

Appendix A: Draft EIR Comment Letters

Via E-Mail

May 9, 2018

Ms. Debby Fernandez
City of Santa Clara Planning Division
1500 Warburton Avenue
Santa Clara, CA 95050
dfernandez@santaclaraca.gov

**Subject: Draft EIR for Gateway Crossings Project
(1205 Coleman Avenue, CEQ2016-01025)**

Dear Debby:

The City of San Jose Airport Department has reviewed the subject Draft EIR and finds all the aviation-related information and analyses to be adequately presented. Thus, we have no major concerns with the document, nor with the proposed project.

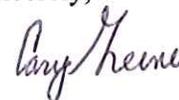
We do recommend two minor text clarifications to Transportation/Traffic Subsection 3.17.2.9 on Page 196 as follows:

- In the 1st sentence under “Air Traffic Patterns”, the phrase “...development on-site may penetrate FAR Part 77 surfaces” can be more explicitly revised to “...all proposed multi-story structures on-site would need to be filed with the FAA for airspace safety review pursuant to the notification requirements of FAR Part 77”.
- In the 3rd sentence under “Air Traffic Patterns”, immediately after the term “Determination of No Hazard”, insert the phrase “for each proposed structure”.

These text revisions would better align Subsection 3.17.2.9 with the related text under Hazards and Hazardous Materials Subsection 3.9.2.4.

If your office or the EIR consultant has any questions regarding the above comments, please contact me at 408-392-3623 or cgreene@sjc.org.

Sincerely,



Cary Greene
Airport Planner

VIA EMAIL

May 24, 2018



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408-423-2000

Stanley Rose III, Ed.D.
Superintendent

Debby Fernandez
Associate Planner
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RE: CEQA Draft EIR for Gateway Crossings Project; 1205 Coleman Avenue;
CEQ2016-01025

Dear Ms. Fernandez:

The Santa Clara Unified School District (District) appreciates the opportunity to respond to the Environmental Impact Report (EIR) for the Gateway Crossings Project (Project), by the City of Santa Clara. The 24 acres comprising the Project are currently in the Santa Clara Station Focus Area. The proposed project is requesting a General Plan Amendment to change the land use designation from Santa Clara Station Regional Commercial, Santa Clara Station High Density Residential and Santa Clara Station Very High Density to Very High Density Residential (51 to 100 units per acre) in conjunction with a minimum commercial 0.2 Floor Area Ratio. These changes have implications to the Santa Clara Unified School District.

The Project is proposing up to 1,600 residential units in a transit oriented development. The current land use designations for the property have less residential and more commercial uses planned. This project will eliminate some of the commercial and increase the amount of housing. The proximity to the various forms of public transportation, such as the Caltrain, Capital Corridor, Valley Transportation Authority bus service and the future terminus for the Bay Area Rapid Transit, will attract families who commute to work every day. The combination of these attributes in this Project will affect the District.

The Santa Clara Unified School District (SCUSD) is concerned about the 1,600 residential units proposed in the Project. Although the current student generation rates do not anticipate many students from this development the student generation rates are the impacts to the increased student population and facilities at Scott Lane Elementary, Buchser Middle, Santa Clara High Schools and the cumulative impact of all previously approved surrounding developments. Scott Lane and Santa Clara High schools are already over capacity and cannot absorb the students coming from approved future developments. In order to accommodate growth within the District, the SCUSD is planning and constructing a new elementary, middle and high school in north San Jose (Agnews). When the three schools open, the elementary and middle school will be close to capacity. Even with the Measure H 2014 Bond funds approved by the voters and the Statutory Developer Impact Fees, the District will not have enough funds to build all of the facilities required for the comprehensive educational experience the

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SCUSD strives to provide all of the students, much less modernize the existing schools, such as Scott Lane, to meet current educational needs.

Gateway Crossings is not the only residential development planned for Santa Clara. With the myriad of proposed developments within the District to be constructed, the District's Enrollment Projection Consultant's report, dated January 3, 2018, states the need for an additional elementary school north of 101 after the new construction at the Agnews property is completed. Therefore, the District will need funds to purchase property, design and construct additional schools and modernize existing schools.

In order for the District to be able to meet the current facility requirements for all subjects including art, science, physical education, and music and accommodate all students within the District, the District requests a Voluntary Community Benefit Payment from developers. All state and local jurisdictions affected from the Project will collect 100% or more of the calculated impact of the project, except the District. School districts are at a disadvantage when collecting funds for capital improvements, since districts are restricted to charging a set amount per square foot of a new development. The Statutory Developer Impact Fee mandated by SB 50 for residential construction is currently \$3.79 per square foot and the industrial and commercial construction is currently \$0.61 per square foot. These Statutory fees do not adequately cover the land purchase, design, and construction cost incurred by the SCUSD for new or expanded school facilities.

The SCUSD's Residential Development School Fee Justification Study (RS), dated March 12, 2018, calculates the actual school facilities cost impact per residential square foot for multi-family attached homes to be \$28.89 per square foot. This is a deficit of \$25.10 for multi-family new residential per square foot constructed.

The Commercial/Industrial Development School Fee Justification Study (CID), dated March 12, 2018, calculates the actual net school facilities cost impact of new construction retail to be \$2.90 per square foot. This is a deficit of \$2.29 per square foot of retail constructed. The CID calculates the actual net impact of office space is \$4.59 per square foot, which is a deficit of \$3.98 per square foot. Therefore, the Santa Clara Unified School District is requesting developers provide for full mitigation of their impact through a combination of a voluntary community payment and the statutory development fee equal to the calculated impact in the SCUSD CID Study.

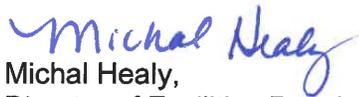
The students living in the Project must have a safe route on which to walk and/or ride their bike to school. Currently the students are slated to attend Scott Lane for elementary school, Buchser Middle and Santa Clara High. All of these schools are across high speed roadways. The District requests the EIR to study the opportunities for a safe and secure pathway for students and community members to walk and/or bike between the Project and all three of the schools the students will attend. We request the Project to conduct or fully fund a Study to create a Safe Routes to Schools map showing the safest route for the students to walk and/or bike to each of the schools. In addition, the Project will implement all recommendations of the Study for capital

improvements along the pathways determined, such as safety enhancements to pedestrian crosswalks, designated bike lanes or additional traffic signals.

We also request the Project to fully fund the Safe Routes to Schools curriculum for grades K-8 for the elementary and middle school students for 5 years. Student safety is of paramount concern to the District and the Project must be proactive in mitigating any hazards that may affect the students.

The combination of constantly increasing construction costs combined with lack of existing capacity in District schools, make it imperative the District continually plan for and collect adequate funding for school construction. The District will not support the Project unless full mitigation of the Project's impacts through a combination of voluntary community payments, the current Statutory Development Impact fees and creating and mapping a pathway for students to safely travel to school. The community benefit payment will allow the District to continue to house the additional students generated by this and other projects Districtwide and modernize existing classrooms and campuses. The City, District, and Developers must work together to create the best community for all residents.

Sincerely,



Michal Healy,
Director of Facilities Development and Planning

cc: Stanley Rose; srose@scusd.net
Mark Allgire; mallgire@scusd.net



May 25, 2018

City of Santa Clara
Department of Planning
1500 Warburton Avenue
Santa Clara, CA 95050

Attention: Debby Fernandez

Subject: City File No. PLN2016-12318 / Gateway Crossings

Dear Ms. Fernandez:

Santa Clara Valley Transportation Authority (VTA) staff have reviewed the Draft EIR (DEIR) for up to 1,600 residential units, 182,000 square foot hotel; and 15,000 square feet of retail uses on 24 acres at the southwest corner of Coleman Avenue and Brokaw Road. We have the following comments.

Project Location and Land Use/Transportation Integration

VTA supports the proposed land use intensification, located near the Santa Clara Station and the center of the Santa Clara Station Focus Area as part of the City's General Plan. Santa Clara Station provides local service for two of VTA's busiest routes, 522 Blue (Rapid) and Route 22. The station also provides regional transportation options with service by Capitol Corridor, Caltrain and Altamont Corridor Express (ACE), and planned VTA BART Silicon Valley Phase II Extension. Additionally, per VTA's Board adopted Next Network FY 2018-2019 Transit Service Plan, the Coleman Avenue frontage will be served by VTA Frequent Route 60.

VTA's BART Silicon Valley Phase II Extension Project will bring BART to Santa Clara adjacent to the Gateway Crossings project. The Santa Clara station is anticipated to have 7,871 riders in 2035. About 34% of the riders are anticipated to walk or bike to the station, 30% are anticipated to take the bus, 7% are anticipated to take rail, and 20% are anticipated to drive. As such, it is important to have clear access/pathways between the Gateway Crossings and the Santa Clara station.

Project Integration with Coleman Highline, San Jose

VTA noted in previous comments provided on March 23, 2017, that the Gateway Crossings' internal street network has limited relationship and connectivity to the surrounding context of existing streets. VTA is aware that the neighboring project immediately to the east of the site is the Coleman Highline in the City of San Jose by the same developer. VTA recommends a holistic review of both projects by both Cities in order to ensure a single network of streets and pathways that is seamless, convenient, and direct for all modes of travel. Given the proximity of

both project sites to the Santa Clara Station, VTA strongly recommends maximizing multimodal access to the station in order to support transit ridership.

VTA is currently undertaking the BART Phase II TOD Corridor Strategy and Access Planning Study, with the participation of City staff and other stakeholders from the cities of San Jose and Santa Clara, in order to inform and maximize multimodal access planning at Santa Clara Station and other BART Phase II stations, with a final report available in the spring of 2019.

VTA recommends that the Gateway Crossings project's streets, Champion Parkway and Planned Champions Way and the Coleman Highline project's streets, Future Champions Way and Future Champions Drive, seamlessly connect with on a single grid. Future Champions Way/Champions Drive should be designed as an east-west 'Complete Street' since it will provide a primary connection to the Santa Clara Station. Other potential cross-border connectivity opportunities include an east-west pedestrian-bicycle connection parallel to and approximately 250 feet north of Future Champions Way/Champions Drive.

VTA recommends that all street and pathway network changes are clearly reflected in the Gateway Crossing's approval plans and documents, and memorialized across borders. All appropriate cooperative measures should be taken by both Cities to ensure such seamless connectivity.

Pedestrian and Bicycle Accommodations

Reiterating the importance of maximizing multimodal access throughout the project site and to the station, VTA recommends that the City work with the Project Developer to provide exceptional pedestrian accommodations on all project frontages, including wide buffered sidewalks with street trees between pedestrians and automobiles.

VTA recommends conveniently located bicycle parking. Bicycle parking facilities can include bicycle lockers or secure indoor parking for all-day storage and bicycle racks for short-term parking. VTA's Bicycle Technical Guidelines provide guidance for estimating supply, siting and design for bicycle parking facilities. This document may be downloaded from <http://www.vta.org/bikeprogram>.

The Coleman Avenue building frontage, which contains a VTA Frequent Route 60 bus stop, is set back from the street with landscaping between the sidewalk and the building. VTA recommends improving the quality of the pedestrian environment along Coleman Avenue by orienting the buildings toward and closer to the street, and providing transparent active ground floors. Such pedestrian- and transit-supportive measures would encourage greater trips by walking, and improve access to transit.

The TIA notes a "New Site Access along Coleman Avenue" that is separate from the Gateway

Crossings project that will provide access to both projects. This access is the Future Champions Way associated with Coleman Highline. VTA recommends that the Gateway Crossings building frontages on Future Champions Way contain transparent active ground floors with primary building entrances that contribute toward a high-quality pedestrian environment and supports walkability.

VTA notes that Brokaw Road will provide future bus access and kiss-and-ride locations for the planned BART Silicon Valley Santa Clara Station. Therefore, VTA recommends that Brokaw Road be designed as a 'Complete Street' that provides high-quality accommodations that prioritize pedestrian (e.g., detached, wide sidewalks) bicycle (e.g., bicycle lanes), bus and shuttle service access, while still serving motorists.

Freeway Analysis/Impacts

The DEIR identified 21 freeway segment impacts and states that the Project Developer will provide a voluntary contribution toward the VTA US 101 Double Express Lanes project. Other Valley Transportation Plan 2040 regional transportation improvement initiatives within the vicinity include:

1. US 101/ Trimble/ De La Cruz interchange improvements
2. US 101 SB/ SR 87 SB double off-ramp
3. US 101/ Zanker Rd interchange improvements

VTA recommends that the City require the project to contribute toward future project development phases (e.g. environmental clearance, design and/or construction) of the above noted initiatives.

Auto Trip Reduction Statement (ATRS)

VTA notes that the TIA Report did not include an Auto Trip Reduction Statement (ATRS) as required per Section 8.2 and Appendix C of the updated 2014 VTA Transportation Impact Analysis (TIA) Guidelines. VTA notes that the ATRS is intended to highlight project features and efforts that improve the multimodal transportation system and reduce automobile trips, in addition to any formal trip reductions assumed in the TIA analysis. VTA requests that the Final TIA Report include a completed ATRS form. The October 2014 version of the VTA TIA Guidelines can be found online at <http://www.vta.org/cmp/tia-guidelines>. For any questions about the updated TIA Guidelines, please contact Brent Pearse of the VTA Planning and Programming Division at 408-546-7985 or Brent.Pearse@vta.org.

Transportation Analysis

The TIA recommends limiting Driveway 1 to a right-in right-out configuration but is unclear whether and to what extent this will impact the intersection of Coleman/Brokaw. VTA recommends that the TIA address any improvements needed at the Coleman/Brokaw

intersection with the addition of 114 AM peak-hour/320 PM peak-hour vehicles turning left onto Brokaw and 101 AM peak-hour/78 PM peak-hour vehicles turning left onto Coleman.

Intersection Analysis/Impacts

VTA has the following comments on the three CMP Intersections identified in the DEIR/TIA that would be impacted per CMP LOS standards.

1. De La Cruz Boulevard and Central Expressway
The proposed mitigation measure identifies the conversion of HOV to mixed-flow lanes on Central, and the second mitigation should be updated to the VTA US 101 Trimble/ De La Cruz interchange improvements project for a fair-share contribution. Please consult with the County of Santa Clara and VTA regarding this proposed mitigation.
2. Lafayette Street and Central Expressway
The proposed mitigation measure for conversion of HOV to mixed-flow lanes on Central Expressway should be enhanced to include the addition of bike lane striping. Please consult with the County of Santa Clara regarding this proposed mitigation.
3. Coleman Avenue and I-880 (S)
Please consult with the City of San Jose regarding the proposed mitigation measure for the widening of Coleman Avenue.

After all feasible mitigation measures are applied, the above noted CMP Intersections may remain Significant and Unavoidable Impacts. VTA requests that the City prepare a Multimodal Improvement Plan to address the Project's impacts on CMP transportation facilities. The California CMP statute requires Member Agencies to prepare Multimodal Improvement Plans for CMP facilities located within their jurisdictions that exceed, or are expected to exceed, the CMP traffic.

The preparation of a Multimodal Improvement Plan is an opportunity to implement multimodal (non-automotive) transportation improvements as offsetting measures, when mitigations to meet the LOS standard are either infeasible or undesirable. The Multimodal Improvement Plan contains a list of actions to help offset the vehicular LOS impacts, and an implementation plan with specific responsibilities and a schedule. These off-setting improvements can include improvements to transit, bicycle, and/or pedestrian facilities, as well as Transportation Demand Management (TDM) Programs. VTA can assist the City in identifying off-setting improvements and alternatives to physical improvements at CMP intersections in the City of Santa Clara. For further information on Multimodal Improvement Plans (previously "Deficiency Plans"), please see VTA's Deficiency Plan Requirements located online at: <http://www.vta.org/cmp/technical-guidelines>.

Continued Coordination with BART Silicon Valley Extension

As noted above, the proposed development site is adjacent to the planned location of VTA's BART Silicon Valley Extension's Santa Clara Station and Newhall Yard. Information about the

station and yard planned configuration and associated access and activities can be found in the *BART Silicon Valley Phase II Extension Supplemental Environmental Impact Report/Subsequent Environmental Impact Statement*, which can be accessed at www.vta.org/bart/environmentalphaseII. VTA encourages ongoing coordination between the project applicant, City of Santa Clara and VTA.

Transportation Demand Management/Trip Reduction

Given the size of the project and limited roadway access to and from the project area, the project should include a robust Transportation Demand Management (TDM) Program to reduce auto trips, vehicle miles traveled and greenhouse gas emissions. Such measures will be critical in order to facilitate efficient transportation access to and from the site and reduce transportation impacts associated with the project. VTA supports City of Santa Clara Focus Area policy 5.4.2-P11 to reduce parking ratios and promote alternate use of transportation in the surrounding area. VTA recommends that the City consider the following TDM/Trip Reduction strategies:

- Project design to encourage walking, bicycling, and convenient transit access;
- Parking cash out/parking pricing;
- Adoption of an aggressive trip reduction target with a Lead Agency monitoring and enforcement program;
- Transit fare incentives such as such as free or discounted transit passes on a continuing basis;
- First mile/last mile ride sharing voucher
- Public-private partnerships or employer contributions to provide improved transit or shuttle service in the project area.
- Bicycle lockers and bicycle racks
- Showers and clothes lockers for bicycle commuters
- Parking for car-sharing vehicles
- Reduced parking ratios

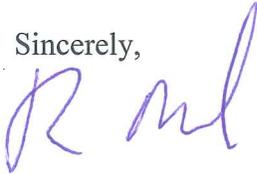
Parking

VTA also recommends that the Cities of San Jose and Santa Clara, and VTA work toward a shared parking strategy for the pending developments and the Santa Clara Station that is balanced, while at the same time stays focused on pedestrian, bicycle, and transit modes as the primary access to the Santa Clara Station area

City of Santa Clara
May 25, 2018
Page 6

Thank you for the opportunity to review this project. If you have any questions, please call me at (408) 321-5784.

Sincerely,



Roy Molseed
Senior Environmental Planner

cc: Nizar, Slim, City of San Jose
Patricia Maurice, Caltrans
Brian Ashurst, Caltrans

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Via Email and Overnight Mail

May 24, 2018

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Reena Brilliot, Planning Manager
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**Re: Gateway Crossings Project, SCH2017022066, PLN2016-12318,
PLN2016-12321, PLN2016-12481, and CEQ2016- 01025**

Dear Ms. Fernandez, and Ms. Brilliot:

I am writing on behalf of the Laborers International Union of North America, Local Union 270 and its members living in Santa Clara County and/or the City of Santa Clara ("LiUNA"), regarding the Gateway Crossings Project, aka SCH2017022066, PLN2016-12318, PLN2016-12321, PLN2016-12481, and CEQ2016-01025, including all actions related or referring to the proposed construction of a phased mixed-use development, to include up to 1,600 residential units, 182,000 square foot hotel, 15,000 square feet of ancillary retail, and parking at 1205 Coleman Avenue on APNs: 230-46-069 and 230-46-070 in the City of Santa Clara. ("Project").

We have reviewed the Draft Environmental Impact Report ("DEIR") for the Project and conclude that the document fails to comply with the California Environmental Quality Act ("CEQA"). We reserve the right to supplement these comments at later hearings on the DEIR and Final EIR. Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Richard Drury", is written over the typed name. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Richard Drury

ADAMS BROADWELL JOSEPH & CARDOZO

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May 25, 2018

Via Email and Overnight Mail

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Re: Comments on the Draft Environmental Impact Report – Gateway Crossings Project

Dear Ms. Fernandez:

On behalf of Santa Clara County Residents for Responsible Development we submit these comments on the City of Santa Clara's ("City") Draft Environmental Impact Report ("DEIR") prepared pursuant to the California Environmental Quality Act ("CEQA")¹ and its implementing Guidelines,² for the Gateway Crossings Project ("Project") proposed by Hunter Storm Properties ("Applicant"). The project proposes to build on a 23.8-acre site up to 1,600 residential units, an 182,000 square foot full service hotel, 15,000 square feet of ancillary retail, surface and structured parking, public and private streets, a neighborhood park and open space, and new infrastructure and utilities. The Project site is located on 1205 Coleman Avenue, at the southwest corner of Coleman Avenue and Brokaw Road. (APN Nos. 230-46-069 and 230-46-070).

The DEIR states that the Project requires the following discretionary actions of the City: (1) General Plan Amendment (GPA) to change the land use designation on the site to Very High Density Residential; (2) An amendment to the General Plan Land Use Map for the Santa Clara Station Focus Area to reflect the General Plan change; (3) An amendment to Appendix 8.13 to the General Plan (the Climate Action Plan) to establish a 20 percent reduction in Vehicle Miles Traveled (VMT), half of which (a 10 percent reduction) would be achieved with a Transportation

¹ Pub. Resources Code (hereinafter "PRC") §§ 21000 *et seq.*

² 14 Cal.Code Regs. (hereinafter "CCR") § 15000 *et seq.*
4271-003acp

Demand Management (TDM) program; (4) Zoning Code text amendment to add a new zoning designation of Very High Density Mixed Use to facilitate the development of the land uses and building types contemplated for the Project site; (5) Rezoning of the Project site to the new zoning designation; (6) Vesting Tentative Parcel Map and (7) Development Agreement.

Based on our review of the DEIR, appendices and other relevant records, we conclude that the DEIR fails to meet the requirements of CEQA. First, the DEIR fails to properly disclose, analyze and mitigate impacts on air quality and public health. Second, the DEIR conclusion that impacts from air quality and public health are less than significant (some with and others without mitigation) is not supported by substantial evidence. Third, substantial evidence shows that the Project's impacts on air quality and public health will be significant. Fourth, the DEIR conclusion that impacts from GHG are significant and unavoidable is not supported by substantial evidence. Fourth, the DEIR fails to properly disclose, analyze and mitigate the Project's transportation and traffic impacts. Fifth, the Project does not comply with the General Plan Policies regarding affordable housing.

We prepared these comments with the assistance of air quality expert Hadley Nolan and hazardous materials expert Matt Hagemann, P.G., C.Hg. of Soil / Water / Air Protection Enterprise ("SWAPE"), and with the assistance of traffic and transportation expert Dan Smith of Smith Engineering & Management. SWAPE's and Mr. Smith's comments and curriculum vitae are attached hereto as Exhibit A and Exhibit B, respectively, and are fully incorporated herein and submitted to the City herewith. Therefore, the City must separately respond to the technical comments of SWAPE and Mr. Smith in addition to our comments.

We urge the City to reject the DEIR and direct staff to prepare and recirculate a revised Draft EIR that properly analyzes, addresses and mitigates the Project's potentially significant impacts, as required by CEQA.

I. STATEMENT OF INTEREST

Santa Clara Residents is an unincorporated association of individuals and labor organizations that may be adversely affected by the potential public and worker health and safety standards and environmental impacts associated with Project development. Santa Clara Residents includes the International Brotherhood

of Electrical Workers Local 332, Plumbers & Steamfitters Local 393, Sheet Metal Workers Local 104, Sprinkler Fitters Local 483, and their members and families, and other individuals that live and/or work in the City of Santa Clara and Santa Clara County.

Individual members of Santa Clara Residents and the affiliated labor organizations live, work, recreate and raise their families in the City of Santa Clara and Santa Clara County. They would be directly affected by the Project's environmental and health and safety impacts. Individual members may also work on the Project itself. Accordingly, they will be first in line to be exposed to any health and safety hazards that exist onsite. Santa Clara Residents have a strong interest in enforcing the State's environmental laws that encourage sustainable development and ensure a safe working environment for its members. Environmentally detrimental projects can jeopardize future jobs by making it more difficult and more expensive for business and industry to expand in the region, and by making it less desirable for businesses to locate and people to live there.

II. THE PROJECT FAILS TO COMPLY WITH THE GENERAL PLAN POLICIES

According to the DEIR, the project requires amending the General Plan to accommodate 122-322 more residential units than allowed under the City's General Plan, and to "redefine the land use boundaries and densities within the site."³ The DEIR, however, almost completely ignores the General Plan policies regarding affordable housing.

The "Residential Land Use Goals" of the City's General Plan include several goals relating to affordable housing, including the following goals:

5.3.2-G1 Equitable housing opportunities within the community for persons of all economic levels, regardless of religion, gender, sexual orientation, marital status, national origin, ancestry, familial status, race, color, age, source of income or mental or physical disability.

5.3.2-G2 A variety of housing types, sizes, location and tenure in order to maintain social and economic diversity in the City.

³ Gateway Crossings DEIR, April 2018, p. 115.
4271-003acp

5.3.2-G3 Affordable housing units dispersed throughout the City to avoid a concentration in any one neighborhood.”⁴

The “Residential Land Use Policies” of the General Plan also call for more affordable housing, with a special emphasize on citing affordable housing near transit:

“5.3.2-P1 Encourage the annual construction of the housing units necessary to meet the City’s regional housing needs assessment by reducing constraints to housing finance and development.

5.3.2-P6 Provide adequate choices for housing tenure, type and location, including higher density, and affordability for low- and moderate-income and special needs households.

5.3.2-P9 Encourage senior and group residential facilities, and affordable housing developments near neighborhood retail, support services and transit facilities.

5.3.2-P10 Create opportunities for affordable housing and housing to support special needs populations, including Extremely Low Income households.”⁵

Despite these extensive and clear policies, the DEIR only mentions policies 5.3.2-P1 and 5.3.2-P6 in its discussion of land use and planning for the Project.⁶

In addition to the General Plan Residential Land Use Goals and Residential Land Use Policies, the General Plan policies for the Santa Clara Station Focus Area, in which the Project is located, specifically calls for the development of affordable housing within the Focus Area.

“5.4.3-P20 Highly encourage the development of affordable housing and senior housing that is well designed and compatible with adjacent uses in the Santa Clara Station Focus Area.”⁷

⁴ City of Santa Clara 2010-2035 General Plan, Chapter 5 – Goals and Policies, pp. 20.

⁵ City of Santa Clara 2010-2035 General Plan, Chapter 5 – Goals and Policies, pp. 21.

⁶ Gateway Crossings DEIR, April 2018, p. 110.

⁷ City of Santa Clara 2010-2035 General Plan, Chapter 5 – Goals and Policies, pp. 38

However, the DEIR *fails* to include this Focus Area policy anywhere in its discussion of land use policies relevant to the Project site at 1205 Coleman Avenue:

According to the California Department of Housing and Community Development, the City has made “insufficient progress” toward its Lower Income Regional Housing Needs Allocation (RHNA), which includes housing for very low and low income.⁸ Under these circumstances, the City lacks any basis for ignoring its own affordable housing policies, despite adding a significant number of units beyond what is allowed under the General Plan.

To be clear, the Project does not include *any* affordable housing units, in complete disregard of the applicable General Plan policies. Although in section 7.0 of the DEIR, the City discusses a “Reduced Development Alternative” and states that “[i]t is possible the Reduced Development Alternative could meet City objectives 2 and 4 of providing sustainable residential mixed-use development with affordable housing,”⁹ the City also fails to explain why the Reduced Development Alternative would comply with the General Plan’s affordable housing goals and policies.

The Project, therefore, does not comply with the General Plan Goals and Policies and the City lacks evidence to support any conclusion otherwise. The City must revise and recirculate an EIR that properly discusses the City’s land use goals and policies, including those regarding affordable housing.

III. THE DEIR FAILS TO ADEQUATELY DISCLOSE, ANALYZE, AND MITIGATE SIGNIFICANT IMPACTS ON AIR QUALITY AND GHG

A. Legal Background

CEQA requires that an agency analyze the potential environmental impacts of its proposed actions in an environmental impact report (“EIR”) (except in certain limited circumstances).¹⁰ The EIR is the very heart of CEQA.¹¹ “The foremost principle in interpreting CEQA is that the Legislature intended the act to be read so

⁸ Department of Housing and Community Development, SB 35 Statewide Determination Summary, January 31, 2018, at p. 7.

⁹ Gateway Crossings DEIR, April 2018, p. 227.

¹⁰ See, e.g., PRC § 21100.

¹¹ *Dunn-Edwards v. BAAQMD* (1992) 9 Cal.App.4th 644, 652.
4271-003acp

as to afford the fullest possible protection to the environment within the reasonable scope of the statutory language.”¹²

CEQA has two primary purposes. First, CEQA is designed to inform decision makers and the public about the potential, significant environmental effects of a project.¹³ “Its purpose is to inform the public and its responsible officials of the environmental consequences of their decisions before they are made. Thus, the EIR “protects not only the environment but also informed self-government.”¹⁴ The EIR has been described as “an environmental ‘alarm bell’ whose purpose it is to alert the public and its responsible officials to environmental changes before they have reached ecological points of no return.”¹⁵

Second, CEQA requires public agencies to avoid or reduce environmental damage when “feasible” by requiring “environmentally superior” alternatives and all feasible mitigation measures.¹⁶ The EIR serves to provide agencies and the public with information about the environmental impacts of a proposed project and to “identify ways that environmental damage can be avoided or significantly reduced.”¹⁷ If the project will have a significant effect on the environment, the agency may approve the project only if it finds that it has “eliminated or substantially lessened all significant effects on the environment where feasible” and that any unavoidable significant effects on the environment are “acceptable due to overriding concerns.”¹⁸

While the courts review an EIR using an “abuse of discretion” standard, “the reviewing court is not to ‘uncritically rely on every study or analysis presented by a project proponent in support of its position. *A clearly inadequate or unsupported study is entitled to no judicial deference.*”¹⁹ As the courts have explained, “a prejudicial abuse of discretion occurs “if the failure to include relevant information

¹² *Comtys. for a Better Env’ v. Cal. Res. Agency* (2002) 103 Cal. App.4th 98, 109 (“*CBE v. CRA*”).

¹³ 14 CCR § 15002(a)(1).

¹⁴ *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal. 3d 553, 564.

¹⁵ *Berkeley Keep Jets Over the Bay v. Bd. of Port Comm’rs.* (2001) 91 Cal. App. 4th 1344, 1354 (“*Berkeley Jets*”); *County of Inyo v. Yorty* (1973) 32 Cal.App.3d 795, 810.

¹⁶ 14 CCR§ 15002(a)(2) and (3); see also *Berkeley Jets*, 91 Cal.App.4th at 1354; *Citizens of Goleta Valley*, 52 Cal.3d at 564.

¹⁷ 14 CCR §15002(a)(2).

¹⁸ PRC § 21081; 14 CCR § 15092(b)(2)(A) & (B).

¹⁹ *Berkeley Jets*, 91 Cal. App. 4th 1344, 1355 (emphasis added), quoting, *Laurel Heights Improvement Assn. v. Regents of University of California* (1988) 47 Cal.3d 376, 391 409, fn. 12.

precludes informed decisionmaking and informed public participation, thereby thwarting the statutory goals of the EIR process.”²⁰

B. The City Lacks Substantial Evidence to Support its Conclusions regarding Impacts on Air Quality. Substantial Evidence shows the Project May Result in Potentially Significant, Unmitigated Impacts on Air Quality

In the Air Quality section of the DEIR, the City is required to disclose, analyze and propose mitigation to reduce the Project’s construction and operation emissions of pollutants to less than significant levels. However, as shown by SWAPE²¹ and explained below, the DEIR analysis and conclusion are flawed, because they rely on unsubstantiated input parameters, do not properly account for the Project’s trip generation and fail to account for overlap in construction and operational emissions. As a result, the DEIR conclusions regarding the Project’s impacts on air quality are not supported by substantial evidence. Moreover, SWAPE performed an updated operational emissions analysis, based on the Project’s actual data and agency accepted methods for air quality evaluation, and found that the Project’s ROG and NOx emissions exceed the significance threshold set forth by the Bay Area Air Quality Management (BAAQMD) for mixed-use projects.

