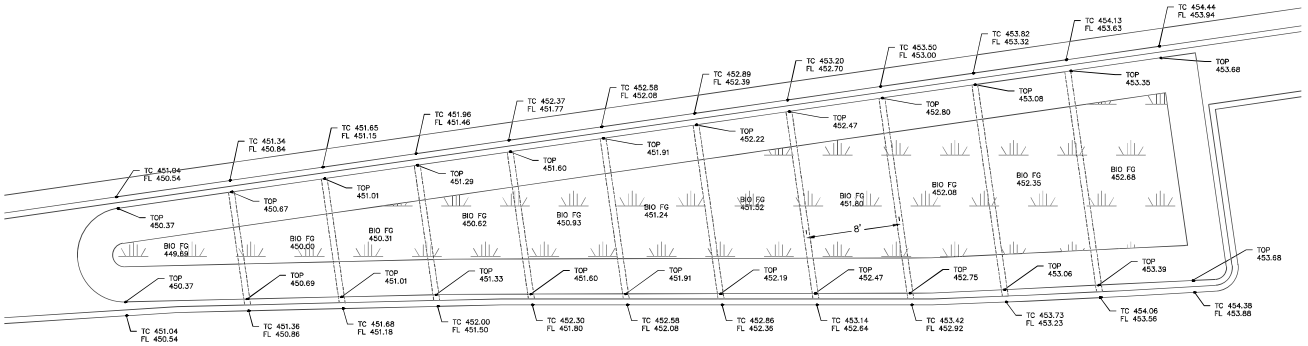
TITLE:
GRADING SECTIONS

DRAWING NO:
C3.02

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DETAIL F



DETAIL H

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SEAL
REGISTERED PROFESSIONAL ENGINEER
KEVIN W. WONG
No. C 72285
Exp. 6.30.2022
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STATE OF CALIFORNIA

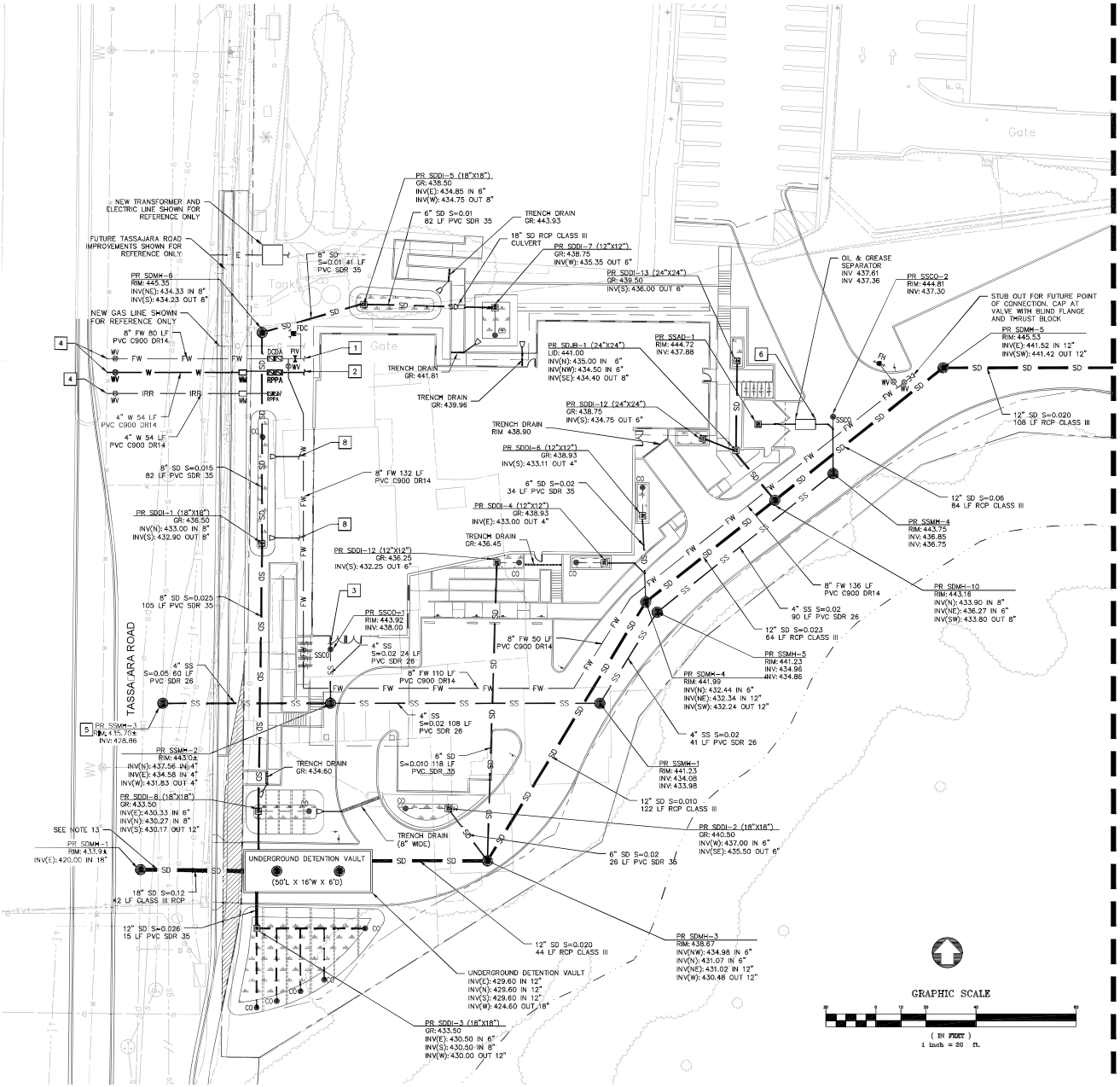
ISSUES:

PROJECT NUMBER: 2104
DRAWN: AR CHECKED: KW
DATE: 04/22/2022
SCALE: AS SHOWN

TITLE:
GRADING DETAILS

DRAWING NO:
C3.03

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MATCHLINE, SEE SHEET C1.00 FOR CONTINUATION

LEGEND AND SYMBOLS

SD	PR STORM DRAIN LINE, SEE DETAIL X/CX.X
	PR PERFORATED PIPE, SEE DETAIL X/CX.X
SS	PR SANITARY SEWER LINE, SEE DETAIL X/CX.X
FW	PR FIRE WATER LINE, SEE DETAIL X/CX.X
W	PR DOMESTIC WATER LINE, SEE DETAIL X/CX.X
SDDI	PR STORM DRAIN DROP INLET, SEE DETAIL X/CX.X
SDAD	PR AREA DRAIN, SEE DETAIL X/CX.X
SDMH	PR STORM DRAIN MANHOLE, SEE DETAIL X/CX.X
SDCO	PR STORM DRAIN CLEANOUT, SEE DETAIL X/CX.X
SSCO	PR STORM DRAIN CLEANOUT, SEE DETAIL X/CX.X
SSMH	PR SANITARY SEWER MANHOLE, SEE DETAIL X/CX.X
BFV	PR BACKWATER VALVE, SEE DETAIL X/CX.X
WV	PR GATE VALVE, SEE DETAIL X/CX.X
WM	PR WATER METER, SEE DETAIL X/CX.X
RPPA	PR RPPA BACKFLOW PREVENTER, SEE DETAIL X/CX.X
DCDA	PR DCDA BACKFLOW PREVENTER, SEE DETAIL X/CX.X
FDC	PR FIRE DEPARTMENT CONNECTION, SEE DETAIL X/CX.X
PIV	PR POST INDICATOR VALVE, SEE DETAIL X/CX.X
FH	PR FIRE HYDRANT, SEE DETAIL X/CX.X

UTILITY NOTES

1. PROPOSED SITE PLAN HAS BEEN SCREENED FOR CLARITY.
2. RIM ELEVATIONS FOR EXISTING UTILITY STRUCTURES SHALL BE RAISED TO PROPOSED SURFACE ELEVATIONS. EXISTING STRUCTURES LOCATED WITHIN PROPOSED VEHICULAR ROADWAY, AN H-20 TRAFFIC-RATED TOP SHALL BE USED TO REPLACE THE EXISTING TOP OF THE ADJUSTED STRUCTURE. ALL STRUCTURES WITHIN THE PEDESTRIAN PATHWAY SHALL MEET ADA REQUIREMENTS. STRUCTURES WITH GRATES SHALL HAVE OPENINGS 1/2" MAXIMUM WIDE AND ELONGATED IN THE DIRECTION PERPENDICULAR TO THE DIRECTION OF DOMINANT PEDESTRIAN TRAVEL.
3. PROTECT ALL EXISTING UTILITIES AND SITE FEATURES FROM BEING DAMAGED, UNLESS OTHERWISE NOTED. ALL UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER.
4. THE EXISTING UTILITY LINES AND STRUCTURES SHOWN ON THESE PLANS ARE DERIVED FROM RECORD DATA, UNDERGROUND UTILITY SURVEY AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES AND STRUCTURES NOT SHOWN ON THIS PLAN, SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
5. THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS AND TEES ON WATER MAINS & FIRE SERVICE LINES. CONTRACTOR MAY USE RESTRAIN JOINTS INSTEAD OF THRUST BLOCKS AT ALL BENDS AND TEES. CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE RESTRAIN JOINT LENGTH.
6. EXISTING UNDERGROUND UTILITIES, INCLUDING THOSE MARKED UNKNOWN, ARE BASED ON SURVEY COMPLETED BY OTHERS AND PROVIDED TO BKF ENGINEERS FOR INCLUSION IN PLANS.
7. EXISTING PIPE LINES MAY HAVE CATHODIC PROTECTION. CONTRACTOR SHALL ENSURE THAT ALL CONNECTIONS TO EXISTING PIPE LINES ARE ELECTRICALLY COMMON WITH THE PIPE LINE.
8. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
9. LENGTH OF PIPES ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF STRUCTURES, ROUNDED TO THE NEAREST FOOT AND ARE SHOWN FOR ENGINEERING CALCULATIONS ONLY. CONTRACTOR SHALL ESTIMATE THEIR OWN PIPE LENGTHS PRIOR TO BIDDING.
10. FIRE SERVICE SIZE IS SHOWN FOR REFERENCE ONLY. FIRE SERVICE SIZE SHALL BE CONFIRMED BY A LICENSED FIRE PROTECTION ENGINEER OR DESIGN-BUILD CONTRACTOR IN CONJUNCTION WITH THE FIRE SPRINKLER SYSTEM DESIGN AND CALCULATIONS. CONTRACTOR IS CAUTIONED NOT TO ORDER ANY MATERIALS RELATED TO THE FIRE SERVICE UNTIL SAID SIZING IS CONFIRMED. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), SHOP DRAWINGS OF THE FIRE SERVICE SHALL BE SUBMITTED TO THE AHJ BY THE INSTALLING CONTRACTOR. SHOP DRAWINGS OF THE FIRE SERVICE ARE NOT REQUIRED TO BE SUBMITTED TO THE CIVIL ENGINEER OF RECORD.
11. TRASH CAPTURE DEVICES SHALL BE USED ON ALL DRAIN INLETS.
12. ALL PUBLIC AND PRIVATE STORM DRAIN INLETS SHALL BE MARKED WITH THE WORDS "NO DUMPING DRAINS TO CREEK".
13. THE EXISTING SANITARY SEWER MAIN IS APPROXIMATELY 20 FEET BELOW EXISTING GRADE TO THE NORTH OF THE PROPOSED STORM DRAIN CROSSING. THE INVERT ELEVATION AT THE DOWNSTREAM MANHOLE TO THE SOUTH OF THE PROPOSED STORM DRAIN CROSSING IS UNKNOWN AND A LONGER MEASUREMENT ROD IS REQUIRED TO DETERMINE THE DEPTH. IT IS UNLIKELY THAT THE PROPOSED STORM DRAIN LINE WILL BE IN CONFLICT WITH EXISTING SEWER MAIN.

UTILITY KEYNOTES

1. 6" FIRE WATER BUILDING POINT OF CONNECTION. SEE PLUMBING DRAWINGS FOR CONTINUATION
2. 4" DOMESTIC WATER BUILDING POINT OF CONNECTION. SEE PLUMBING DRAWINGS FOR CONTINUATION
3. 4" SANITARY SEWER BUILDING POINT OF CONNECTION. SEE PLUMBING DRAWINGS FOR CONTINUATION
4. CONNECT TO EXISTING WATER MAIN PER DUBLIN SAN RAMON SERVICES DISTRICT STANDARDS
5. CONNECT TO EXISTING SEWER MAIN PER DUBLIN SAN RAMON SERVICES DISTRICT DETAIL DETAIL S-9
6. GREASE AND SAND TRAP PER DUBLIN SAN RAMON SERVICES DISTRICT DETAIL DETAIL S-12A
7. IRRIGATION POINT OF CONNECTION. SEE IRRIGATION DRAWINGS FOR CONTINUATION
8. CONNECT TO RAIN WATER LEADER/DOWNSPOUT. SEE PLUMBING/ARCHITECTURAL DRAWINGS

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SEAL
REGISTERED PROFESSIONAL ENGINEER — CIVIL — No. C 72285 — Exp. 6.30.2022 — STATE OF CALIFORNIA

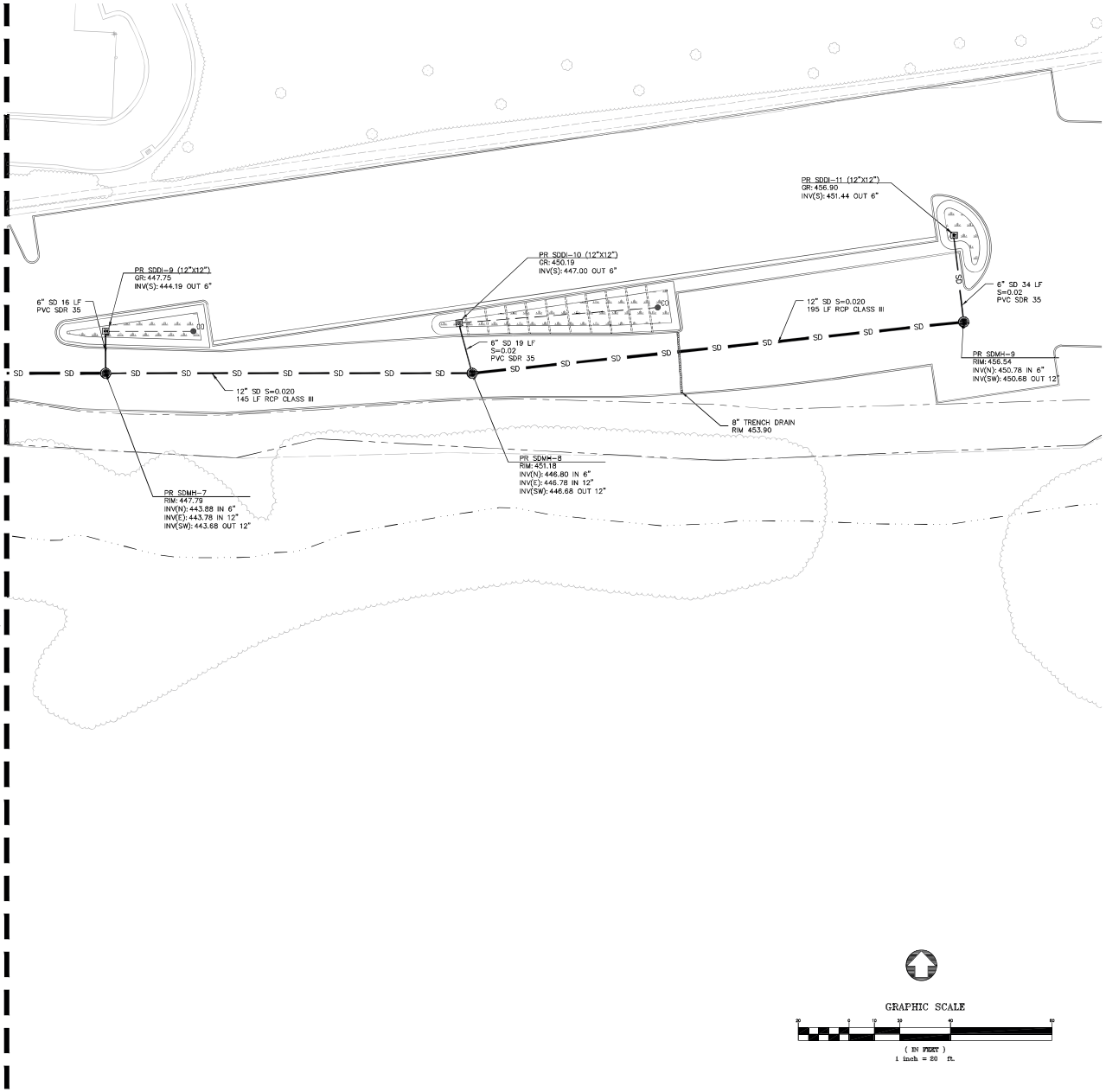
ISSUES:

PROJECT NUMBER: 2104
DRAWN: AR CHECKED: KW
DATE: 04/22/2022
SCALE: AS SHOWN

TITLE:
SITE UTILITY PLAN

DRAWING NO:
C4.00

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GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

LEGEND AND SYMBOLS

SD	PR STORM DRAIN LINE, SEE DETAIL X/CX.X
	PR PERFORATED PIPE, SEE DETAIL X/CX.X
SS	PR SANITARY SEWER LINE, SEE DETAIL X/CX.X
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SDMH	PR STORM DRAIN MANHOLE, SEE DETAIL X/CX.X
SDCO	PR STORM DRAIN CLEANOUT, SEE DETAIL X/CX.X
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RPPA	PR RPPA BACKFLOW PREVENTER, SEE DETAIL X/CX.X
DCDA	PR DCDA BACKFLOW PREVENTER, SEE DETAIL X/CX.X
FDC	PR FIRE DEPARTMENT CONNECTION, SEE DETAIL X/CX.X
PIV	PR POST INDICATOR VALVE, SEE DETAIL X/CX.X
FH	PR FIRE HYDRANT, SEE DETAIL X/CX.X

UTILITY NOTES

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3. PROTECT ALL EXISTING UTILITIES AND SITE FEATURES FROM BEING DAMAGED, UNLESS OTHERWISE NOTED. ALL UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER.
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5. THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS AND TEES ON WATER MAINS & FIRE SERVICE LINES. CONTRACTOR MAY USE RESTRAIN JOINTS INSTEAD OF THRUST BLOCKS AT ALL BENDS AND TEES. CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE RESTRAIN JOINT LENGTH.
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10. FIRE SERVICE SIZE IS SHOWN FOR REFERENCE ONLY. FIRE SERVICE SIZE SHALL BE CONFIRMED BY A LICENSED FIRE PROTECTION ENGINEER OR DESIGN-BUILD CONTRACTOR IN CONJUNCTION WITH THE FIRE SPRINKLER SYSTEM DESIGN AND CALCULATIONS. CONTRACTOR IS CAUTIONED NOT TO ORDER ANY MATERIALS RELATED TO THE FIRE SERVICE UNTIL SAID SIZING IS CONFIRMED. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), SHOP DRAWINGS OF THE FIRE SERVICE SHALL BE SUBMITTED TO THE AHJ BY THE INSTALLING CONTRACTOR. SHOP DRAWINGS OF THE FIRE SERVICE ARE NOT REQUIRED TO BE SUBMITTED TO THE CIVIL ENGINEER OF RECORD.
11. TRASH CAPTURE DEVICES SHALL BE USED ON ALL DRAIN INLETS.
12. ALL PUBLIC AND PRIVATE STORM DRAIN INLETS SHALL BE MARKED WITH THE WORDS "NO DUMPING DRAINS TO CREEK".
13. THE EXISTING SANITARY SEWER MAIN IS APPROXIMATELY 20 FEET BELOW EXISTING GRADE TO THE NORTH OF THE PROPOSED STORM DRAIN CROSSING. THE INVERT ELEVATION AT THE DOWNSTREAM MANHOLE TO THE SOUTH OF THE PROPOSED STORM DRAIN CROSSING IS UNKNOWN AND A LONGER MEASUREMENT ROD IS REQUIRED TO DETERMINE THE DEPTH. IT IS UNLIKELY THAT THE PROPOSED STORM DRAIN LINE WILL BE IN CONFLICT WITH EXISTING SEWER MAIN.

