



APPLICATIONS:

APPEAL APPLICATION

Instructions and Checklist

Related Code Section: Refer to the City Planning case determination to identify the Zone Code section for the entitlement and the appeal procedure.

Purpose: This application is for the appeal of Department of City Planning determinations authorized by the Los Angeles Municipal Code (LAMC).

A. APPELLATE BODY/CASE INFORMATION

1. APPELLATE BODY

- ☐ Area Planning Commission ☐ City Planning Commission ☐ City Council ☐ Director of Planning
☐ Zoning Administrator

Regarding Case Number: _____

Project Address: _____

Final Date to Appeal: _____

2. APPELLANT

Appellant Identity:
(check all that apply)

- ☐ Representative ☐ Property Owner
☐ Applicant ☐ Operator of the Use/Site

- ☐ Person, other than the Applicant, Owner or Operator claiming to be aggrieved

- ☐ Person affected by the determination made by the **Department of Building and Safety**

- ☐ Representative ☐ Owner ☐ Aggrieved Party
☐ Applicant ☐ Operator

3. APPELLANT INFORMATION

Appellant's Name: _____

Company/Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____ E-mail: _____

a. Is the appeal being filed on your behalf or on behalf of another party, organization or company?

- ☐ Self ☐ Other: _____

b. Is the appeal being filed to support the original applicant's position? ☐ Yes ☐ No

4. REPRESENTATIVE/AGENT INFORMATION

Representative/Agent name (if applicable): _____

Company: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____ E-mail: _____

5. JUSTIFICATION/REASON FOR APPEAL

a. Is the entire decision, or only parts of it being appealed? ☐ Entire ☐ Part

b. Are specific conditions of approval being appealed? ☐ Yes ☐ No

If Yes, list the condition number(s) here: _____

Attach a separate sheet providing your reasons for the appeal. Your reason must state:

- ☐ The reason for the appeal ☐ How you are aggrieved by the decision
☐ Specifically the points at issue ☐ Why you believe the decision-maker erred or abused their discretion

6. APPLICANT'S AFFIDAVIT

I certify that the statements contained in this application are complete and true:

Appellant Signature: _____ Date: _____

GENERAL APPEAL FILING REQUIREMENTS

B. ALL CASES REQUIRE THE FOLLOWING ITEMS - SEE THE ADDITIONAL INSTRUCTIONS FOR SPECIFIC CASE TYPES

1. Appeal Documents

a. **Three (3) sets** - The following documents are required for each appeal filed (1 original and 2 duplicates)
Each case being appealed is required to provide three (3) sets of the listed documents.

- ☐ Appeal Application (form CP-7769)
☐ Justification/Reason for Appeal
☐ Copies of Original Determination Letter

b. Electronic Copy

- ☐ Provide an electronic copy of your appeal documents on a flash drive (planning staff will upload materials during filing and return the flash drive to you) or a CD (which will remain in the file). The following items must be saved as individual PDFs and labeled accordingly (e.g. "Appeal Form.pdf", "Justification/Reason Statement.pdf", or "Original Determination Letter.pdf" etc.). No file should exceed 9.8 MB in size.

c. Appeal Fee

- ☐ Original Applicant - A fee equal to 85% of the original application fee, provide a copy of the original application receipt(s) to calculate the fee per LAMC Section 19.01B 1.
☐ Aggrieved Party - The fee charged shall be in accordance with the LAMC Section 19.01B 1.

d. Notice Requirement

- ☐ Mailing List - All appeals require noticing per the applicable LAMC section(s). Original Applicants must provide noticing per the LAMC
☐ Mailing Fee - The appeal notice mailing fee is paid by the project applicant, payment is made to the City Planning's mailing contractor (BTC), a copy of the receipt must be submitted as proof of payment.

SPECIFIC CASE TYPES - APPEAL FILING INFORMATION
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C. DENSITY BONUS / TRANSIT ORIENTED COMMUNITES (TOC)**1. Density Bonus/TOC**

Appeal procedures for Density Bonus/TOC per LAMC Section 12.22.A 25 (g) f.