1. The DEIR’s Air Quality Analysis Fails to Include All Land Uses and Underestimates Land Use Sizes

SWAPE’s review of the DEIR’s CalEEMod output files for Option 2 (the preferred option) demonstrates that incorrect land use sizes were used to estimate emissions. As a result, the construction and operational emissions are underestimated:

- The DEIR’s emission model only accounted for 225 hotel rooms, even though the Project proposes 250 rooms;

²⁰ *Berkeley Jets*, 91 Cal.App.4th at 1355; *San Joaquin Raptor/Wildlife Rescue Center v. County of Stanislaus* (1994) 27 Cal.App.4th 713, 722; *Galante Vineyards v. Monterey Peninsula Water Management Dist.* (1997) 60 Cal.App.4th 1109, 1117; *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 946.

²¹ Exhibit A: SWAPE comments.
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- The DEIR's emission model only accounted for 1,581 residential units, even though the Project proposes 1,600 units; and
- The DEIR's emission model completely omitted the 10,000 square foot restaurant use proposed in the Project.

As a result of the DEIR analysis failing to evaluate emissions from the actual proposed Project, SWAPE concludes that "the construction and operational emissions associated with the Project are incorrect and should not be relied upon to estimate emissions."²² Indeed, the DEIR's analysis lacks substantial evidence to support its conclusion regarding air quality impacts.

2. The DEIR Uses Incorrect Trip Purpose Percentage

SWAPE's review found that the DEIR's analysis of the Project's operational emissions improperly double-counts the number of pass-by trips expected to occur throughout Project operation. As a result, the Project's operational emissions are underestimated.

There are three types of trips generated by the Project: primary trips, diverted trips and pass-by trips. Pass-by trips are assumed to be very short – 0.1 miles in length and are a result of no diversion from the primary route. The other two types of trips generated by the Project, primary and diverted trips, are longer and, as a result, create a more significant impact on air quality.

SWAPE found that although pass-by trips for the retail land use were already accounted for in the TIA's Traffic Generation calculation, the trip purpose percentage was divided amongst primary, diverted, and pass-by trip types for the Project's proposed retail land uses.

As explained by SWAPE: "By spreading the trip purpose percentages amongst the three categories, the model is accounting for pass-by trips that have already been accounted for in the TIA. Because the proposed Project's CalEEMod model incorrectly allocates the Project's operational trips to the various categories of trip purposes, the emissions associated with these trips are underestimated, and as a result, the Project's operational emissions are underestimated. An updated

²² Exhibit A: SWAPE comments, p. 2-4.
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CalEEMod model must be prepared in an updated DEIR in order to accurately estimate the Project's operational emissions."²³

Therefore, the DEIR's analysis lacks substantial evidence to support its conclusion regarding the Project's operational air quality impacts.

3. The DEIR Fails to Account for Overlap in Construction and Operational Emissions

According to the DEIR, Project construction is expected to occur in five phases, with each phase expected to be operational once construction is complete.²⁴ Thus, SWAPE explain, "when construction of Phase 5 begins, the previous four phases will be in operation. Due to these overlaps, the DEIR should have evaluated the Project's air quality impact assuming that construction of Phase 2 through Phase 5 and operation of the previous phase or phases would occur concurrently. Review of the DEIR, however, demonstrates that no such analysis was conducted, leaving a gap in the DEIR's evaluation of the Project's potential impacts."²⁵ As a result, the DEIR's analysis fails to evaluate the Project's potentially significant air quality impacts.

4. Substantial Evidence Shows the Project May Result in Potentially Significant, Unmitigated Impacts on Air Quality

In light of the lack of substantial evidence to support the DEIR conclusion regarding impacts from operation emissions, and to more accurately estimate the actual Project emissions, SWAPE prepared an updated CalEEMod model. SWAPE's updated CalEEMod Model includes site-specific information and correct input parameters and takes into account the overlap in the Project's operations and construction. SWAPE's revised analysis using Project-specific data shows that the Project's operational ROG and NOx emissions increase significantly when compared to the DEIR's CalEEMod model emission estimates for full Project build out. Furthermore, SWAPE found that ROG and NOx emissions exceed ROG and NOx significance thresholds established by the BAAQMD. SWAPE concludes that an

²³ Exhibit A: SWAPE comments, p. 5-6.

²⁴ Gateway Crossings DEIR, April 2018, Appendix B, p. 10.

²⁵ Exhibit A: SWAPE comments, p. 7.

updated DEIR should be prepared that includes an updated air pollution model to adequately estimate the Project's emissions, and additional mitigation measures should be identified and incorporated to reduce these emissions to a less-than-significant level.²⁶ Feasible mitigation measures are discussed below.

Consequently, substantial evidence shows that the Project will result in potentially significant, unanalyzed and unmitigated air quality impacts.

C. The DEIR Failed to Adequately Disclose, Analyze and Mitigate the Project's Significant Cancer Risk from Construction and Operational Emissions

1. The City Lacks Substantial Evidence to Support Its Conclusion that the Project Would Result in Less Than Significant Public Health Impacts

The DEIR fails to include a health risk analysis ("HRA") to disclose the adverse health impacts that will be caused by exposure to toxic air contaminants ("TACs") from the Project's construction and operational emissions. As a result, the DEIR fails to disclose the Project's potentially significant cancer risk posed to nearby residents and children from TACs, and fails to mitigate it. Because the DEIR fails to support its conclusion that the Project will not have significant health impacts from diesel particulate matter ("DPM") emissions with the necessary analysis, this finding is not supported by substantial evidence.

The DEIR attempts to justify the omission of a construction health risk assessment by stating that "[a] review of the project area did not reveal any sensitive receptors within 1,000 feet of the project site. For this reason, project construction activities would not result in significant health risk impacts to off-site sensitive receptors."²⁷ With regard to the lack of an HRA for operational emissions, the DEIR similarly argues that "[t]here are no sensitive receptors within 1,000 feet of the project site. For this reason, the project emergency backup generator under either option would not have a significant health risk to off-site sensitive receptors due to generator testing."²⁸

²⁶ Exhibit A: SWAPE comments, p. 6.

²⁷ Gateway Crossings DEIR, April 2018, p. 49.

²⁸ Gateway Crossings DEIR, April 2018, p. 50.

As SWAPE explains, the 1,000 radius is not the only factor an agency should use in deciding whether to perform an HRA, and the DEIR justifications are incorrect for several reasons.

First, while BAAQMD guidelines recommend performing an HRA for receptors within 1,000 feet of the project, “the BAAQMD has also established the Community Air Risk Evaluation (CARE) Program, which identifies communities that experience higher levels of air pollution than others. According to BAAQMD guidelines, “the goal of the Community Risk Reduction Plan is to encourage local jurisdictions to take a proactive approach to reduce the overall exposure to TAC and PM2.5 emissions and concentrations from new and existing sources”.²⁹ The Project will be located in one of these communities and, according to the DEIR itself, emissions generated during Project activities has the potential to affect sensitive receptors near the Project site.”³⁰

Moreover, SWAPE explains, “according to the BAAQMD’s ‘CEQA Air Quality Guidelines,’ the recommended 1,000-foot radius can be enlarged on a case-by-case basis. Since the nearest sensitive receptor is located only 347 meters away from the Project site, and because the Project is located within a CARE community, this receptor will be impacted by the emissions generated by the Project over the 6 to 8 year construction period and throughout operation.”³¹ Since there are sensitive receptors located in close proximity to the Project site that will be impacted, the City must evaluate the proposed Project’s health risk impact to those sensitive receptors.

Second, SWAPE explains that according to BAAQMD, “the thresholds for local risks and hazards from TAC and PM2.5 are intended to apply to all sources of emissions, including both permitted stationary sources and on- and off-road mobile sources, such as sources related to construction, busy roadways, or freight movements.”³² Therefore, an individual project would be considered significant if the total project’s TAC emissions, including exhaust from construction equipment, heavy duty diesel trucks, and diesel-powered generators, would result in an

²⁹ Exhibit A: SWAPE comments, p. 9-10, FN omitted.

³⁰ Exhibit A: SWAPE comments, p. 9-10.

³¹ Exhibit A: SWAPE comments, p. 9-10, FN omitted.

³² “CEQA Guidelines.” Bay Area Air Quality Management District, May 2017. Available at: http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en, p. D-34

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increased cancer risk greater than 10 in one million, or would result in an increased ambient air PM_{2.5} concentration greater than 0.3 µg/m³. However, because the DEIR *failed* to evaluate whether or not these emission sources would result in such increases, the public and decisionmakers have no way of knowing the magnitude of the Project's impact on the health of nearby residents. Furthermore, BAAQMD's CEQA guidance states that "carcinogens are assumed to have no safe threshold below which health impacts would not occur."³³ Thus, the City must conduct a proper analysis in order to disclose the full extent of the potential impacts that the Project would have on the surrounding community.³⁴

Finally, SWAPE explains that failing to conduct a proper HRA conflicts with the most recent guidance published by the Office of Environmental Health Hazard Assessment (OEHHA), the organization responsible for providing recommendations and guidance on how to conduct health risk assessments in California. OEHHA recommends that all short-term projects lasting at least two months be evaluated for cancer risks to nearby sensitive receptors, and that exposure from projects lasting more than 6 months should be evaluated for the duration of the project. Therefore, per OEHHA guidelines, health risk impacts from Project construction and operation should have been evaluated by the DEIR. These recommendations reflect the most recent HRA policy, and as such, an assessment of health risks to nearby sensitive receptors from construction and operation should be included in a revised CEQA evaluation for the Project.³⁵

In sum, the City lacks substantial evidence to support its conclusion that the Project would result in less than significant public health impacts.

³³ "California Environmental Quality Act Air Quality Guidelines." Bay Area Air Quality Management District, May 2017. Available at: http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en, p. C-21

³⁴ Exhibit A: SWAPE comments, p. 10.

³⁵ Exhibit A: SWAPE comments, p. 10-11.

2. The Project Will Result in a Significant, Undisclosed and Unmitigated Lifetime Cancer Risk from Exposure to Contaminants Generated by Project Construction and Operation

In order to demonstrate the potential risk posed by the Project's construction and operation to nearby sensitive receptors, SWAPE performed a screening level health risk assessment of the Project's DPM emissions using the AERSCREEN model.³⁶ AERSCREEN is recommended by OEHHA and the California Air Pollution Control Officers Associated (CAPCOA) guidance as the appropriate air dispersion model for Level 2 health risk screening assessments ("HRSAs").³⁷ SWAPE evaluated the Project's construction and operational impacts to sensitive receptors using the annual PM₁₀ exhaust estimates from the DEIR's CalEEMod models and the SWAPE's CalEEMod model for full Project operation.

SWAPE found the closest sensitive receptor is approximately 347 meters away from the Project site. SWAPE relied on information in the DEIR that construction of the Project would occur over five phases over the course of 6 to 8 years, and each phase of the project will become operational once constructed and therefore construction and operation of the Project will overlap. Consistent with recommendations set forth by OEHHA, SWAPE used a residential exposure duration of 30 years, starting from the infantile stage of life.³⁸ SWAPE's model and exposure assumptions are detailed in their letter.³⁹

SWAPE's analysis found that unmitigated DPM emissions released during Project construction and operation would result in an excess cancer risk beyond BAAQMD's significance threshold. The excess cancer risk to adults, children, and infants at the MEIR located approximately 350 meters away, over the course of Project construction and operation are approximately 8, 50, and 49 in one million, respectively. Furthermore, the excess cancer risk over the course of a residential lifetime (30 years) at the MEIR is approximately 107 in one million.⁴⁰ This risk is above the BAAQMD significance threshold for cancer of ten in one million, and is

³⁶ Exhibit A: SWAPE comments, p. 11.

³⁷ Exhibit A: SWAPE comments, p. 11-12.

³⁸ Exhibit A: SWAPE comments, p. 12.

³⁹ Exhibit A: SWAPE comments, p. 11-15.

⁴⁰ Exhibit A: SWAPE comments, p. 15.

therefore a significant impact requiring mitigation.⁴¹ As noted by SWAPE, a screening-level HRA is known to be more conservative, and is aimed at health protection, but its purpose is to determine if a more refined HRA needs to be conducted. Here, a more refined HRA should be prepared by the City to properly analyze the Project's significant impacts.

Therefore, the DEIR fails to analyze the Project's significant, unmitigated impact the public health from exposure to contaminants generated by the Project.

C. The DEIR Must Require Feasible and Available Mitigation Measures to Reduce Construction Emissions

SWAPE's analysis demonstrates that the Project's construction-related DPM emissions may present a potentially significant impact. Therefore, additional mitigation measures must be identified and incorporated in a revised DEIR to reduce these emissions to a less than significant level.

SWAPE proposes that the Project employ additional measures which are found in CAPCOA's "*Quantifying Greenhouse Gas Mitigation Measures*" and can be used to reduce both GHG levels and criteria air pollutants, such as particulate matter.⁴² In addition, SWAPE proposes various mitigation measures recommended by The Northeast Diesel Collaborative ("NEDC") to reduce diesel emissions and protect public health. These measures include implementation of diesel control measures; repowering or replacing older construction equipment engines; installing retrofit devices on existing construction equipment and implementing a construction vehicle inventory tracking system.⁴³

In addition to these measures, SWAPE recommends that the Applicant implement mitigation measures called "Enhanced Exhaust Control Practices" that are recommended by the Sacramento Metropolitan Air Quality Management District (SMAQMD) and include a detailed plan, submitted by the applicant, to reduce exhaust emissions from the Project's construction.⁴⁴ SWAPE also proposes

⁴¹ Exhibit A: SWAPE comments, p. 15. See also *Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 960 (EIR must disclose an impact as significant when it exceeds a duly adopted CEQA significance threshold).

⁴² Exhibit A: SWAPE comments, p. 16

⁴³ Exhibit A: SWAPE comments, p. 16-18.

⁴⁴ Exhibit A: SWAPE comments, p 19-20.

additional mitigation measures aimed at reducing operational ROG (also known as VOC) emissions. Such additional mitigation measures include use of zero-VOC emissions paint, using materials that do not require painting and use of spray equipment with greater transfer efficiencies.⁴⁵

As SWAPE explains, “[t]hese measures offer a cost-effective, feasible way to incorporate lower-emitting equipment into the Project’s construction fleet, which subsequently reduces NOx and DPM emissions released during Project construction. An updated DEIR must be prepared to include additional mitigation measures, as well as include an updated air quality assessment to ensure that the necessary mitigation measures are implemented to reduce construction emissions.”⁴⁶ Furthermore, the DEIR must require these measures as mitigation in the DEIR in order to ensure that the Project’s construction-related emissions are reduced to the maximum extent possible.

D. The DEIR Lacks Substantial Evidence to Support A Finding Of Overriding Considerations for Significant and Unavoidable Greenhouse Gas Impacts

The DEIR fails to adopt all feasible mitigation measures to reduce the Project’s significant greenhouse gas (“GHG”) impacts to less than significant levels before declaring the impacts “significant and unavoidable.” This violates CEQA’s requirement that the City mitigate all significant environmental impacts to the greatest extent feasible.

Before it can approve the Project, the City must certify the Project’s Final EIR and make mandatory CEQA findings. Those findings must include (1) that the Final EIR complies with CEQA, (2) that the City has mitigated all significant environmental impacts to the greatest extent feasible, and (3) that any remaining significant environmental impacts are acceptable due to overriding considerations.⁴⁷ Where, as here, the Project will have a significant effect on the environment, the City may not approve the Project unless it finds that it has “eliminated or substantially lessened all significant effects on the environment where feasible” and

⁴⁵ Exhibit A: SWAPE comments, p 20-21.

⁴⁶ Exhibit A: SWAPE comments, p. 20.

⁴⁷ 14 CCR § 15090 & 15091.

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that any unavoidable significant effects on the environment are “acceptable due to overriding concerns.”⁴⁸

The DEIR’s GHG analysis determines that the Project’s GHG emissions would exceed the thresholds set forth by the BAAQMD and proposes several mitigation measures to reduce the Project’s GHG emissions. Even after implementation of mitigation, the DEIR concludes that Option 1 of the Project would result in a significant and unavoidable impact with respect to GHG emissions.⁴⁹

However, SWAPE reviewed the Project’s proposed GHG mitigation measures, and concluded that *the DEIR fails to require all feasible mitigation available to reduce the Project’s GHG impacts*. SWAPE stated that, in their expert opinion, additional, feasible mitigation is available to further reduce the Project’s GHG emissions, including, *inter alia*, the following:⁵⁰

- Incorporate Bike Lane Street Design (On-Site)
- Limit Parking Supply
- Implement Commute Trip Reduction Program- Voluntary or Required
- Provide Ride-Sharing Programs
- Implement Subsidized or Discounted Transit Program
- Implement Preferential Parking Permit Program
- Price Workplace Parking
- Implement Employee Parking “Cash-Out”
- Use passive solar design, such as:
 - Orient buildings and incorporate landscaping to maximize passive solar, heating during cool seasons, and minimize solar heat gain during hot seasons.
- Reduce unnecessary outdoor lighting by utilizing design features such as limiting the hours of operation of outdoor lighting.
- Develop and follow a “green streets guide” that requires:
 - Use of minimal amounts of concrete and asphalt;

⁴⁸ PRC § 21081; 14 CCR § 15092(b)(2)(A) & (B).

⁴⁹ Gateway Crossings DEIR, April 2018, p. 92.

⁵⁰ Exhibit A: SWAPE comments, p. 21-25.

- Use of groundcovers rather than pavement to reduce heat reflection.⁵¹
- Implement Project design features such as:
 - Shade HVAC equipment from direct sunlight;
 - Install high-albedo white thermoplastic polyolefin roof membrane;
 - Install high-efficiency HVAC with hot-gas reheat;
 - Install formaldehyde-free insulation; and
 - Use recycled-content gypsum board.
- Provide education on energy efficiency to residents, customers, and/or tenants. Provide information on energy management services for large energy users.
- Meet “reach” goals for building energy efficiency and renewable energy use.
- Require all buildings to become “LEED” certified.
- Limit the use of outdoor lighting to only that needed for safety and security purposes.
- Require use of electric or alternatively fueled sweepers with HEPA filters.
- Include energy storage where appropriate to optimize renewable energy generation systems and avoid peak energy use.
- Plant low-VOC emitting shade trees, e.g., in parking lots to reduce evaporative emissions from parked vehicles.
- Install an infiltration basin to provide an opportunity for 100% of the storm water to infiltrate on-site.

The DEIR must be revised to consider these GHG mitigation measures and incorporate all feasible measures identified by SWAPE as *binding* mitigation for the Project. Only if the Project’s GHG impacts remain significant after requiring all such feasible mitigation can the City consider declaring the Project’s GHG impacts to be significant and unavoidable.

⁵¹ Cool Houston Plan;
http://www.harcresearch.org/sites/default/files/documents/projects/CoolHoustonPlan_0.pdf
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IV. THE DEIR FAILS TO ADEQUATELY DISCLOSE, ANALYZE, AND MITIGATE SIGNIFICANT TRANSPORTATION AND TRAFFIC IMPACTS

CEQA requires the City to analyze the Project's direct, indirect and cumulative impacts from traffic generated by the Project. The DEIR analysis of transportation impacts is inadequate for several reasons. First, the DEIR fails to assess the Project's transportation impacts compared to the actual environmental setting, as required by CEQA. Second, the DEIR greatly underestimates the Project's actual transportation impacts by improperly taking credit for prior uses that ceased a long time ago. Finally, the DEIR fails to properly discuss and mitigate the Project's impact on public transit, as required by CEQA.

A. The DEIR Fails to Adequately Establish the Existing Setting for Transportation Impacts

The existing environmental setting is the starting point from which the lead agency must measure whether a proposed project may cause a significant environmental impact.⁵² CEQA defines the environmental setting as the physical environmental conditions in the vicinity of the project, as they exist at the time the notice of preparation is published, from both a local and regional perspective.⁵³ Describing the environmental setting accurately and completely for each environmental condition in the vicinity of the Project is critical to an accurate, meaningful evaluation of environmental impacts. The courts have clearly stated that, "[b]efore the impacts of a project can be assessed and mitigation measures considered, an [environmental review document] must describe the existing environment. It is only against this baseline that any significant environmental effects can be determined."⁵⁴

The DEIR fails to properly describe the environmental setting for the site's transportation impacts: the last occupant of the site was BAE systems, which ceased operating on the site in 2016. According to the DEIR, "[t]he former buildings

⁵² See, e.g., *Communities for a Better Env't v. S. Coast Air Quality Mgmt. Dist.* (March 15, 2010) 48 Cal.4th 310, 316; *Fat v. County of Sacramento* (2002) 97 Cal.App.4th 1270, 1278 ("*Fat*"), citing Remy, et al., Guide to the Calif. Environmental Quality Act (1999) p. 165.

⁵³ CEQA Guidelines §15125(a) (emphasis added); *Riverwatch v. County of San Diego* (1999) 76 Cal.App.4th 1428, 1453 ("*Riverwatch*").

⁵⁴ *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 952.
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were occupied by BAE systems until as recent as April 2016” and they were “recently demolished in late 2016/early 2017.”⁵⁵ The NOP for the EIR was published in February 2017, and it states “[t]he project site was previously developed with several industrial/office buildings totaling approximately 272,840 square feet, *which were recently demolished.*”⁵⁶ The notice of preparation, therefore, was published when the buildings were already demolished, and the site was vacant.

Despite that, as explained by Mr. Smith in his comments, the DEIR’s environmental setting relies on traffic counts that include *counts that were performed more than two years before the NOP was published*, when the prior use of the site was still active:

“[T]he baseline traffic counts for the “existing traffic condition” are a hodge-podge of counts taken from September, 2014 and dates in 2015 when there was some level of prior use of the Project site and dates in March of 2017 when prior activity on the Project site had clearly been terminated (...) In fact, of the 18 existing intersections for which traffic analysis was performed, in the AM peak hour, 11 were counted in 2014 or 2015 when the prior use was contributing to the baseline and the other 7 were counted in March, 2017 when the prior use had clearly terminated. In the PM peak hour, 10 of the intersections were counted when the prior use was contributing traffic to the traffic baseline while 8 intersections were counted after the prior use had clearly terminated.”⁵⁷

Using traffic counts from years before the NOP was published is a clear violation of CEQA and prevents the City from determining the Project’s *actual* transportation impacts. Therefore, the City must revise the DEIR to properly reflect the environmental setting and adequately analyze the Project’s potentially significant impacts.

B. The DEIR Underestimates the Project’s transportation impacts

As described above, the former R&D use on the site ceased about two years ago, and the buildings were demolished by the time the City published the NOP.

⁵⁵ Gateway Crossings DEIR, April 2018, p. 25.

⁵⁶ <http://www.santaclaraca.gov/home/showdocument?id=51066>

⁵⁷ Exhibit B: Smith Engineering and Management comments, p. 2.
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Despite that, the DEIR improperly deducts the trips generated by the former use from the proposed Project's traffic, as explained by Mr. Smith:

"[T]he Project's trip generation analysis deducts the full theoretical trip generation of the prior use at full occupancy from the trip generation of the Project as if that use had existed at the time of the NOP and as if it had been measured in all of the baseline counts. The inappropriate trip credit taken for the trips of the prior use can be seen in DEIR Table 3.17-5 and in Appendix G, Table 7."⁵⁸

As a result, the Project's actual impacts are greatly underestimated:

"This results in an 18.37 percent reduction in the net new daily trips, a 37.8 percent reduction in the AM peak trips and a 27.29 percent reduction in the PM trips actually generated by the Project. As a result, the Project's transportation impacts are greatly underestimated."⁵⁹

As noted by Mr. Smith, the fact that, within the Existing + Project analysis, the DEIR does not deduct the trips from the former use "does not compensate for the above-mentioned problem of failing to properly represent the environmental setting."⁶⁰

Mr. Smith also explains that the DEIR's short range analysis (Existing + Background Projects + Project) is flawed. In the short range analysis, the DEIR not only improperly uses the credit for the trips from the former use, which is the same flaw discussed above, but also, perhaps in attempting to compensate for this flaw, includes the theoretical trips of the prior use as if the former R&D facility were a concurrent project. As Mr. Smith explains:

"The DEIR's short range analysis (Existing + Background Projects + Project) attempts to compensate for the muddled traffic baseline in a different way. It allows the credit for the trips of the prior use of the Project site to be deducted from the Project's trip generation. But it attempts to compensate and get the end result traffic impacts and mitigation needs right by including the theoretical trips of the prior use as if the former R&D facility were a

⁵⁸ Exhibit B: Smith Engineering and Management comments, p. 2.

⁵⁹ Exhibit B: Smith Engineering and Management comments, p. 2.

⁶⁰ Exhibit B: Smith Engineering and Management comments, p. 2.

concurrent project (thereby seeming to offset their inappropriate deduction from the Project's trip generation).

However, this adjustment neither compensates for the strange admixture of existing traffic counts, nor does it properly account for the Project's full increment to, and fair share financial contribution responsibility for, traffic impacts. That is, the analysis improperly reduces the project's relative share by 1) allowing the project to take credit for the R&D trips, which unjustifiably reduces the project's relative share, while 2) at the same time, adding the former R&D facility trips to the existing trips (i.e., "enlarges the pie" of trips), thus further reducing the project's relative share of impacts. The fair share must be based on the Project's contribution of trips without deduction of prior use trips from the Project's trip totals. The analysis must be revised to accurately reflect the Project's fair share of transportation impacts."⁶¹

The result of the DEIR analysis taking improper credit for trips from the prior use, which did not exist at the time the NOP was prepared, and of using the prior use trips as if they are a concurrent project, is a gross underestimation of the Project's actual transportation impacts. Therefore, the DEIR lacks substantial evidence to support its conclusions. The City must prepare a revised DEIR that reflect the Project's actual impact.

C. The DEIR Fails to Properly Analyze the Project's Significant Impacts on Public Transit

The DEIR states that a transportation/traffic impact is considered significant if the project would conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities or otherwise decrease the performance or safety of such facilities.⁶²

With regard to impacts on transit facilities, the DEIR states that the Project site is served directly by two bus lines – VTA Bus Lines 10 and 304, and then summarily discusses and dismisses the impact on public transit:

"An evaluation of the effects of project traffic on transit vehicle delay was completed. The analysis shows that for most transit routes evaluated, the

⁶¹ Exhibit B: Smith Engineering and Management comments, p. 3, FN omitted.

⁶² Gateway Crossings DEIR, April 2018, p. 175.

traffic associated with the proposed project would increase delay to transit service by three minutes or less. Neither the City nor VTA has established policies or significance criteria related to transit vehicle delay. Thus, this data is provided for informational purposes. Based on the discussion above, the project would not significantly impact the effectiveness of transit facilities. **(Less than Significant Impact)**⁶³

The City's conclusion that impacts on transit would be less than significant is not supported by substantial evidence, as required by CEQA. First, the Project's impacts on transit may be even more severe when combined with other projects' impacts on transit. Despite this cumulative impact on transit, Mr. Smith explains that the DEIR fails to discuss any cumulative impact on transit:

"The concurrent background projects identified in the transportation analysis comprise a list of 105 individual projects that easily involve, in aggregate, 10 or more times the trip generation of the subject Project. If each group of projects that had a trip generation equivalent to the subject Project were to create a three-minute delay for VTA lines, the transit system in the area would become completely bogged down and dysfunctional."⁶⁴

Second, the DEIR cannot claim BOTH that there are no policies or significance criteria related to transit vehicle delay AND that the Project would not result in a significant impact the effectiveness of transit.

Third, the DEIR's statement that neither the City nor VTA has established policies or significance criteria related to transit vehicle delay does not mean that there are no significance thresholds upon which to make a determination regarding transit impacts. CEQA explains that when there is no adopted threshold of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies or recommended by experts.⁶⁵ Here, as explained by Mr. Smith, there are applicable thresholds the City can use to determine potentially significant transit impacts:

"Performance measures are used by different California Metropolitan Planning Organizations to evaluate the performance of public transit. Such

⁶³ Gateway Crossings DEIR, April 2018, p. 196.

⁶⁴ Exhibit B: Smith Engineering and Management comments, p. 3-4.

⁶⁵ CEQA Guidelines, § 15064.7 (thresholds of significance).

measures are used to evaluate mobility – the degree of ease of travel between origins and destinations. Such thresholds may be qualitative or quantitative, such as average speed, relative delay time or travel time. (see Mineta Transportation Institute, “Transit Performance Measures in California”, April 2016).”⁶⁶

Moreover, the City’s General Plan policy for the Santa Clara Station Focus Area specifically calls for the City to “Prioritize vehicular and transit transportation modes on roadways, such as Coleman Avenue and De La Cruz Boulevard, that provide access to the Station (...)”⁶⁷. Line no. 10, which the DEIR mentions as serving the Project (and potentially impacted by it) is exactly this type of “vehicular transit” the General Plan calls for prioritizing. By failing to establish a threshold for transit impacts or relying on a qualitative threshold readily available for the State’s transit planning organizations, the City violate its duty under CEQA to evaluate the Project’s potentially significant transit impacts. The Project also contradicts its own General Plan.

In addition, the DEIR completely fails to disclose the Project’s impact on rail transit. As explained by Mr. Smith:

“The DEIR assumes a 9 percent reduction in the motor vehicle trip generation of the Project’s housing component based on its proximity to the Santa Clara Caltrain Station and the VTA transit lines that service it. However, the DEIR fails to analyze what impact adding those trips, which amount to 74 trips in the AM peak hour and 89 trips in the PM peak hour over and above the transit trips that would normally take place from a housing project located beyond a half-mile from a rail station, would have with regard to overcrowding on Caltrain and the VTA lines at that location.”⁶⁸

In sum, the DEIR lacks substantial evidence to support its conclusion that the Project would result in less than significant impacts on bus transit and fails entirely to evaluate the Project’s potentially significant impacts on rail transit. The

⁶⁶ Exhibit B: Smith Engineering and Management comments, p. 4. The study can be accessed here: <https://transweb.sjsu.edu/research/Transit-Performance-Measures-California>

⁶⁷ City of Santa Clara 2010-2035 General Plan, Chapter 5 – Goals and Policies, pp. 38.

⁶⁸ Exhibit B: Smith Engineering and Management comments, p. 3.

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City must revise its analysis to comply with CEQA and recirculate a revised DEIR for public review.

V. CONCLUSION

The DEIR is inadequate as an environmental document because it fails to properly disclose, analyze and mitigate the Project's significant impacts on air quality, public health, GHGs, transportation and traffic. The Project also fails to comply with the City's General Plan affordable housing policies. Therefore, the City cannot approve the Project until it requires affordable housing and prepares a revised DEIR that resolves these issues and complies with CEQA's requirements.

Thank you for your consideration of these comments.

Sincerely,

Tanya A. Gulesserian
Nirit Lotan



NL:acp
Attachments

EXHIBIT A



Technical Consultation, Data Analysis and
Litigation Support for the Environment

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May 24, 2018

Nirit Lotan
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South San Francisco, CA 94080

Subject: Comments on the Gateway Crossings Project

Dear Ms. Lotan,

We have reviewed the April 2018 Draft Environmental Impact Report (DEIR) and associated appendices for the Gateway Crossings Project (“Project”) located in the Cities of Santa Clara and San Jose. The proposed Project seeks a General Plan Amendment in order to allow a Very High Density Residential land use and to add a new zoning designation of Very High Density Mixed Use on the Santa Clara portion of the Project site. The proposed Project will develop one of two Project options over five phases of construction. Option 1 of the proposed Project plans to develop 1,400 residential units and 215,000 square feet of commercial space. Option 2 is the preferred Project alternative, which will construct up to 1,600 residential units and 215,000 square feet of commercial use. The commercial space will include 15,000 square feet of retail space and a 250-room hotel with a 10,000 square foot restaurant and 5,000 square feet of meeting space over the 24-acre lot.

Our review concludes that DEIR fails to adequately evaluate the Project’s Air Quality and Greenhouse Gas (GHG) impacts. As a result, emissions and health impacts associated with the construction and operation of the proposed Project are underestimated and inadequately addressed. Our analysis, as described herein, demonstrates that there are potentially significant impacts that were not disclosed, and new mitigation measures that were not considered in the DEIR that could reduce the Project’s impacts to a less than significant level. An updated DEIR should be prepared to adequately assess and mitigate the potential air quality, health risk, and GHG impacts that the Project may have on the surrounding environment.