UTILITY KEYNOTES

1. 6" FIRE WATER BUILDING POINT OF CONNECTION. SEE PLUMBING DRAWINGS FOR CONTINUATION
2. 4" DOMESTIC WATER BUILDING POINT OF CONNECTION. SEE PLUMBING DRAWINGS FOR CONTINUATION
3. 4" SANITARY SEWER BUILDING POINT OF CONNECTION. SEE PLUMBING DRAWINGS FOR CONTINUATION
4. CONNECT TO EXISTING WATER MAIN PER DUBLIN SAN RAMON SERVICES DISTRICT STANDARDS
5. CONNECT TO EXISTING SEWER MAIN PER DUBLIN SAN RAMON SERVICES DISTRICT DETAIL DETAIL S-9
6. GREASE AND SAND TRAP PER DUBLIN SAN RAMON SERVICES DISTRICT DETAIL DETAIL S-12A
7. IRRIGATION POINT OF CONNECTION. SEE IRRIGATION DRAWINGS FOR CONTINUATION
8. CONNECT TO RAIN WATER LEADER/DOWNSPOUT. SEE PLUMBING/ARCHITECTURAL DRAWINGS

CIVIL ENGINEERS
300 FRANK OGAWA PLAZA
SUITE 300
OAKLAND, CA 94612
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www.bkf.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

SEAL



ISSUES:

PROJECT NUMBER: 2104
DRAWN: AR CHECKED: KW
DATE: 04/22/2022
SCALE: AS SHOWN

TITLE:
SITE UTILITY PLAN

DRAWING NO:
C4.01

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LEGEND

- PROPERTY LINE/RIGHT OF WAY DEDICATION
- TASSAJARA CREEK FLOWLINE
- TOP OF CREEK BANK
- 20' SETBACK FROM TOP OF CREEK BANK
- ASPHALT CONCRETE PAVEMENT SECTION 4" AC OVER 11" CLASS II AB TI=6, R-VALUE=10
- PEDESTRIAN CONCRETE PAVEMENT SECTION 4" PCC OVER 4" CLASS II AB #4 REBAR, SPACED 18" O.C. EACH WAY. SLD FOR COLOR AND FINISH
- FULL DEPTH ASPHALT PLUG
- DETECTABLE WARNING SURFACE (TRUNCATED DOMES)
- STORMWATER TREATMENT MEASURE

HYDRAULIC SIZING CRITERIA FOR STORMWATER TREATMENT MEASURES

DMA IMP	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	PERVIOUS AREA X 0.1 (SF)	EFFECTIVE IMPERVIOUS AREA (SF)	MINIMUM REQUIRED TREATMENT AREA (SF)	PROVIDED TREATMENT AREA (SF)
1	4507	3950	395	4902	196	205
2	27631	3337	334	27965	1119	1120
3	2744	752	75	2819	113	114
4	4092	1660	166	4258	170	185
5	3661	2712	271	3932	157	160
6	3013	1382	138	3151	126	135
7	830	50	5	835	33	92
8	1382	0	0	1382	55	60
9	725	285	29	754	30	60
10	1066	0	0	1066	43	60
11	8150	0	0	8150	326	327
12	17400	525	53	17453	698	698
13	2870	0	0	2870	115	156
14	0	14395		SELF-TREATING AREA		
15	0	742		SELF-TREATING AREA		
16	0	2075		SELF-TREATING AREA		
17	0	500		SELF-TREATING AREA		
18	834	1212	121	955	38	44
TOTAL	**78905**	**33577**				

Sizing Criteria:
The bioretention areas are sized in accordance with the flow based sizing criteria included in the MRP Provision C.3.d. The 0.2 inch-per-hour intensity method (also known as the 4 percent method) is used to size each stormwater treatment measure. The method is based on a runoff inflow of 0.2 inches per hour, with an infiltration rate through the biotreatment soil of 5 inches per hour (0.2 in/hr divided by 5 in/hr = 0.04)

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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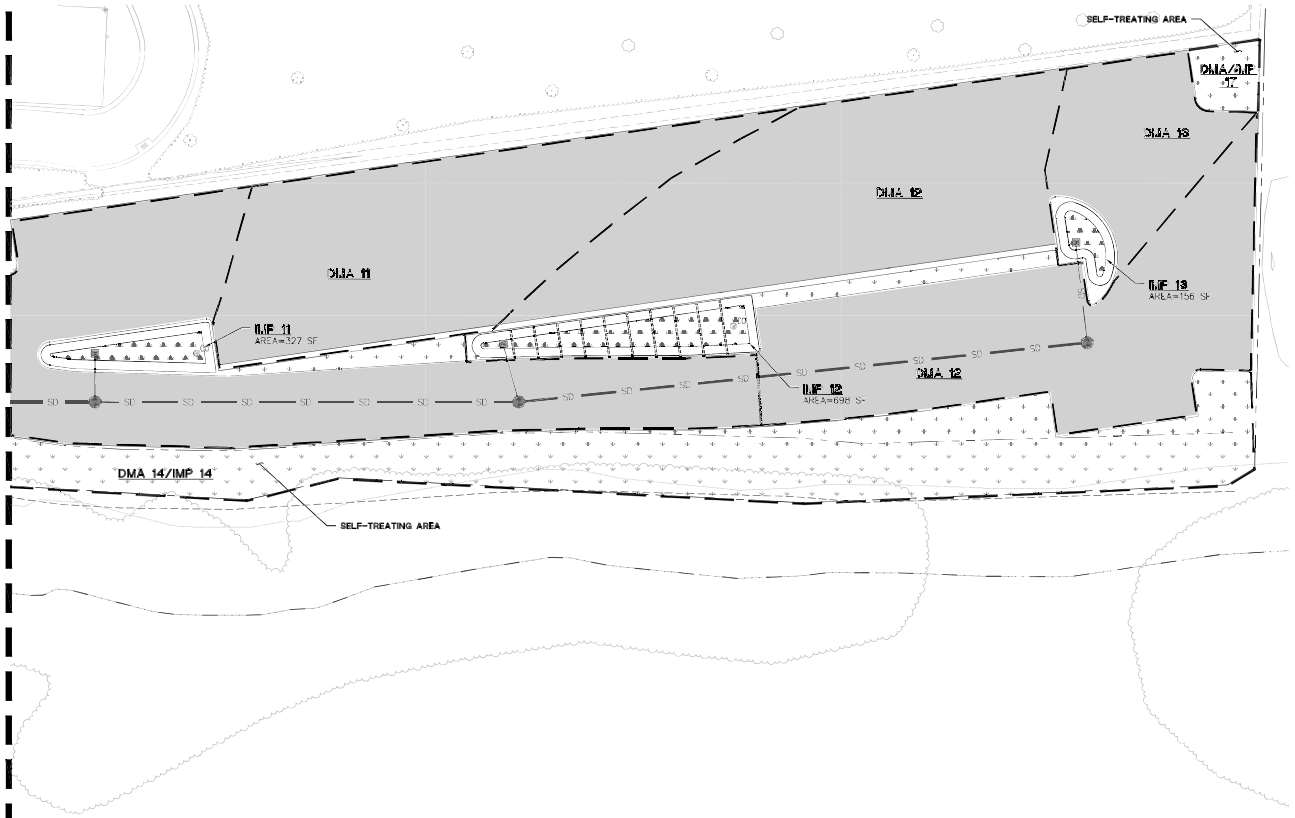
SEAL
REGISTERED PROFESSIONAL ENGINEER
No. C 72285
Exp. 6.30.2022
CIVIL
STATE OF CALIFORNIA

ISSUES:

PROJECT NUMBER: 2104
DRAWN: AR CHECKED: KW
DATE: 04/22/2022
SCALE: AS SHOWN
TITLE:
STORMWATER CONTROL PLAN
DRAWING NO:
C5.00

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MATCHLINE, SEE SHEET C5.00 FOR CONTINUATION



LEGEND

- PROPERTY LINE/RIGHT OF WAY DEDICATION
- TASSAJARA CREEK FLOWLINE
- TOP OF CREEK BANK
- 20' SETBACK FROM TOP OF CREEK BANK
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- FULL DEPTH ASPHALT PLUG
- DETECTABLE WARNING SURFACE (TRUNCATED DOMES)
- STORMWATER TREATMENT MEASURE

HYDRAULIC SIZING CRITERIA FOR STORMWATER TREATMENT MEASURES

DMA IMP	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	PERVIOUS AREA X 0.1 (SF)	EFFECTIVE IMPERVIOUS AREA (SF)	MINIMUM REQUIRED TREATMENT AREA (SF)	PROVIDED TREATMENT AREA (SF)
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14	0	14395		SELF-TREATING AREA		
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16	0	2075		SELF-TREATING AREA		
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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

SEAL

REGISTERED PROFESSIONAL ENGINEER CIVIL No. C 72285 Exp. 6.30.2022 CIVIL STATE OF CALIFORNIA

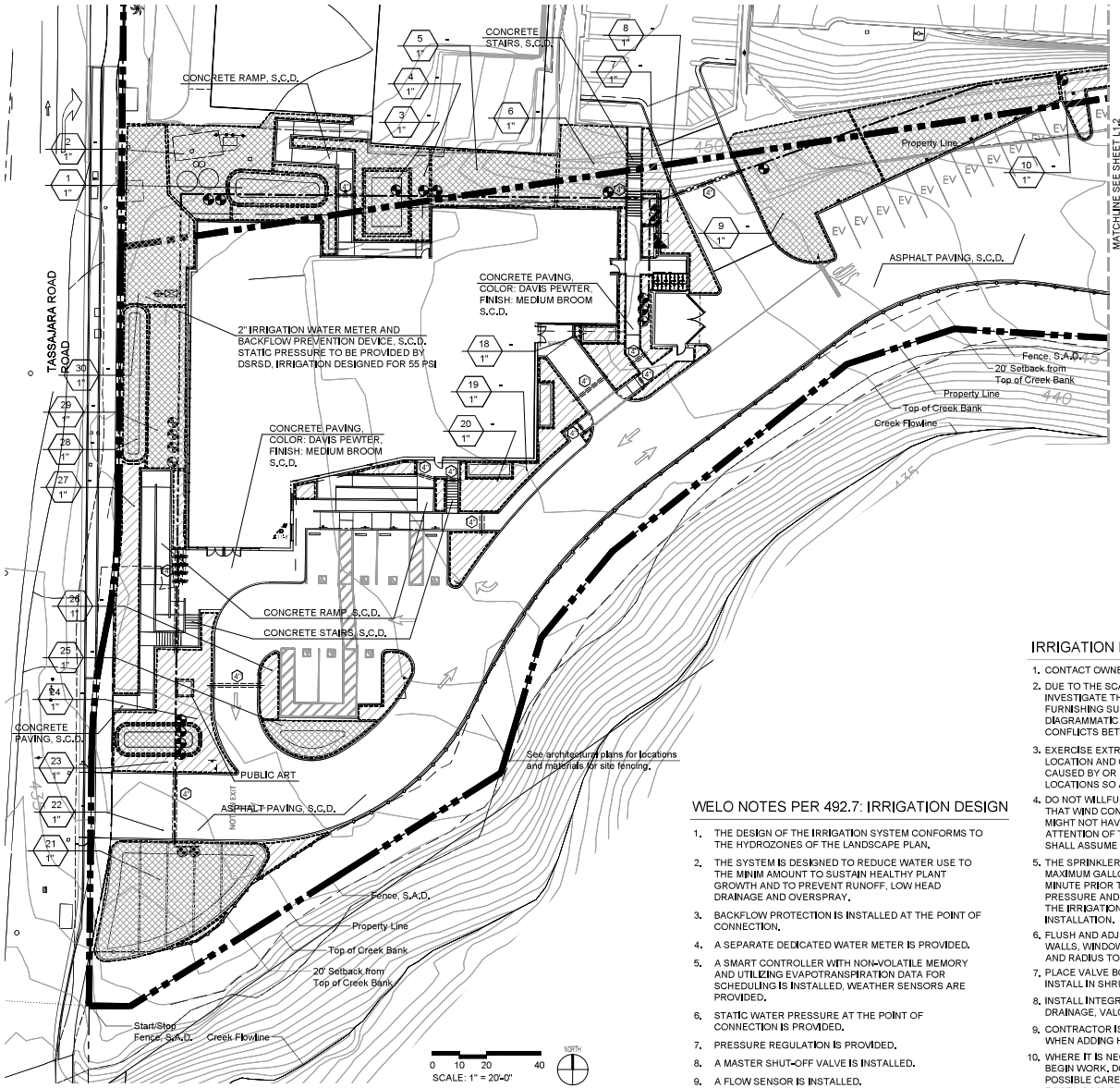
ISSUES:

PROJECT NUMBER: 2104
DRAWN: AR CHECKED: KW
DATE: 04/22/2022
SCALE: AS SHOWN

TITLE:
STORMWATER CONTROL PLAN

DRAWING NO:
C5.01

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IRRIGATION LEGEND:

- SUPERIOR 3100 SERIES MASTER CONTROL VALVE - NORMALLY OPEN AND RAINMASTER FS200P 2" FLOW SENSOR WITH TWI-D-1 DECODER, CONNECT FLOW SENSOR TO CONTROLLER WITH EV-CAB-SEN IN 1" CONDUIT WITH PULL BOXES EVERY 200' MAX. NO SPLICES ALLOWED
- CONTROLLER HUNTER IC-4800-TWO WIRE-PED-SS-DUAL-48M-SOLAR SYNC - FLOW SYNC
- REMOTE CONTROL VALVE - GRISWOLD 2000 SERIES
- GATE VALVE SIZE SAME AS LINE SIZE, MFR: AQUA, IPS BRASS, WHEN INSTALLED IN PAVING, USE TRAFFIC RATED & SLIP RESISTANT BOX/LID
- HUNTER HQ 44L, RUBBER GAP, PROVIDE (1) KEY AND HOSE SWIVEL PER (5) INSTALLED VALVES, QUICK COUPLING VALVE
- MAIN LINE: 2-1/2" SCHEDULE 40 PVC WITH SCHEDULE 40 SOLVENT-WELD FITTINGS: ALL MAIN LINE 2-1/2" UNLESS NOTED ON PLAN.
- EXISTING MAIN LINE, VERIFY LOCATION WITH OWNER REP
- LATERAL LINE: SCHEDULE 40 PVC WITH SCHEDULE 40 SOLVENT-WELD FITTINGS: SEE PIPE SIZING CHART
- IRR — IRRIGATION WATER LINE, SEE SHEET C4,00 FOR PIPE SIZE AND TYPE
- WM — 2" WATER METER, SEE SHEET C4.00
- 2" RPPA BACKFLOW PREVENTER, SEE SHEET C4.00
- IRRIGATION SLEEVE: CLASS 315 SLEEVE SIZE
- STATION NUMBER / GPM / VALVE SIZE
- TORO FB50PC BUBBLER IN TUBE TWO PER TREE
- AREA IRRIGATED BY TORO FB25PC BUBBLERS ONE BUBBLER PER SHRUB
- AREA IRRIGATED BY SPRAY HEADS

WELO NOTES PER 492.7: IRRIGATION DESIGN

1. THE DESIGN OF THE IRRIGATION SYSTEM CONFORMS TO THE HYDROZONES OF THE LANDSCAPE PLAN.
2. THE SYSTEM IS DESIGNED TO REDUCE WATER USE TO THE MINIM AMOUNT TO SUSTAIN HEALTHY PLANT GROWTH AND TO PREVENT RUNOFF, LOW HEAD DRAINAGE AND OVERSPRAY.
3. BACKFLOW PROTECTION IS INSTALLED AT THE POINT OF CONNECTION.
4. A SEPARATE DEDICATED WATER METER IS PROVIDED.
5. A SMART CONTROLLER WITH NON-VOLATILE MEMORY AND UTILIZING EVAPOTRANSPIRATION DATA FOR SCHEDULING IS INSTALLED, WEATHER SENSORS ARE PROVIDED.
6. STATIC WATER PRESSURE AT THE POINT OF CONNECTION IS PROVIDED.
7. PRESSURE REGULATION IS PROVIDED.
8. A MASTER SHUT-OFF VALVE IS INSTALLED.
9. A FLOW SENSOR IS INSTALLED.
10. MANUAL SHUT-OFF VALVES ARE PROVIDED AT THE POINT OF CONNECTION, BEFORE EACH VALVE ASSEMBLY.
11. SEPARATE VALVES ARE USED TO IRRIGATION EACH HYDROZONE.

IRRIGATION NOTES:

1. CONTACT OWNER REPRESENTATIVE TO COORDINATE ALL REVIEWS PRIOR TO COMMENCING WORK.
2. DUE TO THE SCALE OF THE DRAWINGS IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC. INVESTIGATE THE FINISHED CONDITIONS AFFECTING ALL OF IRRIGATION WORK AND PLAN THE WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. INSTALL WORK IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEM, PLANTING, AND ARCHITECTURAL FEATURES.
3. EXERCISE EXTREME CARE IN EXCAVATION AND WORKING NEAR EXISTING UTILITIES AND PLANT MATERIAL. VERIFY THE LOCATION AND CONDITION OF ALL UTILITIES. REPAIR ANY DAMAGE TO EXISTING UTILITIES OR ADJACENT PROPERTIES CAUSED BY OR DURING THE PERFORMANCE OF WORK AT NO ADDITIONAL COST TO THE OWNER. FIELD ADJUST SPRINKLER LOCATIONS SO AS TO AVOID CONFLICTS WITH UTILITIES.
4. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT WIND CONDITIONS, OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA'S DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. BRING SUCH OBSTRUCTIONS OR DIFFERENCES TO THE ATTENTION OF THE DISTRICT INSPECTOR. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND COSTS FOR ALL NECESSARY REVISIONS.
5. THE SPRINKLER SYSTEM IS DESIGN IS BASED UPON 55 PSI THE MINIMUM WORKING WATER PRESSURE AT 50 GPM THE MAXIMUM GALLONS PER MINUTE. VERIFY THE MINIMUM WORKING WATER PRESSURE AT THE MAXIMUM GALLONS PER MINUTE PRIOR TO BEGINNING CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE MINIMUM WORKING WATER PRESSURE AND THE ACTUAL WORKING WATER PRESSURE AT THE MAXIMUM GALLONS PER MINUTE READING TAKEN AT THE IRRIGATION POINT OF CONNECTION, TO DISTRICT INSPECTOR, FOR APPROVAL TO PROCEED WITH THE IRRIGATION INSTALLATION.
6. FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, WALLS, WINDOWS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS. HOLD IRRIGATION HEADS 24" AWAY FROM FACE OF BUILDING.
7. PLACE VALVE BOXES 12" FROM AND PARALLEL TO STRUCTURES. SPACE GROUPED VALVES EQUALLY. ONE VALVE PER BOX. INSTALL IN SHRUB AREAS EXCLUSIVELY.
8. INSTALL INTEGRAL OR IN-LINE CHECK VALVE TO ALL HEADS IN SLOPED AREAS TO PREVENT LOW HEAD DRAINAGE, VALCON, KINGS BROTHERS OR EQUAL INSTALLED IN RISER.
9. CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE. MOVE OR ADD HEADS TO INSURE COVERAGE. WHEN ADDING HEADS, VERIFY HYDRAULIC REQUIREMENTS.
10. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, CONTACT THE DISTRICT FOR APPROVAL TO BEGIN WORK. DO NOT TRENCH WITHIN THE DRIP LINE OF TREES UNLESS APPROVED BY DISTRICT INSPECTOR. USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES, AND TREE ROOTS. HAND DIG TRENCHES WHERE TWO INCH AND LARGER ROOTS OCCUR. CLOSE TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR HOURS: AND WHEN THIS IS NOT POSSIBLE, KEEP THE SIDE OF THE TRENCH SHADED WITH BURLAP OR CANVASS.
11. WHERE POSSIBLE ELECTRICAL AND IRRIGATION LINES SHALL SHARE JOINT TRENCH. ALL UTILITIES TO HAVE MINIMUM SEPARATION BASED ON ALL APPLICABLE CODES.
12. IRRIGATION DESIGN COMPLIES WITH MWELO REQUIREMENTS.

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925.930.9700 www.bkbcarch.com

PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

SEAL

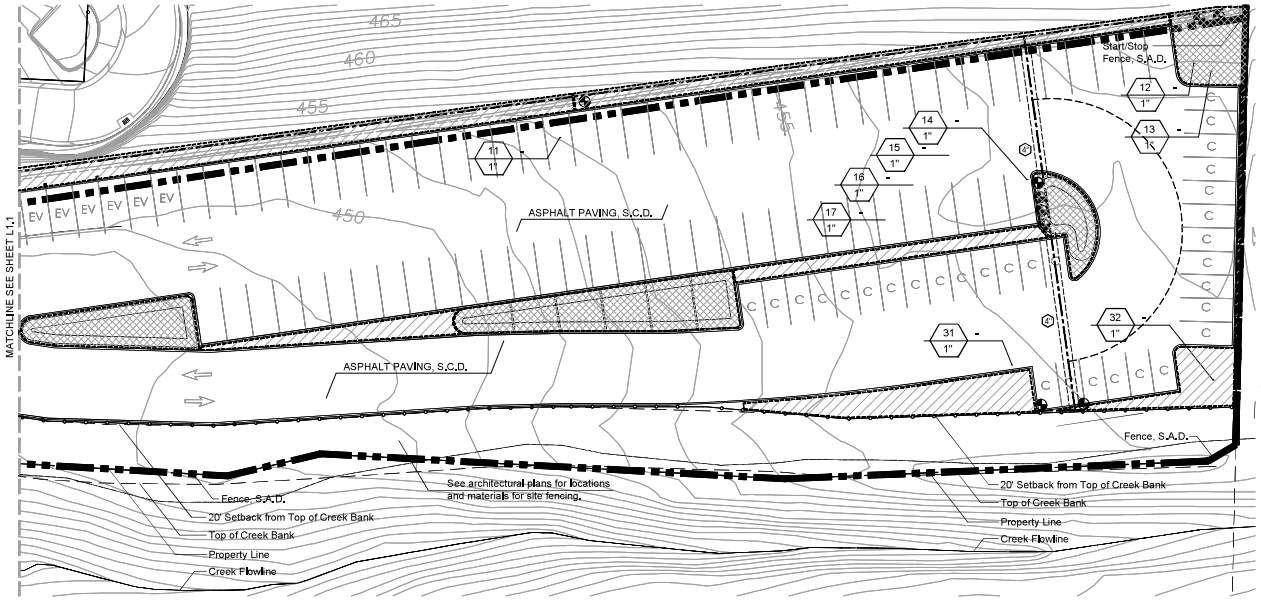
ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

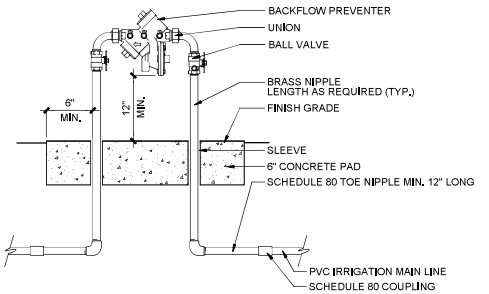
PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: 1" = 20'

TITLE:
IRRIGATION PLAN

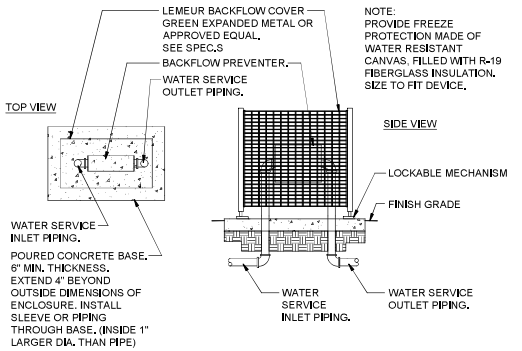
DRAWING NO:
L1.1

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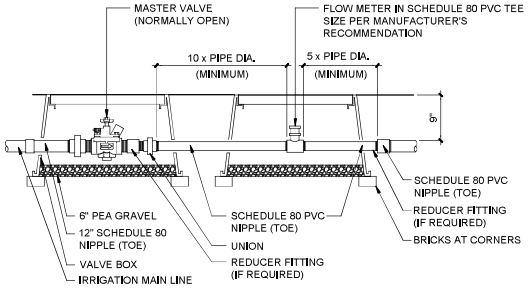




1 BACKFLOW PREVENTER
NOT TO SCALE



2 BACKFLOW PREVENTER ENCLOSURE
NOT TO SCALE



NOTE:
CONNECT MASTER VALVE AND FLOW METER TO CONTROLLER PER MANUFACTURER'S RECOMMENDATIONS IN 1" PVC CONDUIT.