NOTE:

- Density Bonus/TOC cases, only the *on menu or additional incentives* items can be appealed.
- Appeals of Density Bonus/TOC cases can only be filed by adjacent owners or tenants (must have documentation), and always only appealable to the Citywide Planning Commission.
- ☐ Provide documentation to confirm adjacent owner or tenant status, i.e., a lease agreement, rent receipt, utility bill, property tax bill, ZIMAS, drivers license, bill statement etc.

D. WAIVER OF DEDICATION AND OR IMPROVEMENT

Appeal procedure for Waiver of Dedication or Improvement per LAMC Section 12.37 I.

NOTE:

- Waivers for By-Right Projects, can only be appealed by the owner.
- When a Waiver is on appeal and is part of a master land use application request or subdivider's statement for a project, the applicant may appeal pursuant to the procedures that governs the entitlement.

E. TENTATIVE TRACT/VESTING**1. Tentative Tract/Vesting** - Appeal procedure for Tentative Tract / Vesting application per LAMC Section 17.54 A.

NOTE: Appeals to the City Council from a determination on a Tentative Tract (TT or VTT) by the Area or City Planning Commission must be filed within 10 days of the date of the written determination of said Commission.

- ☐ Provide a copy of the written determination letter from Commission.

F. BUILDING AND SAFETY DETERMINATION

- ☐ **1.** Appeal of the Department of Building and Safety determination, per LAMC 12.26 K 1, an appellant is considered the **Original Applicant** and must provide noticing and pay mailing fees.

a. Appeal Fee

- ☐ Original Applicant - The fee charged shall be in accordance with LAMC Section 19.01B 2, as stated in the Building and Safety determination letter, plus all surcharges. (the fee specified in Table 4-A, Section 98.0403.2 of the City of Los Angeles Building Code)

b. Notice Requirement

- ☐ Mailing Fee - The applicant must pay mailing fees to City Planning's mailing contractor (BTC) and submit a copy of receipt as proof of payment.

- ☐ **2.** Appeal of the Director of City Planning determination per LAMC Section 12.26 K 6, an applicant or any other aggrieved person may file an appeal, and is appealable to the Area Planning Commission or Citywide Planning Commission as noted in the determination.

a. Appeal Fee

- ☐ Original Applicant - The fee charged shall be in accordance with the LAMC Section 19.01 B 1 a.

b. Notice Requirement

- ☐ Mailing List - The appeal notification requirements per LAMC Section 12.26 K 7 apply.
- ☐ Mailing Fees - The appeal notice mailing fee is made to City Planning's mailing contractor (BTC), a copy of receipt must be submitted as proof of payment.

G. NUISANCE ABATEMENT

1. Nuisance Abatement - Appeal procedure for Nuisance Abatement per LAMC Section 12.27.1 C 4

NOTE:

- Nuisance Abatement is only appealable to the City Council.

a. Appeal Fee

- ☐ Aggrieved Party the fee charged shall be in accordance with the LAMC Section 19.01 B 1.

2. Plan Approval/Compliance Review

Appeal procedure for Nuisance Abatement Plan Approval/Compliance Review per LAMC Section 12.27.1 C 4.

a. Appeal Fee

- ☐ Compliance Review - The fee charged shall be in accordance with the LAMC Section 19.01 B.
- ☐ Modification - The fee shall be in accordance with the LAMC Section 19.01 B.

NOTES

A Certified Neighborhood Council (CNC) or a person identified as a member of a CNC or as representing the CNC may not file an appeal on behalf of the Neighborhood Council; persons affiliated with a CNC may only file as an individual on behalf of self.