Air Quality

Unsubstantiated Input Parameters Used to Estimate Project Emissions

The DEIR for the Project relies on emissions calculated from the California Emissions Estimator Model Version CalEEMod.2016.3.1 ("CalEEMod").¹ CalEEMod provides recommended default values based on site specific information, such as land use type, meteorological data, total lot acreage, project type and typical equipment associated with project type. If more specific project information is known, the user can change the default values and input project-specific values, but CEQA requires that such changes be justified by substantial evidence.² Once all of the values are inputted into the model, the Project's construction and operational emissions are calculated, and "output files" are generated. These output files disclose to the reader what parameters were utilized in calculating the Project's criteria air pollutant and GHG emissions and make known which default values were changed as well as provide a justification for the values selected.³

When reviewing the Project's CalEEMod output files, located in Appendix B, Air Quality Assessment, we found that several of the values inputted into the model are not consistent with information disclosed in the DEIR and are not consistent with guidance set forth by the Bay Area Air Quality Management (BAAQMD) for mixed-use projects. As a result, emissions associated with the Project are greatly underestimated. A revised DEIR should be prepared that adequately assesses the potential impacts that construction and operation of the Project may have on regional and local air quality and global climate change.

Failure to Include All Land Uses and Use of Underestimated Land Use Sizes

Review of the DEIR's CalEEMod output files for Option 2 demonstrates that incorrect land use sizes were used to estimate emissions. As a result, the construction and operational emissions are underestimated.

Under Option 2, the DEIR proposes to construct "up to 1,600 dwelling units and up to 215,00 square feet of commercial uses", which includes a hotel that "would include up to 250 rooms, an up to 10,000 square foot restaurant, and up to 5,000 square feet of conference/meeting space for a total gross floor area of up to 200,000 square feet" (p. 8,11). However, review of the Phase 5 construction CalEEMod output files demonstrates that the Project Applicant modeled emissions assuming only 225 hotel rooms would be constructed and completely omitted the proposed restaurant land use (see excerpt below) (Appendix B, pp. 120).

¹ CalEEMod website, available at: <http://www.caleemod.com/>

² CalEEMod User Guide, p. 2, 9, available at: <http://www.caleemod.com/>

³ CalEEMod User Guide, p. 7, 13, available at: <http://www.caleemod.com/> (A key feature of the CalEEMod program is the "remarks" feature, where the user explains why a default setting was replaced by a "user defined" value. These remarks are included in the report.)

Gateway Crossings, Phase 5, Mitigated Criteria Emissions
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	339.00	Space	0.00	142,500.00	0
Hotel	225.00	Room	21.40	182,000.00	0
Strip Mall	5.20	1000sqft	0.00	5,200.00	0

As you can see in the excerpt above, the Project Applicant models 25 fewer hotel rooms than what was proposed in the DEIR and completely omits the proposed restaurant land use. Furthermore, review of the Phase 1, Phase 2, Phase 3, and Phase 4 CalEEMod output files for construction demonstrates that the Project Applicant modeled emissions assuming a total of 1,581 residential units will be constructed (see excerpts below) (Appendix B, pp. 39, pp. 59, pp. 79, and pp. 99).

Gateway Crossings, Phase 1 , Mitigated Criteria Emissions
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	485.00	Space	0.00	256,900.00	0
Parking Lot	4.00	Space	0.04	1,600.00	0
Apartments Mid Rise	261.00	Dwelling Unit	21.36	324,000.00	746
Strip Mall	5.30	1000sqft	0.00	5,300.00	0

Gateway Crossings Phase 2, Criteria and Operational
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	625.00	Space	0.00	256,900.00	0
Parking Lot	7.00	Space	0.06	2,800.00	0
Apartments Mid Rise	332.00	Dwelling Unit	21.34	414,000.00	950

Phase 3, Mitigated Criteria Emissions
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	760.00	Space	0.00	311,800.00	0
Parking Lot	6.00	Space	0.05	2,400.00	0
Apartments Mid Rise	432.00	Dwelling Unit	21.35	522,000.00	1236
Strip Mall	4.90	1000sqft	0.00	4,900.00	0

Gateway Crossings, Phase 4 Criteria and Operational Emissions
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	905.00	Space	0.00	362,000.00	0
Parking Lot	4.00	Space	0.04	1,600.00	0
Apartments Mid Rise	556.00	Dwelling Unit	21.36	556,885.00	1590

As you can see in the excerpts above, Phase 1 through Phase 4 estimate emissions assuming only 1,581 residential units would be constructed. Finally, review of the operational CalEEMod output files for all five phases demonstrates that while the hotel and apartment land use sizes were inputted correctly, the Project Applicant still failed to include the restaurant land use (see excerpt below) (Appendix B, pp. 190).

Coleman Browkaw Gateway Crossings Full Build Out
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	3,114.00	Space	0.00	1,245,600.00	0
Parking Lot	21.00	Space	0.00	8,400.00	0
Hotel	250.00	Room	0.00	363,000.00	0
Apartments Mid Rise	1,600.00	Dwelling Unit	24.00	1,600,000.00	4576
Strip Mall	15.00	1000sqft	0.00	15,000.00	0

As you can see in the excerpt above, the 10,000 square foot restaurant was completely omitted from the model. According to the CalEEMod User's Guide, the correct land use type and size is necessary in order to correctly calculate impacts from architectural coatings and energy use.⁴ As a result, the construction and operational emissions associated with the Project are incorrect and should not be relied upon to estimate emissions.

Use of Incorrect Trip Purpose Percentage

Review of the Project's operational CalEEMod output files demonstrates that the model double counts the number of pass-by trips expected to occur throughout Project operation. As a result, the Project's operational emissions are underestimated.

CalEEMod separates the operational trip purposes into three categories: primary, diverted, and pass-by trips. According to Appendix A of the CalEEMod User's Guide, the primary trips utilize the complete trip lengths associated with each trip type category. Diverted trips are assumed to take a slightly different pass than a primary trip and are assumed to be 25% of the primary trip lengths. Pass-by trips are

⁴ http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 28

assumed to be 0.1 miles in length and are a result of no diversion from the primary route.⁵ Review of the Project's CalEEMod output files demonstrates that the trip purpose percentage was divided amongst primary, diverted, and pass-by trip types for the Project's proposed retail land uses (Appendix B, pp. 146, pp. 157, pp. 170, pp. 182, and 194).

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

However, as demonstrated by the Traffic Impact Analysis (TIA) prepared for the Project, pass-by trips for the retail land use were already accounted for in the TIA's Traffic Generation calculation (see excerpt below) (Table 7, Appendix G, pp. 49).

**Table 7
Trip Generation Estimates**

Land Use	ITE Land Use	Size	Daily Rate	Daily Trip	AM Peak Hour						PM Peak Hour					
					Pk-Hr Rate	Split In	Split Out	Trip In	Trip Out	Trip Total	Pk-Hr Rate	Split In	Split Out	Trip In	Trip Out	Trip Total
Proposed Land Use																
Residential	220 - Apartment	1,600 dwelling units	6.65	10,640	0.51	20%	80%	163	653	816	0.62	65%	35%	645	347	992
	15% housing and retail mixed-use reduction ¹			-96				-1	-1	-2				-4	-4	-8
	9% housing near Caltrain station ⁴			-949				-15	-59	-74				-58	-31	-89
Hotel	310 - Hotel	250 rooms	8.17	2,043	0.53	59%	41%	78	55	133	0.60	51%	49%	77	73	150
	10% hotel and retail mixed-use reduction ²			-64				-1	-1	-2				-3	-3	-6
Retail	820 - Shopping Center	15,000 square feet	42.70	641	0.96	62%	38%	9	5	14	3.71	48%	52%	27	29	56
	15% housing and retail mixed-use reduction ¹			-96				-1	-1	-2				-4	-4	-8
	10% hotel and retail mixed-use reduction ²			-64				-1	-1	-2				-3	-3	-6
	25% pass-by reduction ³			-11				0	0	0				-5	-6	-11
Project Trips After Reductions				12,044				231	650	881				672	398	1,070
Former Land Use																
R&D	760 - Research & Development	272,840 square feet	8.11	2,213	1.22	83%	17%	276	57	333	1.07	15%	85%	44	248	292
Net Project Trips (Proposed - Former Land Uses)				9,831				-45	593	548				628	150	778
Notes:																
Source: ITE Trip Generation, 9th Edition, 2012.																
¹ As prescribed by the VTA Transportation Impact Analysis Guidelines (October 2014), the maximum trip reduction for a mixed-use development project with housing and retail components is equal to 15% off the smaller trip generator (retail component generates less trips than the housing component).																
² As prescribed by the VTA Transportation Impact Analysis Guidelines (October 2014), the maximum trip reduction for a mixed-use development project with hotel and retail components is equal to 10% off the smaller trip generator (retail component generates less trips than the hotel component).																
³ A 25% PM pass-by reduction is typically applied for retail development within Santa Clara County.																
⁴ As prescribed by the VTA Transportation Impact Analysis Guidelines (October 2014), the maximum trip reduction for housing located within 2,000-foot walk of a Caltrain station is 9%. (The project will have access to the Santa Clara Transit Center from Brokaw Road via the pedestrian undercrossing currently under construction).																

Therefore, the CalEEMod model should have divided the trip purpose between primary and diverted trips for the retail land use, as pass-by trips are already accounted for in the 12,044-daily trip total. By spreading the trip purpose percentages amongst the three categories, the model is accounting for pass-by trips that have already been accounted for in the TIA. Because the proposed Project's CalEEMod model incorrectly allocates the Project's operational trips to the various categories of trip purposes, the emissions associated with these trips are underestimated, and as a result, the Project's operational

⁵ "CalEEMod User's Guide, Appendix A: Calculation Details for CalEEMod." SCAQMD, available at: <http://www.aqmd.gov/docs/default-source/caleemod/caleemod-appendixa.pdf?sfvrsn=2>, p. 20

emissions are underestimated. An updated CalEEMod model must be prepared in an updated DEIR in order to accurately estimate the Project’s operational emissions.

Updated Analysis Indicates Significant Criteria Air Pollutant Emissions

In an effort to accurately determine the Project’s operational criteria air pollutant emissions, we prepared an updated CalEEMod model for the Project at full Project build out in order to include more site-specific information and corrected input parameters. Additionally, we assessed the impacts that would occur from overlap of Phases 1 through 4 operation and Phase 5 construction. The results of our analysis, discussed in the sections below, indicate that the DEIR failed to accurately model and assess the Project’s emissions and, as a result, the Project could result in more significant impacts than what was previously identified in the DEIR.

Updated Operational Emissions Analysis Indicates Significant Impact

In the operational model, we inputted the 10,000 square foot restaurant and changed the pass-by trip rates to zero in for the retail land use and added those trips to the primary trip category. When correct, site-specific input parameters are used to model emissions, we find that the Project’s operational ROG and NOx emissions increase significantly when compared to the DEIR’s CalEEMod model emission estimates for full Project build out. Furthermore, we find that ROG and NOx emissions exceed the 54 pounds per day (lbs/day) thresholds set for by the BAAQMD (see table below).

Average Daily Operational Emissions (lbs/day)			
Model	ROG	NOx	
DEIR	56	46.4	
SWAPE	61.4	56.8	
BAAQMD Significance Thresholds (lbs/day)		54	54
Exceed?		Yes	Yes

As you can see in the table above, when emissions are modeled correctly, both ROG and NOx emissions would exceed BAAQMD thresholds. Specifically, our analysis demonstrates that operational activity would emit approximately 61 lbs/day of ROG emissions and approximately 57 lbs/day of NOx emissions, which is higher than what the DEIR previously estimated. As a result, an updated DEIR should be prepared that includes an updated air pollution model to adequately estimate the Project’s emissions, and additional mitigation measures should be identified and incorporated to reduce these emissions to a less-than-significant level.⁶

Failure to Account for Overlap in Construction and Operational Emissions

Not only does the DEIR incorrectly estimate the Project’s construction and operational emissions, but it fails to account for the overlap in emissions that would occur once construction of Phases 1 through 4 are complete and operational, and when construction of the next phase begins. According to the DEIR, Project construction is expected to occur in five phases, with each phase expected to be operational

⁶ See section titled “Feasible Mitigation Measures Available to Reduce Operational Emissions” on p. 21 of this letter. These measures would effectively reduce operational NOx emissions as well as DPM and GHG emissions.

once construction is complete. The excerpt below shows the anticipated construction schedule for each phase (Appendix B, p. 10).

- Phase 1 would be built over a period of 12 months beginning in October 2018.
- Phase 2 would be built over a period of 12 months beginning in July 2019.
- Phase 3 would be built over a period of 12 months beginning in April 2020.
- Phase 4 would be built over a period of 14 months beginning in March 2022.
- Phase 5 would be built over a period of 19 months beginning in January 2024.

The excerpt above demonstrates that construction of Phase 1 will begin in October 2018 and would therefore be fully operational in October 2019, once construction is complete (Appendix B, p. 10). Construction of Phase 2 would begin soon after and be completed in July 2020 (Appendix B, p. 10). Therefore, when the next phase is in construction, the previous phase or phases that just finished construction will be in operation. Thus, when construction of Phase 5 begins, the previous four phases will be in operation. Due to these overlaps, the DEIR should have evaluated the Project’s air quality impact assuming that construction of Phase 2 through Phase 5 and operation of the previous phase or phases would occur concurrently. Review of the DEIR, however, demonstrates that no such analysis was conducted, leaving a gap in the DEIR’s evaluation of the Project’s potential impacts.

As is demonstrated in Table 2 and Table 3 of the Air Quality Assessment, the DEIR evaluated the Project’s construction and operational emissions separately and did not account for this overlap in activities (see excerpts below) (Appendix B, p. 11, p. 12).

Table 2. Construction Period Emissions by Phase

Scenario	ROG	NOx	PM ₁₀ Exhaust	PM _{2.5} Exhaust
Phase 1 (tons)	3.06	7.14	0.31	0.29
Phase 2 (tons)	3.60	6.17	0.27	0.25
Phase 3 (tons)	4.34	5.70	0.24	0.22
Phase 4 (tons)	4.78	6.97	0.27	0.25
Phase 5 (tons)	1.69	6.06	0.24	0.22
Total construction emissions (tons)	17.43 tons	32.0 tons	1.32 tons	1.24 tons
Average daily emissions (pounds)¹	24.8 lbs./day	45.5 lbs./day	1.9 lbs./day	1.8 lbs./day
<i>BAAQMD Thresholds (pounds per day)</i>	54 lbs./day	54 lbs./day	82 lbs./day	54 lbs./day
Exceed Threshold?	No	No	No	No
Notes: ¹ Assumes 1,408 workdays.				

Table 3. Operational Emissions

Scenario	ROG	NOx	PM ₁₀	PM _{2.5}
2020 Phase1	1.82 tons	2.23 tons	1.45 tons	0.42 tons
2021 Phase1+Phase2	4.72 tons	4.86 tons	3.16 tons	0.91 tons
2022 Phase1+Phase2+Phase3	7.61 tons	6.87 tons	5.47 tons	1.57 tons
2024 Phase1+Phase2+Phase3+Phase4	10.65 tons	8.67 tons	8.44 tons	2.42 tons
2026 Full Build Out Phase1+Phase2+Phase3+Phase4+Phase5	11.78 tons	10.09 tons	9.92 tons	2.85 tons
Previous Existing Industrial/Office Use	1.56 tons	1.62 tons	1.62 tons	0.46 tons
Net Emissions	10.22 tons	8.47 tons	8.30 tons	2.39 tons
<i>BAAQMD Thresholds (tons /year)</i>	<i>10 tons</i>	<i>10 tons</i>	<i>15 tons</i>	<i>10 tons</i>
<i>Exceed Threshold?</i>	Yes	No	No	No
Net Project Operational Emissions (<i>pounds/day</i>)	56.0 lbs	46.4 lbs	45.5 lbs	13.1 lbs
<i>BAAQMD Thresholds (pounds/day)</i>	<i>54 lbs.</i>	<i>54 lbs.</i>	<i>82 lbs.</i>	<i>54 lbs.</i>
<i>Exceed Threshold?</i>	Yes	No	No	No

¹ Assumes 365-day operation.

Since the DEIR fails to evaluate the impacts that may result from this overlap in construction and operational activity, the Project’s air quality impacts are potentially significantly underestimated and inadequately addressed. In an effort to determine the air quality impacts that the construction of Phase 5 and the operation of Phases 1 through 4 may result in, we conducted a simple analysis that combines the “Phase1+Phase2+Phase3+Phase4 operational emissions” CalEEMod model (Appendix B, pp. 178) with the Phase 5 construction emissions from the DEIR’s CalEEMod model (Appendix B, pp. 120).

When the Project’s Phase 1 through Phase 4 operational emissions and Phase 5 construction emissions are combined, we find that the Project’s emissions would result in a potentially significant air quality impact that was not previously identified in the DEIR (see table below).

January 2024 to July 2025 Average Daily Emissions (lbs/day)				
Activity	ROG	NOx	PM10	PM2.5
Existing Emissions	8.5	8.9	8.9	2.5
Construction - Phase 5	5.9	21.3	0.84	0.77
Operation - Phase 1, 2, 3, and 4	58.4	47.5	46.2	13.3
Net Total January 2024 to July 2025 Emissions	55.8	59.9	38.14	11.57
BAAQMD Significance Thresholds (lbs/day)	54	54	82	54
<i>Exceed?</i>	Yes	Yes	No	No

Specifically, our analysis demonstrates that from January 2024 to July 2025, the Project’s combined ROG emissions would be approximately 56 lbs/day and combined NOx emissions of approximately 60 lbs/day would exceed the BAAQMD’s significance thresholds of 54 lbs/day. These updated emission estimates demonstrate that when the overlap in construction and operational activity from construction of Phase 5 and the operation of Phases 1 through 4 is accounted for, the Project would result in a potentially significant ROG-related air quality impact that was not previously examined or identified in the DEIR. Furthermore, the Project would result in higher average daily NOx emissions than was identified by the

DEIR. As a result, the DEIR should be revised to include an updated model to adequately estimate the Project's emissions.

Diesel Particulate Matter Health Risk Emissions Inadequately Evaluated

The DEIR conducts a health risk assessment (HRA) to evaluate the health risk posed to new on-site sensitive receptors from exposure to toxic air contaminant (TAC) emissions from several sources near the Project site, including the El Camino Real Highway, Caltrain Rail Line, and several stationary sources. However, the DEIR fails to evaluate, whatsoever, the health risk posed to nearby residents as a result of exposure to emissions generated by construction and operation of the proposed Project. The DEIR attempts to justify the omission of a construction health risk by stating that,

“A review of the project area did not reveal any sensitive receptors within 1,000 feet of the project site. For this reason, project construction activities would not result in significant health risk impacts to off-site sensitive receptors” (p. 49).

Additionally, the DEIR determines that the Project would not expose nearby sensitive receptors to significant TAC emissions, again without conducting a proper HRA (p. 50). The DEIR attempts to justify the omission of an operational HRA by stating,

“There are no sensitive receptors within 1,000 feet of the project site. For this reason, the project emergency backup generator under either option would not have a significant health risk to off-site sensitive receptors due to generator testing” (p. 50).

However, this justification for failing to evaluate the health risk posed to the nearest sensitive receptors to the Project site is incorrect for several reasons.

First, even though the nearest sensitive receptors are over 1,000 feet from the Project site, this does not necessarily mean that the Project Applicant is not required to conduct an HRA. BAAQMD Guidelines recommend that any proposed project that includes placing a receptor or new emission source assess potential impacts associated with the project within 1,000 feet.⁷ However, the BAAQMD has also established the Community Air Risk Evaluation (CARE) Program, which identifies communities that experience higher levels of air pollution than others.⁸ According to BAAQMD guidelines, “the goal of the Community Risk Reduction Plan is to encourage local jurisdictions to take a proactive approach to reduce the overall exposure to TAC and PM_{2.5} emissions and concentrations from new and existing sources”.⁹ Communities identified by the CARE Program are typically located near pollution sources such as freeways, large industrial facilities, or distribution centers.¹⁰ Review of the impacted communities identified by the CARE Program demonstrates that the Project will be located in one of these areas.

⁷ <http://www.baaqmd.gov/plans-and-climate/community-air-risk-evaluation-care-program>

⁸ <http://www.baaqmd.gov/plans-and-climate/community-air-risk-evaluation-care-program>

⁹ “CEQA Air Quality Guidelines,” BAAQMD, May 2017, available at: http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en, p. 5-3

¹⁰ *Ibid.*

Furthermore, according to the DEIR, emissions generated during Project activities has the potential to affect sensitive receptors near the Project site (Appendix B, p. 16). Specifically, the DEIR states,

“Temporary project construction activity would generate dust and equipment exhaust on a temporary basis that could affect nearby sensitive receptors” (Appendix B, p. 16).

Therefore, emissions associated with the Project have the potential to pose a health risk to sensitive receptors. Additionally, according to the BAAQMD’s “CEQA Air Quality Guidelines”, the recommended 1,000-foot radius can be enlarged on a case-by-case basis.¹¹ Since the nearest sensitive receptor is located only 347 meters away from the Project site, and because the Project is located within a CARE community, this receptor will be impacted by the emissions generated by the Project over the 6 to 8 year construction period and throughout operation. As a result, we argue that it is critical that the proposed Project’s health risk impact be assessed, since there are sensitive receptors located in close proximity to the Project site that will be impacted.

Second, according to the BAAQMD’s May 2011 *Recommended Methods for Screening and Modeling Local Risks and Hazards* report, “the thresholds for local risks and hazards from TAC and PM2.5 are intended to apply to all sources of emissions, including both permitted stationary sources and on- and off-road mobile sources, such as sources related to construction, busy roadways, or freight movements.”¹² Therefore, an individual project would be considered significant if the total project’s TAC emissions, including exhaust from construction equipment, heavy duty diesel trucks, and diesel-powered generators, would result in an increased cancer risk greater than 10 in one million, or would result in an increased ambient air PM2.5 concentration greater than 0.3 µg/m³. However, because the DEIR has failed to evaluate whether or not these emission sources would result in an increased cancer risk or an increased ambient air PM2.5 concentration greater than 10 in one million and 0.3 µg/m³, respectively, there is no way of knowing the magnitude of the Project’s impact on the health of nearby residents. Furthermore, BAAQMD’s CEQA guidance states that “carcinogens are assumed to have no safe threshold below which health impacts would not occur.”¹³ Thus, a proper analysis should have been conducted in order to know the full extent of the potential impacts that the Project would have on the surrounding community.

Third, failing to conduct a proper HRA conflicts with the most recent guidance published by the Office of Environmental Health Hazard Assessment (OEHHA), the organization responsible for providing recommendations and guidance on how to conduct health risk assessments in California. In February of

¹¹ “CEQA Air Quality Guidelines,” BAAQMD, May 2017, available at: http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en, p. 5-3

¹² “CEQA Guidelines.” Bay Area Air Quality Management District, May 2017. Available at: http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en, p. D-34

¹³ “California Environmental Quality Act Air Quality Guidelines.” Bay Area Air Quality Management District, May 2017. Available at: http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en, p. C-21

2015, OEHHA released its most recent *Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments*, which was formally adopted in March of 2015.¹⁴ This guidance document describes the types of projects that warrant the preparation of an HRA. As previously stated, grading and construction activities for the proposed Project will produce emissions of diesel particulate matter (DPM) through the exhaust stacks of construction equipment over an approximate 6 to 8-year period (Appendix B, Air Quality Assessment, p. 11). The OEHHA document recommends that all short-term projects lasting at least two months be evaluated for cancer risks to nearby sensitive receptors.¹⁵ Once construction is complete, Project operation will generate vehicle trips, which will generate additional exhaust emissions, thus continuing to expose nearby sensitive receptors to DPM emissions. The OEHHA document recommends that exposure from projects lasting more than 6 months should be evaluated for the duration of the project, and recommends that an exposure duration of 30 years be used to estimate individual cancer risk for the maximally exposed individual resident (MEIR).¹⁶ Even though we were not provided with the expected lifetime of the Project, we can reasonably assume that the Project will operate for at least 30 years, if not more. Therefore, per OEHHA guidelines, health risk impacts from Project construction and operation should have been evaluated by the DEIR. These recommendations reflect the most recent HRA policy, and as such, an assessment of health risks to nearby sensitive receptors from construction and operation should be included in a revised CEQA evaluation for the Project.

Updated Health Risk Assessment Indicates Significant Health Impact

In an effort to demonstrate the potential risk posed by Project construction and operation to nearby sensitive receptors, we prepared a simple screening-level HRA. The results of our assessment, as described below, provide substantial evidence that the Project's construction and operational DPM emissions may result in a potentially significant health risk impact that was not previously identified.

Modeling Parameters

In order to conduct our screening level risk assessment, we relied upon AERSCREEN, which is a screening level air quality dispersion model.¹⁷ The model replaced SCREEN3, and AERSCREEN is included in the OEHHA¹⁸ and the California Air Pollution Control Officers Associated (CAPCOA)¹⁹ guidance as the appropriate air dispersion model for Level 2 health risk screening assessments ("HRSA"). A Level 2 HRSA utilizes a limited amount of site-specific information to generate maximum reasonable downwind concentrations of air contaminants to which nearby sensitive receptors may be exposed. If an

¹⁴ "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, available at: <https://oehha.ca.gov/media/downloads/cnr/2015guidancemanual.pdf>

¹⁵ "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, available at: <https://oehha.ca.gov/media/downloads/cnr/2015guidancemanual.pdf>, p. 8-18

¹⁶ "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, available at: <https://oehha.ca.gov/media/downloads/cnr/2015guidancemanual.pdf>, p. 8-6, 8-15

¹⁷ "AERSCREEN Released as the EPA Recommended Screening Model," USEPA, April 11, 2011, available at: http://www.epa.gov/ttn/scram/guidance/clarification/20110411_AERSCREEN_Release_Memo.pdf

¹⁸ "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, available at: http://oehha.ca.gov/air/hot_spots/2015/2015GuidanceManual.pdf

¹⁹ "Health Risk Assessments for Proposed Land Use Projects," CAPCOA, July 2009, available at: http://www.capcoa.org/wp-content/uploads/2012/03/CAPCOA_HRA_LU_Guidelines_8-6-09.pdf

unacceptable air quality hazard is determined to be possible using AERSCREEN, a more refined modeling approach is required prior to approval of the Project.

We prepared a preliminary health risk screening assessment of the Project’s construction and operational impact to sensitive receptors using the annual construction and operational PM₁₀ exhaust estimates from the DEIR’s CalEEMod models and the SWAPE’s CalEEMod model for full Project operation. As previously mentioned, according to Google Earth, the closest sensitive receptor is approximately 347 meters away from the Project site. According to the DEIR, construction of the Project would occur over five phases over the course of 6 to 8 years (Appendix B, p. 10). Construction of Phase 1 and Phase 2 overlap by approximately 92 days and construction of Phase 2 and Phase 3 overlap by approximately 91 days. Furthermore, it is assumed that each phase of the project will become operational once constructed, therefore, construction and operation of the project will overlap (p. 49). Consistent with recommendations set forth by OEHHA, we used a residential exposure duration of 30 years, starting from the infantile stage of life. The table below shows the approximate Project construction and operation schedule of each phase of the Project, based on construction schedules provided in the construction equipment lists (Appendix B, Air Quality Assessment, pp. 34-38):

Project Construction and Operational Schedule				
Phase	Start Date	End Date	Number of Days	
Phase 1 Construction	10/1/2018	7/1/2019	273	
Phase 1 and 2 Construction	7/1/2019	10/1/2019	92	
Phase 1 Operation & Phase 2 Construction	10/1/2019	4/1/2020	183	
Phase 1 Operation; Phase 2 & 3 Construction	4/1/2020	7/1/2020	91	
Phase 1 - 2 Operation; Phase 3 Construction	7/1/2020	4/1/2021	274	
Phase 1 - 3 Operation	4/1/2021	3/1/2022	334	
Phase 1 - 3 Operation; Phase 4 Construction	3/1/2022	5/1/2023	426	
Phase 1 - 4 Operation	5/1/2023	1/1/2024	245	
Phase 1-4 Operation; Phase 5 Construction	1/1/2024	8/1/2025	578	
Full Project Build Out	8/1/2025	10/1/2048	8,462	

The AERSCREEN model relies on a continuous average emissions rate to simulate maximum downwind concentrations from point, area, and volume emission sources. To account for the variability in construction equipment usage over the phases of Project construction and operation, we calculated an average DPM emission rate by the following equation for each of the phases of construction and operation.

$$Emission\ Rate\ \left(\frac{grams}{second}\right) = \frac{lbs\ of\ DPM}{Number\ of\ days} \times \frac{453.6\ grams}{lb} \times \frac{1\ day}{24\ hours} \times \frac{1\ hour}{3,600\ seconds}$$

Because the duration, start year, year of completion, and activity type vary between each phase of construction and operation, we calculated a specific emission rate for each of the phases (see table below).

Project Phase Emission Rates			
Phase	DPM Emissions (tons/year) ¹	Number of Days ²	Emission Rate (g/s) ³
Phase 1 Construction	0.1613	365	0.00464
Phase 1 and 2 Construction	0.3648	730	0.00525
Phase 1 Operation & Phase 2 Construction	0.2463	365	0.00709
Phase 1 Operation; Phase 2 & 3 Construction	0.4626	365	0.01331
Phase 1 - 2 Operation; Phase 3 Construction	0.3121	365	0.00898
Phase 1 -3 Operation	0.1426	365	0.00410
Phase 1 - 3 Operation; Phase 4 Construction	0.3800	426	0.00937
Phase 1 - 4 Operation	0.2212	365	0.00636
Phase 1-4 Operation; Phase 5 Construction	0.4007	578	0.00728
Full Project Build Out	0.2386	365	0.00686

¹ Values representative of Exhaust PM10 Emissions taken from the DEIR's CalEEMod output files (Appendix B, pp. 39-178). Full Project Buildout operational value representative of Exhaust PM10 Emissions at full Project build out from the SWAPE CalEEMod output file.

² Used the entire construction period for averaging the DPM emissions.

³ Emission rate was calculated by dividing the annual emissions by the duration for each phase. 2,000 pounds/ton; 453.6 grams/pound; 24 hours/day; 3,600 seconds/hour

Construction and operational activity was simulated as a 24-acre rectangular area source in AERSCREEN, with dimensions of 330 meters by 294 meters. A release height of three meters was selected to represent the height of exhaust stacks on operational equipment and other heavy-duty vehicles, and an initial vertical dimension of one a half meters was used to simulated instantaneous plum dispersion upon release. An urban meteorological setting was selected with model-default inputs for wind speed and direction distribution.

Modeling Outputs

The AERSCREEN model generated maximum reasonable estimates of single hour downwind DPM concentrations from the Project site. EPA guidance suggests that in screening procedures, the annualized average concentration of an air pollutant may be estimated by multiplying the single-hour concentration by 10%.²⁰ For example, for the MEIR the single-hour concentration estimated by AERSCREEN for Phase 1 of Project construction is approximately 0.9871 µg/m³ DPM at approximately 350 meters downwind. Multiplying this single-hour concentration by 10%, we get an annual average concentration of 0.09871 µg/m³ for Project construction at the MEIR. We estimated the annualized average concentration for the remaining phases of construction and operation in this same fashion for the MEIR (see table below).