3 MASTER VALVE AND FLOW METER
NOT TO SCALE

Water Efficient Landscape Worksheet

Reference Evapotraspiration (Eto) 46.2

Hydrozone # / Planting Description	Plant Factor (PF)	Irrigation Method[B]	Irrigation Efficiency (IE)[C]	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[D]
Regular Landscape Areas							
1 low water use	0.3	spray	0.75	0.40	450	180	5,156
2 low water use	0.4	spray	0.75	0.53	2100	1,120	32,081
3 low water use	0.4	spray	0.75	0.53	400	213	6,111
4 low water use	0.3	spray	0.75	0.40	1000	400	11,458
5 low water use	0.2	spray	0.75	0.27	900	240	6,875
6 low water use	0.2	spray	0.75	0.27	750	200	5,729
7 low water use	0.2	drip	0.81	0.25	300	74	2,122
8 low water use	0.2	spray	0.75	0.27	900	240	6,875
9 low water use	0.2	spray	0.75	0.27	1800	480	13,749
10 low water use	0.2	spray	0.75	0.27	1500	400	11,458
11 low water use	0.3	drip	0.81	0.37	1500	556	15,913
12 low water use	0.3	drip	0.81	0.37	1000	370	10,609
13 low water use	0.2	spray	0.75	0.27	700	187	5,347
14 low water use	0.2	spray	0.75	0.27	800	213	6,111
15 low water use	0.4	drip	0.81	0.49	1300	642	18,389
16 low water use	0.4	spray	0.75	0.53	900	480	13,749
17 low water use	0.3	spray	0.75	0.40	500	200	5,729
18 low water use	0.3	drip	0.81	0.37	500	185	5,304
19 low water use	0.2	drip	0.81	0.25	500	123	3,536
20 low water use	0.2	drip	0.81	0.25	650	160	4,597
21 low water use	0.2	spray	0.75	0.27	1700	453	12,985
22 low water use	0.2	drip	0.81	0.25	400	99	2,829
23 low water use	0.4	spray	0.75	0.53	200	107	3,055
24 low water use	0.4	spray	0.75	0.53	1100	587	16,804
25 low water use	0.2	spray	0.75	0.27	300	80	2,292
26 low water use	0.2	drip	0.81	0.25	900	222	6,365
27 low water use	0.2	drip	0.81	0.25	700	173	4,951
28 low water use	0.2	spray	0.75	0.27	500	133	3,819
29 low water use	0.2	spray	0.75	0.27	800	213	6,111
30 low water use	0.2	spray	0.75	0.27	1300	347	9,930
31 low water use	0.2	drip	0.81	0.25	900	222	6,365
32 low water use	0.2	drip	0.81	0.25	500	123	3,536
				Totals	27,750	9,424	
Special Landscape Area							
None				1	--	--	--
				Totals	0	0	
						ETWU Total	269,940
				Maximum Allowed Water Allowance (MAWA)[E]			357,692

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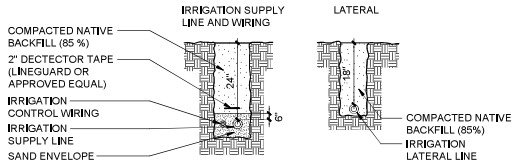
ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: 1" = 20'

TITLE:
IRRIGATION DETAILS

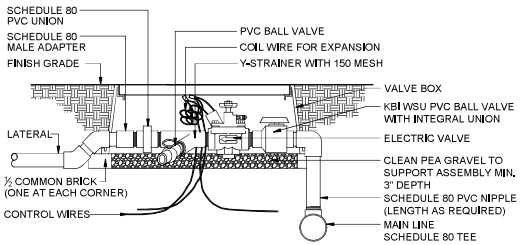
DRAWING NO:
L1.2

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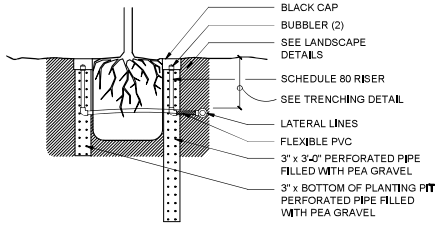
NOTES:
1. BUNDLE AND TAPE WIRE EVERY TEN FEET. LEAVE SLACK AT ALL CHANGES OF DIRECTION.
2. LATERAL LINES IN SEPARATE TRENCH FROM MAIN LINE AND WIRES.
3. PARALLEL LINES MINIMUM 6" APART.
4. TRENCH WIDTH TO ALLOW PROPER SNAKING OF PIPES.
5. INSTALL MIN. 2" SAND BEDDING BENEATH AND MIN. 6" SAND BACKFILL OVER IRRIGATION MAIN LINES.

7 TRENCHING
NOT TO SCALE

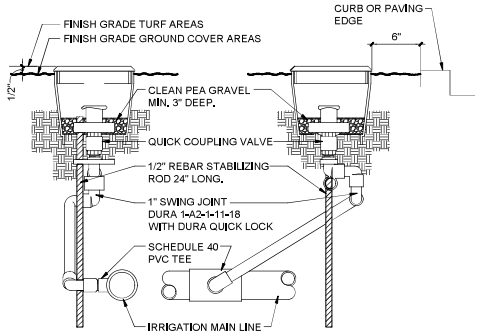


NOTES:
1. BUNDLE AND TAPE WIRE EVERY 10 FEET
2. PROVIDE 24" EXPANSION LOOP AT EACH WIRE CONNECTION
3. ELBOWS - SCH. 80 PVC. NIPPLES - THREADED SCH. 80 PVC
4. WIRE SPLICE KIT (PEN-TIT, 3M #DBY OR APPROVED EQUAL)
5. VALVE BOX (CARSON #1419-12B OR APPROVED EQUAL) SIZE VALVE BOX TO ALLOW FOR EASE OF REPAIR AND/OR REMOVAL OF VALVE AND Y-STAINER.
6. PROVIDE ONE EXTRA CONTROL WIRE TO EACH VALVE

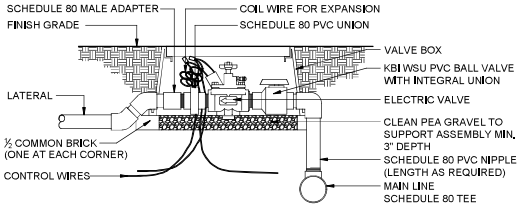
4 REMOTE CONTROL VALVE - BUBBLER
NOT TO SCALE



1 TREE BUBBLER IN TUBE
NOT TO SCALE

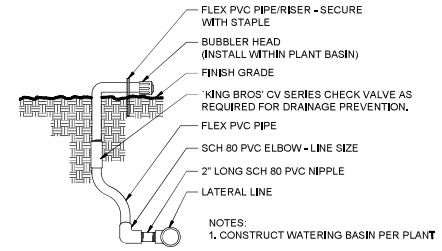


8 QUICK COUPLING VALVE
NOT TO SCALE



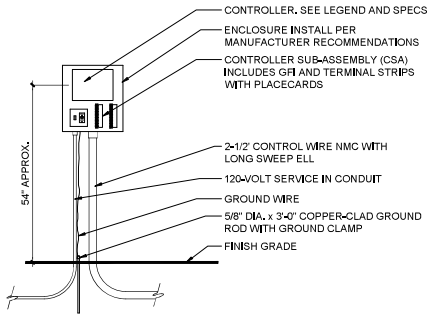
NOTES:
1. BUNDLE AND TAPE WIRE EVERY 10 FEET
2. PROVIDE 24" EXPANSION LOOP AT EACH WIRE CONNECTION
3. ELBOWS - SCH. 80 PVC. NIPPLES - THREADED SCH. 80 PVC
4. WIRE SPLICE KIT (PEN-TIT, 3M #DBY OR APPROVED EQUAL)
5. VALVE BOX (CARSON #1419-12B OR APPROVED EQUAL)
6. PROVIDE ONE EXTRA CONTROL WIRE TO EACH VALVE

5 REMOTE CONTROL VALVE - SPRAY
NOT TO SCALE

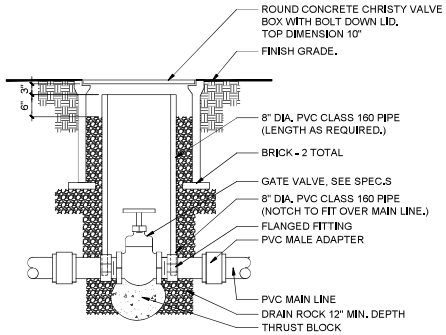


NOTES:
1. CONSTRUCT WATERING BASIN PER PLANT

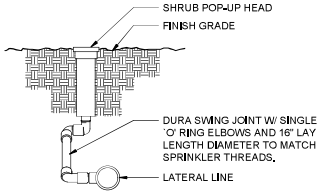
2 SHRUB BUBBLER
NOT TO SCALE



9 CONTROLLER - WALL MOUNT
SCALE: NOT TO SCALE



6 GATE VALVE
NOT TO SCALE



3 POP-UP SPRAY HEAD
NOT TO SCALE

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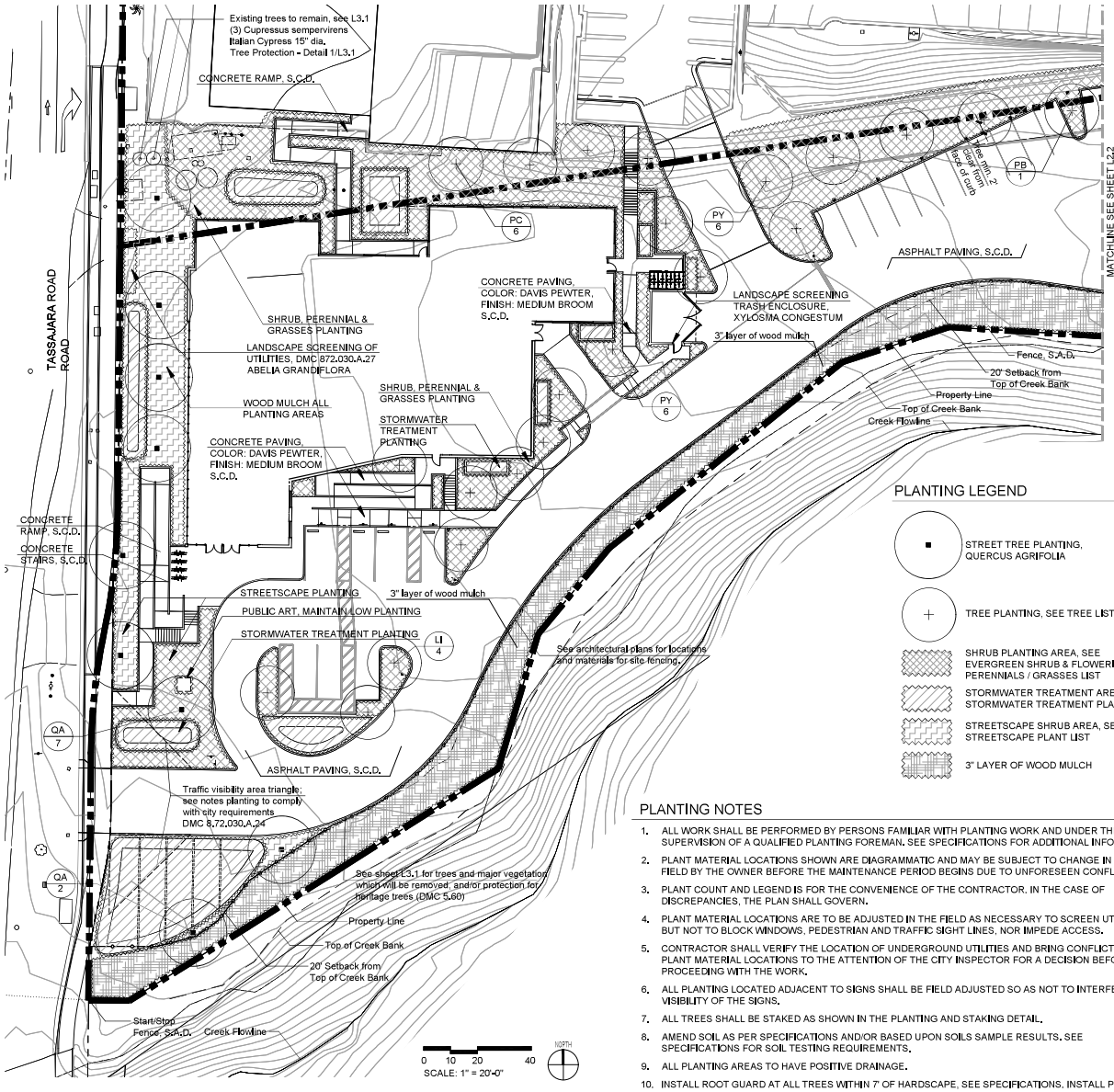
SEAL

ISSUES:
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2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE:
TITLE: IRRIGATION DETAILS

DRAWING NO: L1.3

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PLANTING LEGEND

- STREET TREE PLANTING, QUERCUS AGRIFOLIA
- TREE PLANTING, SEE TREE LIST
- SHRUB PLANTING AREA, SEE EVERGREEN SHRUB & FLOWERING PERENNIALS / GRASSES LIST
- STORMWATER TREATMENT AREA, SEE STORMWATER TREATMENT PLANT LIST
- STREETSCAPE SHRUB AREA, SEE STREETSCAPE PLANT LIST
- 3" LAYER OF WOOD MULCH

PLANTING NOTES

1. ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH PLANTING WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY THE OWNER BEFORE THE MAINTENANCE PERIOD BEGINS DUE TO UNFORESEEN CONFLICTS.
3. PLANT COUNT AND LEGEND IS FOR THE CONVENIENCE OF THE CONTRACTOR, IN THE CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.
4. PLANT MATERIAL LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES BUT NOT TO BLOCK WINDOWS, PEDESTRIAN AND TRAFFIC SIGHT LINES, NOR IMPEDE ACCESS.
5. CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES AND BRING CONFLICTS WITH PLANT MATERIAL LOCATIONS TO THE ATTENTION OF THE CITY INSPECTOR FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
6. ALL PLANTING LOCATED ADJACENT TO SIGNS SHALL BE FIELD ADJUSTED SO AS NOT TO INTERFERE WITH VISIBILITY OF THE SIGNS.
7. ALL TREES SHALL BE STAKED AS SHOWN IN THE PLANTING AND STAKING DETAIL.
8. AMEND SOIL AS PER SPECIFICATIONS AND/OR BASED UPON SOILS SAMPLE RESULTS. SEE SPECIFICATIONS FOR SOIL TESTING REQUIREMENTS.
9. ALL PLANTING AREAS TO HAVE POSITIVE DRAINAGE.
10. INSTALL ROOT GUARD AT ALL TREES WITHIN 7' OF HARDSCAPE, SEE SPECIFICATIONS. INSTALL PER MANUFACTURER SPECIFICATIONS.
11. ALL EXISTING AND NEW PLANTING AREAS TO RECEIVE 3" OF WOOD MULCH
12. PLANTING ESTABLISHMENT MAINTENANCE PERIOD SHALL BE 180 DAYS, SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

PLANT LIST

TREES

Botanical Name / Common Name	Container Size	Reference	WUCOLS Water use	Spacing	Quantity	Mature Size (H'xW')
Lagerstromia i. 'Natchez' / Natchez Crape Myrtle - LI	36" Box		Low	As Shown	4	25'x20'
Pistacia chinensis / Chinese Pistache - PC	24" Box / 36" Box		Moderate	As Shown	24	35'x30'
Prunus yedoensis Yoshino Flowering Cherry - PY	24" Box / 36" Box		Moderate	As Shown	12	25'x20'
Pyrus c. 'Bradford' Bradford Pear - PB	24" Box / 36" Box		Low	As Shown	1	35'x30'
Quercus agrifolia / Coast Live Oak - QA	36" Box	DSMP	Moderate	As Shown	14	50'x40'

SHRUBS

Botanical Name / Common Name	Size	Reference	WUCOLS Water use	Spacing	Quantity	Mature Size (H'xW')
Abelia g. 'Edward Goucher' Pink Abelia - AG	5 Gallon	ACCWP	Moderate	5'-0" o.c.	-	5'x5'
Arctostaphylos 'Emerald Carpet' / Carpet Manzanita - AE	5 Gallon	ACCWP	Moderate	5'-0" o.c.	202	2'x5'
Baccharis p. 'Twin Peaks' Dwarf Coyote Brush - BP	5 Gallon	BFPL ACCWP	Moderate	5'-0" o.c.	-	5'x5'
Ceanothus Joyce Coulter Joyce Coulter Ceanothus - CJ	5 Gallon	ACCWP	Moderate	5'-0" o.c.	-	5'x5'
Loropetalum 'Snow Panda' / Snow Panda Chinese Fringe - LS	15 Gallon	BFPL	Low	5'-0" o.c.	34	8'x5'
Pittosporum t. Wheeler's Dwarf Wheeler's Dwarf Mock Orange - PT	5 Gallon	ACCWP	Low	3'-0" o.c.	185	3'x3'
Rhamnus californica 'Eve Case' Coffeeberry - RC	5 Gallon	BFPL ACCWP	Low	4'-0" o.c.	-	5'x4'
Rhapiolepis indica 'Ballerina' Ballerina Indian Hawthorne - RI	5 Gallon	BFPL	Low	3'-0" o.c.	185	4'x3'
Xylosma congestum Shiny Xylosma - XC	15 Gallon		Low	5'-0" o.c.	34	8'x5'

FLOWERING PERENNIALS / GRASSES

Botanical name / Common name	Size	Reference	WUCOLS Water use	Spacing	Quantity	Mature Size (H'xW')
Dietes bicolor Fortnight Lily - DB	5 Gallon	BFPL ACCWP	Low	2'-6" o.c.	404	3'x3'
Helictotrichon sempervirens Blue Oat Grass - HS	5 Gallon		Low	2'-6" o.c.	135	2'x2'
Hesperaloe parviflora Red Yucca - HP	5 Gallon		Low	3'-0" o.c.	95	3'x3'
Lantana montevidensis Purple Trailing Lantana - LM	5 Gallon		Low	4'-0" o.c.	152	2'x4'

STREETSCAPE SHRUBS

Botanical name / Common name	Size	Reference	WUCOLS Water use	Spacing	Quantity	Mature Size (H'xW')
Abelia g. 'Edward Goucher' Glossy Abelia - AG	5 Gallon	DSMP ACCWP	Moderate	4'-0" o.c.	94	6'x4'
Acacia redolens Desert Carpet - AR	5 Gallon	DSMP	Very Low	4'-0" o.c.	125	2'x4'
Ceanothus gloriosus Point Reyes Creeper - CG	5 Gallon	DSMP	Low	4'-0" o.c.	94	3'x4'

STORMWATER TREATMENT PLANTS

Botanical name / Common name	Size	Reference Guidelines	WUCOLS Water use	Spacing	Quantity	Mature Size (H'xW')
Carex divulsa Berkeley Sedge - CD	1 Gallon	ACCWP BFPL	Low	1'-6" o.c.	166	2'x2'
Chondropetalum t. 'El Campo' Dwarf Cape Rush - CT	5 Gallon	ACCWP BFPL	Low	2'-6" o.c.	243	3'x2'
Juncus patens / Blue Rush - JP	1 Gallon	ACCWP BFPL	Low	2'-0" o.c.	190	3'x2'
Elymus glaucus / Blue Wild Rye - EG	1 Gallon	ACCWP BFPL	Low	2'-6" o.c.	182	3'x2'

Reference Guidelines Key
ACCWP = Alameda County Clean Water Program C.3 Plant List
BFPL = Bay Friendly Plant List
DSMP = Dublin Streetscape Master Plan

Notes:
1. At least 30% of all new trees as 36" box and the remaining trees shall be a minimum of least 24" box container size. Shrubs/flowering planting shall be a minimum size of 5 gallons.
2. Traffic Visibility Area: No fence, wall, hedge, sign or other structure, shrubbery, mounds of earth, or other visual obstruction over 30 inches in height above the nearest street curb elevation shall be erected, placed, planted, or allowed to grow within a Traffic Visibility Area. The foregoing provision shall not apply to public utility poles; trees trimmed (to the trunk) to a line at least 6 feet above the level of the intersection; saplings or plant species of open growth habits and not planted in the form of a hedge, which are so planted and trimmed as to leave at all seasons a clear and unobstructed crossview; supporting members of appurtenances to permanent structures existing on the date this Chapter becomes effective; and official warning signs or signals.
3. Site Lighting: minimum of 15' setback from trees to lighting; 5' setback from trees to fire hydrant

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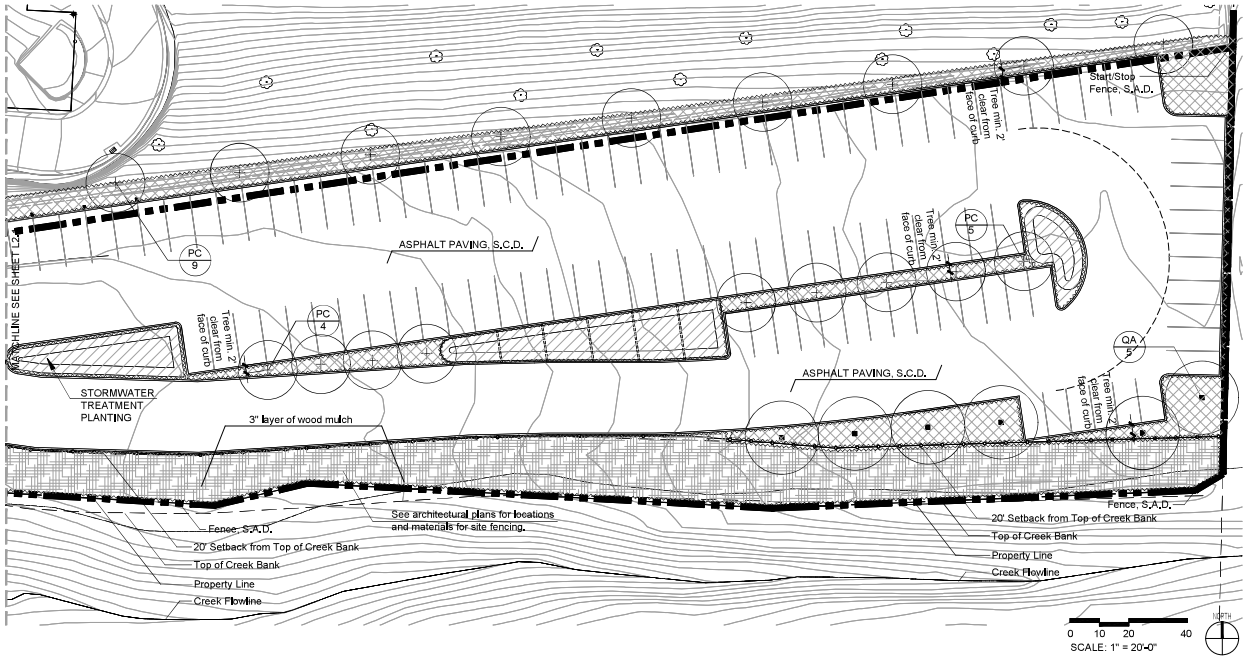
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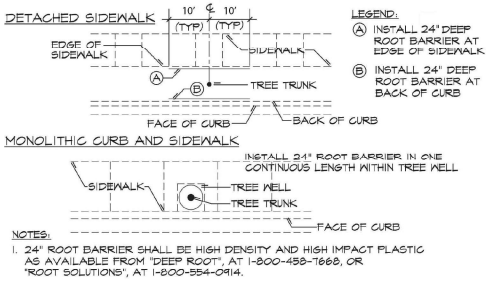
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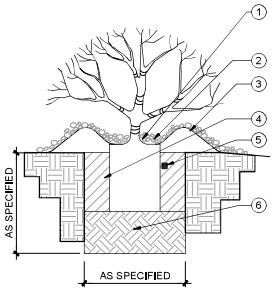


NOTES:

1. 24" ROOT BARRIER SHALL BE HIGH DENSITY AND HIGH IMPACT PLASTIC AS AVAILABLE FROM "DEEP ROOT", AT 1-800-458-7668, OR "ROOT SOLUTIONS", AT 1-800-554-0914.
2. TOP OF ROOT BARRIER SHALL BE SET 1/2-INCH ABOVE FINISHED GRADE OF SOIL, BUT UNDER NO CIRCUMSTANCES SHALL THE TOP OF ROOT BARRIER EXTEND ABOVE ADJACENT CURB, SIDEWALK OR OTHER HARD SURFACING, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

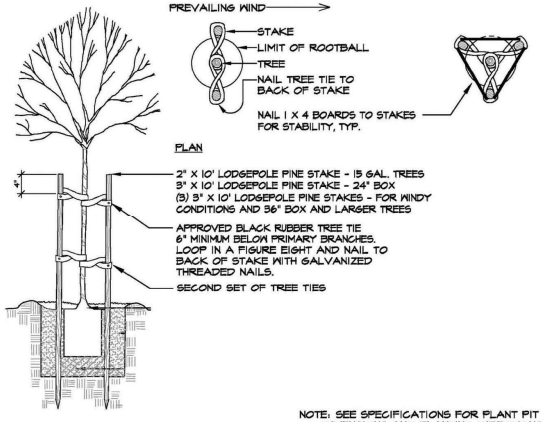
1 ROOT BARRIER DETAIL

NTS ROOTB-main



2 SHRUB PLANTING

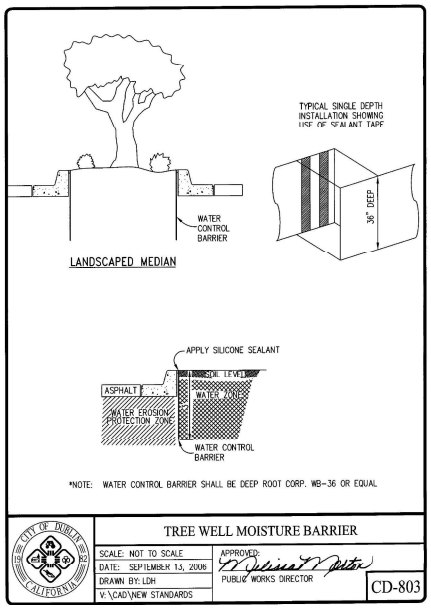
SCALE: 3/4" = 1'-0"



3 TREE STAKING

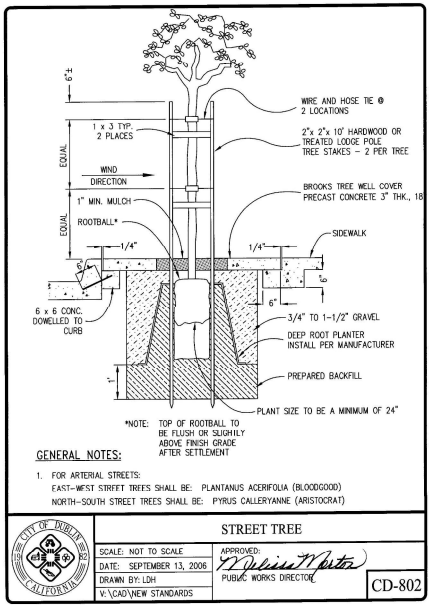
NTS TreeStaking_01

NOTE: SEE SPECIFICATIONS FOR PLANT PIT DIMENSIONS AND PLANTING DIRECTIONS.