Please note that the appellate body must act on your appeal within a time period specified in the Section(s) of the Los Angeles Municipal Code (LAMC) pertaining to the type of appeal being filed. The Department of City Planning will make its best efforts to have appeals scheduled prior to the appellate body's last day to act in order to provide due process to the appellant. If the appellate body is unable to come to a consensus or is unable to hear and consider the appeal prior to the last day to act, the appeal is automatically deemed denied, and the original decision will stand. The last day to act as defined in the LAMC may only be extended if formally agreed upon by the applicant.

This Section for City Planning Staff Use Only		
Base Fee:	Reviewed & Accepted by (DSC Planner):	Date:
Receipt No:	Deemed Complete by (Project Planner):	Date:
<input type="checkbox"/> Determination authority notified		<input type="checkbox"/> Original receipt and BTC receipt (if original applicant)

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March 16, 2023

Via Email and Electronic Submission through Online Portal

City Council
City of Los Angeles
C/o Appeals Clerk
200 N Spring St, Room 360
Los Angeles, CA 90012
Email: clerk.cps@lacity.org

Esther Ahn, City Planner
Email: esther.ahn@lacity.org

Via Online Portal:
<https://plncts.lacity.org/oas>

Re: Appeal to the Los Angeles City Council of the March 2, 2023, City Planning Commission Determination in the Valor Elementary School Project CPC-2022-5865-CU-SPR; ENV-2022-5866-MND

Dear Honorable Mayor Bass, City Council Members and Ms. Ahn:

On behalf of Coalition for Responsible Equitable Economic Development ("CREED LA") we are writing to appeal the City Planning Commission's March 2, 2023 determination approving the Conditional Use Permit ("CUP") and Site Plan Review ("SPR") for the Valor Elementary School Project, CPC-2022-5865-CU-SPR; ENV-2022-5866-MND ("Project"), including the City Planning Commission's adoption of the Project's Mitigated Negative Declaration ("MND"), and adopting Conditions of Approval.¹

¹ City of Los Angeles, Letter of Determination, 15526 and 15544 West Plummer Street, Case No. CPC-2022-5865-CU-SPR (March 2, 2023) available at <https://planning.lacity.org/pdiseaseinfo/document/MjI1MQ0/fe3b456d-e5a5-4f0e-9fa7-879f1ff43502/pdd> L6420-012j

The Project proposes to construct a one and two-story, 26.5-foot-tall, elementary school building with 28 classrooms, totaling 23,538 square-feet. for grades transitional kindergarten (“TK”) through 4; a 3,182 square-foot multi-purpose room, administrative spaces, corridors, storage spaces, and covered outdoor dining, and a surface parking lot with an ingress/egress driveway off Plummer Street.² The elementary school building would have a total building area of 34,755 sf and would accommodate a maximum enrollment of 552 students. The Project would also include 30,726 sf of open space and landscaping, including two play areas totaling 13,060 square-feet.

The Project site located at 15526-15544 Plummer Street, Los Angeles, CA 91343, on Assessor Parcel Numbers (“APN”) 265-601-5007 and 265-601-5008, which are approximately 1.30 acres in size, and 0.76 acre in size respectively. The 1.30-acre parcel is currently undeveloped and covered with grasses, shrubs, and various mature trees, and the 0.76-acre parcel is currently developed with a one-story single-family residence with similar vegetation as the larger parcel. The site contains 56 trees/shrubs (including nine protected native trees/shrubs and 32 non-protected significant trees), and two street trees.

Pursuant to the City of Los Angeles (“City”) appeal procedures, we have provided an electronic copy of this Justification for Appeal letter, the Appeal Application (Form CP-7769), and the original Determination Letter. We have also paid the required appeal fee of \$158 via the Department of City Planning Online Application Portal.

The reasons for this appeal include that the City Planning Commission abused its discretion and violated the California Environmental Quality Act (“CEQA”) when it approved the Project’s CUP and SPR for the Project, and in adopting the MND, Findings, and Modified Conditions of Approval in violation of CEQA and land use laws. CEQA requires that the potential impacts of this Project be evaluated in an environmental impact report (“EIR”), not in an MND, because substantial evidence exists that the Project may have significant, unmitigated environmental impacts to public health, noise, and public safety that are not adequately disclosed or mitigated by the MND.