²⁰ http://www.epa.gov/ttn/scram/guidance/guide/EPA-454R-92-019_OCR.pdf

The Maximum Exposed Individual at an Existing Residential Receptor (MEIR)		
Phase	Maximum Single Hour DPM Concentration ($\mu\text{g}/\text{m}^3$)	Annualized Average DPM Concentration ($\mu\text{g}/\text{m}^3$)
Phase 1 Construction	0.9871	0.0987
Phase 1 and 2 Construction	1.1170	0.1117
Phase 1 Operation & Phase 2 Construction	1.5080	0.1508
Phase 1 Operation; Phase 2 & 3 Construction	2.8310	0.2831
Phase 1 - 2 Operation; Phase 3 Construction	1.9100	0.1910
Phase 1 -3 Operation	0.8721	0.0872
Phase 1 - 3 Operation; Phase 4 Construction	1.9930	0.1993
Phase 1 - 4 Operation	1.3530	0.1353
Phase 1-4 Operation; Phase 5 Construction	1.5490	0.1549
Full Project Build Out	1.4590	0.1459

Exposure Assumptions

We calculated the excess cancer risk for each sensitive receptor location, for adults, children, and infant receptors using applicable HRA methodologies prescribed by OEHHA. As mentioned in the sections above, OEHHA recommends the use of ASFs to account for the heightened susceptibility of young children to the carcinogenic toxicity of air pollution.²¹ According to the revised guidance, quantified cancer risk should be multiplied by a factor of ten during the first two years of life (infant), and by a factor of three for the subsequent fourteen years of life (child aged two until sixteen). Furthermore, in accordance with guidance set forth by the BAAQMD and OEHHA, we used 95th percentile breathing rates for infants and 80th percentile breathing rates for children and adults.²² We used a cancer potency factor of $1.1 \text{ (mg/kg-day)}^{-1}$ and an averaging time of 25,550 days.

Health Risk at the Maximally Exposed Individual Receptor (MEIR)

OEHHA recommends that a 30-year exposure duration be used as the basis for estimating cancer risk at the MEIR.²³ Consistent with OEHHA guidance, exposure to the MEIR was assumed to begin in the infantile stage of life to provide the most conservative estimate of air quality hazards. The results of our calculations are shown below.

²¹ "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, available at: http://oehha.ca.gov/air/hot_spots/2015/2015GuidanceManual.pdf

²² "Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics 'Hot Spots' Information and Assessment Act," SCAQMD, June 5, 2015, available at: <http://www.aqmd.gov/docs/default-source/planning/risk-assessment/ab2588-risk-assessment-guidelines.pdf?sfvrsn=6>, p. 19

²³ "Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, available at: http://oehha.ca.gov/air/hot_spots/2015/2015GuidanceManual.pdf, p. 8-1.

The Maximum Exposed Individual at an Existing Residential Receptor (MEIR)

Activity	Duration (years)	Concentration (µg/m³)	Breathing Rate (L/kg-day)	ASF	Cancer Risk
Phase 1 Construction	0.75	0.09871	1090	10	1.22E-05
Phase 1 & 2 Construction	0.25	0.1117	1090	10	4.59E-06
Phase 1 Operation; Phase 2 Construction	0.50	0.1508	1090	10	1.24E-05
Phase 1 Operation; Phase 2 & 3 Construction	0.25	0.2831	1090	10	1.16E-05
Phase 1 - 2 Operation; Phase 3 Construction	0.25	0.191	1090	10	7.84E-06
Infant Exposure Duration	2.00			Infant Exposure	4.86E-05
Phase 1 - 2 Operation; Phase 3 Construction	0.50	0.191	572	3	2.47E-06
Phase 1 - 3 Operation	0.91	0.08721	572	3	2.05E-06
Phase 1 - 3 Operation; Phase 4 Construction	1.17	0.1993	572	3	6.03E-06
Phase 1 - 4 Operation	0.67	0.1353	572	3	2.34E-06
Phase 1 - 4 Operation; Phase 5 Construction	1.75	0.1549	572	3	7.01E-06
Full Project Build Out Operation	8.00	0.1459	572	3	3.02E-05
Child Exposure Duration	14.00			Child Exposure	5.01E-05
Full Project Build Out Operation	14.00	0.1459	261	1	8.03E-06
Adult Exposure Duration	14.00			Adult Exposure	8.03E-06
Lifetime Exposure Duration	30.00			Lifetime Exposure	1.07E-04

The excess cancer risk to adults, children, and infants at the MEIR located approximately 350 meters away, over the course of Project construction and operation are approximately 8, 50, and 49 in one million, respectively. Furthermore, the excess cancer risk over the course of a residential lifetime (30 years) at the MEIR is approximately 107 in one million. Consistent with OEHHA guidance, exposure was assumed to begin in the infantile stage of life to provide the most conservative estimates of air quality hazards. The infant, child, and lifetime cancer risks all exceed the BAAQMD's threshold of 10 in one million.

It should be noted that our analysis represents a screening-level HRA, which is known to be more conservative, and is aimed at health protection.²⁴ The purpose of a screening-HRA, however, is to determine if a more refined HRA needs to be conducted. If the results of a screening-level HRA are above applicable thresholds, then the Project needs to conduct a more refined HRA that is more representative of site specific concentrations. Our screening-level HRA demonstrates that construction and operation of the Project could result in a potentially significant health risk impact, when correct exposure assumptions and up-to-date, applicable guidance are used. As a result, a refined HRA must be prepared to examine air quality impacts generated by Project construction and operation using site-specific meteorology and specific equipment usage schedules. An updated DEIR must be prepared to

²⁴ http://oehha.ca.gov/air/hot_spots/2015/2015GuidanceManual.pdf p. 1-5

adequately evaluate the Project's health risk impact and should include additional mitigation measures to reduce these impacts to a less-than-significant level.²⁵

Mitigation Measures Available to Reduce Construction Emissions

Our updated air quality analysis and HRA demonstrate that, when Project activities are modeled correctly, construction-related NOx, DPM, and ROG emissions would result in significant air quality and health risk impacts. Therefore, mitigation measures must be identified and incorporated in an updated DEIR to reduce these impacts to a less than significant level.

Mitigation measures can be found in CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures*, which attempt to reduce GHG levels, as well as reduce Criteria Air Pollutants such as particulate matter and NOx.²⁶ DPM and NOx are a byproduct of diesel fuel combustion, and are emitted by on-road vehicles and by off-road construction equipment. Mitigation for criteria pollutant emissions should include consideration of the following measures in an effort to reduce construction emissions.

Limit Construction Equipment Idling Beyond Regulation Requirements

Heavy duty vehicles will idle during loading/unloading and during layovers or rest periods with the engine still on, which requires fuel use and results in emissions. The California Air Resources Board (CARB) Heavy-Duty Vehicle Idling Emissions Reduction Program limits idling of diesel-fueled commercial motor vehicles to five minutes. Reduction in idling time beyond the five minutes required under the regulation would further reduce fuel consumption and thus emissions. The Project applicant must develop an enforceable mechanism that monitors the idling time to ensure compliance with this mitigation measure.

Require Implementation of Diesel Control Measures

The Northeast Diesel Collaborative (NEDC) is a regionally coordinated initiative to reduce diesel emissions, improve public health, and promote clean diesel technology. The NEDC recommends that contracts for all construction projects require the following diesel control measures:²⁷

- All diesel onroad vehicles on site for more than 10 total days must have either (1) engines that meet EPA 2007 onroad emissions standards or (2) emission control technology verified by EPA²⁸ or the California Air Resources Board (CARB)²⁹ to reduce PM emissions by a minimum of 85 percent.
- All diesel generators on site for more than 10 total days must be equipped with emission control technology verified by EPA or CARB to reduce PM emissions by a minimum of 85 percent.

²⁵ See section titled "Feasible Mitigation Measures Available to Reduce Operational Emissions" on p. 21 of this letter. These measures would effectively reduce operational DPM emissions, as well as operational NOx and GHG emissions.

²⁶ <http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>

²⁷ Diesel Emission Controls in Construction Projects, *available*

at: <http://www2.epa.gov/sites/production/files/2015-09/documents/nedc-model-contract-sepcification.pdf>

²⁸ For EPA's list of verified technology: <http://www3.epa.gov/otag/diesel/verification/verif-list.htm>

²⁹ For CARB's list of verified technology: <http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm>

- All diesel nonroad construction equipment on site for more than 10 total days must have either (1) engines meeting EPA Tier 4 nonroad emission standards or (2) emission control technology verified by EPA or CARB for use with nonroad engines to reduce PM emissions by a minimum of 85 percent for engines 50 horse power (hp) and greater and by a minimum of 20 percent for engines less than 50 hp.
 - Mitigation Measure AIR-1.2 states that all mobile diesel-powered off-road equipment larger than 25 horsepower and that will be used for more than two days shall be equipped with Tier 4 engines or equivalent and shall include the use of CARB-certified Level 3 Diesel Particulate Filters (p. xi). We propose that this measure be extended so that all pieces of off-road construction equipment that the Project proposes to use be equipped with Tier 4 engines or equivalent.
- All diesel vehicles, construction equipment, and generators on site shall be fueled with ultra-low sulfur diesel fuel (ULSD) or a biodiesel blend³⁰ approved by the original engine manufacturer with sulfur content of 15 parts per million (ppm) or less.

Repower or Replace Older Construction Equipment Engines

The NEDC recognizes that availability of equipment that meets the EPA’s newer standards is limited.³¹ Due to this limitation, the NEDC proposes actions that can be taken to reduce emissions from existing equipment in the *Best Practices for Clean Diesel Construction* report.³² These actions include but are not limited to:

- Repowering equipment (i.e. replacing older engines with newer, cleaner engines and leaving the body of the equipment intact).

Engine repower may be a cost-effective emissions reduction strategy when a vehicle or machine has a long useful life and the cost of the engine does not approach the cost of the entire vehicle or machine. Examples of good potential replacement candidates include marine vessels, locomotives, and large construction machines.³³ Older diesel vehicles or machines can be repowered with newer diesel engines or in some cases with engines that operate on alternative fuels (see section “Use Alternative Fuels for Construction Equipment” for details). The original engine is taken out of service and a new engine with reduced emission characteristics is installed. Significant emission reductions can be achieved, depending on the newer engine and the vehicle or machine’s ability to accept a more modern engine and emission control system. It should be noted, however, that newer engines or higher tier engines are not necessarily cleaner engines, so it is important that the Project Applicant check the actual emission

³⁰ Biodiesel blends are only to be used in conjunction with the technologies which have been verified for use with biodiesel blends and are subject to the following requirements:

<http://www.arb.ca.gov/diesel/verdev/reg/biodieselcompliance.pdf>

³¹<http://northeastdiesel.org/pdf/BestPractices4CleanDieselConstructionAug2012.pdf>

³²<http://northeastdiesel.org/pdf/BestPractices4CleanDieselConstructionAug2012.pdf>

³³ Repair, Rebuild, and Repower, EPA, available at:<https://www.epa.gov/verified-diesel-tech/learn-about-verified-technologies-clean-diesel#repair>

standard level of the current (existing) and new engines to ensure the repower product is reducing emissions for DPM.³⁴

- Replacement of older equipment with equipment meeting the latest emission standards.

Engine replacement can include substituting a cleaner highway engine for a nonroad engine. Diesel equipment may also be replaced with other technologies or fuels. Examples include hybrid switcher locomotives, electric cranes, LNG, CNG, LPG or propane yard tractors, forklifts or loaders. Replacements using natural gas may require changes to fueling infrastructure.³⁵ Replacements often require some re-engineering work due to differences in size and configuration. Typically, there are benefits in fuel efficiency, reliability, warranty, and maintenance costs.³⁶

Install Retrofit Devices on Existing Construction Equipment

PM emissions from alternatively-fueled construction equipment can be further reduced by installing retrofit devices on existing and/or new equipment. The most common retrofit technologies are retrofit devices for engine exhaust after-treatment. These devices are installed in the exhaust system to reduce emissions and should not impact engine or vehicle operation.³⁷ It should be noted that actual emissions reductions and costs will depend on specific manufacturers, technologies and applications.

Implement a Construction Vehicle Inventory Tracking System

CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures*³⁸ report recommends that the Project Applicant provide a detailed plan that discusses a construction vehicle inventory tracking system to ensure compliance with construction mitigation measures. The system should include strategies such as requiring engine run time meters on equipment, documenting the serial number, horsepower, manufacture age, fuel, etc. of all onsite equipment and daily logging of the operating hours of the equipment. Specifically, for each onroad construction vehicle, nonroad construction equipment, or generator, the contractor should submit to the developer's representative a report prior to bringing said equipment on site that includes:³⁹

- Equipment type, equipment manufacturer, equipment serial number, engine manufacturer, engine model year, engine certification (Tier rating), horsepower, and engine serial number.
- The type of emission control technology installed, serial number, make, model, manufacturer, and EPA/CARB verification number/level.

³⁴ Diesel Emissions Reduction Program (DERA): Technologies, Fleets and Projects Information, *available at:* <http://www2.epa.gov/sites/production/files/2015-09/documents/420p11001.pdf>

³⁵ Alternative Fuel Conversion, EPA, *available at:* <https://www3.epa.gov/otaq/consumer/fuels/altfuels/altfuels.htm#fact>

³⁶ Cleaner Fuels, EPA, *available at:* <https://www.epa.gov/verified-diesel-tech/learn-about-verified-technologies-clean-diesel#cleaner>

³⁷ Retrofit Technologies, EPA, *available at:* <https://www.epa.gov/verified-diesel-tech/learn-about-verified-technologies-clean-diesel#retrofit>

³⁸ <http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>

³⁹ Diesel Emission Controls in Construction Projects, *available at:* <http://www2.epa.gov/sites/production/files/2015-09/documents/nedc-model-contract-sepcification.pdf>

- The Certification Statement⁴⁰ signed and printed on the contractor’s letterhead.

Furthermore, the contractor should submit to the developer’s representative a monthly report that, for each onroad construction vehicle, nonroad construction equipment, or generator onsite, includes:⁴¹

- Hour-meter readings on arrival on-site, the first and last day of every month, and on off-site date.
- Any problems with the equipment or emission controls.
- Certified copies of fuel deliveries for the time period that identify:
 - Source of supply
 - Quantity of fuel
 - Quality of fuel, including sulfur content (percent by weight).

In addition to these measures, we also recommend that the Applicant implement the following mitigation measures, called “Enhanced Exhaust Control Practices,”⁴² that are recommended by the Sacramento Metropolitan Air Quality Management District (SMAQMD):

1. The project representative shall submit to the lead agency a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 horsepower, that will be used an aggregate of 40 or more hours during any portion of the construction project.
 - The inventory shall include the horsepower rating, engine model year, and projected hours of use for each piece of equipment.
 - The project representative shall provide the anticipated construction timeline including start date, and name and phone number of the project manager and on-site foreman.
 - This information shall be submitted at least 4 business days prior to the use of subject heavy-duty off-road equipment.
 - The inventory shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs.
2. The project representative shall provide a plan for approval by the lead agency demonstrating that the heavy-duty off-road vehicles (50 horsepower or more) to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project wide fleet-average 20% NOX reduction and 45% particulate reduction compared to the most recent California Air Resources Board (ARB) fleet average.
 - This plan shall be submitted in conjunction with the equipment inventory.

⁴⁰ Diesel Emission Controls in Construction Projects, *available* at:<http://www2.epa.gov/sites/production/files/2015-09/documents/nedc-model-contract-sepcification.pdf> The NEDC Model Certification Statement can be found in Appendix A.

⁴¹ Diesel Emission Controls in Construction Projects, *available* at:<http://www2.epa.gov/sites/production/files/2015-09/documents/nedc-model-contract-sepcification.pdf>

⁴²http://www.airquality.org/ceqa/Ch3EnhancedExhaustControl_10-2013.pdf

- Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available.
 - The District’s Construction Mitigation Calculator can be used to identify an equipment fleet that achieves this reduction.
3. The project representative shall ensure that emissions from all off-road diesel-powered equipment used on the project site do not exceed 40% opacity for more than three minutes in any one hour.
 - Any equipment found to exceed 40 percent opacity (or Ringelmann 2.0) shall be repaired immediately. Non-compliant equipment will be documented and a summary provided to the lead agency monthly.
 - A visual survey of all in-operation equipment shall be made at least weekly.
 - A monthly summary of the visual survey results shall be submitted throughout the duration of the project, except that the monthly summary shall not be required for any 30-day period in which no construction activity occurs. The monthly summary shall include the quantity and type of vehicles surveyed as well as the dates of each survey.
 4. The District and/or other officials may conduct periodic site inspections to determine compliance. Nothing in this mitigation shall supersede other District, state or federal rules or regulations.

Furthermore, our air quality analysis demonstrates that operational ROG (also known as VOC) emissions will exceed BAAQMD average thresholds. In an effort to mitigate these measures, the following mitigation measures should be considered.

Use of Zero-VOC Emissions Paint

The Project Applicant should consider the use of low ROG coatings. The use of zero-VOC emission paint has been required for numerous projects that have undergone CEQA review. Zero-VOC emission paints are commercially available. Other low-VOC standards should be incorporated into mitigation including use of “super-compliant” paints, which have a VOC standard of less than 10 g/L.⁴³

Mitigation Measure AIR-2.2 states at least 50 percent of residential and nonresidential interior and exterior paints applied during both construction and reapplication must meet the “super-compliant” VOC standard and be less than 10 g/L (p. xi). We propose that this measure be extended so that all paints used during construction and reapplication meet the “super-compliant” VOC standard of less than 10 g/L.

Use of Material that Do Not Require Paint

Using materials that do not require painting is a common mitigation measure where VOC emissions are a concern. Interior and exterior surfaces, such as concrete, can be left unpainted.

⁴³ <http://www.aqmd.gov/home/programs/business/business-detail?title=super-compliant-coatings>

Use of Spray Equipment with Greater Transfer Efficiencies

Various coatings and adhesives are required to be applied by specified methods such as electrostatic spray, high-volume, low-pressure (HVLP) spray, roll coater, flow coater, dip coater, etc. in order to maximize the transfer efficiency. Transfer efficiency is typically defined as the ratio of the weight of coating solids adhering to an object to the total weight of coating solids used in the application process, expressed as a percentage. When it comes to spray applications, the rules typically require the use of either electrostatic spray equipment or HVLP spray equipment. The SCAQMD is now able to certify HVLP spray applicators and other application technologies at efficiency rates of 65 percent or greater.⁴⁴

These measures offer a cost-effective, feasible way to incorporate lower-emitting equipment into the Project's construction fleet, which subsequently reduces, ROG, NOx, DPM emissions released during Project construction. An updated DEIR must be prepared to include additional mitigation measures, as well as include an updated air quality assessment to ensure that the necessary mitigation measures are implemented to reduce construction emissions. Furthermore, the Project Applicant needs to demonstrate commitment to the implementation of these measures prior to Project approval to ensure that the Project's construction-related emissions are reduced to the maximum extent possible.

Greenhouse Gas

Failure to Implement All Feasible Mitigation to Reduce Emissions

The DEIR's GHG analysis determines that the Project's GHG emissions would exceed the thresholds set forth by the BAAQMD (p. 92). As a result, the DEIR proposes several mitigation measures to reduce the Project's GHG emissions (DEIR, pp. 15-17). However, even after implementation of mitigation, the DEIR concludes that Option 1 of the Project would result in a significant and unavoidable impact with respect to GHG emissions (p. 92). While it is true that the Project would result in significant GHG impacts under Option 1, the DEIR's conclusion that these impacts are "significant and unavoidable" is entirely incorrect. According to the California Environmental Quality Act (CEQA),

"CEQA requires Lead Agencies to mitigate or avoid significant environmental impacts associated with discretionary projects. Environmental documents for projects that have any significant environmental impacts must identify all feasible mitigation measures or alternatives to reduce the impacts below a level of significance. If after the identification of all feasible mitigation measures, a project is still deemed to have significant environmental impacts, the Lead Agency can approve a project, but must adopt a Statement of Overriding Consideration to explain why further mitigation measures are not feasible and why approval of a project with significant unavoidable impacts is warranted."⁴⁵

As you can see, an impact can only be labeled as significant and unavoidable after all available, feasible mitigation is considered. Review of the Project's proposed mitigation measures, however, demonstrates that not all feasible mitigation is being implemented. Therefore, the DEIR's conclusion that impacts are significant and unavoidable is unsubstantiated. As a result, additional mitigation measures should be

⁴⁴ <http://www.agmd.gov/home/permits/spray-equipment-transfer-efficiency>

⁴⁵ http://www.valleyair.org/transportation/GAMAQI_3-19-15.pdf, p. 115 of 125

identified and incorporated in order to reduce the Project's air quality impacts to the maximum extent possible. Until all feasible mitigation is reviewed and incorporated into the Project's design, impacts from GHG emissions cannot be considered as significant and unavoidable.

Feasible Mitigation Measures Available to Reduce Operational Emissions

Our analysis demonstrates that the Project's operational NOx, DPM, and GHG emissions may present a potentially significant impact. In an effort to reduce the Project's emissions, we identified several mitigation measures that are applicable to the Project. Feasible mitigation measures can be found in CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures*, which attempt to reduce GHG levels, as well as reduce criteria air pollutants such as particulate matter and NOx emissions.⁴⁶ Therefore, to reduce the Project's operational NOx, DPM, and GHG emissions, consideration of the following measures should be made.

- Incorporate Bike Lane Street Design (On-Site)
 - Incorporating bicycle lanes, routes, and shared-use paths into street systems, new subdivisions, and large developments can reduce VMTs. These improvements can help reduce peak-hour vehicle trips by making commuting by bike easier and more convenient for more people. In addition, improved bicycle facilities can increase access to and from transit hubs, thereby expanding the "catchment area" of the transit stop or station and increasing ridership. Bicycle access can also reduce parking pressure on heavily-used and/or heavily-subsidized feeder bus lines and auto-oriented park-and-ride facilities.
- Limit Parking Supply
 - This mitigation measure will change parking requirements and types of supply within the Project site to encourage "smart growth" development and alternative transportation choices by project residents and employees. This can be accomplished in a multi-faceted strategy:
 - Elimination (or reduction) of minimum parking requirements
 - Creation of maximum parking requirements
 - Provision of shared parking
- Implement Commute Trip Reduction Program- Voluntary or Required
 - Implementation of a Commute Trip Reduction (CTR) program with employers will discourage single-occupancy vehicle trips and encourage alternative modes of transportation such as carpooling, taking transit, walking, and biking. The main difference between a voluntary and a required program is:
 - Monitoring and reporting is not required
 - No established performance standards (i.e. no trip reduction requirements)
 - The CTR program should provide employees with assistance in using alternative modes of travel, and provide both "carrots" and "sticks" to encourage employees. The CTR

⁴⁶ <http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>

program should include all of the following to apply the effectiveness reported by the literature:

- Carpooling encouragement
 - Ride-matching assistance
 - Preferential carpool parking
 - Flexible work schedules for carpools
 - Half time transportation coordinator
 - Vanpool assistance
 - Bicycle end-trip facilities (parking, showers and lockers)
- Provide Ride-Sharing Programs
 - Increasing the vehicle occupancy by ride sharing will result in fewer cars driving the same trip, and thus a decrease in VMT. The project should include a ride-sharing program as well as a permanent transportation management association membership and funding requirement. The project can promote ride-sharing programs through a multi-faceted approach such as:
 - Designating a certain percentage of parking spaces for ride sharing vehicles
 - Designating adequate passenger loading and unloading and waiting areas for ride-sharing vehicles
 - Providing a web site or message board for coordinating rides
 - Implement Subsidized or Discounted Transit Program
 - This project can provide subsidized/discounted daily or monthly public transit passes to incentivize the use of public transport. The project may also provide free transfers between all shuttles and transit to participants. These passes can be partially or wholly subsidized by the employer, school, or development. Many entities use revenue from parking to offset the cost of such a project.
 - Implement Preferential Parking Permit Program
 - The project can provide preferential parking in convenient locations (such as near public transportation or building front doors) in terms of free or reduced parking fees, priority parking, or reserved parking for commuters who carpool, vanpool, ride-share or use alternatively fueled vehicles. The project should provide wide parking spaces to accommodate vanpool vehicles.
 - Price Workplace Parking
 - The project should implement workplace parking pricing at its employment centers. This may include: explicitly charging for parking for its employees, implementing above market rate pricing, validating parking only for invited guests, not providing employee parking and transportation allowances, and educating employees about available alternatives.
 - Though similar to the Employee Parking “Cash-Out” strategy, this strategy focuses on implementing market rate and above market rate pricing to provide a price signal for employees to consider alternative modes for their work commute.
 - Implement Employee Parking "Cash-Out"

- The project can require employers to offer employee parking “cash-out.” The term “cash-out” is used to describe the employer providing employees with a choice of forgoing their current subsidized/free parking for a cash payment equivalent to the cost of the parking space to the employer.

We also identified several mitigation measures that the DEIR fails to incorporate, which would further reduce the Project’s GHG emissions, potentially to a less-than-significant level. Additional mitigation measures that could be implemented to reduce GHG emissions include, but are not limited to, the following:⁴⁷

- Use passive solar design, such as:^{48,49}
 - Orient buildings and incorporate landscaping to maximize passive solar, heating during cool seasons, and minimize solar heat gain during hot seasons.
- Reduce unnecessary outdoor lighting by utilizing design features such as limiting the hours of operation of outdoor lighting.
- Develop and follow a “green streets guide” that requires:
 - Use of minimal amounts of concrete and asphalt;
 - Use of groundcovers rather than pavement to reduce heat reflection.⁵⁰
- Implement Project design features such as:
 - Shade HVAC equipment from direct sunlight;
 - Install high-albedo white thermoplastic polyolefin roof membrane;
 - Install high-efficiency HVAC with hot-gas reheat;
 - Install formaldehyde-free insulation; and
 - Use recycled-content gypsum board.
- Provide education on energy efficiency to residents, customers, and/or tenants. Provide information on energy management services for large energy users.
- Meet “reach” goals for building energy efficiency and renewable energy use.
- Require all buildings to become “LEED” certified.
- Limit the use of outdoor lighting to only that needed for safety and security purposes.
- Require use of electric or alternatively fueled sweepers with HEPA filters.
- Include energy storage where appropriate to optimize renewable energy generation systems and avoid peak energy use.
- Plant low-VOC emitting shade trees, e.g., in parking lots to reduce evaporative emissions from parked vehicles.
- Install an infiltration basin to provide an opportunity for 100% of the storm water to infiltrate on-site.

⁴⁷ http://ag.ca.gov/globalwarming/pdf/GW_mitigation_measures.pdf

⁴⁸ Santa Barbara Air Pollution Control District, Scope and Content of Air Quality Sections in Environmental Documents, September 1997.

⁴⁹ Butte County Air Quality Management District, Indirect Source Review Guidelines, March 1997.

⁵⁰ Cool Houston Plan;

http://www.harcresearch.org/sites/default/files/documents/projects/CoolHoustonPlan_0.pdf

Finally, the Kimball Business Park Project Final Environmental Impact Report includes various feasible mitigation measures that would reduce on-site area emissions that are applicable to the proposed Project's retail land use, and include, but are not limited to:⁵¹

- Increase in insulation such that heat transfer and thermal bridging is minimized.
- Limit air leakage through the structure and/or within the heating and cooling distribution system.
- Installation of dual-paned or other energy efficient windows.
- Installation of automatic devices to turn off lights where they are not needed.

When combined, these measures offer a cost-effective, feasible way to incorporate lower-emitting design features into the proposed Project, which subsequently, reduces emissions released during Project operation. An updated DEIR must be prepared to include mitigation measures, as well as include an updated air quality analysis to ensure that the necessary mitigation measures are implemented to reduce operational NOx, DPM, and GHG emissions to below thresholds. The Project Applicant also needs to demonstrate commitment to the implementation of these measures prior to Project approval, to ensure that the Project's operational significant emissions are reduced to the maximum extent possible.

Sincerely,



Matt Hagemann, P.G., C.Hg.



Hadley Nolan

⁵¹ Mitigation Monitoring Plan for the Kimball Business Park Project Final Environmental Impact Report, July 2016.

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Matthew F. Hagemann, P.G., C.Hg., QSD, QSP

**Geologic and Hydrogeologic Characterization
Investigation and Remediation Strategies
Litigation Support and Testifying Expert
Industrial Stormwater Compliance
CEQA Review**

Education:

M.S. Degree, Geology, California State University Los Angeles, Los Angeles, CA, 1984.

B.A. Degree, Geology, Humboldt State University, Arcata, CA, 1982.

Professional Certifications:

California Professional Geologist

California Certified Hydrogeologist

Qualified SWPPP Developer and Practitioner

Professional Experience:

Matt has 30 years of experience in environmental policy, contaminant assessment and remediation, stormwater compliance, and CEQA review. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Matt also served as a Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closure. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) and directed efforts to improve hydrogeologic characterization and water quality monitoring. For the past 15 years, as a founding partner with SWAPE, Matt has developed extensive client relationships and has managed complex projects that include consultation as an expert witness and a regulatory specialist, and a manager of projects ranging from industrial stormwater compliance to CEQA review of impacts from hazardous waste, air quality and greenhouse gas emissions.

Positions Matt has held include:

- Founding Partner, Soil/Water/Air Protection Enterprise (SWAPE) (2003 – present);
- Geology Instructor, Golden West College, 2010 – 2014, 2017;
- Senior Environmental Analyst, Komex H2O Science, Inc. (2000 -- 2003);

- Executive Director, Orange Coast Watch (2001 – 2004);
- Senior Science Policy Advisor and Hydrogeologist, U.S. Environmental Protection Agency (1989–1998);
- Hydrogeologist, National Park Service, Water Resources Division (1998 – 2000);
- Adjunct Faculty Member, San Francisco State University, Department of Geosciences (1993 – 1998);
- Instructor, College of Marin, Department of Science (1990 – 1995);
- Geologist, U.S. Forest Service (1986 – 1998); and
- Geologist, Dames & Moore (1984 – 1986).

Senior Regulatory and Litigation Support Analyst:

With SWAPE, Matt’s responsibilities have included:

- Lead analyst and testifying expert in the review of over 300 environmental impact reports and negative declarations since 2003 under CEQA that identify significant issues with regard to hazardous waste, water resources, water quality, air quality, greenhouse gas emissions, and geologic hazards. Make recommendations for additional mitigation measures to lead agencies at the local and county level to include additional characterization of health risks and implementation of protective measures to reduce worker exposure to hazards from toxins and Valley Fever.
- Stormwater analysis, sampling and best management practice evaluation at more than 100 industrial facilities.
- Expert witness on numerous cases including, for example, MTBE litigation, air toxins at hazards at a school, CERCLA compliance in assessment and remediation, and industrial stormwater contamination.
- Technical assistance and litigation support for vapor intrusion concerns.
- Lead analyst and testifying expert in the review of environmental issues in license applications for large solar power plants before the California Energy Commission.
- Manager of a project to evaluate numerous formerly used military sites in the western U.S.
- Manager of a comprehensive evaluation of potential sources of perchlorate contamination in Southern California drinking water wells.
- Manager and designated expert for litigation support under provisions of Proposition 65 in the review of releases of gasoline to sources drinking water at major refineries and hundreds of gas stations throughout California.

With Komex H2O Science Inc., Matt’s duties included the following:

- Senior author of a report on the extent of perchlorate contamination that was used in testimony by the former U.S. EPA Administrator and General Counsel.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of MTBE use, research, and regulation.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of perchlorate use, research, and regulation.
- Senior researcher in a study that estimates nationwide costs for MTBE remediation and drinking water treatment, results of which were published in newspapers nationwide and in testimony against provisions of an energy bill that would limit liability for oil companies.
- Research to support litigation to restore drinking water supplies that have been contaminated by MTBE in California and New York.

- Expert witness testimony in a case of oil production-related contamination in Mississippi.
- Lead author for a multi-volume remedial investigation report for an operating school in Los Angeles that met strict regulatory requirements and rigorous deadlines.
- Development of strategic approaches for cleanup of contaminated sites in consultation with clients and regulators.

Executive Director:

As Executive Director with Orange Coast Watch, Matt led efforts to restore water quality at Orange County beaches from multiple sources of contamination including urban runoff and the discharge of wastewater. In reporting to a Board of Directors that included representatives from leading Orange County universities and businesses, Matt prepared issue papers in the areas of treatment and disinfection of wastewater and control of the discharge of grease to sewer systems. Matt actively participated in the development of countywide water quality permits for the control of urban runoff and permits for the discharge of wastewater. Matt worked with other nonprofits to protect and restore water quality, including Surfrider, Natural Resources Defense Council and Orange County CoastKeeper as well as with business institutions including the Orange County Business Council.