*NOTE: WATER CONTROL BARRIER SHALL BE DEEP ROOT CORP. WB-36 OR EQUAL

TREE WELL MOISTURE BARRIER		
SCALE: NOT TO SCALE	APPROVED:	CD-803
DATE: SEPTEMBER 13, 2006	PUBLIC WORKS DIRECTOR	
DRAWN BY: LDH		
V:\CAD\NEW STANDARDS		



*NOTE: TOP OF ROOTBALL TO BE FLUSH OR SLIGHTLY ABOVE FINISH GRADE AFTER SETTLEMENT

GENERAL NOTES:

1. FOR ARTERIAL STREETS:
   EAST-WEST STREET TREES SHALL BE: PLANTANUS ACERIFOLIA (BLOODGOOD)
   NORTH-SOUTH STREET TREES SHALL BE: PYRUS CALLERYANNE (ARISTOCRAT)

STREET TREE		
SCALE: NOT TO SCALE	APPROVED:	CD-802
DATE: SEPTEMBER 13, 2006	PUBLIC WORKS DIRECTOR	
DRAWN BY: LDH		
V:\CAD\NEW STANDARDS		

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TREE / UTILITY COMPOSITE PLAN - 1"=30'-0"

		Possible	Goal	Achieved	Comments
	1.8. Lighting and/or sign posts.	1	0	0	
	1.9. Parking stops.	1	0	0	
	1.7. Play structures.	2	0	0	
	1.8. Play surfaces.	1	0	0	
	1.9. Edging.	1	0	0	
	1.10. Decorative glass mulch.	1	0	0	
	2. Use irrigation lines made from PVC alternatives for:				
	2.1. 100% of mainlines.	1	0	0	
	2.2. 100% of laterals.	1	0	0	
	3. Use recycled aggregate for walkway, driveway, roadway base and other uses.	2	0	0	
	4. Use alternatives to PVC for 100% of fencing, decking and outdoor furniture.	1	0	0	
	5. Install local and recycled:				
	5.1. Compost.	1	1	0	
	5.2. mulch.	1	1	0	
	6. REQUIRED: Divert 50% of construction and demolition waste, and 100% of excavated soil and land-clearing debris.	R	R	R	
	7. Use an online C&D waste management tool.	1	0	0	
	8. Separate landscape construction and demolition waste streams.	2	0	0	
0	9. Salvage, reuse or retain on site 50% of a single material.	5	0	0	
	10. Retain 25% of asphalt or concrete flatwork.	2	0	0	
	11. Use cool site techniques in at least 50% of the paved site area.	2	0	0	
	12. Do not use black mulch.	1	0	0	
	13. Specify low-energy fixtures for all site lighting.	2	2	0	
	14. Power site lighting with photovoltaics covering:				
	14.1. 25% of all site demand. (1 point)	1	0	0	
	14.2. 50% of all site demand. (total 3 points)	2	0	0	
	14.3. 100% of all site demand. (total 5 points)	2	0	0	
	15. Reduce light pollution and trespass.	1	1	0	
	16. Do not cast direct beam illumination onto adjacent properties.	1	1	0	
	17. Use stone and non-concrete hardscape materials that are mined/produced within 200 miles of the project site.	?	?	?	
	18. Use integrated pest management during construction.	1	0	0	
	19. Use organic pest management during construction.	2	0	0	
	Materials Subtotal, out of 48 possible points:	48	0	0	
	E. PLANTING				
	1. REQUIRED: Choose and locate plants to grow to their natural size.	R	R	R	
	2. REQUIRED: Do not plant species listed by Cal-IPC's Don't Plant a Pest brochure.	R	R	R	
	3. Do not plant species listed in Cal-IPC's Invasive Plant Inventory.	2	2	0	
	4. Eradicate existing invasive plant species.	2	2	0	
	5. REQUIRED: Install climate-adapted plants in street medians.	R	R	R	
	6. REQUIRED: Limit turf in recreational areas.	R	R	R	
	7. Install turf alternatives for:				
	7.1. 10% of multiple-use fields. (2 points)	2	0	0	
	7.2. 20% of multiple-use fields. (total 4 points)	2	0	0	
	7.3. 100% of multiple-use fields. (total 6 points)	2	0	0	
	8. REQUIRED: Group plants in hydrozones.	R	R	R	
	9. Shade at least 50% of paved bicycle parking with deciduous trees.	?	?	?	
	10. Shade at least 50% of paved site area with vegetation excluding drive aisles of parking lots and roads.	3	0	0	
	11. Provide adequate soil volumes to grow healthy trees.	3	3	0	
	12. Plant large-stature trees.	2	2	0	
	13. Install fine anemophilous tree pollen material	2	2	0	
	14. Plant a diverse palette of distinct species.	3	3	0	
	15. Plant California natives for:				
	15.1. 50% of non-turf plants. (3 points)	3	3	0	
	15.2. 75% of non-turf plants. (total 4 points)	1	0	0	
	15.3. 100% of non-turf plants. (total 5 points)	1	0	0	
	Planting Subtotal, out of 31 possible points:	31	9	0	
	F. IRRIGATION				
	1. Plumb irrigation systems and water features for recycled water.	2	0	0	
	2. Use rainwater and/or greywater to satisfy:				
	2.1. 10% of the site's water requirements. (3 points)	3	0	0	
	2.2. 50% of the site's water requirements. (total 5 points)	2	0	0	
	3. REQUIRED: Install a weather-based (evapotranspiration) or soil moisture based controller including a rain shut off device.	R	R	R	
	4. REQUIRED: Install low volume irrigation in required areas.	R	R	R	
	5. Limit precipitation rates of overhead irrigation.	3	3	0	
	6. Design and install a landscape that will meet a water budget of:				
	6.1. REQUIRED: 40% of reference ET.	R	R	R	
	6.2. 30% of reference ET. (3 points)	3	0	0	
	7. REQUIRED: Install a dedicated landscape water meter for projects with an irrigated area greater than 1,000 sf.	R	R	R	
	8. REQUIRED: Conduct an irrigation audit.	R	R	R	
	9. REQUIRED: Meet your local CA WELO.	R	R	R	
	Irrigation Subtotal, out of 15 possible points:	13	0	0	
	G. Maintenance				
	1. Include a Bay-Friendly Qualified Professional on the maintenance team.	3	0	0	
	2. Include the Bay-Friendly Site Analysis in the maintenance manual.	2	0	0	
	3. Biocycle.	2	0	0	
	4. Produce mulch on site from plant trimmings.	2	2	0	
	5. Produce compost on site from plant trimmings.	3	3	0	
	6. Do not dispose of plant trimmings in the landfill.	3	3	0	
	7. Do not shear hedges.	2	2	0	
	8. Protect soil from compaction.	1	1	0	
	9. Use quality, organic compost to support plant and soil health.	2	2	0	
	10. Use only organic fertilizers.	2	2	0	
	11. Reapply mulch regularly.	2	2	0	
	12. Read the dedicated irrigation meter or sub-meter and report water use a minimum of once a month.	1	1	0	
	13. Check irrigation equipment regularly and immediately replace broken equipment.	1	1	0	
	14. Use integrated pest management during maintenance.	2	0	0	
	15. Use organic pest management during maintenance.	2	0	0	
	Maintenance Subtotal, out of 30 possible points:	30	8	0	
	H. INNOVATION				
	1. Include Bay-Friendly Rated Landscape requirements in the bid documents.	2	2	0	
	2. Include a Bay-Friendly Qualified Professional on the design team.	2	0	0	
	3. Install educational signage.	4	0	0	
	4. Employ a habitat gardener.	?	?	?	
	5. Implement your own Bay-Friendly innovation.				
	Enter title of innovation below. Complete Innovation Request Form.				
		4	0	0	
	Innovation Subtotal, out of 17 possible points:	17	8	0	

	Required	Points
Possible Points	60	225
Goal Points	61	0
Achieved Points	0	0

Project has not yet met the following recommended minimum requirements:

- *Total Project Score of At Least 60 Points*
- *Required Measures:*
  - *C.8: Protect all planting areas with a minimum of 3 inches of mulch.*
  - *C9.1: Incorporate quality, organic compost into the soil, per soil analysis, to bring the soil organic matter content to a minimum of: 3.5% by dry weight.*
  - *C.10: Divert 50% of construction and demolition waste, and 100% of excavated soil and land-clearing debris.*
  - *E.1: Choose and locate plants to grow to their natural size.*
  - *E.2: Do not plant species listed by Cal-IPC's Don't Plant a Pest brochure.*
  - *E.6: Limit turf to sports or multiple-use fields.*
  - *E.8: Group plants in hydrozones.*
  - *F.3: Install a weather-based (evapotranspiration) or soil moisture based controller including a rain shut off device.*
  - *F.4: Install low volume irrigation in required areas.*
  - *F.6.1: Design and install a landscape that will meet a water budget of 60% of reference ET.*
  - *F.7: Install a dedicated landscape water meter for projects with an irrigated area greater than 2,500 sf.*
  - *F.8: Conduct an irrigation audit.*

Bay-Friendly Scorecard for Civic, Commercial and Multifamily Landscapes

This scorecard tracks Bay-Friendly features incorporated into the design and construction of new landscapes. Use drop-down boxes in Column A to indicate targeted measures for your project. "Goal" points appear in column I. "Achieved" points appear in column J once all verification measures have been completed in the "Rater Checklist" worksheet. The recommended minimum requirements for a Bay-Friendly Landscape are: earn a total of 60 points or more and complete the 14 required practices indicated in red text on the checklist. Submit planning stage Scorecard with initial Submittal and final Scorecard at Final Submittal.

Goal	Achieved	Minimum
61	0	60

		Possible	Goal	Achieved
	A. SITE PLANNING			
	1. Complete the Bay-Friendly Site Analysis before beginning construction documents.	2	0	0
	2. Locate the project within an infill, urban growth boundary, TOD or designated redevelopment site.	3	0	0
	3. Avoid prime farmland and environmentally sensitive sites.	3	0	0
	4. Clean up a brownfield site.	3	0	0
	5. Locate the project within walking distance of public transit.	2	0	0
	6. Locate project 1 mile in bicycling distance from a:			
	6.1. Class I bike path.	2	0	0
	6.2. Class II or Class III bicycle route.	1	0	0
	7. Provide parking for bicycles.	2	0	0
	8. Designate areas for mulch storage and/or leaf repositories.	1	0	0
	9. Reuse trees that are identified for removal on site.	2	0	0
	10. Compost plant debris on site with the capacity of:			
	10.1. 1 to 3 cubic yards. (1 point)	1	0	0
	10.2. More than 3 cubic yards. (total 2 points)	1	0	0
	11. Install covered recycling collection receptacles.	2	0	0
	12. Provide water and/or shelter for wildlife.	1	0	0
	13. Preserve and protect 50% of existing mature, healthy, non-invasive trees.	2	0	0
	14. On previously developed sites, restore vegetation and hydrology.	3	0	0
	15. Increase open space by 30% or connect to adjacent open space.	2	0	0
	16. Create or protect diverse, low-maintenance plant buffer along all creeks, shorelines and watercourse areas.	2	0	0
	Site Planning Subtotal, out of 35 possible points:	35	0	0
	B. STORMWATER AND SITE DRAINAGE			
	1. Install permeable paving for:			
	1.1. 25% of total paved area. (2 points)	2	0	0
	1.2. 50% of total paved area. (total 4 points)	2	0	0
	1.3. 75% of total paved area. (total 6 points)	2	0	0
	2. Decrease the total amount of impervious surface by 10% as previously developed sites.	1	0	0
	3. Capture and treat stormwater runoff using:			
	3.1. Bioretention for entire roof area.	3	0	0
	3.2. Bioretention for all impervious paved areas, excluding driveway entrances and roads.	4	0	0
	3.3. Bioretention for 10,000 sf of roof area.	2	0	0
	3.4. Infiltration of at least 50% of the average annual runoff water quantity generated on site.	3	0	0
	4. Design self-retaining planting areas to detain and infiltrate runoff from adjacent impervious areas for:			
	4.1. 15% of planting areas. (1 point)	1	0	0
	4.2. 25% of planting areas. (total 2 points)	1	0	0
	5. Install a green roof on:			
	5.1. 25% of roof area. (1 point)	1	0	0
	5.2. 50% of roof area. (total 2 points)	1	0	0
	5.3. 75% of roof area. (total 3 points)	1	0	0
	Stormwater and Site Drainage Subtotal, out of 24 possible points:	24	0	0
	C. EARTHWORK AND SOIL HEALTH			
	1. Submit laboratory soil analysis results and recommendations for compost and natural fertilizers.	5	3	0
	2. Complete the Bay-Friendly Soil Management Plan.	3	0	0
	3. Remove, store and replace topsoil before grading.	3	3	0
	4. Install fencing to protect soil from compaction:			
	4.1. Under trees to remain.	2	0	0
	4.2. For 50% of new planting areas.	1	0	0
	5. Install protective covering to limit soil compaction during the rainy season.	1	1	0
	6. Alleviate compaction in soil to a depth of at least:			
	6.1. 8 inches. (1 point)	1	1	0
	6.2. 12 inches. (total 2 points)	1	0	0
	7. Use only organic fertilizers or soil amendments.	1	0	0
	8. REQUIRED: Protect all planting areas with a minimum of 3 inches of mulch.	R	R	R
	9. Incorporate quality, organic compost into the soil at the rate of:			
	9.1. REQUIRED: 4 CY / 1000 sf.	R	R	R
	9.2. 6 CY / 1000 sf.	3	3	0
	10. Install sheet mulch for weed control or lawn conversion.	2	0	0
	11. Prohibit synthetic chemical pre-emergent herbicides.	2	2	0
	12. Install compost blankets, berms or socks for controlling erosion.	3	0	0
	Earthwork and Soil Health Subtotal, out of 27 possible points:	27	6	0
	D. MATERIALS			
	1. Use environmentally preferable materials for:			
	1.1. Decking.	2	0	0
	1.2. Fencing.	2	0	0
	1.3. Site furnishings such as bike racks, benches, tables and chairs.	2	0	0
	1.4. Planters or artificial turf.	1	0	0

WELO NOTES PER 492.5: SOIL MANAGEMENT REPORT

1. CONTRACTOR SHALL TEST SOIL AND PROVIDE SOIL ANALYSIS REPOST TO LANDSCAPE ARCHITECT AND OWNER AFTER CONSTRUCTION IS COMPLETE AND BEFORE PLANTING IS INSTALLED.
2. CONDUCT SOIL SAMPLING IN ACCORDANCE WITH ALL LABORATORY PROTOCOLS, SEE SPECIFICATIONS.
3. THE SOIL TEST SHALL INCLUDE SOIL TEXTURE, INFILTRATION RATE, PH TOTAL SOLUBLE SALTS SODIUM PERCENT ORGANIC MATTER AND RECOMMENDATIONS FOR ORGANIC AMENDMENTS AND COMPOST.
4. SUBMIT SOIL TEST REPORT BY ACCREDITED SOILS LAB. TAKE SAMPLES FROM A MINIMUM OF 3 LOCATIONS (FRONT, MIDDLE AND BACK) OF SITE. FOLLOW SAMPLING INSTRUCTION FROM LAB, REQUEST ORGANIC AMENDMENTS, SEE SPECIFICATIONS.
5. SOIL PREPARATION. TOP DRESS PLANTING AREAS WITH A MINIMUM OF 6 CY / 1000 SQUARE FEET OF ORGANIC COMPOST TO THE ENTIRE PLANTING AREA.
6. MOISTURE CONTENT: DO NOT WORK ON OR AROUND THE SOIL WHEN MOISTURE CONTENT IS SO GREAT THAT COMPACTION WILL OCCUR, NOR WHEN IT IS SO DRY THAT DUST WILL FORM, OR WHEN SOIL CLODS WILL NOT BREAK READILY. APPLY WATER IF NECESSARY TO BRING SOIL TO OPTIMUM MOISTURE CONTENT TO COMPLETE THE SPECIFIED WORK..
7. MULCH PER THE WATER EFFICIENT LANDSCAPE ORDINANCE. A MINIMUM 3-INCH LAYER OF ORGANIC MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES FOR THE PURPOSE OF REDUCING EVAPORATION, SUPPRESSING WEEDS, MODERATING SOIL TEMPERATURE AND PREVENTING SOIL EROSION.
8. CONTRACTOR SHALL SUBMIT DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL ANALYSIS REPORT RECOMMENDATIONS TO THE LOCAL AGENCY WITH CERTIFICATION OF COMPLETION.

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PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD
DUBLIN, CA 94568

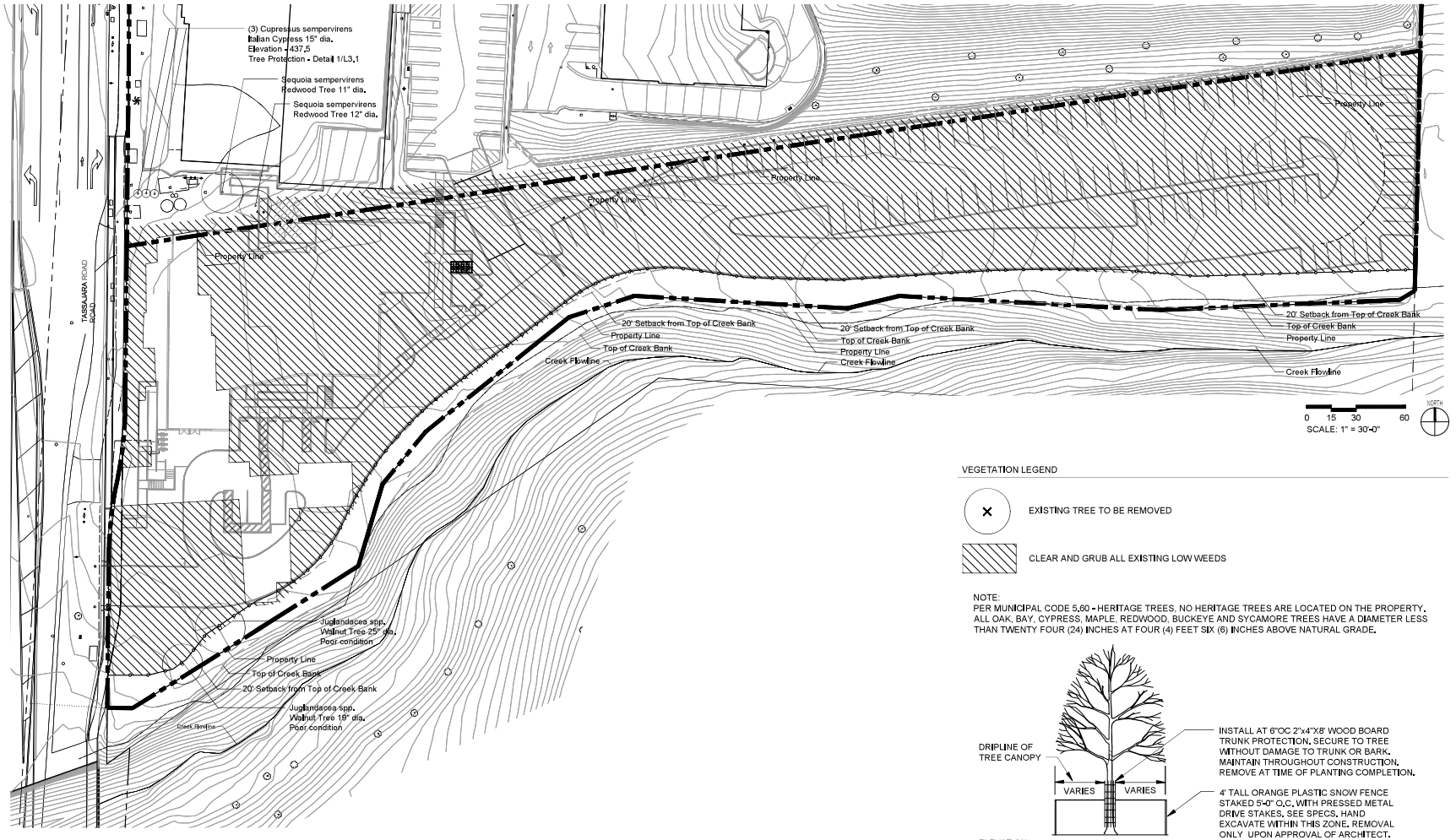
SEAL

ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE:
TITLE:

DRAWING NO:

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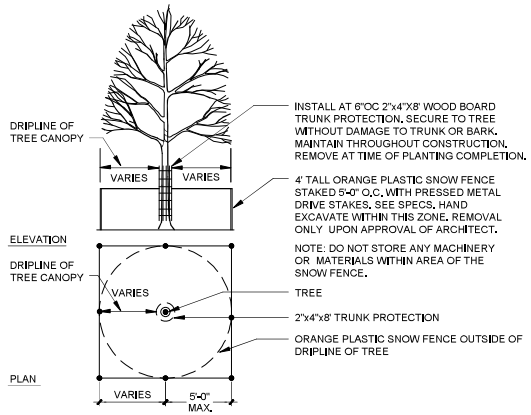


VEGETATION LEGEND

EXISTING TREE TO BE REMOVED

CLEAR AND GRUB ALL EXISTING LOW WEEDS

NOTE:
PER MUNICIPAL CODE 5.60 - HERITAGE TREES, NO HERITAGE TREES ARE LOCATED ON THE PROPERTY. ALL OAK, BAY, CYPRESS, MAPLE, REDWOOD, BUCKEYE AND SYCAMORE TREES HAVE A DIAMETER LESS THAN TWENTY FOUR (24) INCHES AT FOUR (4) FEET SIX (6) INCHES ABOVE NATURAL GRADE.