² MND, p .1.
L6420-012j

Our December 14, 2022, and February 21, 2023, comment letters on the Project are attached hereto and incorporated by reference.³ The specific reasons for this appeal are set forth in detail in those letters and summarized below. In short, substantial evidence supports a fair argument that that Project will cause: (1) a significant, unmitigated cancer risk from air pollution emissions to future students and staff, (2) a significant, unmitigated impact from noise, and (3) a potentially significant, unmitigated impact to public safety. Additionally, the City failed to consult with the Department of Toxic Substances Control and prepare a preliminary endangerment assessment in violation of California law.

I. STATEMENT OF INTEREST

CREED LA is an unincorporated association of individuals and labor organizations formed to ensure that the construction of major urban projects in the Los Angeles region proceed in a manner that minimizes public and worker health and safety risks, avoids, or mitigates environmental and public service impacts, and fosters long-term sustainable construction and development opportunities. The association includes the Sheet Metal Workers Local 105, International Brotherhood of Electrical Workers Local 11, Southern California Pipe Trades District Council 16, and District Council of Iron Workers of the State of California, along with their members, their families, and other individuals who live and work in the Los Angeles region.

Individual members of CREED LA live in the City of Los Angeles, and work, recreate, and raise their families in the City and surrounding communities. Accordingly, they would be directly affected by the Project's environmental and health, and safety impacts. Individual members may also work on the Project itself. They will be first in line to be exposed to any health and safety hazards that exist on site.

CREED LA has an interest in enforcing 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

³ See **Exhibit 1**: Letter from Kevin Carmichael to Esther Ahn re Comments on the Mitigated Negative Declaration for the Valor Elementary School Project (ENV-2022-5866-MND) (December 14, 2022); and **Exhibit 2**: Letter from Kevin Carmichael to Los Angeles City Planning Commission re: Agenda Item 7: Valor Elementary School Project, Case No. CPC-2022-5865-CU-SPR, CEQA No. ENV-2022-5866-MND (February 21, 2023).
L6420-012j

by making the area less desirable for new businesses and new residents. Continued environmental degradation can, and has, caused construction moratoriums and other restrictions on growth that, in turn, reduce future employment opportunities.

CREED LA supports the development of commercial, mixed use, and educational projects where properly analyzed and carefully planned to minimize impacts on public health, climate change, and the environment. These projects should avoid adverse impacts to air quality, public health, climate change, noise, and traffic, and must incorporate all feasible mitigation to ensure that any remaining adverse impacts are reduced to the maximum extent feasible. Only by maintaining the highest standards can commercial development truly be sustainable.

II. REASONS FOR APPEAL

A. There is Substantial Evidence Demonstrating that the Project May Cause a Significant, Unmitigated Cancer Risk from Exposure to Air Pollution

The MND concludes that the health risk posed to future students and staff at the Project site from exposure to high air pollution concentrations, including diesel particulate matter (“DPM”) emissions, would be less than significant. We previously explained that the MND’s conclusion is unsupported and that the City failed to analyze the background risk from air pollution in the Project area.

Substantial evidence supports a fair argument that development of the Project will place children and staff in an area of high air pollution concentrations. CREED LA’s expert, Dr. James Clark, found that the cumulative cancer risk from air pollutants in the area of the Project is 413 in 1,000,000. DPM accounts for approximately 65 percent of that risk, or 268 in 1,000,000, while the 145 in 1,000,000 comes from benzene, formaldehyde and other gasses which will not be treated with the MERV filters proposed as mitigation for the Project. Assuming that the MERV 13 filters at the site would reduce the cancer risk from DPM by 90 percent, the cumulative risk to students and staff will still exceed the SCAQMD threshold of 100 in 1,000,000, resulting in a significant impact.