Hydrogeology:

As a Senior Hydrogeologist with the U.S. Environmental Protection Agency, Matt led investigations to characterize and cleanup closing military bases, including Mare Island Naval Shipyard, Hunters Point Naval Shipyard, Treasure Island Naval Station, Alameda Naval Station, Moffett Field, Mather Army Airfield, and Sacramento Army Depot. Specific activities were as follows:

- Led efforts to model groundwater flow and contaminant transport, ensured adequacy of monitoring networks, and assessed cleanup alternatives for contaminated sediment, soil, and groundwater.
- Initiated a regional program for evaluation of groundwater sampling practices and laboratory analysis at military bases.
- Identified emerging issues, wrote technical guidance, and assisted in policy and regulation development through work on four national U.S. EPA workgroups, including the Superfund Groundwater Technical Forum and the Federal Facilities Forum.

At the request of the State of Hawaii, Matt developed a methodology to determine the vulnerability of groundwater to contamination on the islands of Maui and Oahu. He used analytical models and a GIS to show zones of vulnerability, and the results were adopted and published by the State of Hawaii and County of Maui.

As a hydrogeologist with the EPA Groundwater Protection Section, Matt worked with provisions of the Safe Drinking Water Act and NEPA to prevent drinking water contamination. Specific activities included the following:

- Received an EPA Bronze Medal for his contribution to the development of national guidance for the protection of drinking water.
- Managed the Sole Source Aquifer Program and protected the drinking water of two communities through designation under the Safe Drinking Water Act. He prepared geologic reports, conducted

public hearings, and responded to public comments from residents who were very concerned about the impact of designation.

- Reviewed a number of Environmental Impact Statements for planned major developments, including large hazardous and solid waste disposal facilities, mine reclamation, and water transfer.

Matt served as a hydrogeologist with the RCRA Hazardous Waste program. Duties were as follows:

- Supervised the hydrogeologic investigation of hazardous waste sites to determine compliance with Subtitle C requirements.
- Reviewed and wrote "part B" permits for the disposal of hazardous waste.
- Conducted RCRA Corrective Action investigations of waste sites and led inspections that formed the basis for significant enforcement actions that were developed in close coordination with U.S. EPA legal counsel.
- Wrote contract specifications and supervised contractor's investigations of waste sites.

With the National Park Service, Matt directed service-wide investigations of contaminant sources to prevent degradation of water quality, including the following tasks:

- Applied pertinent laws and regulations including CERCLA, RCRA, NEPA, NRDA, and the Clean Water Act to control military, mining, and landfill contaminants.
- Conducted watershed-scale investigations of contaminants at parks, including Yellowstone and Olympic National Park.
- Identified high-levels of perchlorate in soil adjacent to a national park in New Mexico and advised park superintendent on appropriate response actions under CERCLA.
- Served as a Park Service representative on the Interagency Perchlorate Steering Committee, a national workgroup.
- Developed a program to conduct environmental compliance audits of all National Parks while serving on a national workgroup.
- Co-authored two papers on the potential for water contamination from the operation of personal watercraft and snowmobiles, these papers serving as the basis for the development of nationwide policy on the use of these vehicles in National Parks.
- Contributed to the Federal Multi-Agency Source Water Agreement under the Clean Water Action Plan.

Policy:

Served senior management as the Senior Science Policy Advisor with the U.S. Environmental Protection Agency, Region 9.

Activities included the following:

- Advised the Regional Administrator and senior management on emerging issues such as the potential for the gasoline additive MTBE and ammonium perchlorate to contaminate drinking water supplies.
- Shaped EPA's national response to these threats by serving on workgroups and by contributing to guidance, including the Office of Research and Development publication, *Oxygenates in Water: Critical Information and Research Needs*.
- Improved the technical training of EPA's scientific and engineering staff.
- Earned an EPA Bronze Medal for representing the region's 300 scientists and engineers in negotiations with the Administrator and senior management to better integrate scientific

principles into the policy-making process.

- Established national protocol for the peer review of scientific documents.

Geology:

With the U.S. Forest Service, Matt led investigations to determine hillslope stability of areas proposed for timber harvest in the central Oregon Coast Range. Specific activities were as follows:

- Mapped geology in the field, and used aerial photographic interpretation and mathematical models to determine slope stability.
- Coordinated his research with community members who were concerned with natural resource protection.
- Characterized the geology of an aquifer that serves as the sole source of drinking water for the city of Medford, Oregon.

As a consultant with Dames and Moore, Matt led geologic investigations of two contaminated sites (later listed on the Superfund NPL) in the Portland, Oregon, area and a large hazardous waste site in eastern Oregon. Duties included the following:

- Supervised year-long effort for soil and groundwater sampling.
- Conducted aquifer tests.
- Investigated active faults beneath sites proposed for hazardous waste disposal.

Teaching:

From 1990 to 1998, Matt taught at least one course per semester at the community college and university levels:

- At San Francisco State University, held an adjunct faculty position and taught courses in environmental geology, oceanography (lab and lecture), hydrogeology, and groundwater contamination.
- Served as a committee member for graduate and undergraduate students.
- Taught courses in environmental geology and oceanography at the College of Marin.

Matt is currently a part time geology instructor at Golden West College in Huntington Beach, California where he taught from 2010 to 2014 and in 2017.

Invited Testimony, Reports, Papers and Presentations:

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Presentation to the Public Environmental Law Conference, Eugene, Oregon.

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Invited presentation to U.S. EPA Region 9, San Francisco, California.

Hagemann, M.F., 2005. Use of Electronic Databases in Environmental Regulation, Policy Making and Public Participation. Brownfields 2005, Denver, Colorado.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Nevada and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Las Vegas, NV (served on conference organizing committee).

Hagemann, M.F., 2004. Invited testimony to a California Senate committee hearing on air toxins at schools in Southern California, Los Angeles.

Brown, A., Farrow, J., Gray, A. and **Hagemann, M.**, 2004. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to the Ground Water and Environmental Law Conference, National Groundwater Association.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Arizona and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Phoenix, AZ (served on conference organizing committee).

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in the Southwestern U.S. Invited presentation to a special committee meeting of the National Academy of Sciences, Irvine, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a tribal EPA meeting, Pechanga, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a meeting of tribal representatives, Parker, AZ.

Hagemann, M.F., 2003. Impact of Perchlorate on the Colorado River and Associated Drinking Water Supplies. Invited presentation to the Inter-Tribal Meeting, Torres Martinez Tribe.

Hagemann, M.F., 2003. The Emergence of Perchlorate as a Widespread Drinking Water Contaminant. Invited presentation to the U.S. EPA Region 9.

Hagemann, M.F., 2003. A Deductive Approach to the Assessment of Perchlorate Contamination. Invited presentation to the California Assembly Natural Resources Committee.

Hagemann, M.F., 2003. Perchlorate: A Cold War Legacy in Drinking Water. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. From Tank to Tap: A Chronology of MTBE in Groundwater. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. A Chronology of MTBE in Groundwater and an Estimate of Costs to Address Impacts to Groundwater. Presentation to the annual meeting of the Society of Environmental Journalists.

Hagemann, M.F., 2002. An Estimate of the Cost to Address MTBE Contamination in Groundwater (and Who Will Pay). Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to a meeting of the U.S. EPA and State Underground Storage Tank Program managers.

Hagemann, M.F., 2001. From Tank to Tap: A Chronology of MTBE in Groundwater. Unpublished report.

Hagemann, M.F., 2001. Estimated Cleanup Cost for MTBE in Groundwater Used as Drinking Water. Unpublished report.

Hagemann, M.F., 2001. Estimated Costs to Address MTBE Releases from Leaking Underground Storage Tanks. Unpublished report.

Hagemann, M.F., and VanMouwerik, M., 1999. Potential Water Quality Concerns Related to Snowmobile Usage. Water Resources Division, National Park Service, Technical Report.

VanMouwerik, M. and **Hagemann, M.F.** 1999, Water Quality Concerns Related to Personal Watercraft Usage. Water Resources Division, National Park Service, Technical Report.

Hagemann, M.F., 1999, Is Dilution the Solution to Pollution in National Parks? The George Wright Society Biannual Meeting, Asheville, North Carolina.

Hagemann, M.F., 1997, The Potential for MTBE to Contaminate Groundwater. U.S. EPA Superfund Groundwater Technical Forum Annual Meeting, Las Vegas, Nevada.

Hagemann, M.F., and Gill, M., 1996, Impediments to Intrinsic Remediation, Moffett Field Naval Air Station, Conference on Intrinsic Remediation of Chlorinated Hydrocarbons, Salt Lake City.

Hagemann, M.F., Fukunaga, G.L., 1996, The Vulnerability of Groundwater to Anthropogenic Contaminants on the Island of Maui, Hawaii. Hawaii Water Works Association Annual Meeting, Maui, October 1996.

Hagemann, M. F., Fukunaga, G. L., 1996, Ranking Groundwater Vulnerability in Central Oahu, Hawaii. Proceedings, Geographic Information Systems in Environmental Resources Management, Air and Waste Management Association Publication VIP-61.

Hagemann, M.F., 1994. Groundwater Characterization and Clean up at Closing Military Bases in California. Proceedings, California Groundwater Resources Association Meeting.

Hagemann, M.F. and Sabol, M.A., 1993. Role of the U.S. EPA in the High Plains States Groundwater Recharge Demonstration Program. Proceedings, Sixth Biennial Symposium on the Artificial Recharge of Groundwater.

Hagemann, M.F., 1993. U.S. EPA Policy on the Technical Impracticability of the Cleanup of DNAPL-contaminated Groundwater. California Groundwater Resources Association Meeting.

Hagemann, M.F., 1992. Dense Nonaqueous Phase Liquid Contamination of Groundwater: An Ounce of Prevention... Proceedings, Association of Engineering Geologists Annual Meeting, v. 35.

Other Experience:

Selected as subject matter expert for the California Professional Geologist licensing examinations, 2009-2011.

HADLEY KATHRYN NOLAN



Technical Consultation, Data Analysis and
Litigation Support for the Environment

SOIL WATER AIR PROTECTION ENTERPRISE

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EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES B.S. ENVIRONMENTAL SCIENCES & ENVIRONMENTAL SYSTEMS AND SOCIETY JUNE 2016

PROJECT EXPERIENCE

SOIL WATER AIR PROTECTION ENTERPRISE

SANTA MONICA, CA

AIR QUALITY SPECIALIST

SENIOR PROJECT ANALYST: CEQA ANALYSIS & MODELING

- Modeled construction and operational activities for proposed land use projects using CalEEMod to quantify criteria air pollutant and greenhouse gas (GHG) emissions.
- Organized presentations containing figures and tables that compare results of criteria air pollutant analyses to thresholds.
- Quantified ambient air concentrations at sensitive receptor locations using AERSCREEN, a U.S. EPA recommended screening level dispersion model.
- Conducted construction and operational health risk assessments for residential, worker, and school children sensitive receptors.
- Prepared reports that discuss adequacy of air quality and health risk analyses conducted for proposed land use developments subject to CEQA review by verifying compliance with local, state, and regional regulations.

SENIOR PROJECT ANALYST: GREENHOUSE GAS MODELING AND DETERMINATION OF SIGNIFICANCE

- Evaluated environmental impact reports for proposed projects to identify discrepancies with the methods used to quantify and assess GHG impacts.
- Quantified GHG emissions for proposed projects using CalEEMod to produce reports, tables, and figures that compare emissions to applicable CEQA thresholds and reduction targets.
- Determined compliance of proposed land use developments with AB 32 GHG reduction targets, with GHG significance thresholds recommended by Air Quality Management Districts in California, and with guidelines set forth by CEQA.

PROJECT ANALYST: ASSESSMENT OF AIR QUALITY IMPACTS FROM PROPOSED DIRECT TRANSFER FACILITY

- Assessed air quality impacts resulting from implementation of a proposed Collection Service Agreement for Exclusive Residential and Commercial Garbage, Recyclable Materials, and Organic Waste Collection Services for a community.
- Organized tables and maps to demonstrate potential air quality impacts resulting from proposed hauling trip routes.
- Conducted air quality analyses that compared quantified criteria air pollutant emissions released during construction of direct transfer facility to the Bay Area Air Quality Management District's (BAAQMD) significance thresholds.
- Prepared final analytical report to demonstrate local and regional air quality impacts, as well as GHG impacts.

PROJECT ANALYST: EXPOSURE ASSESSMENT OF LEAD PRODUCTS FOR PROPOSITION 65 COMPLIANCE DETERMINATION

- Calculated human exposure and lifetime health risk for over 300 lead products undergoing Proposition 65 compliance review.
- Compiled and analyzed laboratory testing data and produced tables, charts, and graphs to exhibit emission levels.
- Compared finalized testing data to Proposition 65 Maximum Allowable Dose Levels (MADLs) to determine level of compliance.
- Prepared final analytical lead exposure Certificate of Merit (COM) reports and organized supporting data for use in environmental enforcement statute Proposition 65 cases.

ACCOMPLISHMENTS

- **Academic Honoree**, Dean's List, University of California, Los Angeles

MAR 2013, MAR 2014, JAN 2015, JAN 2016

phase1construction.log

Start date and time 05/16/18 17:00:33

AERSCREEN 16216

Gateway Crossings Phase 1 Construction

Gateway Crossings Phase 1 Construction

----- DATA ENTRY VALIDATION -----

METRIC ENGLISH

** AREADATA ** -----

Emission Rate:	0.464E-02 g/s	0.368E-01 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Vertical Dimension:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Population:	125948	
Dist to Ambient Air:	1.0 meters	3. feet

** BUILDING DATA **

No Building Downwash Parameters

** TERRAIN DATA **

No Terrain Elevations

Source Base Elevation: 0.0 meters 0.0 feet

phase1construction.log

Probe distance: 5000. meters 16404. feet

No flagpole receptors

No discrete receptors used

** FUMIGATION DATA **

No fumigation requested

** METEOROLOGY DATA **

Min/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Minimum Wind Speed: 0.5 m/s

Anemometer Height: 10.000 meters

Dominant Surface Profile: Urban

Dominant Climate Type: Average Moisture

Surface friction velocity (u*): not adjusted

DEBUG OPTION OFF

AERSCREEN output file:

phase1construction.out phase1construction.log

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 05/16/18 17:02:23

phase1construction.log

Running AERMOD

Processing Winter

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 10

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 4 phase1construction.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 15

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 20

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 25

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 30

***** WARNING MESSAGES *****

*** NONE ***

phase1construction.log

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 35

```
***** WARNING MESSAGES *****  
*** NONE ***
```

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 40

```
***** WARNING MESSAGES *****  
*** NONE ***
```

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 45

```
***** WARNING MESSAGES *****  
*** NONE ***
```

Running AERMOD

Processing Spring

Processing surface roughness sector 1

Processing wind flow sector 1

phase1construction.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

phase1constructi on. l og

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 20

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 25

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 30

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 35

***** WARNI NG MESSAGES *****

*** NONE ***

Processing wind flow sector 9 phase1construction.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 45

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD

Processing Summer

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

phase1construction.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

phase1construction.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

phase1construction.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 45

***** WARNING MESSAGES *****

*** NONE ***

Running AERMOD

Processing Autumn

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 3

phase1constructi on. l og
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

phase1construction.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 30

```
***** WARNING MESSAGES *****  
*** NONE ***
```

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 35

```
***** WARNING MESSAGES *****  
*** NONE ***
```

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 40

```
***** WARNING MESSAGES *****  
*** NONE ***
```

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 45

```
***** WARNING MESSAGES *****  
*** NONE ***
```

FLOWSECTOR ended 05/16/18 17:03:08

REFINE started 05/16/18 17:03:08 phase1construction.log

AERMOD Finishes Successfully for REFINE stage 3 Winter sector 0

***** WARNING MESSAGES *****

*** NONE ***

REFINE ended 05/16/18 17:03:12

AERSCREEN Finished Successfully

With no errors or warnings

Check log file for details

Ending date and time 05/16/18 17:03:12

phase1construction_max_conc_distance.txt													
Concentration		Distance		Elevation		Diag		Season/Month		Zosector		Date	
HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-0	LEN	ZO	BOWEN	ALBEDO	REF	WS	HT
REF	TA	HT											
	0.16563E+01		1.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.17312E+01		25.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.18104E+01		50.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.18848E+01		75.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.19551E+01		100.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.20217E+01		125.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.20852E+01		150.00	0.00	35.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.21456E+01		175.00	0.00	35.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
*	0.22033E+01		200.00	0.00	35.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.20148E+01		225.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.15956E+01		250.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.13856E+01		275.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.12182E+01		300.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.10888E+01		325.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.98708E+00		350.01	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.90463E+00		375.01	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.83616E+00		400.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.77826E+00		425.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.72831E+00		450.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.68461E+00		475.00	0.00	40.0			Winter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												

```

phase1construction_max_conc_distance.txt
0.64599E+00 500.00 0.00 40.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.61145E+00 525.00 0.00 40.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.58060E+00 550.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.55268E+00 575.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.52727E+00 600.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.50397E+00 625.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.48242E+00 650.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.46248E+00 675.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.44407E+00 700.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.42689E+00 725.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.41097E+00 750.00 0.00 30.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.39615E+00 775.00 0.00 30.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.38205E+00 800.00 0.00 30.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.36886E+00 825.00 0.00 25.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.35651E+00 850.00 0.00 25.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.34486E+00 875.00 0.00 25.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.33388E+00 900.00 0.00 25.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.32353E+00 925.00 0.00 15.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.31370E+00 950.00 0.00 15.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.30439E+00 975.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.29557E+00 1000.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0

```

phase1construction_max_conc_distance.txt

0.28714E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27908E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27149E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.26417E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.25715E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.25057E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.24419E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23799E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23216E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22660E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22114E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21591E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21100E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20626E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20165E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19717E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19289E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18879E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18482E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18100E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17729E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1construction_max_conc_distance.txt

0.17372E+00	1550.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17031E+00	1575.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16696E+00	1600.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16373E+00	1625.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16061E+00	1650.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15760E+00	1675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15469E+00	1700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15184E+00	1725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14910E+00	1750.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14643E+00	1775.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14385E+00	1800.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14136E+00	1825.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13894E+00	1850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13660E+00	1875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13431E+00	1900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13207E+00	1924.99	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12991E+00	1950.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12781E+00	1975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12577E+00	2000.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12377E+00	2025.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12183E+00	2050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1construction_max_conc_distance.txt

0.11995E+00	2075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11813E+00	2100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11636E+00	2125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11462E+00	2150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11291E+00	2175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11126E+00	2200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10964E+00	2225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10807E+00	2250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10654E+00	2275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10505E+00	2300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10359E+00	2325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10215E+00	2350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10074E+00	2375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.99372E-01	2400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.98044E-01	2425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.96747E-01	2450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.95482E-01	2475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.94238E-01	2500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.93021E-01	2525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.91828E-01	2550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.90660E-01	2575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

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phase1construction_max_conc_distance.txt
0.89518E-01 2600.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.88402E-01 2625.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.87310E-01 2650.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.86243E-01 2675.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.85203E-01 2700.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.84186E-01 2725.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.83191E-01 2750.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.82216E-01 2775.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.81261E-01 2800.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.80317E-01 2825.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.79392E-01 2850.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.78486E-01 2875.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.77598E-01 2900.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.76728E-01 2925.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.75875E-01 2950.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.75039E-01 2975.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.74214E-01 3000.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.73400E-01 3025.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.72602E-01 3050.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.71819E-01 3075.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
0.71051E-01 3100.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0

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phase1construction_max_conc_distance.txt
 0.70301E-01 3125.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.69567E-01 3150.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.68847E-01 3174.99 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.68140E-01 3199.99 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.67447E-01 3225.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.66763E-01 3250.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.66090E-01 3275.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.65428E-01 3300.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.64779E-01 3325.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.64141E-01 3350.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.63513E-01 3375.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.62892E-01 3400.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.62279E-01 3425.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.61677E-01 3450.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.61086E-01 3475.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.60510E-01 3500.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.59942E-01 3525.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.59383E-01 3550.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.58832E-01 3575.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.58290E-01 3600.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.57756E-01 3625.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0

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phase1construction_max_conc_distance.txt
 0.57231E-01 3650.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.56715E-01 3675.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.56210E-01 3700.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.55712E-01 3725.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.55222E-01 3750.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.54740E-01 3775.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.54265E-01 3800.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.53797E-01 3825.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.53337E-01 3850.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.52883E-01 3875.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.52433E-01 3900.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.51989E-01 3925.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.51551E-01 3950.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.51119E-01 3975.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.50694E-01 4000.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.50275E-01 4025.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.49863E-01 4050.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.49455E-01 4075.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.49049E-01 4100.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.48650E-01 4125.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.48255E-01 4150.00 0.00 0.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0

```

phase1construction_max_conc_distance.txt

0.47867E-01	4175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47484E-01	4200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47106E-01	4225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46734E-01	4250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46366E-01	4275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46004E-01	4300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.45649E-01	4325.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.45298E-01	4350.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.44951E-01	4375.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.44608E-01	4400.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.44270E-01	4425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.43940E-01	4449.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.43614E-01	4475.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.43290E-01	4500.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.42971E-01	4525.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.42656E-01	4550.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.42345E-01	4575.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.42038E-01	4600.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.41733E-01	4625.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.41432E-01	4650.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.41135E-01	4675.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

```

phase1construction_max_conc_distance.txt
  0. 40841E-01      4700.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 40551E-01      4725.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 40265E-01      4750.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 39982E-01      4775.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 39703E-01      4800.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 39426E-01      4825.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 39153E-01      4850.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 38883E-01      4875.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 38616E-01      4900.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 38353E-01      4925.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 38092E-01      4950.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 37835E-01      4975.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0. 37581E-01      5000.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.          6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0

```

phase1&2constructi on. l og

Start date and time 05/16/18 17:04:09

AERSCREEN 16216

Gateway Crossings Phase 1 and 2 Constructi on

----- DATA ENTRY VALI DATI ON -----

METRI C ENGLI SH

** AREADATA ** -----

Emission Rate:	0.525E-02 g/s	0.417E-01 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Vertical Dimension:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Population:	125948	
Dist to Ambient Air:	1.0 meters	3. feet

** BUILDING DATA **

No Building Downwash Parameters

** TERRAIN DATA **

No Terrain Elevations

Source Base Elevation:	0.0 meters	0.0 feet
------------------------	------------	----------

Probe distance:	5000. meters	16404. feet
-----------------	--------------	-------------

phase1&2construction.log

No flagpole receptors

No discrete receptors used

** FUMIGATION DATA **

No fumigation requested

** METEOROLOGY DATA **

Min/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Minimum Wind Speed: 0.5 m/s

Anemometer Height: 10.000 meters

Dominant Surface Profile: Urban

Dominant Climate Type: Average Moisture

Surface friction velocity (u^*): not adjusted

DEBUG OPTION OFF

AERSCREEN output file:

phase1&2construction.out

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 05/16/18 17:04:57

phase1&2construction.log

Processing Winter

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 10

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 4

phase1&2constructi on. l og
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

phase1&2construction.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 45

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD

Processing Spring

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 0

phase1&2construction.log

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 20

phase1&2construction.log

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 25

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 30

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 35

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 9

phase1&2construction.log
AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 45

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD

Processing Summer

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 5

phase1&2construction.log

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 25

phase1&2construction.log

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 45

phase1&2construction.log

***** WARNING MESSAGES *****

*** NONE ***

Running AERMOD

Processing Autumn

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 30

phase1&2construction.log

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 05/16/18 17:05:42

REFINE started 05/16/18 17:05:42

phase1&2construction.log
AERMOD Finishes Successfully for REFINE stage 3 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 05/16/18 17:05:46

AERSCREEN Finished Successfully
With no errors or warnings
Check log file for details

Ending date and time 05/16/18 17:05:46

phase1&2constructi on_max_conc_di stance. txt

Concentration	Distance	Elevation	Diag	Season/Month	Zo sector	Date
HO U* W*	DT/DZ ZICNV ZIMCH	M-0 LEN	ZO BOWEN	ALBEDO	REF WS	HT
REF TA HT						
0.18738E+01	1.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.19585E+01	25.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.20481E+01	50.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.21323E+01	75.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.22118E+01	100.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.22872E+01	125.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.23590E+01	150.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.24274E+01	175.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
* 0.24926E+01	200.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.22793E+01	225.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.18051E+01	250.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.15675E+01	275.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.13782E+01	300.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.12318E+01	325.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.11167E+01	350.01	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.10234E+01	375.01	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.94595E+00	400.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.88045E+00	425.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.82394E+00	450.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						
0.77450E+00	475.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999. 21.	6.0 1.000	1.50	0.35	0.50	10.0
310.0 2.0						

phase1&2construction_max_conc_distance.txt

0.73081E+00	500.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.69173E+00	525.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65683E+00	550.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.62524E+00	575.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59650E+00	600.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57013E+00	625.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.54576E+00	650.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.52321E+00	675.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.50238E+00	700.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.48294E+00	725.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46493E+00	750.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.44816E+00	775.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.43222E+00	800.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.41729E+00	825.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.40331E+00	850.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.39014E+00	875.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.37772E+00	900.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.36601E+00	925.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.35489E+00	950.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.34436E+00	975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.33438E+00	1000.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1&2construction_max_conc_distance.txt

0.32485E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.31573E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.30714E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.29886E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.29092E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.28347E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27626E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.26924E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.26264E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.25635E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.25018E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.24426E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23870E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23334E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22812E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22306E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21822E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21358E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20909E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20476E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20057E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1&2construction_max_conc_distance.txt

0.19653E+00	1550.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19267E+00	1575.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18888E+00	1600.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18522E+00	1625.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18170E+00	1650.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17830E+00	1675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17499E+00	1700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17177E+00	1725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16867E+00	1750.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16566E+00	1775.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16274E+00	1800.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15992E+00	1825.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15718E+00	1850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15454E+00	1875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15194E+00	1900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14941E+00	1924.99	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14696E+00	1950.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14459E+00	1975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14228E+00	2000.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14002E+00	2025.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13783E+00	2050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1&2construction_max_conc_distance.txt

0.13570E+00	2075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13364E+00	2100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13163E+00	2125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12966E+00	2150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12774E+00	2175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12586E+00	2200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12404E+00	2225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12226E+00	2250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12053E+00	2275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11884E+00	2300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11719E+00	2325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11556E+00	2350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11397E+00	2375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11242E+00	2400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11092E+00	2425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10945E+00	2450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10802E+00	2475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10661E+00	2500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10523E+00	2525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10389E+00	2550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10256E+00	2575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1&2construction_max_conc_distance.txt

0.10127E+00	2600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10001E+00	2625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.98774E-01	2650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.97566E-01	2675.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.96390E-01	2700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.95239E-01	2725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.94113E-01	2750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.93011E-01	2775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.91930E-01	2800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.90862E-01	2825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.89816E-01	2850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.88791E-01	2875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.87786E-01	2900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.86802E-01	2925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.85837E-01	2950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.84892E-01	2975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.83958E-01	3000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.83038E-01	3025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.82135E-01	3050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.81249E-01	3075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.80380E-01	3100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1&2construction_max_conc_distance.txt

0.79531E-01	3125.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.78701E-01	3150.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.77887E-01	3174.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.77087E-01	3199.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.76302E-01	3225.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.75529E-01	3250.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.74767E-01	3275.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.74019E-01	3300.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.73284E-01	3325.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.72563E-01	3350.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71852E-01	3375.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71150E-01	3400.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.70456E-01	3425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.69775E-01	3450.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.69107E-01	3475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.68454E-01	3500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.67813E-01	3525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.67180E-01	3550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.66556E-01	3575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65943E-01	3600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65339E-01	3625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1&2construction_max_conc_distance.txt

0.64746E-01	3650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.64162E-01	3675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63590E-01	3700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63027E-01	3725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.62473E-01	3750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.61927E-01	3775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.61390E-01	3800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60861E-01	3825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60340E-01	3850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59827E-01	3875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59317E-01	3900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58815E-01	3925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58319E-01	3950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57831E-01	3975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57350E-01	4000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56876E-01	4025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56409E-01	4050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.55948E-01	4075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.55489E-01	4100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.55037E-01	4125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.54591E-01	4150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1&2construction_max_conc_distance.txt

0.54152E-01	4175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.53718E-01	4200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.53291E-01	4225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.52870E-01	4250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.52454E-01	4275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.52044E-01	4300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.51642E-01	4325.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.51246E-01	4350.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.50853E-01	4375.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.50465E-01	4400.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.50083E-01	4425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.49709E-01	4449.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.49340E-01	4475.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.48974E-01	4500.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.48613E-01	4525.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.48257E-01	4550.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47905E-01	4575.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47557E-01	4600.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47213E-01	4625.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46872E-01	4650.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46536E-01	4675.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