1 TREE PROTECTION
SCALE: N.T.S.

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SEAL

ISSUES:
1 5/13/2022
2 8/4/2022
3 3/27/2023

PROJECT NUMBER: 2104
DRAWN: MW CHECKED: CF
DATE: 12/10/2021
SCALE: 1" = 30'

TITLE:
EXISTING VEGETATION PLAN

DRAWING NO:
L3.1

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Performing Arts Center at Quarry Lane School

DESIGN SET



View from Tassajara Road

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DRAWING TITLE

DATE:
12/10/2021

SCALE:
NTS

DRAWING NO:
Qp-13607

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1

2

3

4

Massing Diagrams

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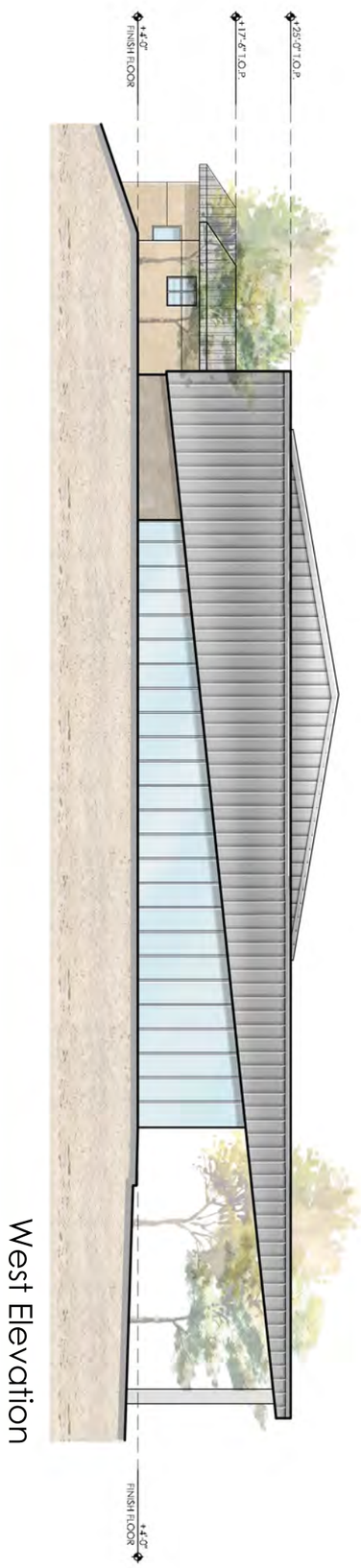
DRAWING TITLE
MASSING

DATE:
12/10/2021

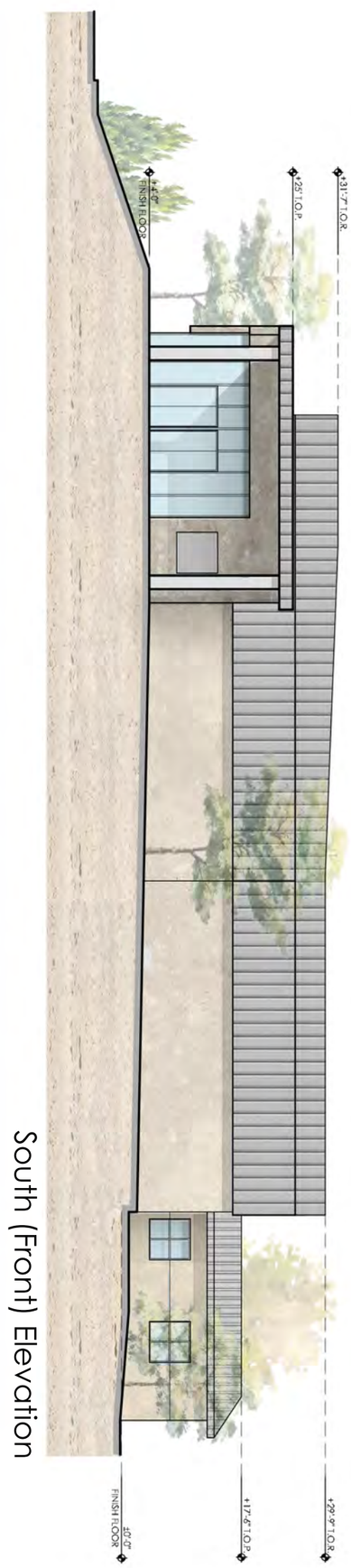
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Qp-13608

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West Elevation



South (Front) Elevation

DRAWING TITLE
COLOR ELEVATIONS

DATE: 12/10/2021

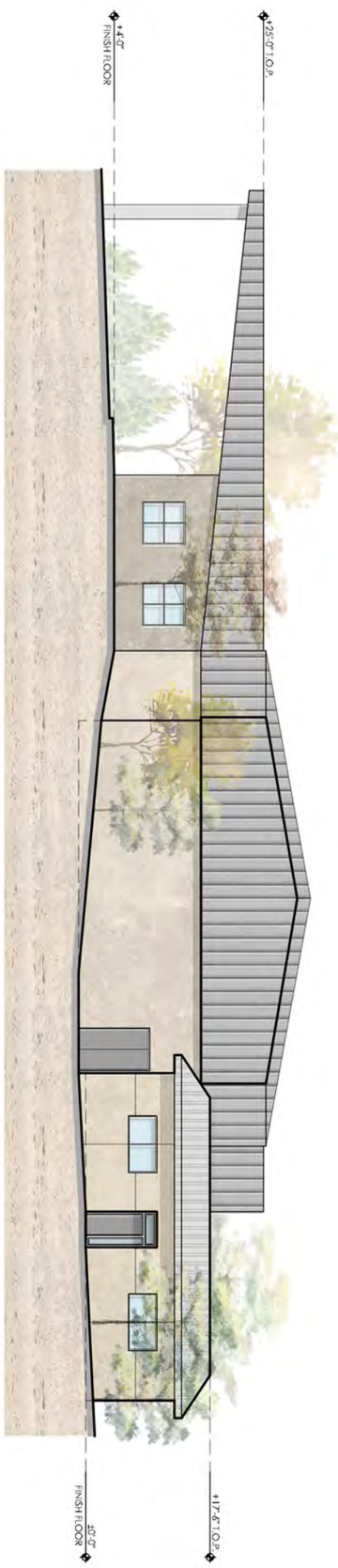
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DRAWING NO: Qp-13609

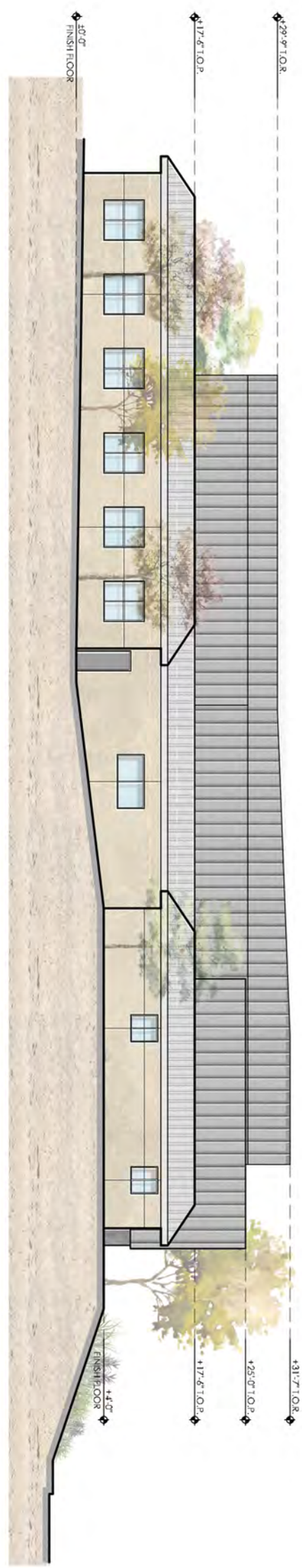
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East Elevation



North Elevation

DRAWING TITLE
COLOR ELEVATIONS

DATE: 12/10/2021

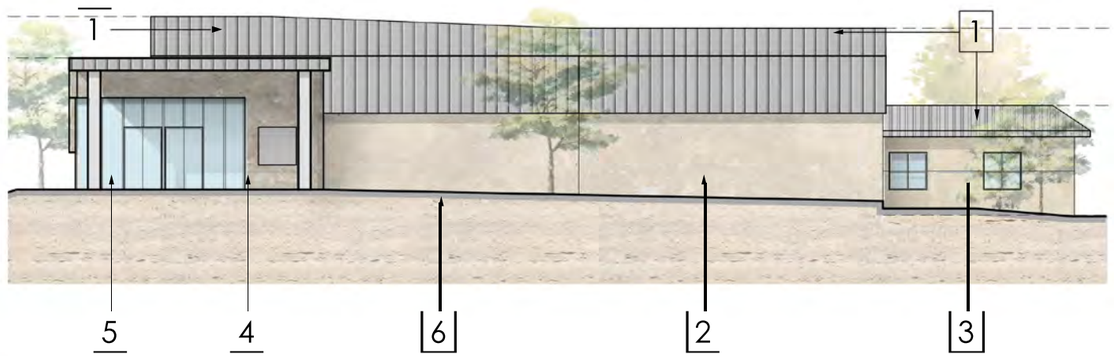
SCALE: 1" = 20'-0"

DRAWING NO: Qp-13610

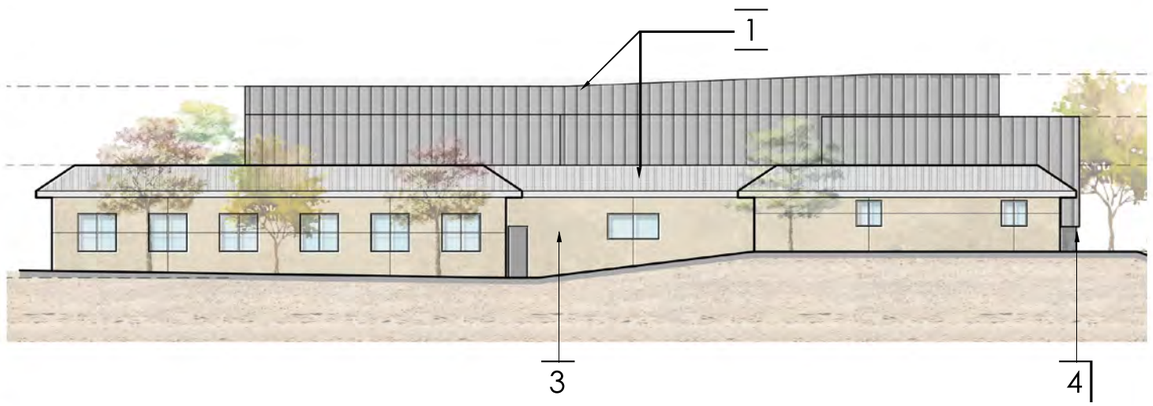
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SOUTH (FRONT) ELEVATION



NORTH ELEVATION



1 **CORRUGATED METAL ROOF & SIDING**

"DESIGN SPAN HP" by AEP SPAN
COLOR: COOL METALLIC SILVER
Or Equivalent

2 **STUCCO COLOR - 1**

SW-7071 "GRAY"

3 **STUCCO COLOR - 2**

SW-7073 "NETWORK GRAY"

4 **STUCCO COLOR - 3**

SW-7075 "WEB GRAY"



5 **CURTAIN WALL**

TUBELITE's 400CW CURTAIN WALL SYSTEM
Or Equivalent



6 **DRIVEWAY**

STAMPED CONCRETE

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DRAWING TITLE
COLOR CHART

DATE:
12/10/2021

SCALE:
NTS

DRAWING NO:
Qp-13611

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DRAWING NO: Qp-1.612

SCALE: 1" = 100'

DATE: 12/10/2021

DRAWING TITLE
AERIAL VIEW

N

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EXISTING ELEVATION

PROPOSED ELEVATION

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PROJECT
QLS Performing Arts Center
6237 TASSAJARA ROAD, DUBLIN, CA 94568

DRAWING TITLE
EXISTING ELEVATION COMPARISON

DATE:
12/10/2021

SCALE:
NTS

DRAWING NO:
Qp-13613

RESOLUTION NO. 23 - 08

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF DUBLIN

RECOMMENDING THE CITY COUNCIL ADOPT A RESOLUTION APPROVING A SUPPLEMENTAL MITIGATED NEGATIVE DECLARATION, ADOPT AN ORDINANCE AMENDING A PLANNED DEVELOPMENT ZONING DISTRICT WITH RELATED STAGE 1 AND STAGE 2 DEVELOPMENT PLANS, AND ADOPT A RESOLUTION APPROVING A CONDITIONAL USE PERMIT AND SITE DEVELOPMENT REVIEW PERMIT FOR A NEW PERFORMING ARTS CENTER AT THE QUARRY LANE SCHOOL 6237 & 6363 TASSAJARA ROAD (APNS 985-0072-002-00 AND 985-0002-006-03) PLPA-2021-00041

WHEREAS, the Applicant, Dr. Sabri Arac of Quarry Lane School, has requested approval of a Site Development Review Permit and a Conditional Use Permit to construct and operate a 13,800 square foot performing arts center, 126 parking spaces, and related site and landscape improvements on the southern 2.6-acre portion of the school property acquired by the Quarry Lane School in 2020 (formerly known as the Kobold Property), and to amend the Planned Development Zoning District and related Stage 1 and 2 Development Plan to incorporate the southern 2.6-acres and allow development of the performing arts center. These planning and implementing actions are collectively known as the "Project"; and

WHEREAS, the project site is 12.63 acres located at 6237 and 6363 Tassajara Road (APNS 985-0072-002-00 AND 985-0002-006-03); and

WHEREAS, the existing General Plan and Eastern Dublin Specific Plan land use designations are Medium-Density Residential; and

WHEREAS, the Project site has Planned Development Zoning; and

WHEREAS, On December 19, 2000, the City Council approved the Planned Development (PD) District Pre-zoning and Annexation application (PA-99-064), and adopted a Mitigated Negative Declaration (Resolution No. 204-00) for Phase II of the Quarry Lane School and a PD Pre-zone for the Kobald Property (Ordinance No. 24-00); and

WHEREAS, On May 25, 2004, the Planning Commission approved Resolution No. 04-46, which included a minor amendment to the Stage 2 Development Plan and Site Development Review to construct Phase II of the Quarry Lane School, and the related CEQA; and

WHEREAS, On June 17, 2014, the City Council adopted an Ordinance (No. 12-14) to amend the Zoning Map for a PD Zoning District rezone and related Stage 1 and 2 Development Plan Amendments for the Quarry Lane School Phase III expansion and adopted an Initial Study and a California Environmental Quality Act (CEQA) Addendum (Resolution No. 18-14). Ordinance No. 12-14 replaced Ordinance No. 24-00 except as it pertained to the Kobold Property (APN 985-0072-002-00); and

WHEREAS, On March 31, 2022, a voluntary lot merger was recorded with the Alameda County Recorder (Application No. M-2022-001, Record No. 2022065678) to merge the Kobold

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Property at 6237 (Project site) with the Quarry Lane School site at 6363 Tassajara Road to create a single 12.6-acre parcel; and

WHEREAS, CEQA together with State guidelines and Dublin's CEQA Guidelines and Procedures require that certain projects be reviewed for environmental impacts and when applicable, environmental documents prepared; and

WHEREAS, the Project area was previously analyzed in the Eastern Dublin General Plan Amendment (GPA) and Specific Plan (SP), which was adopted in 1993, and has a certified Program Environmental Impact Report (EIR) (SCH No. 91-103064) and analyzed in the Quarry Lane Master Plan, which was adopted in 1998 by the County of Alameda and has a certified EIR (SCH No. 97122109); and

WHEREAS, the City prepared an Initial Study to determine whether supplemental environmental review was required for the proposed Project under CEQA standards. The Initial Study examined whether there were substantial changes to the proposed development, substantial changes in circumstances, or new information, any of which would result in new or more severe significant impacts than previously analyzed in the 1993 GPA/SP EIR, or whether any standards for supplemental environmental review were met; and

WHEREAS, upon completion of the Initial Study, it was determined that there were new potentially significant impacts associated with the project related to noise and air quality and therefore a Supplemental Mitigated Negative Declaration was prepared to analyze those impacts and identify mitigation measures to reduce the impacts to less than significant; and

WHEREAS, the Supplemental Mitigated Negative Declaration/Initial Study was circulated for public review from July 5, 2023-August 4, 2023; and

WHEREAS, the City received one comment letter during the public review period; and

WHEREAS, a Staff Report, dated September 12, 2023, and incorporated herein by reference, described and analyzed the proposed Project, including the Planned Development Amendment with related Stage 1 and Stage 2 Development Plan, Site Development Review application, and the Conditional Use Permit for the Performing Arts Center, for the Planning Commission; and

WHEREAS, the Planning Commission held a properly noticed public hearing on the Project on September 12, 2023, at which time all interested parties had the opportunity to be heard; and

WHEREAS, the Planning Commission did hear and use independent judgment and considered all said reports, recommendations, and testimony hereinabove set forth.

NOW, THEREFORE, BE IT RESOLVED that the foregoing recitals are true and correct and made a part of this resolution.

BE IT FURTHER RESOLVED that the City of Dublin Planning Commission recommends that the City Council adopt a Resolution attached as **Exhibit A** approving the Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the Project,

BE IT FURTHER RESOLVED that the Planning Commission recommends that the City Council adopt an Ordinance attached as **Exhibit B** approving a Planned Development Zoning District with Stage 1 and Stage 2 Development Plan based on findings, as set forth in **Exhibit B**.

BE IT FURTHER RESOLVED that the Planning Commission recommends that the City Council approve the Resolution attached as **Exhibit C** approving the Conditional Use Permit and Site Development Review Permit, based on the findings and conditions of approval, as set forth in **Exhibit C**, and with the inclusion of the Design Set Plans dated December 10, 2021 in Exhibit A to **Exhibit C**, and with the following additional Condition of Approval: "The applicant shall work with Staff to ensure the new driveway is designed to facilitate right-in-only vehicle movements from Tassajara Road."

PASSED, APPROVED AND ADOPTED this 12th day of September 2023, by the following vote:

AYES: Aini, Grier, Ochoa, Thalblum, Wahida

NOES:

ABSENT:

ABSTAIN:

DocuSigned by:
_____
04E9DDAD421F421...
Planning Commission Chair

ATTEST:

DocuSigned by:
_____
A1E22E565D484A3...
Community Development Director

5480079.2

Quarry Lane School Performing Arts Center

City Council October 3, 2023



DUBLIN
CALIFORNIA

Background

- Location: 6237 & 6363 Tassajara Rd
- Land Use: Medium Density Residential
- Zoning: Planned Development

Background

- School originally established in 1999
- Annexed into Dublin in 2000
- Current Enrollment: 950 children in grades K-12
- Recently acquired adjacent Kobold Property (2.6 acres)



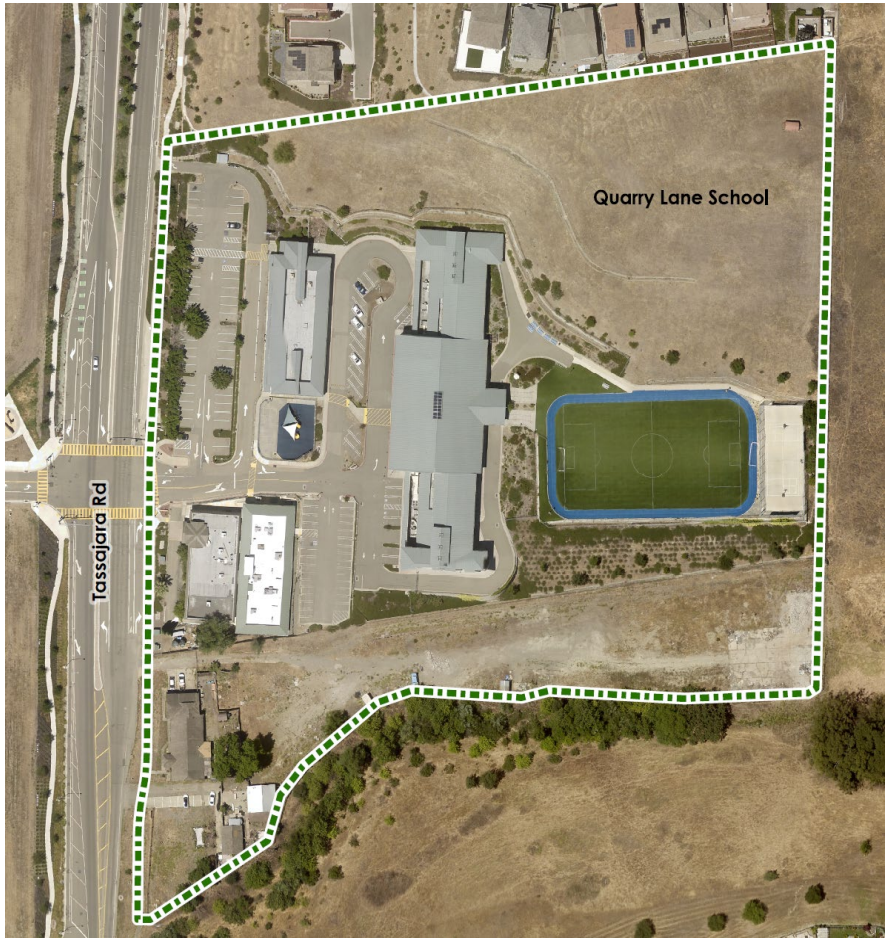
Current Request

- Construct a Performing Arts Center
  - 13,800 square feet
  - Serve as home to existing programs
- Requested Entitlements
  - Planned Development Zoning Amendment
  - Conditional Use Permit
  - Site Development Review Permit



Planned Development Zoning Amendments

- PD District area increased by 2.6 acres
- Allow Performing Arts Center as a Conditionally Permitted Use
- Additional 13,800 s.f. of development
- Parking requirement for Performing Arts Center (117 spaces)



Conditional Use Permit

- Operating characteristics
- Compatibility with surrounding uses
- Driveway operations – "right-in-only"
- Parking requirements