The City must prepare an EIR that includes disclosure and analysis of the potentially significant health risk impacts to future students and staff at the Project site and require additional mitigation to reduce the Project’s health risks from air pollution.

B. The City Failed to Perform a Preliminary Endangerment Assessment

CREED LA previously presented substantial evidence supporting a fair argument that the City is required to consult with the Department of Toxic Substances Control (“DTSC”) and prepare a Preliminary Endangerment Assessment for the Project. The Applicant failed to comply with this requirement, and the City Planning Commission failed to require the Applicant to provide evidence demonstrating compliance. As a result, the Project fails to comply with both the Education Code and CEQA because the Project may result in significant, unmitigated health risk to students and teachers.⁴

As a condition of receiving state funding for school construction projects pursuant to California Education Code Chapter 12.5 section 17078.52, a charter school must complete the three-step process outlined in Education Code § 17213.1 and assess whether there has been a release of hazardous waste at a school site.⁵ As explained in our prior comments, the process requires consultation with DTSC and to enter into an Environmental Oversight Agreement with DTSC, then contract with a qualified environmental consultant to prepare an assessment according to DTSC guidelines.⁶

The Applicant asserts that consultation with DTSC is not required because no Charter Schools Facilities Program (“CSFP”) funds would be used for the construction of the Project⁷, despite the fact that the Applicant’s 2022-2023 operational budget includes a line item for Proposition 1D grants to fund school construction projects, noting that \$26,971,711 in assets are restricted for construction.⁸ The Applicant must provide a guarantee that no State funds will be used for Project construction, otherwise, the City must conduct the necessary consultation with DTSC prior to Project approval.

⁴ PRC § 21002.1(c) (projects must comply with other laws).

⁵ Ed. Code, §§ 17078.52 and 17213.1 *see also* DTSC, Environmental Assessments For Charter School Sites Fact Sheet available at <https://dtsc.ca.gov/environmental-assessments-for-charter-school-sites-fact-sheet/>

⁶ Ed. Code §17213.1(a)(4)(B).

⁷ City Planning Commission, February 23, 2023, Agenda Item 7, Day of Submissions, pdf. p. 66 available at <https://planning.lacity.org/dcpapi/meetings/document/addtldoc/64833>

⁸ Bright Star Schools, 2022-2023 Budget Report on the Financial Statement (“Auditor’s Report”) (June 30, 2022) pp. 7 and 11. Available at https://brightstarschools.org/files/galleries/2022_Audited_Financials.pdf

C. The Project May Result in a Significant, Unmitigated Impact from Noise

We previously provided substantial evidence showing the MND's failure to provide an adequate baseline noise analysis, resulting in a failure to disclose the noise impacts from construction and operation of the Project. This remains a significant, unmitigated impact that the City has failed to disclose.

Additionally, CREED LA's experts determined that the Project's construction and operational noise impacts remain significant and unmitigated notwithstanding the mitigation measures proposed in the MND and the Project's conditions of approval. The City failed to resolve these issues before the City Planning Commission approved the Project.

D. The Project May Result in a Significant, Unmitigated Public Safety Impact

We previously provided substantial evidence showing the City failed to proceed in the manner required by law by failing to analyze consistency with the Mission Hills-Panorama City-North Hills Community Plan's public protection policies and lacks substantial evidence to support its conclusion that the Project's public services impacts would be less than significant. In particular, the City failed to analyze whether consultation with LAPD regarding the Project's design and layout will result in changes to the Project design or require additional police services to support the Project. A CEQA document must consider the effect of changes to the environment that can result from the expansion of services.⁹ The City Planning Commission failed to require this analysis before approving the Project. The City Council must correct this error by requiring an EIR for the Project.

E. The City Planning Commission Erred in Making the Required Findings to Approve the Project

The Project requires a CUP to allow development of a public school in the RA-1 zone pursuant to LAMC § 12.24.¹⁰ The MND fails to accurately disclose and mitigate significant impacts, as discussed in our comments to the City. Therefore,

⁹ *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal.3d 553.