```

phase1&2construction_max_conc_distance.txt
  0.46204E-01 4700.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.45876E-01 4725.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.45552E-01 4750.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.45232E-01 4775.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.44916E-01 4800.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.44603E-01 4825.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.44294E-01 4850.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.43988E-01 4875.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.43687E-01 4900.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.43388E-01 4925.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.43094E-01 4950.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.42803E-01 4975.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0.42515E-01 5000.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0

```

phase1operati onandphase2constructi on. l og

Start date and time 05/16/18 17:07:58

AERSCREEN 16216

Gateway Crossings Phase 1 Operati on and Phase 2 Constructi on

----- DATA ENTRY VALI DATI ON -----

METRI C ENGLI SH

** AREADATA ** -----

Emissi on Rate:	0.709E-02 g/s	0.563E-01 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Verti cal Di mensi on:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Popul ati on:	125948	
Di st to Ambi ent Ai r:	1.0 meters	3. feet

** BUI LDI NG DATA **

No Bui l di ng Downwash Parameters

** TERRAI N DATA **

No Terrai n El evati ons

Source Base El evati on:	0.0 meters	0.0 feet
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Probe di stance:	5000. meters	16404. feet
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phase1operati onandphase2constructi on. l og

No fl agpol e receptors

No di screte receptors used

** FUMI GATI ON DATA **

No fumi gati on requested

** METEOROLOGY DATA **

Mi n/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Mi ni mum Wi nd Speed: 0.5 m/s

Anemometer Hei ght: 10.000 meters

Domi nant Surface Profi le: Urban

Domi nant Cl i mate Type: Average Moi sture

Surface fri cti on vel oci ty (u^*): not adj usted

DEBUG OPTI ON OFF

AERSCREEN output fi le:

phase1operati onandphase2constructi on. out

phase1operati onandphase2constructi on. l og

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 05/16/18 17:08:57

phase1operati onandphase2constructi on. l og

Processi ng Wi nter

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 0

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 5

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 10

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 4

phase1operati onandphase2constructi on.l og
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 15

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 20

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 25

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 30

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

phase1operati onandphase2constructi on.l og

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 35

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 40

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 45

***** WARNI NG MESSAGES *****
*** NONE ***

Runni ng AERMOD

Processi ng Spri ng

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spri ng sector 0

phase1operati onandphase2constructi on. l og

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spr i ng sector 25

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spr i ng sector 30

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spr i ng sector 35

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 9

phase1operati onandphase2constructi on.l og
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spr ing sector 40

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spr ing sector 45

***** WARNING MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Summer

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 5

phase1operati onandphase2constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 4

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 25

phase1operati onandphase2constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 45

phase1operati onandphase2constructi on. l og

***** WARNI NG MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Autumn

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 0

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 5

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 30

phase1operati onandphase2constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 8

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 05/16/18 17:09:39

REFINE started 05/16/18 17:09:39

phase1operati onandphase2constructi on. l og
AERMOD Fi ni shes Successful ly for REFINE stage 3 Wi nter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 05/16/18 17:09:43

AERSCREEN Fi ni shed Successful ly
Wi th no errors or warni ngs
Check l og fi le for detai ls

Endi ng date and ti me 05/16/18 17:09:43

phase1operati onandphase2constructi on_max_conc_di stance.txt

Concentrati on	Di stance	El evati on	Di ag	Season/Month	Zo sector	Date							
HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-0	LEN	ZO	BOWEN	ALBEDO	REF	WS	HT
REF TA	HT												
0.25307E+01			1.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.26451E+01			25.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.27661E+01			50.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.28798E+01			75.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.29872E+01			100.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.30890E+01			125.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.31860E+01			150.00	0.00	35.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.32784E+01			175.00	0.00	35.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
* 0.33664E+01			200.00	0.00	35.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.30784E+01			225.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.24379E+01			250.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.21171E+01			275.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.18613E+01			300.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.16637E+01			325.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.15082E+01			350.01	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.13822E+01			375.01	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.12776E+01			400.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.11891E+01			425.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.11128E+01			450.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
0.10460E+01			475.00	0.00	40.0			Wi nter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												

phase1operati onandphase2constructi on_max_conc_di stance.txt

0.98702E+00	500.00	0.00	40.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.93423E+00	525.00	0.00	40.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.88711E+00	550.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.84444E+00	575.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.80562E+00	600.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.77001E+00	625.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.73710E+00	650.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.70664E+00	675.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.67851E+00	700.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65225E+00	725.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.62793E+00	750.00	0.00	30.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60528E+00	775.00	0.00	30.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58374E+00	800.00	0.00	30.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56359E+00	825.00	0.00	25.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.54471E+00	850.00	0.00	25.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.52691E+00	875.00	0.00	25.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.51014E+00	900.00	0.00	25.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.49433E+00	925.00	0.00	15.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47930E+00	950.00	0.00	15.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46509E+00	975.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.45161E+00	1000.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1operati onandphase2constructi on_max_conc_di stance.txt

0.43873E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.42642E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.41482E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.40363E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.39291E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.38285E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.37311E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.36363E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.35472E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.34623E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.33789E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.32990E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.32238E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.31515E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.30810E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.30126E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.29472E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.28845E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.28239E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.27655E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.27089E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1operati onandphase2constructi on_max_conc_di stance.txt

0.26543E+00	1550.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.26022E+00	1575.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.25510E+00	1600.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.25016E+00	1625.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.24540E+00	1650.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.24080E+00	1675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.23634E+00	1700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.23200E+00	1725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.22781E+00	1750.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.22373E+00	1775.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21980E+00	1800.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21598E+00	1825.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21229E+00	1850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20871E+00	1875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20521E+00	1900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20179E+00	1924.99	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19849E+00	1950.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19528E+00	1975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19216E+00	2000.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18911E+00	2025.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18614E+00	2050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

phase1operationandphase2construction_max_conc_distance.txt

0.18328E+00	2075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.18049E+00	2100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17778E+00	2125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17512E+00	2150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17252E+00	2175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16999E+00	2200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16752E+00	2225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16512E+00	2250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16278E+00	2275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16050E+00	2300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15828E+00	2325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15608E+00	2350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15393E+00	2375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15183E+00	2400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14980E+00	2425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14782E+00	2450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14589E+00	2475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14399E+00	2500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14213E+00	2525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14030E+00	2550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13852E+00	2575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1operati onandphase2constructi on_max_conc_di stance.txt

0.13678E+00	2600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13507E+00	2625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13340E+00	2650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13177E+00	2675.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13018E+00	2700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12863E+00	2725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12711E+00	2750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12562E+00	2775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12416E+00	2800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12272E+00	2825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12130E+00	2850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11992E+00	2875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11856E+00	2900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11723E+00	2925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11593E+00	2950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11465E+00	2975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11339E+00	3000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11215E+00	3025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11093E+00	3050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10973E+00	3075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10856E+00	3100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1operationandphase2construction_max_conc_distance.txt

0.10741E+00	3125.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.10629E+00	3150.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.10519E+00	3174.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.10411E+00	3199.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.10305E+00	3225.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.10201E+00	3250.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.10098E+00	3275.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.99969E-01	3300.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.98977E-01	3325.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.98002E-01	3350.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.97043E-01	3375.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.96093E-01	3400.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.95157E-01	3425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.94237E-01	3450.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.93334E-01	3475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.92453E-01	3500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.91587E-01	3525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.90732E-01	3550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.89889E-01	3575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.89061E-01	3600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						
0.88246E-01	3625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.			6.0 1.000 1.50		0.35	0.50 10.0
310.0 2.0						

phase1operationandphase2construction_max_conc_distance.txt

0.87444E-01	3650.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.86656E-01	3675.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.85884E-01	3700.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.85123E-01	3725.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.84375E-01	3750.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.83637E-01	3775.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.82912E-01	3800.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.82198E-01	3825.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.81494E-01	3850.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.80801E-01	3875.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.80113E-01	3900.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.79434E-01	3925.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.78765E-01	3950.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.78106E-01	3975.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.77456E-01	4000.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.76816E-01	4025.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.76185E-01	4050.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.75563E-01	4075.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.74943E-01	4100.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.74332E-01	4125.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.73730E-01	4150.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					

phase1operationandphase2construction_max_conc_distance.txt

0.73137E-01	4175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.72551E-01	4200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.71974E-01	4225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.71405E-01	4250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.70844E-01	4275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.70290E-01	4300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.69747E-01	4325.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.69211E-01	4350.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.68682E-01	4375.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.68157E-01	4400.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.67641E-01	4425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.67136E-01	4449.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.66638E-01	4475.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.66144E-01	4500.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.65656E-01	4525.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.65174E-01	4550.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.64699E-01	4575.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.64230E-01	4600.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.63765E-01	4625.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.63305E-01	4650.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.62850E-01	4675.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1operati onandphase2constructi on_max_conc_di stance.txt

0.62402E-01	4700.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.61959E-01	4725.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.61521E-01	4750.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.61089E-01	4775.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.60662E-01	4800.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.60240E-01	4825.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.59822E-01	4850.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.59410E-01	4875.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.59002E-01	4900.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.58600E-01	4925.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.58202E-01	4950.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.57808E-01	4975.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.57420E-01	5000.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					

PHASE1OPERATIONANDPHASE2and3CONSTRUCTION. Log

Start date and time 05/16/18 17:11:02

AERSCREEN 16216

phase1operationandphase2and3construction.out

----- DATA ENTRY VALIDATION -----

METRIC

ENGLISH

** AREADATA **

Emission Rate:	0.0133 g/s	0.106 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Vertical Dimension:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Population:	125948	
Dist to Ambient Air:	1.0 meters	3. feet

** BUILDING DATA **

No Building Downwash Parameters

** TERRAIN DATA **

No Terrain Elevations

Source Base Elevation:	0.0 meters	0.0 feet
------------------------	------------	----------

Probe distance:	5000. meters	16404. feet
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PHASE1OPERATIONANDPHASE2and3CONSTRUCTION. log

No flagpole receptors

No discrete receptors used

** FUMIGATION DATA **

No fumigation requested

** METEOROLOGY DATA **

Min/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Minimum Wind Speed: 0.5 m/s

Anemometer Height: 10.000 meters

Dominant Surface Profile: Urban

Dominant Climate Type: Average Moisture

Surface friction velocity (u^*): not adjusted

DEBUG OPTION OFF

AERSCREEN output file:

PHASE1OPERATIONANDPHASE2CONSTRUCTION. OUT

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 05/16/18 17:12:04

PHASE1OPERATIONANDPHASE2and3CONSTRUCTION. Log

Processing Winter

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 10

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 4

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON. l og
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 15

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 20

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 25

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 30

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 8

PHASE1OPERATIONANDPHASE2and3CONSTRUCTION. log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 45

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD

Processing Spring

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 0

PHASE1OPERATIONANDPHASE2and3CONSTRUCTION. Log

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 25

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 30

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 35

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 9

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON. l og
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spring sector 40

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spring sector 45

***** WARNING MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Summer

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 5

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON. l og

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 30

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 35

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 40

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 45

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON. l og

***** WARNI NG MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Autumn

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 0

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 5

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 10

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON. l og

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 9

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 10

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 05/16/18 17: 12: 46

REFINE started 05/16/18 17: 12: 46

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON. log
AERMOD Fi ni shes Successful ly for REFI NE stage 3 Wi nter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFI NE ended 05/16/18 17: 12: 50

AERSCREEN Fi ni shed Successful ly

Wi th no errors or warni ngs

Check log fi le for detai ls

Endi ng date and ti me 05/16/18 17: 12: 50

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON_max_conc_di stance.txt

Concentration HO	U*	W*	Distance DT/DZ	Elevation ZICNV	Diag ZIMCH	Season/Month M-0 LEN	Zo sector ZO BOWEN	ALBEDO	REF	WS	Date HT
REF TA	HT										
0.47511E+01			1.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.49659E+01			25.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.51930E+01			50.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.54066E+01			75.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.56082E+01			100.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.57993E+01			125.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.59814E+01			150.00	0.00	35.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.61548E+01			175.00	0.00	35.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
* 0.63201E+01			200.00	0.00	35.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.57793E+01			225.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.45768E+01			250.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.39746E+01			275.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.34945E+01			300.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.31233E+01			325.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.28314E+01			350.01	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.25949E+01			375.01	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.23985E+01			400.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.22325E+01			425.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.20892E+01			450.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										
0.19638E+01			475.00	0.00	40.0	Winter		0-360	10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000	1.50	0.35	0.50	10.0	
310.0	2.0										

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON_max_conc_di stance.txt

0.18530E+01	500.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17539E+01	525.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16654E+01	550.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15854E+01	575.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15125E+01	600.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14456E+01	625.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13838E+01	650.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13266E+01	675.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12738E+01	700.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12245E+01	725.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11789E+01	750.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11363E+01	775.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10959E+01	800.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10581E+01	825.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10226E+01	850.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.98922E+00	875.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.95773E+00	900.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.92805E+00	925.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.89984E+00	950.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.87315E+00	975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.84785E+00	1000.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

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0.82367E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.80055E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.77877E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.75778E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.73764E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.71877E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.70047E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.68267E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.66595E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.65001E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.63435E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.61935E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.60524E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.59166E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.57842E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.56559E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.55330E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.54154E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.53016E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.51919E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.50856E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

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0.49832E+00	1550.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.48853E+00	1575.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.47892E+00	1600.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.46965E+00	1625.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.46071E+00	1650.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.45208E+00	1675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.44371E+00	1700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.43555E+00	1725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.42768E+00	1750.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.42004E+00	1775.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.41264E+00	1800.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.40548E+00	1825.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.39855E+00	1850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.39184E+00	1875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.38526E+00	1900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.37884E+00	1924.99	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.37264E+00	1950.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.36661E+00	1975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.36076E+00	2000.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.35504E+00	2025.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.34947E+00	2050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

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0.34408E+00	2075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.33885E+00	2100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.33377E+00	2125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.32877E+00	2150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.32389E+00	2175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.31914E+00	2200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.31451E+00	2225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.31000E+00	2250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.30561E+00	2275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.30133E+00	2300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.29715E+00	2325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.29302E+00	2350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.28898E+00	2375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.28505E+00	2400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.28124E+00	2425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.27752E+00	2450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.27389E+00	2475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.27032E+00	2500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.26683E+00	2525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.26341E+00	2550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.26006E+00	2575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

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0.25678E+00	2600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.25358E+00	2625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.25045E+00	2650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.24739E+00	2675.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.24440E+00	2700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.24149E+00	2725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.23863E+00	2750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.23584E+00	2775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.23310E+00	2800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.23039E+00	2825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.22773E+00	2850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.22513E+00	2875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.22259E+00	2900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.22009E+00	2925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21765E+00	2950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21525E+00	2975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21288E+00	3000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21055E+00	3025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20826E+00	3050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20601E+00	3075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20381E+00	3100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON_max_conc_di stance. txt

0.20166E+00	3125.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19955E+00	3150.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19749E+00	3174.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19546E+00	3199.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19347E+00	3225.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19151E+00	3250.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18958E+00	3275.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18768E+00	3300.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18582E+00	3325.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18399E+00	3350.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18219E+00	3375.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18041E+00	3400.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.17865E+00	3425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.17692E+00	3450.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.17523E+00	3475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.17357E+00	3500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.17194E+00	3525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.17034E+00	3550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.16876E+00	3575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.16720E+00	3600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.16567E+00	3625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999.21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON_max_conc_di stance.txt

0.16417E+00	3650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.16269E+00	3675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.16124E+00	3700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.15981E+00	3725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.15840E+00	3750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.15702E+00	3775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.15566E+00	3800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.15432E+00	3825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.15300E+00	3850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.15169E+00	3875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.15040E+00	3900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.14913E+00	3925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.14787E+00	3950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.14663E+00	3975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.14542E+00	4000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.14421E+00	4025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.14303E+00	4050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.14186E+00	4075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.14070E+00	4100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.13955E+00	4125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.13842E+00	4150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

PHASE1OPERATIONANDPHASE2and3CONSTRUCTION_max_conc_distance.txt

0.13731E+00	4175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.13621E+00	4200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.13512E+00	4225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.13406E+00	4250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.13300E+00	4275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.13196E+00	4300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.13094E+00	4325.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12994E+00	4350.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12894E+00	4375.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12796E+00	4400.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12699E+00	4425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12604E+00	4449.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12511E+00	4475.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12418E+00	4500.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12326E+00	4525.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12236E+00	4550.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12147E+00	4575.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.12059E+00	4600.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.11971E+00	4625.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.11885E+00	4650.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.11800E+00	4675.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

PHASE1OPERATI ONANDPHASE2and3CONSTRUCTI ON_max_conc_di stance.txt

0.11715E+00	4700.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11632E+00	4725.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11550E+00	4750.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11469E+00	4775.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11389E+00	4800.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11309E+00	4825.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11231E+00	4850.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11154E+00	4875.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11077E+00	4900.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11001E+00	4925.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10927E+00	4950.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10853E+00	4975.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10780E+00	5000.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					

phase1-2operati onandphase3constructi on. l og

Start date and time 05/16/18 17:13:52

AERSCREEN 16216

Gateway Crossings Phase 1-2 Operati on and Phase 3 Constructi

----- DATA ENTRY VALI DATI ON -----

METRI C

ENGLI SH

** AREADATA **

Emissi on Rate:	0.898E-02 g/s	0.713E-01 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Verti cal Di mensi on:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Popul ati on:	125948	
Di st to Ambi ent Ai r:	1.0 meters	3. feet

** BUI LDI NG DATA **

No Bui l di ng Downwash Parameters

** TERRAI N DATA **

No Terrai n El evati ons

Source Base El evati on:	0.0 meters	0.0 feet
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Probe di stance:	5000. meters	16404. feet
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phase1-2operati onandphase3constructi on. l og

No fl agpol e receptors

No di screte receptors used

** FUMI GATI ON DATA **

No fumi gati on requested

** METEOROLOGY DATA **

Mi n/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Mi ni mum Wi nd Speed: 0.5 m/s

Anemometer Hei ght: 10.000 meters

Domi nant Surface Profi le: Urban

Domi nant Cl i mate Type: Average Moi sture

Surface fri cti on vel oci ty (u^*): not adj usted

DEBUG OPTI ON OFF

AERSCREEN output fi le:

phase1-2operati onandphase3constructi on. out

phase1-2operati onandphase3constructi on. l og

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 05/16/18 17:15:12

phase1-2operati onandphase3constructi on. l og

Processi ng Wi nter

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 0

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 5

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 10

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 4

phase1-2operati onandphase3constructi on.l og
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 15

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 20

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 25

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 30

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 8

phase1-2operati onandphase3constructi on.l og

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 35

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 40

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 45

***** WARNI NG MESSAGES *****
*** NONE ***

Runni ng AERMOD

Processi ng Spri ng

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spri ng sector 0

phase1-2operati onandphase3constructi on. l og

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spr i ng sector 25

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spr i ng sector 30

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spr i ng sector 35

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 9

phase1-2operati onandphase3constructi on. l og
AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spring sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spring sector 45

***** WARNING MESSAGES *****
*** NONE ***

Runni ng AERMOD

Processi ng Summer

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 5

phase1-2operati onandphase3constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 25

phase1-2operati onandphase3constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 45

phase1-2operati onandphase3constructi on. l og

***** WARNING MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Autumn

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 10

phase1-2operati onandphase3constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 30

phase1-2operati onandphase3constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 8

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 05/16/18 17: 15: 54

REFINE started 05/16/18 17: 15: 54

phase1-2operati onandphase3constructi on. l og
AERMOD Fi ni shes Successful ly for REFINE stage 3 Wi nter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 05/16/18 17: 15: 58

AERSCREEN Fi ni shed Successful ly
Wi th no errors or warni ngs
Check l og fi le for detai ls

Endi ng date and ti me 05/16/18 17: 15: 58

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

Concentration	Distance	Elevation	Diag	Season/Month	Zo sector	Date							
HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-0	LEN	ZO	BOWEN	ALBEDO	REF	WS	HT
REF TA HT	0.32053E+01		1.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.33502E+01		25.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.35034E+01		50.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.36475E+01		75.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.37835E+01		100.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.39124E+01		125.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.40353E+01		150.00	0.00	35.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.41522E+01		175.00	0.00	35.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
*	0.42638E+01		200.00	0.00	35.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.38989E+01		225.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.30877E+01		250.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.26814E+01		275.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.23575E+01		300.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.21071E+01		325.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.19102E+01		350.01	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.17506E+01		375.01	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.16181E+01		400.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.15061E+01		425.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.14094E+01		450.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												
	0.13248E+01		475.00	0.00	40.0			Wi nter		0-360	10011001		
	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0	
310.0	2.0												

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

0.12501E+01	500.00	0.00	40.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11833E+01	525.00	0.00	40.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11236E+01	550.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10695E+01	575.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10204E+01	600.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.97527E+00	625.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.93358E+00	650.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.89499E+00	675.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.85936E+00	700.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.82611E+00	725.00	0.00	35.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.79531E+00	750.00	0.00	30.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.76662E+00	775.00	0.00	30.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.73934E+00	800.00	0.00	30.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71382E+00	825.00	0.00	25.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.68990E+00	850.00	0.00	25.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.66736E+00	875.00	0.00	25.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.64612E+00	900.00	0.00	25.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.62609E+00	925.00	0.00	15.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60707E+00	950.00	0.00	15.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58906E+00	975.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57199E+00	1000.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

0.55568E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.54008E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.52539E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.51122E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.49764E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.48491E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.47256E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.46055E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.44928E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.43852E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.42795E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.41783E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.40831E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.39915E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.39022E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.38157E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.37328E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.36534E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.35767E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.35026E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.34309E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

0.33619E+00	1550.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.32958E+00	1575.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.32310E+00	1600.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.31684E+00	1625.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.31081E+00	1650.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.30499E+00	1675.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.29934E+00	1700.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.29384E+00	1725.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.28853E+00	1750.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.28337E+00	1775.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.27838E+00	1800.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.27355E+00	1825.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.26888E+00	1850.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.26435E+00	1875.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.25991E+00	1900.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.25558E+00	1924.99	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.25139E+00	1950.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.24733E+00	1975.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.24338E+00	2000.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.23952E+00	2025.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.23576E+00	2050.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

0.23213E+00	2075.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.22860E+00	2100.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.22517E+00	2125.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.22180E+00	2150.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.21851E+00	2175.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.21530E+00	2200.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.21218E+00	2225.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.20914E+00	2250.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.20617E+00	2275.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.20329E+00	2300.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.20047E+00	2325.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.19768E+00	2350.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.19496E+00	2375.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.19230E+00	2400.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.18973E+00	2425.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.18722E+00	2450.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.18478E+00	2475.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.18237E+00	2500.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.18001E+00	2525.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17771E+00	2550.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17545E+00	2575.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

0.17323E+00	2600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17108E+00	2625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16896E+00	2650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16690E+00	2675.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16488E+00	2700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16292E+00	2725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16099E+00	2750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15910E+00	2775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15725E+00	2800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15543E+00	2825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15364E+00	2850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15188E+00	2875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15017E+00	2900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14848E+00	2925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14683E+00	2950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14522E+00	2975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14362E+00	3000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14204E+00	3025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14050E+00	3050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13898E+00	3075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13750E+00	3100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

0.13604E+00	3125.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13462E+00	3150.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13323E+00	3174.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13186E+00	3199.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.13052E+00	3225.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12920E+00	3250.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12790E+00	3275.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12662E+00	3300.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12536E+00	3325.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12412E+00	3350.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12291E+00	3375.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12171E+00	3400.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.12052E+00	3425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11936E+00	3450.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11821E+00	3475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11710E+00	3500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11600E+00	3525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11492E+00	3550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11385E+00	3575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11280E+00	3600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.11177E+00	3625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

0.11075E+00	3650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10976E+00	3675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10878E+00	3700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10781E+00	3725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10687E+00	3750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10593E+00	3775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10501E+00	3800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10411E+00	3825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10322E+00	3850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10234E+00	3875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10147E+00	3900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.10061E+00	3925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.99760E-01	3950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.98925E-01	3975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.98103E-01	4000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.97292E-01	4025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.96493E-01	4050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.95705E-01	4075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.94920E-01	4100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.94146E-01	4125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.93383E-01	4150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

0.92631E-01	4175.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.91890E-01	4200.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.91159E-01	4225.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.90438E-01	4250.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.89727E-01	4275.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.89026E-01	4300.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.88339E-01	4325.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.87660E-01	4350.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.86989E-01	4375.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.86325E-01	4400.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.85671E-01	4425.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.85032E-01	4449.99	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.84401E-01	4475.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.83775E-01	4500.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.83157E-01	4525.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.82547E-01	4550.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.81945E-01	4575.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.81351E-01	4600.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.80762E-01	4625.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.80179E-01	4650.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.79604E-01	4675.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1-2operati onandphase3constructi on_max_conc_di stance.txt

0.79035E-01	4700.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.78474E-01	4725.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.77920E-01	4750.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.77373E-01	4775.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.76832E-01	4800.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.76297E-01	4825.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.75769E-01	4850.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.75246E-01	4875.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.74730E-01	4900.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.74220E-01	4925.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.73716E-01	4950.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.73218E-01	4975.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.72725E-01	5000.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					

phase1to3operati on. l og

Start date and time 05/16/18 17:17:34

AERSCREEN 16216

Gateway Crossi ngs Phase 1-3 Operati on

----- DATA ENTRY VALI DATI ON -----

METRI C

ENGLI SH

** AREADATA **

Emissi on Rate:	0.410E-02 g/s	0.325E-01 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Verti cal Di mensi on:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Popul ati on:	125948	
Di st to Ambi ent Ai r:	1.0 meters	3. feet

** BUI LDI NG DATA **

No Bui l di ng Downwash Parameters

** TERRAI N DATA **

No Terrai n El evati ons

Source Base El evati on:	0.0 meters	0.0 feet
--------------------------	------------	----------

Probe di stance:	5000. meters	16404. feet
------------------	--------------	-------------

phase1to3operati on. l og

No fl agpol e receptors

No di screte receptors used

** FUMI GATI ON DATA **

No fumi gati on requested

** METEOROLOGY DATA **

Mi n/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Mi ni mum Wi nd Speed: 0.5 m/s

Anemometer Hei ght: 10.000 meters

Domi nant Surface Profi le: Urban

Domi nant Cl i mate Type: Average Moi sture

Surface fri cti on vel oci ty (u^*): not adj usted

DEBUG OPTI ON OFF

AERSCREEN output fi le:

phase1to3operati on. out

phase1to3operation.log

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present on rectangular area source, skipping probe

FLOWSECTOR started 05/16/18 17:19:18

phase1to3operation.log

Processing Winter

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 10

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 15

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 20

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 25

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 30

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 8

phase1to3operation.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 45

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD

Processing Spring

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 0

phase1to3operation.log

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 25

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 30

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 35

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 45

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD

Processing Summer

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 5

phase1to3operation.log

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 25

phase1to3operati on. l og

***** WARNING MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Autumn

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 30

phase1to3operati on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 05/16/18 17: 20: 00

REFINE started 05/16/18 17: 20: 00

phase1to3operation.log
AERMOD Finishes Successfully for REFINE stage 3 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 05/16/18 17:20:04

AERSCREEN Finished Successfully
With no errors or warnings
Check log file for details

Ending date and time 05/16/18 17:20:04

phase1to3operation_max_conc_distance.txt												
Concentration		Distance		Elevation		Diag		Season/Month		Zosector		Date
HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-0	LEN	ZO	BOWEN	ALBEDO	REF	WS
REF	TA	HT										HT
	0.14634E+01		1.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.15296E+01		25.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.15995E+01		50.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.16653E+01		75.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.17274E+01		100.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.17863E+01		125.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.18424E+01		150.00	0.00	35.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.18958E+01		175.00	0.00	35.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
*	0.19467E+01		200.00	0.00	35.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.17801E+01		225.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.14097E+01		250.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.12242E+01		275.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.10764E+01		300.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.96204E+00		325.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.87213E+00		350.01	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.79928E+00		375.01	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.73879E+00		400.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.68763E+00		425.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.64350E+00		450.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											
	0.60488E+00		475.00	0.00	40.0			Winter		0-360		10011001
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35	0.50	10.0
310.0	2.0											

phase1to3operation_max_conc_distance.txt

0.57077E+00	500.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.54024E+00	525.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.51299E+00	550.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.48831E+00	575.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46587E+00	600.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.44528E+00	625.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.42624E+00	650.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.40863E+00	675.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.39236E+00	700.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.37718E+00	725.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.36311E+00	750.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.35001E+00	775.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.33756E+00	800.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.32591E+00	825.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.31499E+00	850.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.30470E+00	875.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.29500E+00	900.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.28585E+00	925.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27717E+00	950.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.26895E+00	975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.26115E+00	1000.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1to3operation_max_conc_distance.txt

0.25370E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.24658E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23988E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23341E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22721E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22139E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21576E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21027E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20513E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20021E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19539E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19077E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18642E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18224E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17816E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17421E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17043E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16680E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16330E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15992E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15665E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1to3operation_max_conc_distance.txt

0.15349E+00	1550.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15048E+00	1575.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14751E+00	1600.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14466E+00	1625.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14191E+00	1650.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13925E+00	1675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13667E+00	1700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13416E+00	1725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13173E+00	1750.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12938E+00	1775.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12710E+00	1800.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12489E+00	1825.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12276E+00	1850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12069E+00	1875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11867E+00	1900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11669E+00	1924.99	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11478E+00	1950.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11292E+00	1975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11112E+00	2000.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10936E+00	2025.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10764E+00	2050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1to3operation_max_conc_distance.txt

0.10598E+00	2075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10437E+00	2100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10281E+00	2125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10127E+00	2150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.99764E-01	2175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.98300E-01	2200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.96874E-01	2225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.95486E-01	2250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.94133E-01	2275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.92815E-01	2300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.91528E-01	2325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.90254E-01	2350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.89012E-01	2375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.87799E-01	2400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.86626E-01	2425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.85481E-01	2450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.84363E-01	2475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.83264E-01	2500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.82188E-01	2525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.81134E-01	2550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.80103E-01	2575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1to3operation_max_conc_distance.txt

0.79094E-01	2600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.78107E-01	2625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.77143E-01	2650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.76200E-01	2675.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.75280E-01	2700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.74382E-01	2725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.73503E-01	2750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.72642E-01	2775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71798E-01	2800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.70963E-01	2825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.70146E-01	2850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.69346E-01	2875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.68561E-01	2900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.67793E-01	2925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.67039E-01	2950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.66301E-01	2975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65572E-01	3000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.64853E-01	3025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.64147E-01	3050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63456E-01	3075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.62777E-01	3100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1to3operation_max_conc_distance.txt

0.62114E-01	3125.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.61465E-01	3150.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60830E-01	3174.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60205E-01	3199.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59592E-01	3225.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58988E-01	3250.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58393E-01	3275.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57809E-01	3300.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57235E-01	3325.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56672E-01	3350.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56117E-01	3375.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.55568E-01	3400.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.55027E-01	3425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.54495E-01	3450.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.53972E-01	3475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.53463E-01	3500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.52962E-01	3525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.52467E-01	3550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.51980E-01	3575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.51502E-01	3600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.51030E-01	3625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1to3operation_max_conc_distance.txt

0.50566E-01	3650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.50111E-01	3675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.49664E-01	3700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.49224E-01	3725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.48791E-01	3750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.48365E-01	3775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47945E-01	3800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47532E-01	3825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47125E-01	3850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46725E-01	3875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46327E-01	3900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.45934E-01	3925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.45547E-01	3950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.45166E-01	3975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.44791E-01	4000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.44420E-01	4025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.44056E-01	4050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.43696E-01	4075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.43337E-01	4100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.42984E-01	4125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.42636E-01	4150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1to3operation_max_conc_distance.txt

0.42293E-01	4175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.41954E-01	4200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.41620E-01	4225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.41291E-01	4250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.40967E-01	4275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.40647E-01	4300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.40333E-01	4325.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.40023E-01	4350.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.39717E-01	4375.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.39413E-01	4400.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.39115E-01	4425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.38823E-01	4449.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.38535E-01	4475.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.38249E-01	4500.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.37967E-01	4525.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.37688E-01	4550.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.37414E-01	4575.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.37142E-01	4600.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.36873E-01	4625.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.36607E-01	4650.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.36344E-01	4675.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

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phase1to3operation_max_conc_distance.txt
  0. 36085E-01      4700.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 35829E-01      4725.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 35576E-01      4750.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 35326E-01      4775.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 35079E-01      4800.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 34835E-01      4825.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 34594E-01      4850.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 34355E-01      4875.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 34119E-01      4900.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 33886E-01      4925.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 33656E-01      4950.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 33429E-01      4975.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
  0. 33204E-01      5000.00      0.00 10.0      Wi nter      0-360      10011001
-1.30 0.043 -9.000 0.020 -999. 21.      6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0

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phase1to3operati onandphase4constructi on.l og

Start date and time 05/16/18 17:22:40

AERSCREEN 16216

Gateway Crossings Phase 1-3 Operati on and Phase 4 Constructi

----- DATA ENTRY VALI DATI ON -----

METRI C

ENGLI SH

** AREADATA **

Emission Rate:	0.937E-02 g/s	0.744E-01 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Vertical Dimension:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Population:	125948	
Dist to Ambient Air:	1.0 meters	3. feet

** BUILDING DATA **

No Building Downwash Parameters

** TERRAIN DATA **

No Terrain Elevations

Source Base Elevation:	0.0 meters	0.0 feet
------------------------	------------	----------

Probe distance:	5000. meters	16404. feet
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No fl agpol e receptors

No di screte receptors used

** FUMI GATI ON DATA **

No fumi gati on requested

** METEOROLOGY DATA **

Mi n/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Mi ni mum Wi nd Speed: 0.5 m/s

Anemometer Hei ght: 10.000 meters

Domi nant Surface Profi le: Urban

Domi nant Cl i mate Type: Average Moi sture

Surface fri cti on vel oci ty (u^*): not adj usted

DEBUG OPTI ON OFF

AERSCREEN output fi le:

phase1to3operati onandphase4constructi on. out

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 05/16/18 17:23:38

Processi ng Wi nter

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 0

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 5

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 10

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 4

phase1to3operati onandphase4constructi on.log
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Winter sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Winter sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Winter sector 45

***** WARNING MESSAGES *****
*** NONE ***

Runni ng AERMOD

Processi ng Spri ng

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spri ng sector 0

phase1to3operati onandphase4constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spring sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spring sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spring sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spring sector 20

phase1to3operati onandphase4constructi on. l og

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 25

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 30

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 35

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 9

phase1to3operationandphase4construction.log
AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 45

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD

Processing Summer

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 5

phase1to3operati onandphase4constructi on.l og

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 4

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 25

phase1to3operati onandphase4constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 45

***** WARNING MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Autumn

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 10

phase1to3operati onandphase4constructi on. l og
***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 30

phase1to3operati onandphase4constructi on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 05/16/18 17: 24: 20

REFINE started 05/16/18 17: 24: 20

phase1to3operationandphase4construction.log
AERMOD Finishes Successfully for REFINE stage 3 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 05/16/18 17:24:24

AERSCREEN Finished Successfully

With no errors or warnings

Check log file for details

Ending date and time 05/16/18 17:24:24

phase1to3operati onandphase4constructi on_max_conc_di stance.txt

Concentration	Distance	Elevation	Diag	Season/Month	Zo sector	Date
HO U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS HT						
0.33444E+01	1.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.34957E+01	25.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.36556E+01	50.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.38059E+01	75.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.39478E+01	100.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.40823E+01	125.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.42105E+01	150.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.43326E+01	175.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
* 0.44489E+01	200.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.40683E+01	225.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.32218E+01	250.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.27979E+01	275.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.24599E+01	300.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.21986E+01	325.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.19931E+01	350.01	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.18267E+01	375.01	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.16884E+01	400.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.15715E+01	425.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.14706E+01	450.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						
0.13824E+01	475.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000	1.50	0.35	0.50 10.0
310.0 2.0						

phase1to3operationandphase4construction_max_conc_distance.txt

0.13044E+01	500.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12347E+01	525.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11724E+01	550.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11160E+01	575.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10647E+01	600.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10176E+01	625.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.97413E+00	650.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.93387E+00	675.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.89669E+00	700.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.86199E+00	725.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.82985E+00	750.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.79991E+00	775.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.77145E+00	800.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.74482E+00	825.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71987E+00	850.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.69635E+00	875.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.67418E+00	900.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65329E+00	925.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63343E+00	950.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.61464E+00	975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59683E+00	1000.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1to3operationandphase4construction_max_conc_distance.txt

0.57981E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.56354E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.54821E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.53342E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.51925E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.50597E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.49309E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.48056E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.46879E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.45756E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.44654E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.43598E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.42605E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.41649E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.40717E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.39814E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.38949E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.38121E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.37320E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.36547E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.35800E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

phase1to3operationandphase4construction_max_conc_distance.txt

0.35079E+00	1550.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.34389E+00	1575.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.33713E+00	1600.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.33060E+00	1625.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.32431E+00	1650.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.31824E+00	1675.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.31234E+00	1700.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.30660E+00	1725.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.30106E+00	1750.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.29568E+00	1775.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.29048E+00	1800.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.28543E+00	1825.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.28055E+00	1850.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.27583E+00	1875.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.27120E+00	1900.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.26668E+00	1924.99	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.26231E+00	1950.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.25807E+00	1975.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.25395E+00	2000.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.24993E+00	2025.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.24600E+00	2050.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					

phase1to3operationandphase4construction_max_conc_distance.txt

0.24221E+00	2075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.23853E+00	2100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.23495E+00	2125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.23143E+00	2150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.22800E+00	2175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.22465E+00	2200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.22139E+00	2225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21822E+00	2250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21513E+00	2275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.21212E+00	2300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20918E+00	2325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20627E+00	2350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20343E+00	2375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.20065E+00	2400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19797E+00	2425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19536E+00	2450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19280E+00	2475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.19029E+00	2500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18783E+00	2525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18542E+00	2550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.18306E+00	2575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

phase1to3operationandphase4construction_max_conc_distance.txt

0.18076E+00	2600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17851E+00	2625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17630E+00	2650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17414E+00	2675.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.17204E+00	2700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16999E+00	2725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16798E+00	2750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16601E+00	2775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16409E+00	2800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16218E+00	2825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.16031E+00	2850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15848E+00	2875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15669E+00	2900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15493E+00	2925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15321E+00	2950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.15152E+00	2975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14986E+00	3000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14821E+00	3025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14660E+00	3050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14502E+00	3075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						
0.14347E+00	3100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50	0.35	0.50 10.0
310.0 2.0						

phase1to3operationandphase4construction_max_conc_distance.txt

0.14195E+00	3125.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.14047E+00	3150.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.13902E+00	3174.99	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.13759E+00	3199.99	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.13619E+00	3225.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.13481E+00	3250.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.13345E+00	3275.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.13212E+00	3300.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.13080E+00	3325.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.12952E+00	3350.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.12825E+00	3375.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.12699E+00	3400.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.12576E+00	3425.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.12454E+00	3450.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.12335E+00	3475.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.12218E+00	3500.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.12104E+00	3525.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11991E+00	3550.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11880E+00	3575.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11770E+00	3600.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11662E+00	3625.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					

phase1to3operationandphase4construction_max_conc_distance.txt

0.11556E+00	3650.00	0.00	5.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11452E+00	3675.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11350E+00	3700.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11250E+00	3725.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11151E+00	3750.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.11053E+00	3775.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10957E+00	3800.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10863E+00	3825.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10770E+00	3850.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10678E+00	3875.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10588E+00	3900.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10498E+00	3925.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10409E+00	3950.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10322E+00	3975.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10236E+00	4000.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10152E+00	4025.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.10068E+00	4050.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.99861E-01	4075.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.99042E-01	4100.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.98235E-01	4125.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.97439E-01	4150.00	0.00	0.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					

phase1to3operationandphase4construction_max_conc_distance.txt

0.96655E-01	4175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.95881E-01	4200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.95118E-01	4225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.94366E-01	4250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.93624E-01	4275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.92893E-01	4300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.92175E-01	4325.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.91467E-01	4350.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.90767E-01	4375.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.90074E-01	4400.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.89392E-01	4425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.88725E-01	4449.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.88067E-01	4475.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.87413E-01	4500.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.86769E-01	4525.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.86132E-01	4550.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.85504E-01	4575.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.84884E-01	4600.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.84269E-01	4625.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.83661E-01	4650.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						
0.83061E-01	4675.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35 0.50 10.0		
310.0 2.0						

phase1to3operationandphase4construction_max_conc_distance.txt

0.82468E-01	4700.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.81882E-01	4725.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.81304E-01	4750.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.80733E-01	4775.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.80169E-01	4800.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.79611E-01	4825.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.79059E-01	4850.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.78514E-01	4875.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.77975E-01	4900.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.77443E-01	4925.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.76917E-01	4950.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.76398E-01	4975.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					
0.75884E-01	5000.00	0.00	10.0	Winter	0-360	10011001
-1.30	0.043	-9.000	0.020	-999.	21.	6.0 1.000 1.50 0.35 0.50 10.0
310.0	2.0					

phase1-4operati on. l og

Start date and time 05/16/18 17:25:55

AERSCREEN 16216

Gateway Crossi ngs Phase 1-4 Operati on

----- DATA ENTRY VALI DATI ON -----

METRI C

ENGLI SH

** AREADATA **

Emi ssi on Rate:	0.636E-02 g/s	0.505E-01 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Verti cal Di mensi on:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Popul ati on:	125948	
Di st to Ambi ent Ai r:	1.0 meters	3. feet

** BUI LDI NG DATA **

No Bui l di ng Downwash Parameters

** TERRAI N DATA **

No Terrai n El evati ons

Source Base El evati on:	0.0 meters	0.0 feet
--------------------------	------------	----------

Probe di stance:	5000. meters	16404. feet
------------------	--------------	-------------

phase1-4operati on. l og

No fl agpol e receptors

No di screte receptors used

** FUMI GATI ON DATA **

No fumi gati on requested

** METEOROLOGY DATA **

Mi n/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Mi ni mum Wi nd Speed: 0.5 m/s

Anemometer Hei ght: 10.000 meters

Domi nant Surface Profi le: Urban

Domi nant Cl i mate Type: Average Moi sture

Surface fri cti on vel oci ty (u^*): not adj usted

DEBUG OPTI ON OFF

AERSCREEN output fi le:

phase1-4operati on. out

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 05/16/18 17:26:39

phase1-4operati on. l og

Processi ng Wi nter

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 0

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 5

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 10

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 15

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 20

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 25

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 30

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

phase1-4operati on. log

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 35

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 40

***** WARNI NG MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 45

***** WARNI NG MESSAGES *****
*** NONE ***

Runni ng AERMOD

Processi ng Spri ng

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spri ng sector 0

phase1-4operati on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spring sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spring sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spring sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spring sector 20

phase1-4operati on. l og

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spr i ng sector 25

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spr i ng sector 30

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spr i ng sector 35

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spri ng sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spri ng sector 45

***** WARNING MESSAGES *****
*** NONE ***

Runni ng AERMOD

Processi ng Summer

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 5

phase1-4operati on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 3

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 4

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 5

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 25

phase1-4operati on. l og

***** WARNI NG MESSAGE S *****

*** NONE ***

Runni ng AERMOD

Processi ng Autumn

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 0

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 5

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 10

phase1-4operati on. l og

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 05/16/18 17: 27: 21

REFINE started 05/16/18 17: 27: 21

phase1-4operation.log
AERMOD Finishes Successfully for REFINE stage 3 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 05/16/18 17:27:25

AERSCREEN Finished Successfully
With no errors or warnings
Check log file for details

Ending date and time 05/16/18 17:27:25

phase1-4operati on_max_conc_di stance.txt

Concentration	Distance	Elevation	Diag	Season/Month	Zo sector	Date
HO U* W*	DT/DZ ZICNV ZIMCH	M-0 LEN	ZO BOWEN	ALBEDO	REF WS	HT
REF TA HT						
0.22699E+01	1.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23726E+01	25.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.24811E+01	50.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.25831E+01	75.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.26794E+01	100.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27707E+01	125.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.28577E+01	150.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.29406E+01	175.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
* 0.30195E+01	200.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27612E+01	225.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21867E+01	250.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18989E+01	275.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16695E+01	300.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14922E+01	325.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13528E+01	350.01	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12398E+01	375.01	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11459E+01	400.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10666E+01	425.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.99814E+00	450.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.93824E+00	475.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