Site Plan

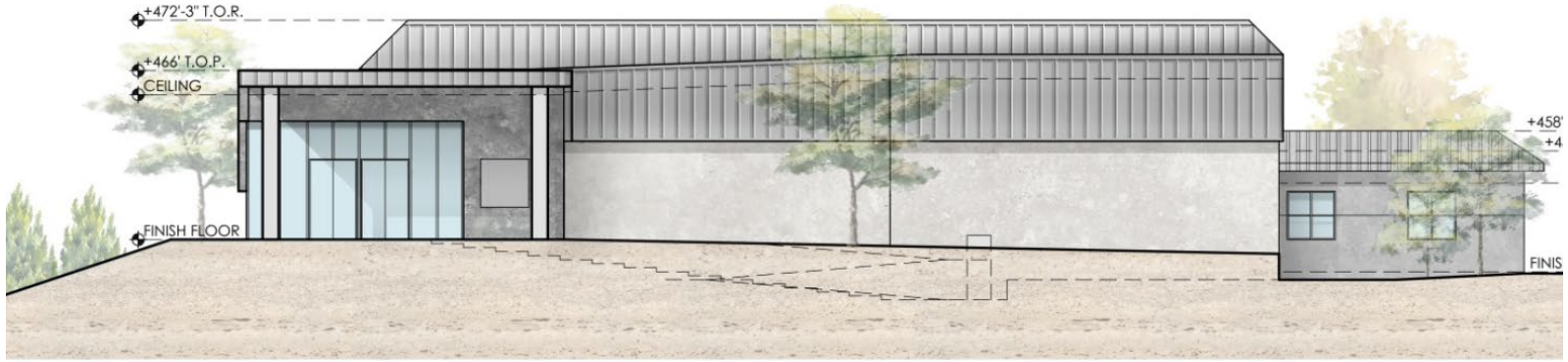


Proposed Project

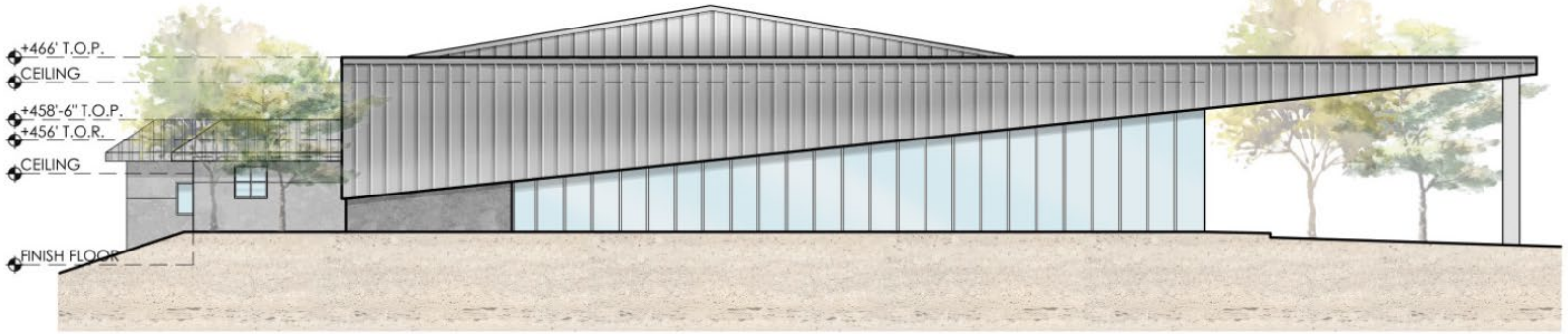


View from Tassajara Road

Elevations



South (Front) Elevation



West Elevation



1 **CORRUGATED METAL ROOF**
AEP SPAN's "SELECT SEAM PANELS"
COLOR: Metallic
Or Equivalent

2 **STUCCO COLOR - 1**
SW-7071 "GRAY"

3 **STUCCO COLOR - 2**
SW-7073 "NETWORK GRAY"

4 **STUCCO COLOR - 3**
SW-7075 "WEB GRAY"

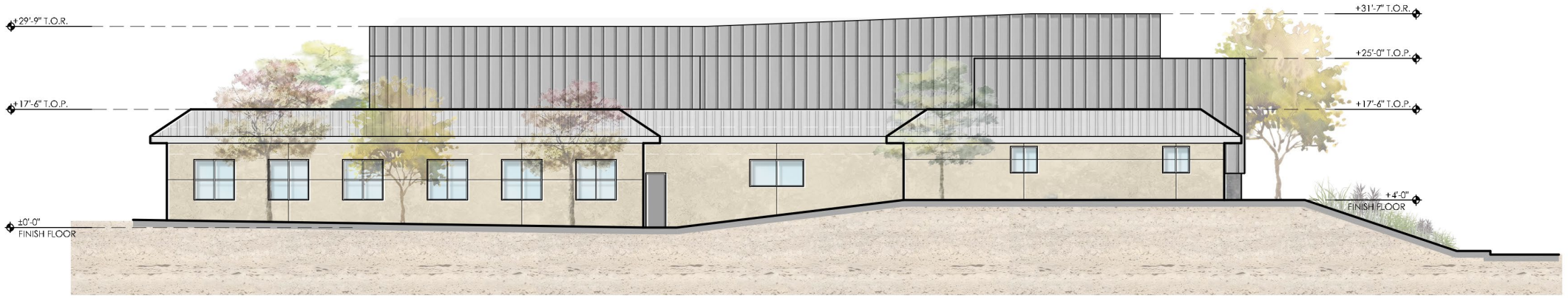


5 **CURTAIN WALL**
CURTAIN WALL, STOREFRONT & ENTRANCE
DOOR SYSTEM by TUBELITE INC's
"FORCE FRONT BLAST CUTAIN WALL SYSTEM"
Or Equivalent



6 **DRIVEWAY**
STAMPED CONCRETE

Elevations

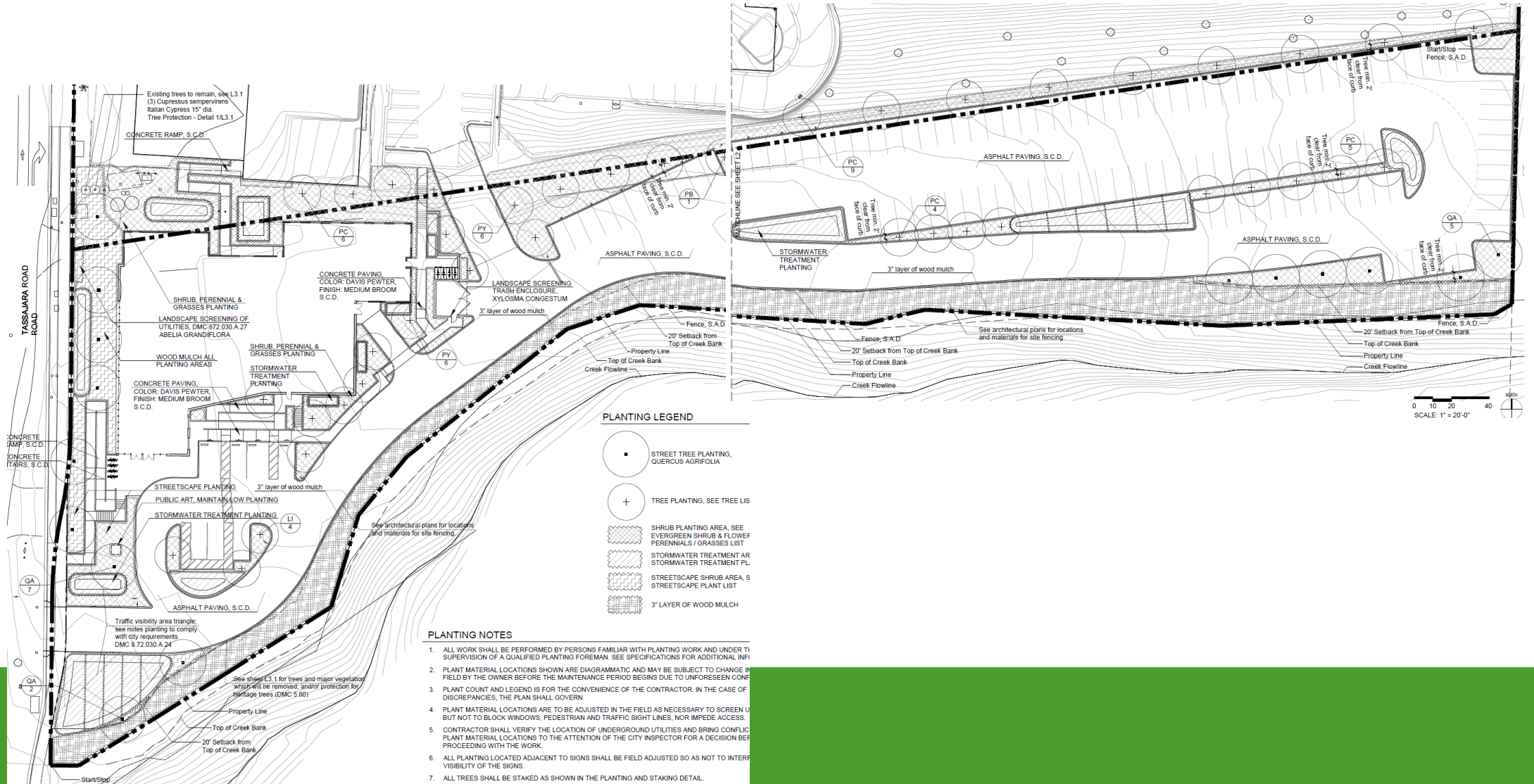


North Elevation



East Elevation

Landscape Plan



DUBLIN
CALIFORNIA

Environmental Review

- Eastern Dublin Specific Plan EIR
- Initial Study prepared
- New Impacts
- Supplemental Mitigated Negative Declaration

Recommendation

- Adopt the Resolution adopting a Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program;
- Waive the reading and introduce the Ordinance amending the Zoning Map and approving an amened Planned Development Zoning District and related Stage 1 and 2 Development Plans; and
- Adopt the Resolution approving a Condition Use Permit and Site Development Review Permit for a new Performing Arts Center at the Quarry Lane School.

October 3, 2023

SB 343

Senate Bill 343 mandates supplemental materials that have been received by the City Clerk's office that relate to an agenda item after the agenda packets have been distributed to the City Council be available to the public.

The attached documents were received in the City Clerk's office after distribution of the October 3, 2023, Regular City Council meeting agenda packet.

Item 6.1

CITY MANAGER'S OFFICE MEMORANDUM

DATE: October 3, 2023

TO: Honorable Mayor and City Councilmembers

FROM: Colleen Tribby, Assistant City Manager

SUBJECT: Item 6.1 Quarry Lane School Performing Arts Center (PLPA-2021-00041

The October 3, 2023, City Council Meeting includes an item adopting the Resolution Adopting a Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for a New Performing Arts Center at the Quarry Lane School.

After the agenda was posted, Staff identified missing pages from Attachment 2 – Exhibit A to the Resolution – Supplemental Mitigated Negative Declaration. The attachment should be Appendix C to Attachment 2.

LSA

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: August 8, 2023

TO: Anne Hersch, Assistant Community Development Department Director, City of Dublin

FROM: Shanna Guiler, AICP, Associate/Environmental Planner

SUBJECT: Quarry Lane School Performing Arts Center Project Initial Study/Mitigated Negative Declaration - Response to Comments

In accordance with Section 15074 of the CEQA Guidelines, prior to approving a project, the decision-making body of the lead agency shall consider the proposed environmental document together with any comments received during the public review process. Although there is no legal requirement to formally respond to comments on a proposed Mitigated Negative Declaration (MND) as there is for an Environmental Impact Report (EIR), this memorandum provides a response to the written comments received on the Quarry Lane School Performing Arts Center Project Initial Study/Mitigated Negative Declaration (IS/MND) to aid the City of Dublin decision-makers in their review of the project.

One comment letter was received on the Draft IS/MND. In the following pages, the comments and responses are enumerated to allow for cross-referencing of CEQA-related comments. The enumerated comment letter is included in this memorandum, followed by the respective responses. Individual comments within the letter are numbered consecutively. For example, comment A-1 is the first numbered comment in Letter A.

The following comment letter was submitted:

LETTER A
Zone 7 Water Agency, Elke Rank
July 31, 2023

As noted above, CEQA does not require or provide guidance on responding to comments on MNDs; therefore, this memorandum follows CEQA Guidelines Section 15088, applicable to responses to comments on EIRs, which requires that agencies respond only to significant environmental issues raised in connection with the project. Therefore, this document focuses primarily on responding to comments that relate to the adequacy of the information and environmental analysis provided in the IS/MND.

Comment Letter A

ZONE 7 WATER AGENCY
Delivering Quality, Reliability and Safety

100 North Canyons Parkway
Livermore, CA 94551
(925) 454-5000

July 31, 2023

Linda Ajello, Senior Planner
Community Development Department
100 Civic Plaza
Dublin, CA 94568

Sent by email: Linda.Ajello@dublin.ca.gov

Re: Quarry Lane School Performing Arts Center

Zone 7 Water Agency (Zone 7, or Zone 7 of the Alameda County Flood Control and Water Conservation District) has reviewed the referenced document in the context of Zone 7's mission to "Deliver safe, reliable, efficient, and sustainable water and flood protection services" within the Livermore-Amador Valley. Below are our comments for your consideration.

1. **Wells –** Your draft CEQA document is missing supply well 2S1E28L002. Please refer to the maps found in Attachment A for approximate location. **A-1**
2. **Groundwater Basin -** Note that the subject property (or project) is located within the basin area under sustainable groundwater management by Zone 7 as per the Alternative Groundwater Sustainability Plan for the Livermore Valley Groundwater Basin (https://www.zone7water.com/sites/main/files/file-attachments/alt_gw_sustainability_plan-4.pdf?1656015908) and is subject to all relevant sustainable groundwater management actions. **A-2**
3. **Flood Protection / Impervious areas -** Developments creating new impervious areas within the Livermore-Amador Valley are subject to the assessment of the Development Impact Fee for Flood Protection and Storm Water Drainage. These fees are collected for Zone 7 by the local governing agency: 1) upon approval of final map for public improvements creating new impervious areas; and/or 2) upon issuance of a building or use permit required for site improvements creating new impervious areas. Fees are dependent on whether post-project impervious area conditions are greater than pre-project conditions. **A-3**

Comment Letter A Cont.

ZONE 7 WATER AGENCY
Delivering Quality, Reliability and Safety

4. **Water-wise Landscaping -** Zone 7 encourages the use of sustainable, climate-appropriate, and drought-tolerant plants, trees and grasses that thrive in the Tri-Valley area. Find more information at: http://www.trivalleywaterwise.com.

A-4

We appreciate the opportunity to comment on this project. If you have any questions on this letter, please feel free to contact me at (925) 454-5005 or via email at erank@zone7water.com.

Sincerely,

Elke Rank

Elke Rank
cc: Ken Minn, file

Attachment (1) – Well location map

Comment Letter A Attach.

ZONE 7 WATER AGENCY
Delivering Quality, Reliability and Safety

ATTACHMENT A



Comment Letter A Attach.

ZONE 7 WATER AGENCY
Delivering Quality, Reliability and Safety

Quarry Ln School

ZONE 7
WATER RESOURCES ENGINEERING

WELL LOCATION DATA

WELL NUMBER 2S/1E 28L 2

ADDRESS: 6363 TASSAJARA RD
DUBLIN
OWNER: RODMAN & AZEVEDO

PRIMARY USE: WATER SUPPLY [X]
CATHODIC [ ]
MONITORING [ ]

DRILLER:

DATE COMPLETED:

DEPTH: COMPLETED 175 Ft
DRILLED Ft

DIAMETER 10 In

OTHER
DESIGNATION: LOT 10
PUMP: TYPE SUBMERSIBLE
MAKE WESTINGHOUSE
HP 3
DISCHARGE 1.5 In

METER NUMBER

SOUNDED DEPTH 175 Ft

DATE SOUNDED 10/29/1997

DATE DESTROYED

DATE UNLOCATABLE

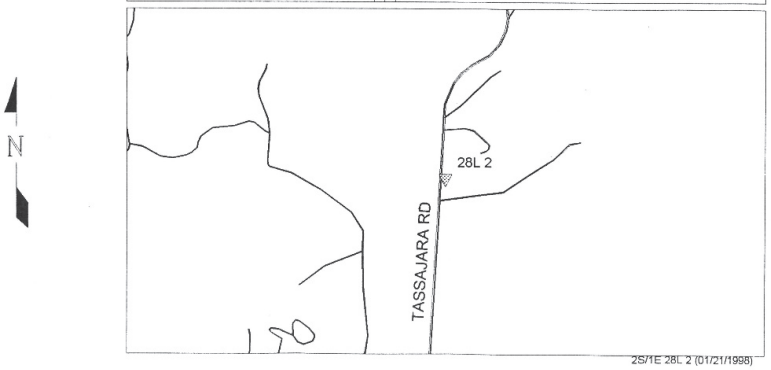
LOCATION SKETCH

DETAIL



Scale: 1 inch = 200 ft

GENERAL



Scale: 1 inch = 2000 ft
0 2000

2S/1E 28L 2 (01/21/1998)

LETTER A
Zone 7 Water Agency, Elke Rank
July 31, 2023

Response A-1: The comment, which indicates that the Draft IS/MND does not include reference to supply well 2S1E28L002, is acknowledged. As shown in the maps attached to the comment letter the supply well is located within the existing parking lot on the Quarry Lane School property. The proposed project would be constructed in the southernmost portion of the school property; no ground disturbance or construction activity would occur at the location of the existing well.

As further described on page 102 of the IS/MND, the proposed project would connect to the existing water lines within the vicinity of the project site and would not require the direct use of groundwater. Water would be supplied by the Dublin San Ramon Services District (DSRSD) and Zone 7, which relies primarily on imported water from other sources. Although Zone 7 does use local groundwater to augment the local water supply, groundwater resources are managed to ensure supplies are maintained.

Although the proposed project would result in a net increase in impervious surface coverage compared to the existing condition, the proposed project would include the use of LID, including multiple bioretention basins and storm drains throughout the site that would retain and clean stormwater on-site before discharging it into the municipal stormwater system, consistent with Provision C.3 of the Municipal Regional Permit (MRP) (Order No. R2-2022-0018 NPDES Permit No. CAS612008).

Further, Mitigation Measures 3.5/49.0 and 3.5/50.0 of the Eastern Dublin EIR, which require that facilities and management practices in the Eastern Dublin EIR area protect and enhance water quality, were identified to reduce potential impacts related to groundwater recharge to a less-than-significant level (see pages 99 and 100 of the IS/MND). With adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR, there would be no new impacts to groundwater supplies beyond what has been analyzed in the previous Eastern Dublin EIR. No change to the IS/MND is required.

Response A-2: This comment, which states that the project site is located within the basin area under sustainable groundwater management by Zone 7, is acknowledged. As noted in Section 9 on page 99 of the IS/MND, the San Francisco Bay RWQCB Basin Plan identifies the proposed project as being within the Livermore Valley groundwater basin (Basin ID 2-10). As defined in DWR Bulletin 118 Update 2003 (California's Groundwater), the Livermore Valley Groundwater Basin (DWR Basin 2-10) extends from the Pleasanton

Ridge east to the Altamont Hills and from the Livermore Uplands north to the Tassajara Uplands. Due to the depth of groundwater and the shallow excavations required for project construction, dewatering is not anticipated during construction activities.

As described in Response A-1, the proposed project would connect to the existing water lines within the vicinity of the project site, which are supplied by DSRSD and Zone 7. Although the proposed project would result in a net increase in impervious surface coverage compared to the existing condition, adherence to applicable regulatory requirements and mitigation measures identified in the Eastern Dublin EIR would ensure that impacts related to groundwater recharge would not be significant. Therefore, there would be no new impacts to groundwater supplies beyond what has been analyzed in the previous Eastern Dublin EIR. No change to the IS/MND is required.

Response A-3: This comment, which states that development creating new impervious areas within the Livermore-Amador Valley are subject to the assessment of the Development Impact Fee for Flood Protection and Storm Water Drainage, is acknowledged. The City of Dublin will collect the required development fees from the project applicant as part of the project approval. No change to the IS/MND is required.

Response A-4: The comment, which states that Zone 7 encourages the use of sustainable, climate-appropriate and drought-tolerant plants, trees and grasses, is acknowledged. As described on page 9 of the IS/MND, the proposed project would include a landscape buffer along Tassajara Road, landscape plantings, including a variety of trees, shrubs, flowering perennials, and grasses around the building and in the parking lot several landscaped stormwater basins. Most of the proposed trees, shrubs, and groundcovers would be either native species or drought tolerant species for water conservation. Further, the proposed project would be required to comply with MM 3.5/26.0 (Program 9A) as identified in the Eastern Dublin Specific EIR, which requires water conservation measures be included as conditions of approval for projects in eastern Dublin. No change to the IS/MND is required.

Agenda Item 8.1

STAFF REPORT
CITY COUNCIL

DATE: October 3, 2023

TO: Honorable Mayor and City Councilmembers

FROM: Linda Smith, City Manager

SUBJECT: Dublin Arts Center Operations Overview
Prepared by: Bridget Amaya, Assistant Parks & Community Services Director

EXECUTIVE SUMMARY:

The City Council will receive an overview of the planned operation of the Dublin Arts Center.

STAFF RECOMMENDATION:

Receive the report.

FINANCIAL IMPACT:

There is no financial impact associated with this report. Fees, expenses, and revenues depicted in the operations guide are estimates. All fees and budget projections will be approved per the City's budget and fee schedule process.

DESCRIPTION:

Background

In October 2019, the City Council approved an agreement with Group 4 Architecture Research and Planning, Inc. to develop the old Police Services wing of the Civic Center Complex, encompassing 13,500 square feet of the Civic Center, into the Dublin Arts Center. The center will include a black box theater, an art gallery, and program spaces, including a dance studio, an arts and crafts room, a mixed media space, a music studio, and an art yard/ceramic studio. On May 19, 2020, the City Council approved the schematic design of the proposed Dublin Arts Center. Since then, City Staff and Group 4 have been working through the design development process.

In 2021, Staff began conducting research and compiling feedback from the Heritage and Cultural Arts Commission (HCAC) to draft an operations guide to outline guiding principles, strategies, and programming for the Dublin Arts Center. Additionally, on June 7 and September 20, 2021, The Parks and Community Services Commission (PCSC) provided feedback and suggestions for items to incorporate into the plan.

In February 2022, an ad hoc committee was created, comprising members from the HCAC, PCSC, the Youth Advisory Committee, and the Senior Center Advisory Committee. This committee reviewed the draft operations guide and provided comments for inclusion.

On November 10, 2022, the HCAC recommended the Dublin Arts Center Operations Guide as presented. As more research and data have been acquired, minor non-substantive changes have been made to the plan.

Dublin Arts Center Operations Guide

This document aims to outline guiding principles, strategies, and programming to assist Staff in maximizing the utilization of spaces and guide the operations of an efficient facility that minimizes General Fund subsidies. The document highlights the facility's planning approach, strategies, marketing, operations, management, and projected financials.

With the main goals of the facility being accessibility for all and building connections to the arts community, Staff intends to focus on collaboration with quality instructors, artists, and engaging with community members and organizations in Dublin and surrounding communities.

In preparation for the opening of the Dublin Arts Center, Staff have been actively researching and analyzing best practices of nearby theaters and cultural arts centers. Staff has collected policies and procedures from such facilities and regularly communicates with them to learn from experiences and enhance Dublin's presence in the arts community. This will be an ongoing process well after the center's opening day. These facilities include:

- Bankhead Theater – City of Livermore
- Dougherty Station Community Arts Center and Galleries – City of San Ramon
- Firehouse Art Center and Gallery – City of Pleasanton
- Lesher Center for the Arts – City of Walnut Creek
- Mertes Center for the Arts, Los Positas College – City of Livermore
- Mountain View Center for the Performing Arts – City of Mountain View
- Olive Hyde Art Center and Gallery – City of Fremont
- The Grand Theater and Gallery – City of Tracy
- Village Theatre and Gallery – Town of Danville

As part of the Operations Guide, Staff is drafting a detailed marketing plan to create a constant presence that will appeal to the community and respond to needs and interests. This will include a website specific to the Center, inserts in the existing activity guide, social media, broad theatrical season announcements, and collaborations with partners.

The Dublin Arts Center will typically be open from 8:00 a.m. to 8:00 p.m., Monday through Saturday, and Sundays from 8:00 a.m. to 5:00 p.m., to accommodate programs, classes, workshops, performances, exhibits, and facility rentals. The facility will be operated by full-time staff during traditional office hours, as the Parks and Community Services offices will be located on the second floor. On weeknights and weekends, part-time staff will be utilized for general facility needs. These

hours could be expanded for facility rentals or class schedules, with additional staffing costs covered in facility rental or class/activity revenue.

Classroom/Program Spaces

Program spaces will be utilized for City-sponsored classes and activities as well as co-sponsored events such as paint/poetry nights, workshops, afternoon drop-in art events, and historian chats. Additionally, these spaces may serve as meeting spaces for various arts groups to foster connections among creative Dublin residents. Staff are also actively researching ceramic studio guidelines as well as the use of environmentally safe art supplies and equipment to reduce the ecological impact of the programs. This may include water-based paints, natural pigments, recycled paper and canvas, eco-friendly brushes, natural and recycled sculpture materials, non-toxic glues and adhesives, soy-based inks, and recycled art supplies.

The department will solicit experienced and knowledgeable instructors who will be compensated 60% of the resident rate, while the City will retain the remainder. Classes currently secured are watercolor painting, calligraphy, theater and improvisation, anime and magna drawing, hip hop, toddler ballet, break dancing, tap dance, and clay art, with interviews scheduled with instructors for digital art, succulent creation, music ensembles, visual storytelling, spoken word art, Bollywood dance, sewing, theater arts, mandala art, felt making, abstract art, color theory, self-portraiture and more. The estimated revenue projections noted in the Operations Guide are based on the current average number of participants and class prices for the department's existing art and dance classes.

Precinct Black Box Theater

Named to commemorate the old Police Services wing of the Civic Center, the Precinct Black Box Theater is expected to support a variety of productions, rehearsals, and events for smaller-scale performances of up to 150 people. Utilizing a combination of the department's amenity-based fee schedule and researching competitive market rates of similar facilities, Staff has determined a base rate to start the fee development process. The table below illustrates similar-sized theaters and their base or resident rental rates. Rates may have a sliding scale determined by the day of the week and rental type. The estimated revenue projections noted in the operations guide are based on the highlighted rate noted below.

TABLE 1: Base Rental Rates of Local Theaters

NAME	LOCATION	BASE RATE	CAPACITY
Firehouse Theater	Pleasanton	$145 hr	220
Front Row Theater	San Ramon	$44 - $75 hr	90
Mertes Center for the Arts (Black Box)	Los Positas College	$125 hr	75
Precinct Black Box Theater	Dublin	$130 hr	125
Second Stage (Black Box)	Mountain View	$50 hr	212
Studio Theater (at the Grand)	Tracy	$53 hr - $73 hr	110
Village Theatre	Danville	$70 - $96 hr	245
Vukasin Theater (Lesher Center)	Walnut Creek	$60 - $140 hr	133

Gallery 180

Gallery 180 is named as a tribute to the unique shape of the Dublin Arts Center within the distinctive 360-degree Civic Center, which plays an essential role in the overall harmony of the facility. The gallery space will support an exhibition program for small to medium audiences and will traditionally be open during regular operating hours. As Staff continues to research operating procedures, the table below represents an initial cost comparison with similar facilities, including artist submission fees and cost-sharing percentages for art sales. The estimated revenue projections noted in the operations guide are based on the highlighted rates noted below.

TABLE 2: Art Gallery Rates

NAME	LOCATION	SUBMISSIONS FEE	COST SHARING
Alcosta Senior Center Gallery	San Ramon	$30	20%
Bankhead Theater Gallery	Livermore	$25	30%
Dougherty Station Gallery	San Ramon	$30	20%
Gallery 180	Dublin	$30	30%
Grand Theatre	Tracy	$0	20%
Harrington Gallery	Pleasanton	$30	30%
Lindsay Dirkx Brown Gallery	San Ramon	$55	20%
Olive Hyde Art Gallery	Fremont	$30	40%
Village Theatre Gallery	Danville	$35	40%

Staff will continue to focus on facility programming, marketing, operations, and partnerships to best prepare for the doors opening in 2024, with an intent to assess fees, staffing levels, policies, and procedures annually, including the planning of a public forum to occur in February of 2025 to solicit insight and recommendations for future activities and operations.

Construction Status

On September 20, 2022, City Council awarded the Dublin Arts Center construction contract to Strawn Construction, Inc. The contractor's team has completed the demolition and the majority of light gauge metal framing to define interior spaces. Work is continuing on the building systems which include electrical, communications, plumbing, HVAC, and fire prevention. The contractor is also working on structural steel modifications, the roof and thermal insulation system, and exterior sitework along the westerly side of the building. The next phases of construction include installing window and door frames, hanging drywall, and installing roof-mounted equipment for the HVAC system. Construction is currently on budget, with completion anticipated in late spring 2024.

STRATEGIC PLAN INITIATIVE:

None.

NOTICING REQUIREMENTS/PUBLIC OUTREACH:

The City Council Agenda was posted.

ATTACHMENTS:

1) Dublin Arts Center Operations Guide





DUBLIN
CALIFORNIA

CITY OF DUBLIN
PARKS AND COMMUNITY SERVICES DEPARTMENT

DUBLIN ARTS CENTER OPERATIONS GUIDE







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CITY OF DUBLIN
PARKS AND COMMUNITY SERVICES DEPARTMENT

DUBLIN ARTS CENTER OPERATIONS GUIDE

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EXECUTIVE SUMMARY

This document aims to outline guiding principles, strategies, and programming for the Dublin Arts Center (DAC), assist staff in maximizing the utilization of spaces, and guide the operations of an efficient facility that minimizes general fund subsidies. The DAC will be operated by the City of Dublin's Parks and Community Services Department and will serve as the hub of Cultural Arts programming.

The DAC will focus on the arts and become a true cultural asset in Dublin. Ideally, it will be a place where children, young people, adults, and seniors can meet to engage with people of similar interests. In addition to exhibitions in the art gallery and small-scale performances in the black box theater, the Center will offer programming for all ages, including photography, painting, ceramics, creative writing, filmmaking, drama, music, sculpture/3D art, and crafts.

GOALS

Access – Everyone should be able to create, exhibit, perform, and experience art. We are dedicated to those who live, work, study, and play in Dublin and surrounding communities. The DAC will strive to provide artistic opportunities regardless of race, sexuality, gender, and socioeconomic demographic. We will provide accessible, affordable performance, rehearsal, and education spaces to support community and youth development. We will proactively recruit instructors and class offerings representing Dublin's diverse cultures and ethnicities.





Collaboration – We believe our success is tied to our instructors, artists, and community members. Our primary commitment is to support, elevate, and engage organizations and individuals in, from, and serving Dublin neighborhoods. We will collaborate and coordinate with local, regional, and national partners to serve our community. We will accommodate a broad array of high-quality arts programming that responds to demand from Dublin residents and the surrounding Tri-Valley, as well as trends in art programming.

Trust – The DAC is a haven to create and explore art and community. We will be trusted partners with growing artists and arts organizations, empowering youth and building community. We intend to maintain a high-quality, multi-purpose facility with amenities that have the highest degree of functionality. We will operate on a sound financial basis to ensure a sustainable funding requirement that minimizes a general fund subsidy.









CITY MISSION AND VISION

MISSION

The City of Dublin promotes and supports a high quality of life, ensures a safe and secure environment, fosters new opportunities, provides equity across all programs, and champions a culture of diversity and inclusion.

VISION

Dublin is a great community to live, work, and raise a family. Dublin values:

Safety | We are dedicated to excellent public safety resources, including police and fire.

Finances | We will strive to be fiscally transparent and balance our budgets annually.

Inclusivity | We will advocate for programs and policies that support inclusive access to housing and cultural opportunities.

Diversity | We will support a wide range of programs and events that reflect and cater to the diversity of our residents.

Equity | We will deliver our services in a way that ensures equitable access to all.

Innovation | We will continue to innovate in every aspect of government and promote innovation within the business community.

Customer Service | We will provide welcoming, excellent customer services to our residents and businesses at all times.

Living an Active Lifestyle | We will continuously promote an active lifestyle through our parks and facilities and encourage participation in local sports.

History | We will honor our history through places and programs that remind people of our beginnings.

Business | We will provide a full spectrum of opportunity by supporting current and prospective businesses through ongoing economic development efforts and helping them grow and thrive locally.

Environmental Sustainability | We will continue to lead in building a well-planned sustainable community and protecting our natural resources.

PLANNING APPROACH

In considering the City's mission, values, needs, opportunities, and potential viability of a cultural arts center, extensive research and analysis were completed. In 2016, both a feasibility study and a needs assessment were completed. In 2019, the City of Dublin contracted with GreenPlay, LLC, to update its Parks and Recreation Master Plan. This process included a community survey that solicited input on cultural arts programs and activities. These assessments focused on the City's mission, values, needs, opportunities, and the potential viability of a Cultural Arts Center.

Input and feedback from the City's Heritage and Cultural Arts Commission and Parks and Community Services Commission were gathered. The Commissions examined comparable facilities and considered organizational structure, annual revenue, and expenses; revenue sources; and program types and sizes incorporated into the facility's layout, programming plans, and ultimately the final design of the DAC.

DOWNTOWN CONNECTION

After years of hearing from the community about the need to create a Downtown in the City of Dublin, the City Council unanimously approved the Downtown Dublin Preferred Vision. Its main principles were the siting of a town square and enhancing the character of Downtown Dublin. With the site of the DAC being less than a mile from the future "social center," it will certainly assist in the path forward to a main street experience in the following ways:

- Restaurants may open, expand, and prosper in service to audiences before and after performances.
- More retail businesses may open in response to street and pedestrian activity between the DAC and the downtown area.





STRATEGIES

The DAC is an approximately 13,500 square-foot facility that will feature a black box theater, an art gallery, an arts and crafts classroom, a mixed media classroom, an arts yard, a ceramics studio, a dance/fitness studio, a music room, and a small catering kitchen.

Basic strategies for the DAC are as follows:

GALLERY 180

Exhibitions – The DAC will become the site for year-round art exhibitions. The gallery space will support an exhibition program for small to medium audiences, with exhibition space leaking into the rest of the facility, including hallways and other appropriate spaces to tie cultural arts into the entire facility.

PRECINCT BLACK BOX THEATER

Performances – The black box theater is expected to support a variety of productions, rehearsals, and events for smaller-scale performances. It may also house small acting and theater classes and will be available for private rentals.

CLASSROOMS/MEETING SPACES

Education – Designed for learners of all ages. Depending on community interests, a focus on topics from creative writing to painting, sketching, photography, filmmaking, music, and digital arts. Additionally, these spaces will serve as meeting spaces for various affinity groups within the arts to foster connections among creative Dublin residents. It will be a priority to allow for no-cost use of the spaces throughout the week during regular business hours. A schedule will be determined after observing DAC visitor traffic and usage.

COMMUNICATIONS

The DAC will function as a clearinghouse for arts information in Dublin, offering a comprehensive web-based calendar of arts events. We will work to establish a cultural arts information website that lists programs, classes, and events that becomes the central source of information for cultural arts programming at the DAC.



MARKETING PLAN

A detailed marketing plan will be created as audience development and customer databases are crucial to the success of the DAC. The frequency and diversity of the DAC's programs are key to the growth of clientele and should appeal to the community. Staff will strive to create a constant presence in the minds of this clientele and respond to their needs and interests. Developing a community of clientele and supporters through email lists and social media is essential.

i. The branding and positioning of the facility and its programs should stress the following attributes:
    a. The DAC is a unique cultural venue in terms of its programs and character.
    b. The DAC supports various programs for all local and regional residents.
    c. The DAC is easy to find, close to the future Downtown Dublin, located in a safe area, has ample parking, and is professionally staffed.

i. A website specific to the DAC will be the hub of all communication and demonstrate the brand and roster of offerings. It will be the DAC's most important communication tool, allowing residents and art lovers access to the DAC's registration system, information on the gallery, black box theater, facility rentals, and DAC offerings. The website will be up-to-date and clear.











ii. Along with a website, existing activity guide, and use of social media, print advertising and collaboration with partner organizations should be considered. Efforts should be made to begin partnerships with media outlets focused on outreach to prominent cultures in the City of Dublin and the region. Radio advertising, bus shelters, bus tails, street banners, etc. should also be considered. The type and frequency will be adjusted depending on the type of offering. Given the proximity of the DAC to the 580/680 freeway interchange and BART, advertising should also be considered in transit stations, centers, and corridors.

iii. Leading up to the opening of the DAC, an effort will be made to have programs, events, and other offerings ready for that season. These will help build community excitement and pride and lead to audience development and customer databases.

iv. Once the DAC is established, broad season announcements will be developed to complement the Parks and Community Services Department's existing activity guide. These seasonal announcements could be posters and flyers communicating gallery exhibits, performances, and other offerings. Marketing for small, individual, or one-off programs, should take place but may only be in the form of digital marketing.

v. Staff will work closely with the Senior Advisory Committee, the Youth Advisory Committee, the Parks and Community Services Commission and the Heritage and Cultural Arts Commission to foster outreach ideas and keep connections with all demographics in Dublin and the region. Thus far, strategies include morning video announcements at Dublin's high and middle schools, communicating with school clubs, and working closely with art teachers.

OPERATIONS AND MANAGEMENT PLAN

The Parks and Community Services Department will develop and manage the DAC's programs with staff dedicated to the DAC.

HOURS OF OPERATION

The DAC will typically be open from 8:00 a.m. to 8:00 p.m., Monday through Saturday, and Sundays from 8:00 a.m. to 5:00 p.m., to accommodate programs, classes, workshops, performances, exhibits, and facility rentals. The facility will generally be operated by full-time staff during traditional office hours. It will transition to part-time staff to tend to general facility needs on weeknights and weekends. These hours could be expanded pending facility rentals or class schedules, with additional staff costs covered in facility rental or class revenue.

FACILITY RENTALS

The DAC should be available for rental to the community at large, including arts groups for rehearsal and performance, residents, civic organizations, businesses, and individuals who may need the space for meetings or events. City programs will be planned and booked 12-18 months in advance, with remaining available spaces open to the public on a first-come, first-served basis. Explicit policies for facility rentals are already in place within the department's existing facilities and will be utilized in the new DAC. Further policies will be established to guide the operation of the gallery and theater spaces as the department does not have existing facilities similar to this.

Fees for DAC rentable spaces will be determined using the department's amenity-based fee schedule, which formulates the square footage of each space with the amenities available. Additionally, staff will review costs for similar spaces in the region to ensure the DAC's fees coincide with like spaces in other cities. Ultimately, rental rates will cover direct costs, which can be tied to the space, such as staff and equipment, and indirect costs, such as building maintenance and utilities. Rates may be discounted for non-profit organizations but will cover the direct costs of the facility rental.

Utilizing existing facility rental procedures, staff will develop guidelines for DAC rentals that will include vendor requirements, insurance requirements, user manuals for equipment, necessary permits, contracts/agreements, equipment inventory, maintenance schedules, replacement schedules, room layouts, fee schedules, rental maximums/minimums, alcohol use, outside permitting requirements, room capacities for all styles of seating, facility staff manuals, cancellation policy, and general facility rules to be established six months prior to opening.

PRECINCT BLACK BOX THEATER

The DAC will be home to a theater space of approximately 2,000 square feet with a maximum capacity of 150. A black box theater is defined as a simple indoor performance space with level floors and plain walls, purposely designed to provide flexibility in configuration.

i. The black box theater will feature a variety of programs, including City-sponsored performances, private performances, contract programming, and private rentals or indoor film festivals. Booking for the venue will typically occur a year or more in advance. Rental rates will be established based on user type. These uses include City-sponsored ticketed events and co-sponsored events with outside organizations.
    a. Private use for performing arts that includes performance and rehearsal time. Rates could vary depending on time/type of use and if open to the public or invite only.
    b. Private use for social events such as birthdays and other celebrations.

i. Rental rates for the black box theater could include hourly rental rates, revenue sharing, and equipment rental/use fees.

i. The black box theater will be outfitted with lighting, sound, and other theatrical equipment to best serve the needs of user groups. This equipment will be used by an approved audio/visual professional, with staffing costs passed onto the facility user.

i. Consideration will be given to users/groups booking a series or multiple theatrical performances requiring reservations to be secured more than a year in advance.

ii. The City will use existing registration platforms to manage ticketed performances for City and City-sponsored events in the theater space. Upon request, the City will use existing registration platforms to help manage ticketed performances for outside organizations, with administrative and payment processing costs passed on to outside groups and/or revenue sharing in these instances. Additionally, staff will explore ticketing platforms that may create a more seamless purchase experience for reserved seating within the black box theater.





GALLERY 180



The DAC will be home to a dedicated gallery space of approximately 600 square feet. The gallery will traditionally be open during regular operating hours.

iii. Additional staffing for the gallery space is generally not required. The front desk staff and a video security system will provide adequate supervision. It is recommended that a volunteer/docent program be established to supplement supervision and enhance the experience for gallery visitors. This could be done in partnership with arts organizations and individual volunteers. The gallery may also be opened while performances are taking place in the theater space of the DAC. It's recommended that a volunteer/docent be present during these times. In the absence of a volunteer, the part-time staff assigned to the rental can oversee the area and the remainder of the facility.

iv. Staff should plan on curating approximately six exhibits per year, with at least one being youth-based and one being a juried exhibition. This will allow each exhibit to be on display for 6-8 weeks and for preparation time in between exhibits. Exhibitions by more prominent artists may last longer than 6-8 weeks, while exhibitions by local community groups may be shorter. Additionally, staff should look into exhibits that feature specific mediums by multiple artists and "member exhibitions" that could highlight local arts organizations. Staff will create standards to determine prominent or professional artists versus amateur or community-based artists. Opening receptions/events for exhibition openings should be planned. Staff could also research costs and information on traveling or touring exhibitions to attract audiences and promote access to knowledge and materials that may not be available locally. To ensure visual diversity and continuous use of the gallery, upon confirmation of City-curated exhibitions, staff may contact local partners to provide dates for the remaining blocks.

v. Artist submissions to be considered for the gallery space will be accepted, with a "Call for Artists" conducted annually if necessary. Generally, the gallery will be scheduled a year in advance. Artists, to ensure commitment, will be required to pay a nominal fee for their submission. This fee will be similar to those of like venues and will be listed in the City's Master Fee Schedule. The establishment of an ad-hoc gallery selection committee should be established. With staff oversight, this committee may accept and deny submissions. Gallery submissions will be accepted regularly, and the schedule will be coordinated with

artists once submissions are confirmed. The ad-hoc committee shall include representation from:

- Heritage and Cultural Arts Commission
- Community-at-large
- Members of other local arts-based organizations

vi. Sales of exhibition pieces in the gallery space are encouraged. The City will retain a percentage of all sales. The percentage will be listed in the City's Master Fee Schedule (generally, The City would retain around 30%). While artwork can be sold, it will not be removed from the display until the exhibition concludes. A sold tag will be placed on items that have been purchased, and reconciliation will take place with purchasers and artists at the end of the exhibition period.

vii. Adequate display equipment shall be invested in and provided. This includes systems to display different artwork mediums and fully adjustable pedestals, wall mounting systems, and lighting. City staff and artists will work collaboratively to identify needs with no guarantees the City will make equipment available. More capability will allow for a broader range of exhibits.

viii. Galley space may also be used for gallery talks, artist spotlights, and temporary pop-up exhibitions.

CLASSROOMS/PROGRAM SPACES

Classroom spaces may be utilized for City-sponsored classes via independent contract instructors to offer various year-round cultural arts programs for all skill levels and ages, from preschool to seniors. The City will manage and collect program registrations on behalf of independent contractors. Program spaces may also be used for programming affiliated with the City's Poet Laureate and Historian.

The department will solicit experienced and knowledgeable instructors to maximize the use of program-specific rooms. Instructors will be compensated 60% of the resident rate, while the City retains the remainder. Programming will primarily be scheduled during the DAC's business hours, with occasional evening and weekend classes. One Part-time temporary Recreation Aide will be needed to monitor the facility and manage room set-ups for multiple program spaces.



1. Dance and Fitness Studio (1,172 square feet)

Instructors specializing in dance and dance fitness classes will be prioritized for this class space, including but not limited to ballet, contemporary, jazz, modern, tap, tot tumbling, hip-hop, balance and agility, parent and me, Bollywood, Irish dance, belly dancing, Zumba, aerobics, Pilates, and tai chi. For successful reoccurring instructors, tiered classes will be offered each season.

2. Black Box Theater (1,970 square feet)

Classes will include musical theater, drama and acting, improv, public speaking and debate, Ted Talk, performing arts, and spoken word and presentation. Single-day final performances for sessions of performing arts, dance, and theater classes may also be occasionally performed if scheduling allows giving the black box theater more exposure. Classes and programs will need to be coordinated around live performances offered by the City and partnering organizations.

3. Arts and Crafts Room (577 square feet) and Mixed Media Room (914 square feet)

These classrooms allow for various art categories such as origami, poetry, calligraphy, comic book creations, floral, basketry, crochet, jewelry making, drawing, mixed media, TV and Film, color pencil, printmaking, portrait, painting, bookmaking, creative arts, graphite drawing, architecture and design, iPad and iPhone artistry, coding and computer science, visual arts, digital art, and photography, creative writing, science and arts educational classes, and music history.

4. Music Studio (220 square feet)

Private or small group lessons in vocals, guitar, bass, violin, keyboard, drums, percussions, folk instruments, and other orchestral instruments.

5. Ceramics Studio (1,232 square feet) and Arts Yard (1,029 square feet)

The ceramics studio is a garage-like space with a large access door leading to the arts yard, a completely outdoor space. Classes could occur in either area, pending weather and air conditions, class materials, and class sizes. Examples of classes staff would recruit instructors for include acrylics, clay, watercolors, oils, ink wash, machining, pottery, electronic art, woodworking and tinting, robotics, 3D printing, 3D modeling, multimedia, sculpture, tapestry, mosaic, stained glass, and pop/street art.



Single-day events will be offered each season to attract new patrons, such as Paint Night, Workshops, Still Life painting, etc. Either space could also feature a ceramics open studio for teens and adults to utilize City-owned electric kilns, wheels, and slab rollers for a fee. Staff will look into the management of an open studio with regard to storage, materials for sale, fees, and processes. Additional research is needed regarding jewelry, photography, and printmaking studios.

6. Catering Kitchen (229 square feet)

The DAC includes a small kitchen that should be available for various uses. This is a catering kitchen intended to centralize food delivery during events in the gallery and theater spaces. Additional benefits could include small group cooking demonstrations, but the kitchen is inadequate for more traditional cooking classes. Rental rates adjacent to a gallery or Black Box rental may be established for this space.