```

phase1-4operation_max_conc_distance.txt
 0.88532E+00 500.00 0.00 40.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.83797E+00 525.00 0.00 40.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.79570E+00 550.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.75743E+00 575.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.72261E+00 600.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.69067E+00 625.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.66115E+00 650.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.63383E+00 675.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.60859E+00 700.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.58504E+00 725.00 0.00 35.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.56323E+00 750.00 0.00 30.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.54291E+00 775.00 0.00 30.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.52359E+00 800.00 0.00 30.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.50552E+00 825.00 0.00 25.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.48858E+00 850.00 0.00 25.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.47262E+00 875.00 0.00 25.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.45758E+00 900.00 0.00 25.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.44339E+00 925.00 0.00 15.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.42992E+00 950.00 0.00 15.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.41717E+00 975.00 0.00 5.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0
 0.40508E+00 1000.00 0.00 10.0 Winter 0-360 10011001
-1.30 0.043 -9.000 0.020 -999. 21. 6.0 1.000 1.50 0.35 0.50 10.0
310.0 2.0

```

phase1-4operation_max_conc_distance.txt

0.39353E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.38248E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.37207E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.36204E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.35242E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.34341E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.33467E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.32616E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.31817E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.31055E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.30307E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.29590E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.28916E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.28268E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27635E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27022E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.26435E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.25873E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.25330E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.24805E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.24298E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1-4operation_max_conc_distance.txt

0.23808E+00	1550.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23341E+00	1575.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22881E+00	1600.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22438E+00	1625.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22011E+00	1650.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21599E+00	1675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21199E+00	1700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20809E+00	1725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20433E+00	1750.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20068E+00	1775.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19715E+00	1800.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19373E+00	1825.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19041E+00	1850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18721E+00	1875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18406E+00	1900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18100E+00	1924.99	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17804E+00	1950.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17516E+00	1975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17236E+00	2000.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16963E+00	2025.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16696E+00	2050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1-4operation_max_conc_distance.txt

0.16439E+00	2075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16189E+00	2100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15946E+00	2125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15708E+00	2150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15474E+00	2175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15247E+00	2200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15026E+00	2225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14811E+00	2250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14601E+00	2275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14397E+00	2300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14197E+00	2325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13999E+00	2350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13807E+00	2375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13619E+00	2400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13437E+00	2425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13259E+00	2450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13086E+00	2475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12915E+00	2500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12748E+00	2525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12585E+00	2550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12425E+00	2575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1-4operation_max_conc_distance.txt

0.12268E+00	2600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12115E+00	2625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11966E+00	2650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11819E+00	2675.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11677E+00	2700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11537E+00	2725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11401E+00	2750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11268E+00	2775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11137E+00	2800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11007E+00	2825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10881E+00	2850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10756E+00	2875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10635E+00	2900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10515E+00	2925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10398E+00	2950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10284E+00	2975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10171E+00	3000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10059E+00	3025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.99500E-01	3050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.98427E-01	3075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.97374E-01	3100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1-4operation_max_conc_distance.txt

0.96346E-01	3125.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.95339E-01	3150.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.94353E-01	3174.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.93385E-01	3199.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.92434E-01	3225.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.91497E-01	3250.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.90574E-01	3275.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.89668E-01	3300.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.88778E-01	3325.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.87904E-01	3350.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.87044E-01	3375.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.86192E-01	3400.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.85353E-01	3425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.84527E-01	3450.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.83717E-01	3475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.82927E-01	3500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.82150E-01	3525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.81383E-01	3550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.80628E-01	3575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.79885E-01	3600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.79154E-01	3625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1-4operation_max_conc_distance.txt

0.78434E-01	3650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.77727E-01	3675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.77034E-01	3700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.76352E-01	3725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.75681E-01	3750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.75020E-01	3775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.74369E-01	3800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.73728E-01	3825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.73097E-01	3850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.72475E-01	3875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71859E-01	3900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71249E-01	3925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.70649E-01	3950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.70058E-01	3975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.69475E-01	4000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.68901E-01	4025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.68335E-01	4050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.67777E-01	4075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.67221E-01	4100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.66673E-01	4125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.66133E-01	4150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

phase1-4operation_max_conc_distance.txt

0.65601E-01	4175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65076E-01	4200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.64558E-01	4225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.64048E-01	4250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63544E-01	4275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63047E-01	4300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.62560E-01	4325.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.62080E-01	4350.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.61605E-01	4375.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.61134E-01	4400.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60671E-01	4425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60219E-01	4449.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59772E-01	4475.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59329E-01	4500.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58891E-01	4525.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58459E-01	4550.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58033E-01	4575.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57612E-01	4600.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57195E-01	4625.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56782E-01	4650.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56374E-01	4675.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