STAFFING AND VOLUNTEERS

The DAC will be home to the administrative offices of the Parks and Community Services Department. Existing staff will be utilized in the operation of the DAC, including management by the **Assistant Parks and Community Services Director**. The following are short job descriptions for key positions with percentages of their salary associated with the operations of the DAC.

i. Existing Staff

a. **Assistant Parks and Community Services Director**: General oversight of all operations.

b. **Recreation Supervisor:** Manage the art gallery and black box theater, staff and volunteers, private rentals, single-day events, and facility maintenance.

c. **Management Analyst I:** Solicit independent contract instructors and manage contract programs and DAC budget.

d. **Senior Office Assistant (2):** Provide customer service to visitors, perform general clerical duties, front desk operations.

e. **Recreation Leader:** Monitor the facility during evening and weekend hours. Provide customer service to visitors and support to programs.

f. **Graphic Design and Communications Coordinator:** Create graphics for the DAC and various marketing tasks.

g. **Management Analyst II:** Monitor the DAC budget, conduct research, and analyze data of the DAC.

h. **Audio-Visual Specialist:** Perform complex hardware and software installations and assist with the design, installation, troubleshooting, and repairs for DAC equipment connected to A/V systems, including microphones, sound speakers, video screens, sound and mixing boards, and other related items.

ii. Contracted Staff

a. **Sound and Light Technician:** Staff will solicit sound and light technicians to be compensated by the user.

b. **Class Instructors:** Staff will solicit instructors for classes on a contract basis, to be compensated through program fees.

iii. **Volunteers** are critical to the operation of a successful DAC. Though the DAC must have professional staff, developing a volunteer program with volunteer advocates is important. It should also be noted that volunteers should have adequate training and be adequately supervised to ensure the operational goals of the DAC are maintained.

iv. **Youth Volunteers**, particularly those in high school, including members of the Youth Advisory Committee, must be partners and advocates for the DAC and will play a large role in reviewing submissions for the annual youth exhibit. Additionally, participants in the Dublin LEAD (Leadership, Experience, and Development) program (which fosters leadership skills, assists in job experience, and aids in personal development), who have interests in cultural arts may volunteer in a multitude of ways.

PARTNERSHIPS

Working collaboratively with existing cultural arts organizations and other public and private agencies is important to ensure a broad array of programming for all demographics and abilities. Staff should work to build and keep close relationships with partners, including the local library, arts organizations, schools, and businesses that can collaborate with the City to ensure arts are an integral part of the fabric of life in Dublin. Close partners will assist in gaining a better understanding of diverse cultures and ideas that, over time, will establish the nucleus of community-based cultural groups and artists and, above all, assist in the City's mission to champion a culture of diversity and inclusion.









FINANCIAL MODEL

Tables and data below project activity and financial performance with a goal to recover direct and indirect costs and regain the costs of any expenses related to the DAC. Projections and fees in the financial model have educated assumptions to aid in planning facility operations and are not final. Fees, rates, and facility budget will be presented to the City Council per the traditional budget procedure.

REVENUE

The DAC's revenue will come from program fees, exhibitions, facility rentals, and sponsorships. This plan establishes a revenue goal of approximately $781,266 in the first full year to help offset expenses. The DAC anticipates offering a full range of programming to generate revenue to support the facility's costs. The first year's operating budget is based on the following assumptions, derived from fees charged to a traditional Dublin resident or group (base rate). The City's Master Fee Schedule typically exhibits a range of fees based on a percentage for different customer types. Public Agencies and non-profit organizations, such as churches and schools, are generally charged lower rates. In contrast, non-residents or commercial users are charged fees at the higher end of the scale. It is anticipated that not-for-profit agencies will see lower facility rental fees estimated at a reduction of no more than 15%. Anything higher would impact the City's ability to recover costs completely and would be considered a subsidy.

REVENUE GENERATION BREAKDOWN BY PROGRAM

A. Gallery 180

Six to eight exhibitions per year.

i. Estimated five artist submissions per exhibit x $30 application fee = $150 per exhibit x an average of seven exhibitions at $1,050 for the first year. Fees could vary, including reduced or no-cost rates for youth exhibits and adjusted rates for group exhibitions. Fees may be waived entirely for shows curated by others.

i. Cost sharing of art and merchandise sales. Artists set fees, and City retains 30% of any sales. The first year is estimated at $2,000.

ii. A daily rate should be considered for exhibitions not curated by the City that wishes to showcase artwork/images for more than one day, and may negate the proposed hourly rate listed on page 21.

The Gallery may be rented in between exhibitions for smaller events and art shows. It is estimated there will be four rentals in the first year, for a total estimated revenue of $1,040.

B. Black Box Theater



Private performance rentals that utilize the venue as a performance space will generate an estimated $96,720 annually. This is estimated at $130/hour for an average of 12 hours or $1,560 per rental for weekends and six-hour rentals for rehearsal time on weekdays. This revenue could increase until maximum utilization of the facility is achieved.

i. Weekend Performance Rentals: 50 rentals x $1,560 = $78,000
ii. Rehearsal Time: 24 rentals x $780 = $18,720

City co-sponsored performances may occur where revenue from ticket sales is shared with a partner organization. This would equate to four shows per month (weekdays and weekends), generating an estimated $24,000 per year. Revenue could fluctuate based on performance type, as some shows might be community-based and have lower ticket prices, while others might be more specialized and carry a higher ticket price. Additional City expenses, including theater staff, would be considered before a net revenue and cost-share were finalized.

Private rentals for social gatherings would also be available, which differ from performance rentals as these are social events that don't utilize the space and its performance capabilities. These rentals would fill dates not booked with performances and could generate an estimated $4,680 annually, or $780 per rental ($130/hour for six hours). This revenue could increase until maximum utilization of the facility is achieved.

i. Private social gatherings: 6 rentals x $780 = $4,680

C. Additional Spaces – Activities and Facility Rentals



Additional space revenues for activities are based on monthly projections using the average number of participants and class pricing averages that have trended in the Parks and Community Services Department over the past few years. The hours allocated to programming are based on how many classes per week can be programmed into each space and designated room occupancies. To account for holidays and other major events, 11 months is used to determine the projected revenue for the first full year, with the arts yard, averaged at nine months per year in case of inclement weather. The table below outlines the expected revenue for classes/activities, with the City receiving 40%, totaling $235,600.

Table 1: Additional Program Space Annual Program Revenue Projection

CLASSROOM	DAYS PER WEEK	HOURS PER DAY	MONTHS PER YEAR	PARTICIPANTS (average)	CLASS PRICE (average)	TOTAL REVENUE
Dance and Fitness Studio	5	5	11	8	$ 90	$ 198,000
Arts and Crafts Room	5	3	11	6	$ 80	$ 79,200
Mixed Media Room	5	3	11	6	$ 80	$ 79,200
Music Studio	4	3	11	3	$150	$ 59,400
Arts Yard	5	3	9	8	$ 70	$ 75,600
Ceramics Studio	5	3	9	8	$ 70	$ 75,600
Black Box Theater Classes	2	1	11	10	$100	$ 22,000
TOTAL						**$589,000**

Facility rental revenues were estimated with a base rate of ten cents per square foot, with an additional cent added for amenities in each room and the estimated number of rentals per year. Prior to final projections and inclusion in the Master Fee Schedule, staff will also research the market rate for like spaces.

Dance and Fitness Studio

12 rentals x $130 per hour x 6-hour rental = $9,360

Catering Kitchen

24 rentals x $35 per hour x 6-hour rental = $5,040

Arts and Crafts Room

12 rentals x $70 per hour x 6-hour rental = $5,040

Mixed Media Room

12 rentals x $110 per hour x 6-hour rental = $7,920

Music Studio (rent for private lessons)

24 rentals x $26 per hour x 4-hour rental = $2,496

Arts Yard

12 rentals x $30 per hour x 4-hour rentals = $1,440

Ceramics Studio

12 rentals x $135 per hour x 4-hour rental = $6,480

Gallery 180

4 rentals x $65 per hour x 4-hour rental = $1,040

D. Additional Income

Additional income will be solicited for an annual sponsorship campaign with a goal of $25,000 to assist in the facility's cost recovery. Staff will research and consider permanent or temporary naming rights for the black box theater or other spaces. Other corporate sponsorship possibilities







include exclusive entertainment opportunities, targeted access to key demographics, and inclusion in advertising campaigns, brand transfer by establishing connections to fine visual or performing art and prominent onsite presence.

Table 2: Annual Revenue Projection

SPACE	REVENUE SOURCE	PROJECTED REVENUE JULY 1 - JUNE 30
Black Box Theater	Rentals	$ 4,680
	Co-sponsored Revenue Sharing	$ 24,000
	City/Private Performances	$ 96,720
	Classes/Activities	$ 22,000
Gallery 180	Artist Submission Fees	$ 1,050
	Art and Merchandise Sales/Revenue Sharing	$ 2,000
	Rentals	$ 1,040
Dance and Fitness Studio	Rentals	$ 9,360
	Classes/Activities	$ 198,000
Arts and Crafts Room	Rentals	$ 5,040
	Classes/Activities	$ 79,200
Mixed Media Room	Rentals	$ 7,920
	Classes/Activities	$ 79,200
Music Studio	Rentals	$ 2,496
	Classes/Activities	$ 59,400
Ceramics Studio	Rentals	$ 6,480
	Classes/Activities	$ 75,600
Arts Yard	Rentals	$ 1,440
	Classes/Activities	$ 75,600
Catering Kitchen	Rentals	$ 5,040
Additional Income	Sponsorship Campaign	$ 25,000
TOTAL		**$781,266**

Table 3: Annual Revenue Projection Summary

REVENUE SOURCE	PROJECTED REVENUE JULY 1 - JUNE 30
Art and Merchandise Sales/Revenue Sharing	$ 2,000
Artist Submission Fees	$ 1,050
City/Private Performances	$ 96,720
Classes/Activities	$ 589,000
Co-sponsored Revenue Sharing	$ 24,000
Rentals	$ 43,496
Sponsorship Campaign	$ 25,000
TOTAL	**$781,266**

OPERATING EXPENSES

Staffing

The Parks and Community Services main offices and staff will transition from the Civic Center to the second floor of the DAC. This will minimize the addition of some startup costs as the department will conduct day-to-day business out of the new location utilizing existing staff. The existing department's position allocation will change to reflect the percentage of time that existing staff will spend in the operations of the DAC.

The DAC will typically be open from 8:00 a.m. to 8:00 p.m. Monday through Saturday and Sundays from 8:00 a.m. to 5:00 p.m. Part-time staff will be utilized Monday through Friday from 5:00 p.m. to 8:00 p.m., Saturdays from 8:00 a.m. to 8:00 p.m., and Sundays from 8:00 a.m. to 5:00 p.m.







Maintenance and Utility Costs

Maintenance and utility costs were projected based on the square footage of the current footprint of the DAC, utilizing past expenditures while the facility was home to Dublin Police Services. It is anticipated that costs will be similar.

Table 4: Annual Expenditure Projection

EXPENSE – BASED ON DUBLIN CIVIC CENTER SQUARE FOOTAGE	PROJECTED EXPENDITURE JULY 1 - JUNE 30
Utilities	$ 40,000
Full-time Staff Costs	$ 187,909
Part-time Staff Costs	$ 30,000
Independent Contractor Costs	$ 353,400
Marketing/Program Costs	$ 10,000
Building Maintenance Costs	$ 40,000
Maintenance Contract (MCE)	$ 120,000
TOTAL	**$781,309**







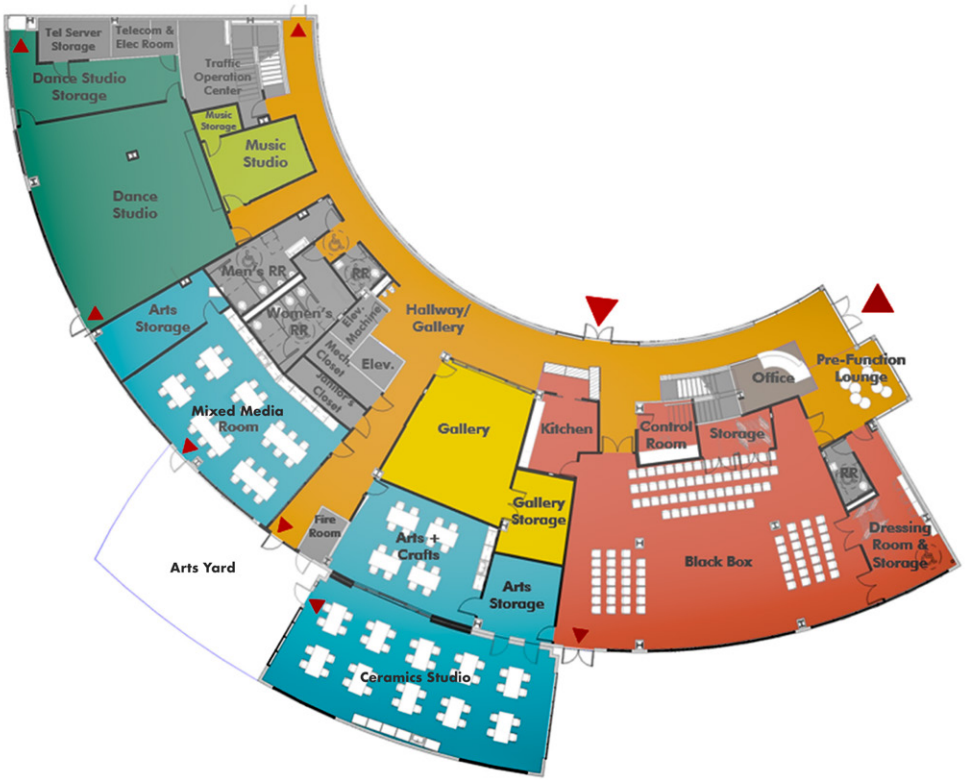




CONCLUSION

Much must be accomplished in the year leading up to the facility's opening. Staff will focus on facility programming, marketing, staffing, operations, and fundraising. The best predictor of success with new facilities is the level of preparation made before the doors open. This document has been designed as a starting point to successfully operate the DAC in year one, with the intent to assess fees, staffing levels, policies, and procedures annually.

Figure 1: Dublin Arts Center Floor Plan as of June 30, 2023


















YODA BEST!

Dublin Arts Center

Operations Guide



DUBLIN
CALIFORNIA

Project History

2016

Design firm hired to evaluate feasibility of DPS for a future arts center

2016

Consulting firm hired to conduct a review of Dublin's existing arts programs and facilities

October 2019

Greenplay hired to conduct survey in accordance with the Parks Master Plan

May 2020

City Council approves Dublin Arts Center Conceptual Design

September 2021

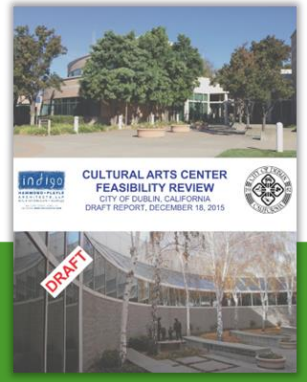
Parks & Community Services Commission reviewed and provided feedback on the Operations Guide

February 2022

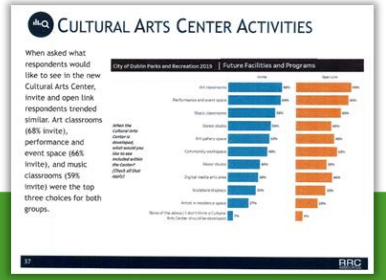
Ad-hoc committee created to review and provide feedback on Operations Guide

November 2022

Heritage And Cultural Arts Commission recommended Operations Guide









DUBLIN
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Facility Goals



Accessible for all



Collaborate and coordinate with partners to provide high quality programming

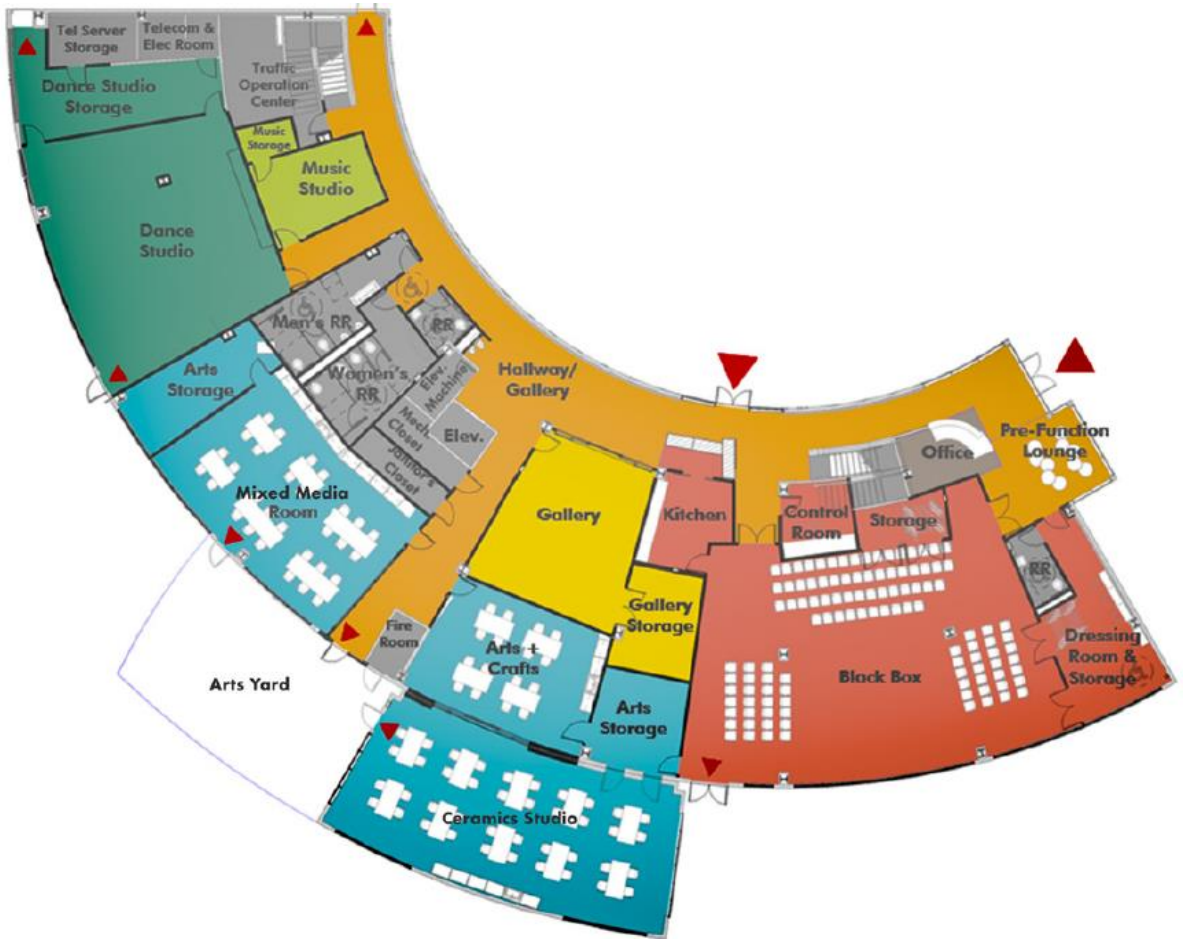


Build trusted connections with the arts community

Research

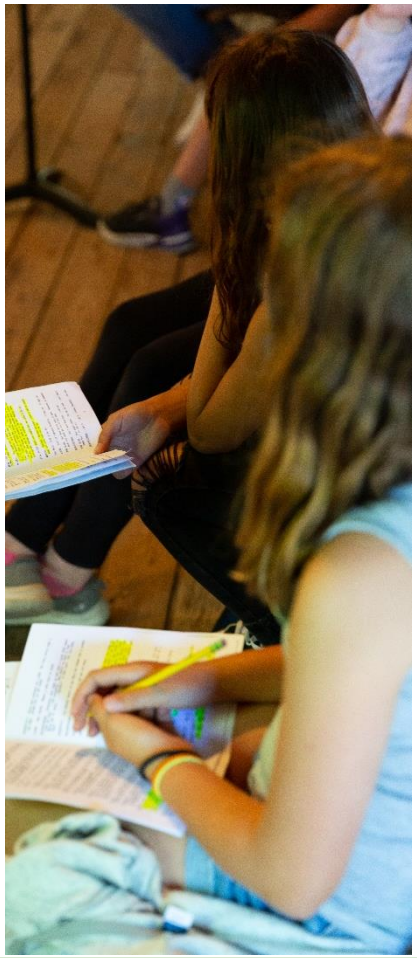
- Bankhead Theater/Bothwell Arts Center – City of Livermore
- Dougherty Station Community Arts Center and Galleries – City of San Ramon
- Firehouse Art Center and Gallery – City of Pleasanton
- Lesher Center for the Arts – City of Walnut Creek
- Mertes Center for the Arts, Las Positas College – City of Livermore
- Mountain View Center for the Performing Arts – City of Mountain View
- Olive Hyde Art Center and Gallery – City of Fremont
- The Grand Theater and Gallery – City of Tracy
- Village Theatre and Gallery – Town of Danville

Dublin Arts Center Footprint



- Music Studio – 220 sq. ft.
- Arts & Crafts Room – 577 sq. ft
- Gallery 180 – 600 sq. ft
- Mixed Media - 914 sq. ft.
- Arts Yard – 1029 Sq. ft.
- Dance Studio – 1,172 sq. ft.
- Ceramics Studio – 1, 232 sq. ft.
- Black Box Theater – 1,970 sq. ft.

Activity Rooms











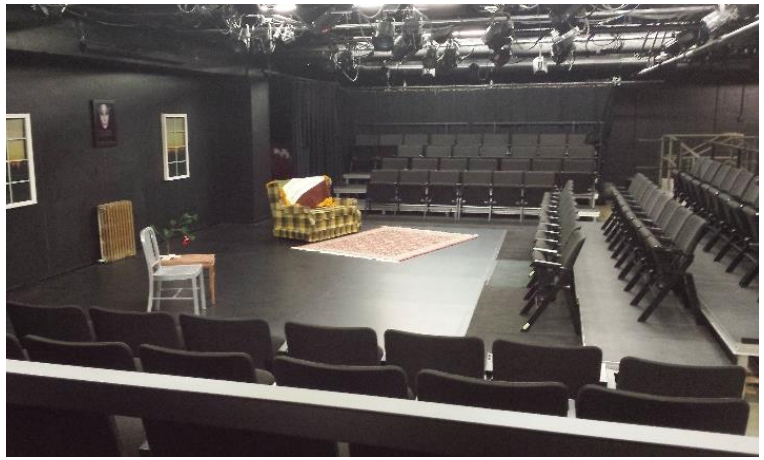




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Precinct Black Box Theater

- 1,970 square feet
- City-sponsored & private performances
- Presentations
- Classes
- Rentals









Gallery 180

- 600 square feet
- 6-8 exhibits per year
- Variety of shows & themes
- Partnerships
- Gallery rentals
- Cost sharing / sales















Construction Update

- Groundbreaking November 2022
- Construction started November 2022
- Completed work – demolition and metal framing
- Continuing work - electrical, communications, plumbing, HVAC, and fire prevention
- Construction is currently on budget
- Completion is anticipated in late Spring 2024









Thank You