```

phase1-4operation_max_conc_distance.txt
  0.55972E-01      4700.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.55575E-01      4725.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.55182E-01      4750.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.54795E-01      4775.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.54412E-01      4800.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.54033E-01      4825.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.53659E-01      4850.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.53288E-01      4875.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.52923E-01      4900.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.52562E-01      4925.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.52205E-01      4950.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.51852E-01      4975.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0
  0.51503E-01      5000.00      0.00      10.0      Winter      0-360      10011001
-1.30  0.043 -9.000  0.020 -999.  21.      6.0 1.000  1.50  0.35  0.50  10.0
310.0   2.0

```

operati on1-4andconstructi on5. l og

Start date and time 05/17/18 09:52:59

AERSCREEN 16216

Phase 1 through 4 operati on and constructi on Phase 5

----- DATA ENTRY VALI DATI ON -----

METRI C

ENGLI SH

** AREADATA **

Emission Rate:	0.728E-02 g/s	0.578E-01 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Vertical Dimension:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Population:	125948	
Dist to Ambient Air:	1.0 meters	3. feet

** BUILDING DATA **

No Building Downwash Parameters

** TERRAIN DATA **

No Terrain Elevations

Source Base Elevation:	0.0 meters	0.0 feet
------------------------	------------	----------

Probe distance:	5000. meters	16404. feet
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operati on1-4andconstructi on5. l og

No fl agpol e receptors

No di screte receptors used

** FUMI GATI ON DATA **

No fumi gati on requested

** METEOROLOGY DATA **

Mi n/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Mi ni mum Wi nd Speed: 0.5 m/s

Anemometer Hei ght: 10.000 meters

Domi nant Surface Profi le: Urban

Domi nant Cl i mate Type: Average Moi sture

Surface fri cti on vel oci ty (u^*): not adj usted

DEBUG OPTI ON OFF

AERSCREEN output fi le:

operati on1-4andconstructi on5. out

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 05/17/18 09:53:58

operati on1-4andconstructi on5. l og

Processi ng Wi nter

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 0

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 5

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Wi nter sector 10

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 4

operati on1-4andconstructi on5. l og
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 15

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 20

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 25

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 30

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 8

operati on1-4andconstructi on5. l og

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 35

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***** WARNING MESSAGES *****
*** NONE ***
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Processi ng wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 40

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***** WARNING MESSAGES *****
*** NONE ***
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Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 45

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***** WARNING MESSAGES *****
*** NONE ***
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Runni ng AERMOD

Processi ng Spri ng

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spri ng sector 0

operati on1-4andconstructi on5. l og

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 25

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 30

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 35

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 9

operati on1-4andconstructi on5. l og
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spring sector 40

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spring sector 45

***** WARNING MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Summer

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 5

operati on1-4andconstructi on5. l og

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 3

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 4

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 5

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Summer sector 25

operati on1-4andconstructi on5. l og

***** WARNING MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Autumn

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 30

operati on1-4andconstructi on5. l og

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 8

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 9

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 05/17/18 09: 54: 45

REFINE started 05/17/18 09: 54: 45

operati on1-4andconstructi on5. log
AERMOD Fi ni shes Successful ly for REFINE stage 3 Wi nter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 05/17/18 09: 54: 49

AERSCREEN Fi ni shed Successful ly
Wi th no errors or warni ngs
Check log fi le for detai ls

Endi ng date and ti me 05/17/18 09: 54: 50

operati on1-4andconstructi on5_max_conc_di stance.txt

Concentrati on	Di stance	El evati on	Di ag	Season/Month	Zo sector	Date							
HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-0	LEN	ZO	BOWEN	ALBEDO	REF	WS	HT
REF TA	HT												
0.25986E+01			1.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.27161E+01			25.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.28403E+01			50.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.29571E+01			75.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.30673E+01			100.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.31718E+01			125.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.32715E+01			150.00	0.00	35.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.33663E+01			175.00	0.00	35.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
* 0.34567E+01			200.00	0.00	35.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.31609E+01			225.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.25033E+01			250.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.21739E+01			275.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.19113E+01			300.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.17083E+01			325.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.15486E+01			350.01	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.14193E+01			375.01	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.13118E+01			400.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.12210E+01			425.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.11426E+01			450.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												
0.10741E+01			475.00	0.00	40.0			Wi nter		0-360		10011001	
-1.30	0.043	-9.000	0.020	-999.	21.		6.0	1.000	1.50	0.35		0.50	10.0
310.0	2.0												

operati on1-4andconstructi on5_max_conc_di stance. txt

0. 10135E+01	500. 00	0. 00	40. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 95929E+00	525. 00	0. 00	40. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 91090E+00	550. 00	0. 00	35. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 86709E+00	575. 00	0. 00	35. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 82723E+00	600. 00	0. 00	35. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 79067E+00	625. 00	0. 00	35. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 75687E+00	650. 00	0. 00	35. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 72559E+00	675. 00	0. 00	35. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 69670E+00	700. 00	0. 00	35. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 66974E+00	725. 00	0. 00	35. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 64477E+00	750. 00	0. 00	30. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 62151E+00	775. 00	0. 00	30. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 59940E+00	800. 00	0. 00	30. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 57871E+00	825. 00	0. 00	25. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 55932E+00	850. 00	0. 00	25. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 54104E+00	875. 00	0. 00	25. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 52382E+00	900. 00	0. 00	25. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 50759E+00	925. 00	0. 00	15. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 49216E+00	950. 00	0. 00	15. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 47756E+00	975. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						
0. 46372E+00	1000. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000	0. 020 -999.	21.	6. 0 1. 000 1. 50	0. 35	0. 50	10. 0
310. 0 2. 0						

operati on1-4andconstructi on5_max_conc_di stance.txt

0.45050E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.43785E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.42594E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.41446E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.40344E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.39312E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.38312E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.37338E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.36424E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.35551E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.34695E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.33874E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.33103E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.32360E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.31636E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.30934E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.30262E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.29619E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.28997E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.28396E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.27815E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						

operati on1-4andconstructi on5_max_conc_di stance. txt

0. 27255E+00	1550. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 26720E+00	1575. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 26194E+00	1600. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 25687E+00	1625. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 25198E+00	1650. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 24726E+00	1675. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 24268E+00	1700. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 23822E+00	1725. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 23392E+00	1750. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 22973E+00	1775. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 22569E+00	1800. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 22177E+00	1825. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 21798E+00	1850. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 21431E+00	1875. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 21071E+00	1900. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 20720E+00	1924. 99	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 20381E+00	1950. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 20051E+00	1975. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 19731E+00	2000. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 19419E+00	2025. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 19114E+00	2050. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						

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0.18819E+00	2075.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.18533E+00	2100.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.18255E+00	2125.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.17982E+00	2150.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.17715E+00	2175.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.17455E+00	2200.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.17202E+00	2225.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.16955E+00	2250.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.16715E+00	2275.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.16481E+00	2300.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.16252E+00	2325.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.16026E+00	2350.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.15806E+00	2375.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.15590E+00	2400.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.15382E+00	2425.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.15179E+00	2450.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.14980E+00	2475.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.14785E+00	2500.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.14594E+00	2525.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.14407E+00	2550.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						
0.14224E+00	2575.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50	10.0
310.0 2.0						

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0.14044E+00	2600.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.13869E+00	2625.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.13698E+00	2650.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.13531E+00	2675.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.13367E+00	2700.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.13208E+00	2725.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.13052E+00	2750.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.12899E+00	2775.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.12749E+00	2800.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.12601E+00	2825.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.12456E+00	2850.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.12314E+00	2875.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.12174E+00	2900.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.12038E+00	2925.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.11904E+00	2950.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.11773E+00	2975.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.11643E+00	3000.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.11516E+00	3025.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.11390E+00	3050.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.11268E+00	3075.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						
0.11147E+00	3100.00	0.00	0.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.				6.0 1.000 1.50 0.35	0.50 10.0	
310.0 2.0						

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0.11029E+00	3125.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.10914E+00	3150.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.10801E+00	3174.99	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.10690E+00	3199.99	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.10582E+00	3225.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.10474E+00	3250.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.10369E+00	3275.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.10265E+00	3300.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.10163E+00	3325.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.10063E+00	3350.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.99645E-01	3375.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.98670E-01	3400.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.97709E-01	3425.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.96765E-01	3450.00	0.00	10.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.95838E-01	3475.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.94933E-01	3500.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.94043E-01	3525.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.93165E-01	3550.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.92300E-01	3575.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.91450E-01	3600.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						
0.90613E-01	3625.00	0.00	5.0	Wi nter	0-360	10011001
-1.30 0.043 -9.000 0.020 -999. 21.			6.0 1.000 1.50 0.35		0.50 10.0	
310.0 2.0						

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0. 89790E-01	3650. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 88980E-01	3675. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 88187E-01	3700. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 87406E-01	3725. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 86637E-01	3750. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 85881E-01	3775. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 85136E-01	3800. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 84402E-01	3825. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 83679E-01	3850. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 82968E-01	3875. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 82262E-01	3900. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 81564E-01	3925. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 80877E-01	3950. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 80201E-01	3975. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 79534E-01	4000. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 78876E-01	4025. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 78229E-01	4050. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 77589E-01	4075. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 76953E-01	4100. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 76326E-01	4125. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						
0. 75708E-01	4150. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.			6. 0 1. 000 1. 50 0. 35		0. 50	10. 0
310. 0 2. 0						

operati on1-4andconstructi on5_max_conc_di stance. txt

0. 75098E-01	4175. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 74497E-01	4200. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 73904E-01	4225. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 73320E-01	4250. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 72744E-01	4275. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 72175E-01	4300. 00	0. 00	0. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 71618E-01	4325. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 71068E-01	4350. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 70524E-01	4375. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 69985E-01	4400. 00	0. 00	5. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 69455E-01	4425. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 68937E-01	4449. 99	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 68425E-01	4475. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 67918E-01	4500. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 67417E-01	4525. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 66922E-01	4550. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 66434E-01	4575. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 65953E-01	4600. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 65475E-01	4625. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 65003E-01	4650. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 64536E-01	4675. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						

operati on1-4andconstructi on5_max_conc_di stance. txt

0. 64075E-01	4700. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 63620E-01	4725. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 63171E-01	4750. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 62727E-01	4775. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 62289E-01	4800. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 61856E-01	4825. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 61427E-01	4850. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 61003E-01	4875. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 60585E-01	4900. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 60171E-01	4925. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 59763E-01	4950. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 59359E-01	4975. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						
0. 58960E-01	5000. 00	0. 00	10. 0	Wi nter	0-360	10011001
-1. 30 0. 043 -9. 000 0. 020 -999. 21.				6. 0 1. 000 1. 50 0. 35	0. 50	10. 0
310. 0 2. 0						

Full Project Buildout Log

Start date and time 05/16/18 17:33:35

AERSCREEN 16216

Gateway Crossings Full Project Buildout

----- DATA ENTRY VALIDATION -----

METRIC ENGLISH

** AREADATA **

Emission Rate:	0.686E-02 g/s	0.544E-01 lb/hr
Area Height:	3.00 meters	9.84 feet
Area Source Length:	330.00 meters	1082.68 feet
Area Source Width:	294.00 meters	964.57 feet
Vertical Dimension:	1.50 meters	4.92 feet
Model Mode:	URBAN	
Population:	125948	
Dist to Ambient Air:	1.0 meters	3. feet

** BUILDING DATA **

No Building Downwash Parameters

** TERRAIN DATA **

No Terrain Elevations

Source Base Elevation:	0.0 meters	0.0 feet
------------------------	------------	----------

Probe distance:	5000. meters	16404. feet
-----------------	--------------	-------------

fullprojectbuildout.log

No flagpole receptors

No discrete receptors used

** FUMIGATION DATA **

No fumigation requested

** METEOROLOGY DATA **

Min/Max Temperature: 250.0 / 310.0 K -9.7 / 98.3 Deg F

Minimum Wind Speed: 0.5 m/s

Anemometer Height: 10.000 meters

Dominant Surface Profile: Urban

Dominant Climate Type: Average Moisture

Surface friction velocity (u^*): not adjusted

DEBUG OPTION OFF

AERSCREEN output file:

fullprojectbuildout.out

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 05/16/18 17:34:34

Processi ng Wi nter

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 0

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 5

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 3

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Wi nter sector 10

***** WARNI NG MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 4

ful I project build out. Log
AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

fullprojectbuildout.log

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 45

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD

Processing Spring

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 0

ful I proj ectbui l dout. l og

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 25

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 30

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 8

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Spri ng sector 35

***** WARNI NG MESSAGE S *****

*** NONE ***

Processi ng wi nd fl ow sector 9

ful lproj ectbui ldout. log
AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spri ng sector 40

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 10

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Spri ng sector 45

***** WARNING MESSAGES *****

*** NONE ***

Runni ng AERMOD

Processi ng Summer

Processi ng surface roughness sector 1

Processi ng wi nd fl ow sector 1

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processi ng wi nd fl ow sector 2

AERMOD Fi ni shes Successful ly for FLOWSECTOR stage 2 Summer sector 5

full project build.out.log

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 25

***** WARNING MESSAGES *****

*** NONE ***

Running AERMOD

Processing Autumn

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****

*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 4

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 5

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 6

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processi ng wi nd fl ow sector 7

AERMOD Fi ni shes Successful l y for FLOWSECTOR stage 2 Autumn sector 30

full project build out. log

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 05/16/18 17: 35: 20

REFINE started 05/16/18 17: 35: 20

fullprojectbuildout.log
AERMOD Finishes Successfully for REFINE stage 3 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 05/16/18 17:35:23

AERSCREEN Finished Successfully
With no errors or warnings
Check log file for details

Ending date and time 05/16/18 17:35:24

full project buildout_max_conc_distance.txt

Concentration		W*	Distance		Elevation	Diag	Season/Month	Zosector			Date		
HO	U*		DT/DZ	ZICNV				ZIMCH	M-0	LEN		ZO	BOWEN
REF TA	HT												
	0.24486E+01		1.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.25593E+01		25.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.26764E+01		50.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.27864E+01		75.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.28904E+01		100.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.29888E+01		125.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.30827E+01		150.00	0.00	35.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.31720E+01		175.00	0.00	35.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
*	0.32572E+01		200.00	0.00	35.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.29785E+01		225.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.23588E+01		250.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.20484E+01		275.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.18010E+01		300.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.16097E+01		325.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.14593E+01		350.01	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.13374E+01		375.01	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.12362E+01		400.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.11506E+01		425.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.10767E+01		450.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												
	0.10121E+01		475.00	0.00	40.0		Winter		0-360		10011001		
-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.50	0.35	0.50	10.0		
310.0	2.0												

fullprojectbuildout_max_conc_distance.txt

0.95501E+00	500.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.90394E+00	525.00	0.00	40.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.85834E+00	550.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.81705E+00	575.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.77950E+00	600.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.74504E+00	625.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71320E+00	650.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.68372E+00	675.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65650E+00	700.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63110E+00	725.00	0.00	35.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60756E+00	750.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58565E+00	775.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56481E+00	800.00	0.00	30.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.54531E+00	825.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.52704E+00	850.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.50982E+00	875.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.49360E+00	900.00	0.00	25.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.47830E+00	925.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.46376E+00	950.00	0.00	15.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.45000E+00	975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.43697E+00	1000.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

fullprojectbuildout_max_conc_distance.txt

0.42450E+00	1025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.41259E+00	1050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.40136E+00	1075.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.39054E+00	1100.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.38016E+00	1125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.37044E+00	1150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.36101E+00	1175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.35184E+00	1200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.34322E+00	1225.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.33500E+00	1250.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.32693E+00	1275.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.31920E+00	1300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.31193E+00	1325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.30493E+00	1350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.29811E+00	1375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.29149E+00	1400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.28516E+00	1425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27910E+00	1450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.27324E+00	1475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.26758E+00	1500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.26210E+00	1525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

fullprojectbuildout_max_conc_distance.txt

0.25682E+00	1550.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.25178E+00	1575.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.24682E+00	1600.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.24205E+00	1625.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23744E+00	1650.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.23299E+00	1675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22868E+00	1700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22447E+00	1725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.22042E+00	1750.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21648E+00	1775.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.21267E+00	1800.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20898E+00	1825.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20540E+00	1850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.20195E+00	1875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19855E+00	1900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19525E+00	1924.99	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.19205E+00	1950.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18894E+00	1975.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18593E+00	2000.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18298E+00	2025.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.18011E+00	2050.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

fullprojectbuildout_max_conc_distance.txt

0.17733E+00	2075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17464E+00	2100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.17202E+00	2125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16944E+00	2150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16693E+00	2175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16448E+00	2200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.16209E+00	2225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15977E+00	2250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15751E+00	2275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15530E+00	2300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15315E+00	2325.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.15101E+00	2350.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14894E+00	2375.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14691E+00	2400.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14494E+00	2425.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14303E+00	2450.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.14116E+00	2475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13932E+00	2500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13752E+00	2525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13576E+00	2550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13403E+00	2575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

fullprojectbuildout_max_conc_distance.txt

0.13234E+00	2600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.13069E+00	2625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12908E+00	2650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12750E+00	2675.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12596E+00	2700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12446E+00	2725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12299E+00	2750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12155E+00	2775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.12013E+00	2800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11874E+00	2825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11737E+00	2850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11603E+00	2875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11472E+00	2900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11343E+00	2925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11217E+00	2950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.11094E+00	2975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10971E+00	3000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10851E+00	3025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10733E+00	3050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10617E+00	3075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10504E+00	3100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

full project buildout_max_conc_distance.txt

0.10393E+00	3125.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10284E+00	3150.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10178E+00	3174.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.10074E+00	3199.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.99711E-01	3225.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.98700E-01	3250.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.97704E-01	3275.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.96727E-01	3300.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.95767E-01	3325.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.94824E-01	3350.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.93896E-01	3375.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.92977E-01	3400.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.92071E-01	3425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.91181E-01	3450.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.90307E-01	3475.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.89455E-01	3500.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.88617E-01	3525.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.87789E-01	3550.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.86974E-01	3575.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.86173E-01	3600.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.85384E-01	3625.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

fullprojectbuildout_max_conc_distance.txt

0.84609E-01	3650.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.83846E-01	3675.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.83098E-01	3700.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.82363E-01	3725.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.81638E-01	3750.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.80925E-01	3775.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.80223E-01	3800.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.79532E-01	3825.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.78851E-01	3850.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.78181E-01	3875.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.77515E-01	3900.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.76858E-01	3925.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.76210E-01	3950.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.75573E-01	3975.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.74944E-01	4000.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.74325E-01	4025.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.73715E-01	4050.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.73112E-01	4075.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.72513E-01	4100.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71922E-01	4125.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.71339E-01	4150.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

fullprojectbuildout_max_conc_distance.txt

0.70765E-01	4175.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.70198E-01	4200.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.69640E-01	4225.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.69089E-01	4250.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.68546E-01	4275.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.68011E-01	4300.00	0.00	0.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.67485E-01	4325.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.66967E-01	4350.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.66454E-01	4375.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65947E-01	4400.00	0.00	5.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.65447E-01	4425.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.64959E-01	4449.99	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.64477E-01	4475.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63999E-01	4500.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63527E-01	4525.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.63061E-01	4550.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.62601E-01	4575.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.62147E-01	4600.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.61697E-01	4625.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.61252E-01	4650.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.60812E-01	4675.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

fullprojectbuildout_max_conc_distance.txt

0.60378E-01	4700.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59949E-01	4725.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59526E-01	4750.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.59108E-01	4775.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58695E-01	4800.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.58286E-01	4825.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57882E-01	4850.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57483E-01	4875.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.57089E-01	4900.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56699E-01	4925.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.56314E-01	4950.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.55934E-01	4975.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						
0.55558E-01	5000.00	0.00	10.0	Winter	0-360	10011001
-1.30 0.043 -9.000	0.020 -999.	21.	6.0 1.000 1.50	0.35	0.50	10.0
310.0 2.0						

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

**Gateway Crossings Full Project Build Out
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	3,114.00	Space	0.00	1,245,600.00	0
Parking Lot	21.00	Space	0.00	8,400.00	0
Hotel	250.00	Room	0.00	190,000.00	0
High Turnover (Sit Down Restaurant)	10.00	1000sqft	0.00	10,000.00	0
Apartments Mid Rise	1,600.00	Dwelling Unit	24.00	1,600,000.00	4576
Strip Mall	15.00	1000sqft	0.00	15,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	380	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

Project Characteristics - per the DEIR's CalEEMod

Land Use - land use sizes per the DEIR

Construction Phase - operation only

Off-road Equipment -

Vehicle Trips - mall, apartments, and hotel trips rates per the DEIR; restaurant not included in the TIA, so defaults used

Woodstoves - per the DEIR

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	240.00	512.00
tblFireplaces	NumberWood	272.00	0.00
tblLandUse	LandUseSquareFeet	363,000.00	190,000.00
tblLandUse	LotAcreage	28.03	0.00
tblLandUse	LotAcreage	0.19	0.00
tblLandUse	LotAcreage	8.33	0.00
tblLandUse	LotAcreage	0.23	0.00
tblLandUse	LotAcreage	42.11	24.00
tblLandUse	LotAcreage	0.34	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	380
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	135.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	60.00
tblVehicleTrips	ST_TR	6.39	5.75

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tblVehicleTrips	ST_TR	8.19	7.95
tblVehicleTrips	ST_TR	42.04	30.42
tblVehicleTrips	SU_TR	5.86	5.27
tblVehicleTrips	SU_TR	5.95	5.77
tblVehicleTrips	SU_TR	20.43	14.71
tblVehicleTrips	WD_TR	6.65	6.00
tblVehicleTrips	WD_TR	8.17	7.93
tblVehicleTrips	WD_TR	44.32	32.07
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-16-2018	8-15-2018	0.0189	0.0189
		Highest	0.0189	0.0189

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.7998	0.1922	11.9237	9.8000e-004		0.0704	0.0704		0.0704	0.0704	0.0000	83.3847	83.3847	0.0200	1.1700e-003	84.2331
Energy	0.1313	1.1533	0.7048	7.1600e-003		0.0907	0.0907		0.0907	0.0907	0.0000	3,989.7132	3,989.7132	0.2302	0.0663	4,015.2262
Mobile	2.2780	9.0323	25.4549	0.0984	10.2880	0.0774	10.3654	2.7535	0.0720	2.8255	0.0000	9,030.9146	9,030.9146	0.2766	0.0000	9,037.8298
Stationary						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	204.5398	0.0000	204.5398	12.0880	0.0000	506.7387
Water						0.0000	0.0000		0.0000	0.0000	36.4000	147.6098	184.0098	3.7499	0.0906	304.7582
Total	11.2091	10.3778	38.0834	0.1065	10.2880	0.2386	10.5266	2.7535	0.2331	2.9866	240.9398	13,251.6223	13,492.5621	16.3646	0.1581	13,948.7859

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.7998	0.1922	11.9237	9.8000e-004		0.0704	0.0704		0.0704	0.0704	0.0000	83.3847	83.3847	0.0200	1.1700e-003	84.2331
Energy	0.1313	1.1533	0.7048	7.1600e-003		0.0907	0.0907		0.0907	0.0907	0.0000	3,989.7132	3,989.7132	0.2302	0.0663	4,015.2262
Mobile	2.2780	9.0323	25.4549	0.0984	10.2880	0.0774	10.3654	2.7535	0.0720	2.8255	0.0000	9,030.9146	9,030.9146	0.2766	0.0000	9,037.8298
Stationary						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	204.5398	0.0000	204.5398	12.0880	0.0000	506.7387
Water						0.0000	0.0000		0.0000	0.0000	36.4000	147.6098	184.0098	3.7499	0.0906	304.7582
Total	11.2091	10.3778	38.0834	0.1065	10.2880	0.2386	10.5266	2.7535	0.2331	2.9866	240.9398	13,251.6223	13,492.5621	16.3646	0.1581	13,948.7859

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/16/2018	5/16/2018	5	1	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0300e-003	0.0000	9.0300e-003	4.9700e-003	0.0000	4.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2800e-003	0.0241	0.0112	2.0000e-005		1.2900e-003	1.2900e-003		1.1900e-003	1.1900e-003	0.0000	1.7380	1.7380	5.4000e-004	0.0000	1.7515
Total	2.2800e-003	0.0241	0.0112	2.0000e-005	9.0300e-003	1.2900e-003	0.0103	4.9700e-003	1.1900e-003	6.1600e-003	0.0000	1.7380	1.7380	5.4000e-004	0.0000	1.7515

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0651	0.0651	0.0000	0.0000	0.0652
Total	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0651	0.0651	0.0000	0.0000	0.0652

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3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0300e-003	0.0000	9.0300e-003	4.9700e-003	0.0000	4.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2800e-003	0.0241	0.0112	2.0000e-005		1.2900e-003	1.2900e-003		1.1900e-003	1.1900e-003	0.0000	1.7380	1.7380	5.4000e-004	0.0000	1.7515
Total	2.2800e-003	0.0241	0.0112	2.0000e-005	9.0300e-003	1.2900e-003	0.0103	4.9700e-003	1.1900e-003	6.1600e-003	0.0000	1.7380	1.7380	5.4000e-004	0.0000	1.7515

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0651	0.0651	0.0000	0.0000	0.0652
Total	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0651	0.0651	0.0000	0.0000	0.0652

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.2780	9.0323	25.4549	0.0984	10.2880	0.0774	10.3654	2.7535	0.0720	2.8255	0.0000	9,030.9146	9,030.9146	0.2766	0.0000	9,037.8298
Unmitigated	2.2780	9.0323	25.4549	0.0984	10.2880	0.0774	10.3654	2.7535	0.0720	2.8255	0.0000	9,030.9146	9,030.9146	0.2766	0.0000	9,037.8298

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	9,600.00	9,200.00	8432.00	21,654,878	21,654,878
Enclosed Parking Structure	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,271.50	1,583.70	1318.40	1,534,798	1,534,798
Hotel	1,982.50	1,987.50	1442.50	3,621,404	3,621,404
Parking Lot	0.00	0.00	0.00		
Strip Mall	481.05	456.30	220.65	859,975	859,975
Total	13,335.05	13,227.50	11,413.55	27,671,054	27,671,054

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down Restaurant)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	60	40	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681
Enclosed Parking Structure	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681
High Turnover (Sit Down Restaurant)	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681
Hotel	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681
Parking Lot	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681
Strip Mall	0.618126	0.034987	0.181060	0.102744	0.012808	0.005030	0.012887	0.022139	0.002195	0.001502	0.005204	0.000638	0.000681

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	2,689.9646	2,689.9646	0.2053	0.0425	2,707.7537
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	2,689.9646	2,689.9646	0.2053	0.0425	2,707.7537
NaturalGas Mitigated	0.1313	1.1533	0.7048	7.1600e-003			0.0907	0.0907		0.0907	0.0000	1,299.7487	1,299.7487	0.0249	0.0238	1,307.4724
NaturalGas Unmitigated	0.1313	1.1533	0.7048	7.1600e-003			0.0907	0.0907		0.0907	0.0000	1,299.7487	1,299.7487	0.0249	0.0238	1,307.4724

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.38231e+007	0.0745	0.6370	0.2710	4.0700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	737.6543	737.6543	0.0141	0.0135	742.0378
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.0788e+006	0.0112	0.1019	0.0856	6.1000e-004		7.7400e-003	7.7400e-003		7.7400e-003	7.7400e-003	0.0000	110.9327	110.9327	2.1300e-003	2.0300e-003	111.5919
Hotel	8.4189e+006	0.0454	0.4127	0.3467	2.4800e-003		0.0314	0.0314		0.0314	0.0314	0.0000	449.2646	449.2646	8.6100e-003	8.2400e-003	451.9343
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	35550	1.9000e-004	1.7400e-003	1.4600e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8971	1.8971	4.0000e-005	3.0000e-005	1.9084
Total		0.1313	1.1533	0.7048	7.1700e-003		0.0907	0.0907		0.0907	0.0907	0.0000	1,299.7487	1,299.7487	0.0249	0.0238	1,307.4724

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.38231e+007	0.0745	0.6370	0.2710	4.0700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	737.6543	737.6543	0.0141	0.0135	742.0378
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.0788e+006	0.0112	0.1019	0.0856	6.1000e-004		7.7400e-003	7.7400e-003		7.7400e-003	7.7400e-003	0.0000	110.9327	110.9327	2.1300e-003	2.0300e-003	111.5919
Hotel	8.4189e+006	0.0454	0.4127	0.3467	2.4800e-003		0.0314	0.0314		0.0314	0.0314	0.0000	449.2646	449.2646	8.6100e-003	8.2400e-003	451.9343
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	35550	1.9000e-004	1.7400e-003	1.4600e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8971	1.8971	4.0000e-005	3.0000e-005	1.9084
Total		0.1313	1.1533	0.7048	7.1700e-003		0.0907	0.0907		0.0907	0.0907	0.0000	1,299.7487	1,299.7487	0.0249	0.0238	1,307.4724

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	6.60536e+006	1,138.5335	0.0869	0.0180	1,146.0628
Enclosed Parking Structure	7.06255e+006	1,217.3375	0.0929	0.0192	1,225.3879
High Turnover (Sit Down Restaurant)	327200	56.3979	4.3000e-003	8.9000e-004	56.7708
Hotel	1.4478e+006	249.5502	0.0190	3.9400e-003	251.2005
Parking Lot	2940	0.5068	4.0000e-005	1.0000e-005	0.5101
Strip Mall	160350	27.6387	2.1100e-003	4.4000e-004	27.8215
Total		2,689.9646	0.2053	0.0425	2,707.7537

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	6.60536e+006	1,138.5335	0.0869	0.0180	1,146.0628
Enclosed Parking Structure	7.06255e+006	1,217.3375	0.0929	0.0192	1,225.3879
High Turnover (Sit Down Restaurant)	327200	56.3979	4.3000e-003	8.9000e-004	56.7708
Hotel	1.4478e+006	249.5502	0.0190	3.9400e-003	251.2005
Parking Lot	2940	0.5068	4.0000e-005	1.0000e-005	0.5101
Strip Mall	160350	27.6387	2.1100e-003	4.4000e-004	27.8215
Total		2,689.9646	0.2053	0.0425	2,707.7537

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.7998	0.1922	11.9237	9.8000e-004		0.0704	0.0704		0.0704	0.0704	0.0000	83.3847	83.3847	0.0200	1.1700e-003	84.2331
Unmitigated	8.7998	0.1922	11.9237	9.8000e-004		0.0704	0.0704		0.0704	0.0704	0.0000	83.3847	83.3847	0.0200	1.1700e-003	84.2331

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.2646					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.1695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9177	63.9177	1.2300e-003	1.1700e-003	64.2976
Landscaping	0.3592	0.1370	11.9002	6.3000e-004		0.0660	0.0660		0.0660	0.0660	0.0000	19.4670	19.4670	0.0187	0.0000	19.9356
Total	8.7998	0.1922	11.9237	9.8000e-004		0.0704	0.0704		0.0704	0.0704	0.0000	83.3847	83.3847	0.0200	1.1700e-003	84.2331

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.2646					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.1695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9177	63.9177	1.2300e-003	1.1700e-003	64.2976
Landscaping	0.3592	0.1370	11.9002	6.3000e-004		0.0660	0.0660		0.0660	0.0660	0.0000	19.4670	19.4670	0.0187	0.0000	19.9356
Total	8.7998	0.1922	11.9237	9.8000e-004		0.0704	0.0704		0.0704	0.0704	0.0000	83.3847	83.3847	0.0200	1.1700e-003	84.2331

7.0 Water Detail

7.1 Mitigation Measures Water

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	184.0098	3.7499	0.0906	304.7582
Unmitigated	184.0098	3.7499	0.0906	304.7582

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	104.246 / 65.7206	169.9476	3.4073	0.0824	279.6764
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.03534 / 0.193745	3.9108	0.0991	2.3800e-003	7.0989
Hotel	6.34169 / 0.704632	8.3517	0.2071	4.9800e-003	15.0138
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.11109 / 0.680989	1.7996	0.0363	8.8000e-004	2.9690
Total		184.0098	3.7499	0.0906	304.7582

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	104.246 / 65.7206	169.9476	3.4073	0.0824	279.6764
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.03534 / 0.193745	3.9108	0.0991	2.3800e-003	7.0989
Hotel	6.34169 / 0.704632	8.3517	0.2071	4.9800e-003	15.0138
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.11109 / 0.680989	1.7996	0.0363	8.8000e-004	2.9690
Total		184.0098	3.7499	0.0906	304.7582

8.0 Waste Detail

8.1 Mitigation Measures Waste

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	204.5398	12.0880	0.0000	506.7387
Unmitigated	204.5398	12.0880	0.0000	506.7387

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	736	149.4014	8.8294	0.0000	370.1355
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	119	24.1559	1.4276	0.0000	59.8453
Hotel	136.88	27.7854	1.6421	0.0000	68.8372
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	15.75	3.1971	0.1889	0.0000	7.9207
Total		204.5398	12.0880	0.0000	506.7387

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	736	149.4014	8.8294	0.0000	370.1355
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	119	24.1559	1.4276	0.0000	59.8453
Hotel	136.88	27.7854	1.6421	0.0000	68.8372
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	15.75	3.1971	0.1889	0.0000	7.9207
Total		204.5398	12.0880	0.0000	506.7387

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	135	0.73	

Gateway Crossings Full Project Build Out - Santa Clara County, Annual

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total						0.0000	0.0000		0.0000							

11.0 Vegetation

EXHIBIT B



May 25, 2018

Nirit Lotan.
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080-7037

Subject: Gateway Crossings Draft Environmental Impact Project (SCH # 2017022066)

Dear Ms. Lotan:

At your request, I reviewed Draft Environmental Impact Report (the "DEIR") for the Gateway Crossings Project (the "Project") in the City of Santa Clara (the "City"). My review is with respect to transportation and circulation considerations.

My qualifications to perform this include registration as a Civil and Traffic Engineer in California and 49 years professional practice in this state. I have prepared or commented on Environmental Documents prepared under the California Environmental Quality Act ("CEQA") on similar projects. My professional resume is attached hereto.

Technical comments on the DEIR follow:

The DEIR Fails to Present an Accurate Analysis of the Project's Impacts on the Existing Transportation Environment Because Traffic Counts Do Not Properly Represent the Environmental Setting of the Project

CEQA Guidelines §15125 (a) provides that the ordinary baseline for measuring impacts is the environmental condition that existed at the time the Notice of Preparation ("NOP") for the Project was circulated or if there was no NOP, the date environmental analysis for the Project was initiated. This DEIR's NOP was issued in February, 2017. The prior use of the site was terminated between January and April 2016 and the prior building on the site was demolished

between late 2016 and early 2017. Yet the baseline traffic counts for the “existing traffic condition” are a hodge-podge of counts taken from September, 2014 and dates in 2015 when there was some level of prior use of the Project site and dates in March of 2017 when prior activity on the Project site had clearly been terminated. Hence, there is no clear environmental baseline of traffic conditions that existed at the time of the NOP. In fact, of the 18 existing intersections for which traffic analysis was performed, in the AM peak hour, 11 were counted in 2014 or 2015 when the prior use was contributing to the baseline and the other 7 were counted in March, 2017 when the prior use had clearly terminated. In the PM peak hour, 10 of the intersections were counted when the prior use was contributing traffic to the traffic baseline while 8 intersections were counted after the prior use had clearly terminated. Also, none of the counts taken in 2014 or 2015 were adjusted to ambient traffic growth to 2017. As a result, the DEIR fails to properly represent the environmental setting of the project. The DEIR should be revised to properly reflect the environmental setting of the project and its impact.

The Project’s Trip Generation Analysis Understates Net New Project Trips

As noted above, the prior use of the Project site was terminated well before the issuance of the NOP for the project and the prior facilities on site were demolished well before that date. Yet the Project’s trip generation analysis deducts the *full theoretical trip generation of the prior use at full occupancy from the trip generation of the Project as if that use had existed at the time of the NOP and as if it had been measured in all of the baseline counts*. The inappropriate trip credit taken for the trips of the prior use can be seen in DEIR Table 3.17-5 and in Appendix G, Table 7. This results in an 18.37 percent reduction in the net new daily trips, a 37.8 percent reduction in the AM peak trips and a 27.29 percent reduction in the PM trips actually generated by the Project. As a result, the Project’s transportation impacts are greatly underestimated. A revised DEIR should be prepared that will account for the full transportation impact of the Project.

The Existing + Project Analysis Reflects Further Confusion because it Is Based on the Project’s Trip Generation Without Deducting Credit for the Prior Use

The DEIR’s Existing + Project analysis attempts to compensate for the muddled traffic count base by, as explained on Appendix G page 32, calculating the level of service impacts by assigning and adding the Project’s net new trips without deducting trip credit for the prior R&D use to the measured traffic volumes. This, however, does not compensate for the abovementioned problem of failing to properly represent the environmental setting.

The DEIR's Short Range Traffic Analysis Is Yet More Convoluted

The DEIR's short range analysis (Existing + Background Projects + Project) attempts to compensate for the muddled traffic baseline in a different way. It allows the credit for the trips of the prior use of the Project site to be deducted from the Project's trip generation. But it attempts to compensate and get the end result traffic impacts and mitigation needs right by including the theoretical trips of the prior use as if the former R&D facility were a concurrent project (thereby seeming to offset their inappropriate deduction from the Project's trip generation).

However, this adjustment neither compensates for the strange admixture of existing traffic counts, nor does it properly account for the Project's full increment to, and fair share financial contribution responsibility for, traffic impacts¹. That is, the analysis improperly reduces the project's relative share by 1) allowing the project to take credit for the R&D trips, which unjustifiably reduces the project's relative share, while 2) at the same time, adding the former R&D facility trips to the existing trips (i.e., "enlarges the pie" of trips), thus further reducing the project's relative share of impacts. The fair share must be based on the Project's contribution of trips without deduction of prior use trips from the Project's trip totals. The analysis must be revised to accurately reflect the Project's fair share of transportation impacts.

Some Impacts on Transit Services Are Not Disclosed, Other Impacts Disclosed Are Summarily Dismissed and Should Be Analyzed

The DEIR assumes a 9 percent reduction in the motor vehicle trip generation of the Project's housing component based on its proximity to the Santa Clara Caltrain Station and the VTA transit lines that service it. However, the DEIR fails to analyze what impact adding those trips, which amount to 74 trips in the AM peak hour and 89 trips in the PM peak hour over and above the transit trips that would normally take place from a housing project located beyond a half-mile from a rail station, would have with regard to overcrowding on Caltrain and the VTA lines at that location.

The DEIR does estimate the Project traffic's impacts with regard to delay of VTA transit services. It discloses that peak hour delay impacts on some VTA lines could be generally less than three minutes. The details of the analysis, presented in Appendix G state that delays to transit are no greater than two minutes, but this appears to be referring to delays to individual lines at individual impact intersections. If the delays at all the affected intersections on a particular route are considered, the three-minute figure stated in the DEIR could be entirely reasonable as a net delay experienced. However, the DEIR and its Appendix G

¹ As noted above, none of the 'early' traffic counts were adjusted for ambient traffic growth to the time of the NOP.

summarily dismiss these findings as merely informational because neither VTA nor the City of Santa Clara have established policies or significance criteria related to transit vehicle delay. The concurrent background projects identified in the transportation analysis comprise a list of 105 individual projects that easily involve, in aggregate, 10 or more times the trip generation of the subject Project. If each group of projects that had a trip generation equivalent to the subject Project were to create a three-minute delay for VTA lines, the transit system in the area would become completely bogged down and dysfunctional.

The agency should adopt a significance threshold to analyze the impact on public transit. Performance measures are used by different California Metropolitan Planning Organizations to evaluate the performance of public transit. Such measures are used to evaluate mobility – the degree of ease of travel between origins and destinations. Such thresholds may be qualitative or quantitative, such as average speed, relative delay time or travel time. (see Mineta Transportation Institute, “Transit Performance Measures in California”, April 2016).

The Reduced Development Alternative is Environmentally Superior to the Proposed Development

The DEIR discloses the Project (Option 2) would have the following significant traffic impacts:

Existing + Project Condition

The Project would significantly impact 2 intersections in the Existing + Project condition; 2 in the City of Santa Clara, but one of which is under jurisdiction is a CMP intersection under jurisdiction of Santa Clara County. Feasible mitigations for these locations are defined but because of jurisdictional issues affecting implementation at the County intersection location, the impacts are characterized as significant and unavoidable.

The Project would significantly impact mixed flow lanes on 21 freeway segments in at least one of the AM or PM peak hours. The DEIR identifies feasible mitigation for these impacts but because of jurisdictional issues affecting implementation and because the mitigations are not fully funded, classifies impacts at all of these locations as significant and unavoidable.

Background + Project Condition

The Project would significantly impact 5 intersections within the Cities of Santa Clara and San Jose, three of which are CMP intersections. The DEIR identifies feasible mitigations at all of these locations, but because of jurisdictional issues,

but because of jurisdictional issues affecting implementation, classifies impacts at four locations as significant and unavoidable.

The Project would significantly impact mixed flow lanes on 21 freeway segments in at least one of the AM or PM peak hours. The DEIR identifies feasible mitigation for these impacts but because of jurisdictional issues affecting implementation and because the mitigations are not fully funded, classifies impacts at all of these locations as significant and unavoidable.

Cumulative + Project Condition

The Project would have impacts that are cumulatively considerable at 7 intersections within the Cities of Santa Clara and San Jose, 5 of which are CMP intersections. Feasible mitigation measures are disclosed for all of the intersections but the DEIR classifies impacts at 6 of the locations as significant and unavoidable because of jurisdictional issues affecting implementation.

The DEIR traffic analysis does not include a freeway segment analysis for the Cumulative + Project condition.

Project Option 1

The DEIR and its Appendix G discloses that Project Option 1, which has 200 less dwelling units than Project Option 2 that is the basis for the disclosures summarized above, would have the same intersection impacts and one less freeway segment impact than summarized above.

Based on the foregoing, it is evident that the Project would have extensive traffic impacts, many of which may be unavoidable, or if not, would remain unmitigated for a lengthy period of time. The Reduced Development Alternative avoids the Project's significant and unavoidable transportation impacts and is classified as the environmentally superior alternative.

Conclusion

This completes my current comments on the Gateway Crossings Mixed Use Development DEIR. For the reasons stated above, the DEIR's transportation analysis is inadequate and must be revised. The revised version should be recirculated in 'draft' status.

Ms. Nirit Lotan
Adams Broadwell Joseph & Cardozo
May 25, 2018
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Sincerely,

Smith Engineering & Management
A California Corporation



Daniel T. Smith Jr., P.E.
President



SMITH ENGINEERING & MANAGEMENT

DANIEL T. SMITH, Jr.
President

EDUCATION

Bachelor of Science, Engineering and Applied Science, Yale University, 1967
Master of Science, Transportation Planning, University of California, Berkeley, 1968

PROFESSIONAL REGISTRATION

California No. 21913 (Civil) Nevada No. 7969 (Civil) Washington No. 29337 (Civil)
California No. 938 (Traffic) Arizona No. 22131 (Civil)

PROFESSIONAL EXPERIENCE

Smith Engineering & Management, 1993 to present, President.
DKS Associates, 1979 to 1993. Founder, Vice President, Principal Transportation Engineer.
De Leuw, Cather & Company, 1968 to 1979. Senior Transportation Planner.
Personal specialties and project experience include:

Litigation Consulting. Provides consultation, investigations and expert witness testimony in highway design, transit design and traffic engineering matters including condemnations involving transportation access issues; traffic accidents involving highway design or traffic engineering factors; land use and development matters involving access and transportation impacts; parking and other traffic and transportation matters.

Urban Corridor Studies/Alternatives Analysis. Principal-in-charge for State Route (SR) 102 Feasibility Study, a 35-mile freeway alignment study north of Sacramento. Consultant on I-280 Interstate Transfer Concept Program, San Francisco, an AA/EIS for completion of I-280, demolition of Embarcadero freeway, substitute light rail and commuter rail projects. Principal-in-charge, SR 238 corridor freeway/expressway design/environmental study, Hayward (Calif.) Project manager, Sacramento Northeast Area multi-modal transportation corridor study. Transportation planner for I-80N West Terminal Study, and Harbor Drive Traffic Study, Portland, Oregon. Project manager for design of surface segment of Woodward Corridor LRT, Detroit, Michigan. Directed staff on I-80 National Strategic Corridor Study (Sacramento-San Francisco), US 101-Sonoma freeway operations study, SR 92 freeway operations study, I-880 freeway operations study, SR 152 alignment studies, Sacramento RTD light rail systems study, Tasman Corridor LRT AA/EIS, Fremont-Warm Springs BART extension plan/EIR, SRs 70/99 freeway alternatives study, and Richmond Parkway (SR 93) design study.

Area Transportation Plans. Principal-in charge for transportation element of City of Los Angeles General Plan Framework, shaping nations largest city two decades into 21st century. Project manager for the transportation element of 300-acre Mission Bay development in downtown San Francisco. Mission Bay involves 7 million gsf office/commercial space, 8,500 dwelling units, and community facilities. Transportation features include relocation of commuter rail station; extension of MUNI-Metro LRT; a multi-modal terminal for LRT, commuter rail and local bus; removal of a quarter mile elevated freeway; replacement by new ramps and a boulevard; an internal roadway network overcoming constraints imposed by an internal tidal basin; freeway structures and rail facilities; and concept plans for 20,000 structured parking spaces. Principal-in-charge for circulation plan to accommodate 9 million gsf of office/commercial growth in downtown Bellevue (Wash.). Principal-in-charge for 64 acre, 2 million gsf multi-use complex for FMC adjacent to San Jose International Airport. Project manager for transportation element of Sacramento Capitol Area Plan for the state governmental complex, and for Downtown Sacramento Redevelopment Plan. Project manager for Napa (Calif.) General Plan Circulation Element and Downtown Riverfront Redevelopment Plan, on parking program for downtown Walnut Creek, on downtown transportation plan for San Mateo and redevelopment plan for downtown Mountain View (Calif.), for traffic circulation and safety plans for California cities of Davis, Pleasant Hill and Hayward, and for Salem, Oregon.

Transportation Centers. Project manager for Daly City Intermodal Study which developed a \$7 million surface bus terminal, traffic access, parking and pedestrian circulation improvements at the Daly City BART station plus development of functional plans for a new BART station at Colma. Project manager for design of multi-modal terminal (commuter rail, light rail, bus) at Mission Bay, San Francisco. In Santa Clarita Long Range Transit Development Program, responsible for plan to relocate system's existing timed-transfer hub and development of three satellite transfer hubs. Performed airport ground transportation system evaluations for San Francisco International, Oakland International, Sea-Tac International, Oakland International, Los Angeles International, and San Diego Lindberg.

Campus Transportation. Campus transportation planning assignments for UC Davis, UC Berkeley, UC Santa Cruz and UC San Francisco Medical Center campuses; San Francisco State University; University of San Francisco; and the University of Alaska and others. Also developed master plans for institutional campuses including medical centers, headquarters complexes and research & development facilities.

Special Event Facilities. Evaluations and design studies for football/baseball stadiums, indoor sports arenas, horse and motor racing facilities, theme parks, fairgrounds and convention centers, ski complexes and destination resorts throughout western United States.

Parking. Parking programs and facilities for large area plans and individual sites including downtowns, special event facilities, university and institutional campuses and other large site developments; numerous parking feasibility and operations studies for parking structures and surface facilities; also, resident preferential parking .

Transportation System Management & Traffic Restraint. Project manager on FHWA program to develop techniques and guidelines for neighborhood street traffic limitation. Project manager for Berkeley, (Calif.), Neighborhood Traffic Study, pioneered application of traffic restraint techniques in the U.S. Developed residential traffic plans for Menlo Park, Santa Monica, Santa Cruz, Mill Valley, Oakland, Palo Alto, Piedmont, San Mateo County, Pasadena, Santa Ana and others. Participated in development of photo/radar speed enforcement device and experimented with speed humps. Co-author of Institute of Transportation Engineers reference publication on neighborhood traffic control.

Bicycle Facilities. Project manager to develop an FHWA manual for bicycle facility design and planning, on bikeway plans for Del Mar, (Calif.), the UC Davis and the City of Davis. Consultant to bikeway plans for Eugene, Oregon, Washington, D.C., Buffalo, New York, and Skokie, Illinois. Consultant to U.S. Bureau of Reclamation for development of hydraulically efficient, bicycle safe drainage inlets. Consultant on FHWA research on effective retrofits of undercrossing and overcrossing structures for bicyclists, pedestrians, and handicapped.

MEMBERSHIPS

Institute of Transportation Engineers Transportation Research Board

PUBLICATIONS AND AWARDS

Residential Street Design and Traffic Control, with W. Homburger *et al.* Prentice Hall, 1989.

Co-recipient, Progressive Architecture Citation, *Mission Bay Master Plan*, with I.M. Pei WRT Associated, 1984.

Residential Traffic Management, State of the Art Report, U.S. Department of Transportation, 1979.

Improving The Residential Street Environment, with Donald Appleyard *et al.*, U.S. Department of Transportation, 1979.

Strategic Concepts in Residential Neighborhood Traffic Control, International Symposium on Traffic Control Systems, Berkeley, California, 1979.

Planning and Design of Bicycle Facilities: Pitfalls and New Directions, Transportation Research Board, Research Record 570, 1976.

Co-recipient, Progressive Architecture Award, *Livable Urban Streets, San Francisco Bay Area and London*, with Donald Appleyard, 1979.