¹⁰ LAMC § 12.24(U)(24).
L6420-012j

the Project fails to meet the LAMC requirements to obtain a CUP. LAMC § 12.24(E) requires the following findings be made to approve the CUP:

- (1) that the project will enhance the built environment in the surrounding neighborhood or will perform a function or provide a service that is essential or beneficial to the community, city, or region;
- (2) that the project's location, size, height, operations, and other significant features will be compatible with and will not adversely affect or further degrade adjacent properties, the surrounding neighborhood, or the public health, welfare, and safety; and
- (3) that the project substantially conforms with the purpose, intent and provisions of the General Plan, the applicable community plan, and any applicable specific plan.

CREED LA demonstrated that the Project **will** adversely affect public health due to the Project's proximity to I-405 and the unmitigated impacts to future students and school staff, **will** adversely affect adjacent properties due to unmitigated noise impacts and, and **does not** comply with the applicable community plan by failing to consult with LAPD prior to Project approval.

The City Planning Commission abused its discretion by making Finding No. Two and approving the Project despite substantial evidence in the record supporting a fair argument that the Project would adversely affect the surrounding neighborhood and affect public health, welfare, and safety.

III. CONCLUSION

As a result of these errors, the City Planning Commission's adoption of the MND, Findings, and Modified Conditions of Approval, and its approval of the Project's Conditional Use Permit and Site Plan Review violated CEQA and must be overturned.

March 16, 2023
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We urge the City Council to grant CREED LA's appeal and order the preparation of an EIR for the Project. Thank you for your attention to this important matter.

Sincerely,

A handwritten signature in blue ink that reads "Kevin Carmichael". The signature is written in a cursive, flowing style.

Kevin Carmichael

KTC:ljf

EXHIBIT 1

ADAMS BROADWELL JOSEPH & CARDOZO

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December 14, 2022

Via Email and Overnight Mail

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City of Los Angeles
200 N. Spring St. Room 763
Los Angeles, CA 90012
Email: esther.ahn@lacity.org

Re: Comments on the Mitigated Negative Declaration for the Valor Elementary School Project (ENV-2022-5866-MND)

Dear Ms. Ahn:

On behalf of Coalition for Responsible Equitable Economic Development Los Angeles ("CREED LA"), we respectfully submit these comments on the City of Los Angeles' ("City") Mitigated Negative Declaration¹ ("MND") prepared for the Valor Elementary School Project (ENV-2022-5866-MND) ("Project") proposed by Bright Star Schools ("Applicant") and prepared pursuant to the California Environmental Quality Act ("CEQA")² by the City of Los Angeles ("City").

The Project proposes to construct a one and two-story, 26.5-foot-tall, elementary school building with 28 classrooms, totaling 23,538 square-feet. for grades transitional kindergarten ("TK") through 4; a 3,182 square-foot multi-purpose room, administrative spaces, corridors, storage spaces, and covered outdoor dining, and a surface parking lot with an ingress/egress driveway off Plummer Street.³ The elementary school building would have a total building area of 34,755 sf and would accommodate a maximum enrollment of 552 students. The Project would also include 30,726 sf of open space and landscaping, including two play areas totaling 13,060 square-feet.

¹ City of Los Angeles, Mitigated Negative Declaration, Valor Elementary School Project ("MND") Case No: ENV-2022-5866-MND (November 2022) available at <https://planning.lacity.org/odocument/4665dfef-ecad-42b5-80b6-575ca5e17851/ENV-2022-5866.pdf>

² Public Resources Code § 21000 *et seq.*; 14 Cal. Code Regs. ("C.C.R.") §§ 15000 *et seq.*

³ MND, p .1.
L6402-005j

The Project site located at 15526-15544 Plummer Street, Los Angeles, CA 91343, on Assessor Parcel Numbers (“APN”) 265-601-5007 and 265-601-5008, which are approximately 1.30 acres in size, and 0.76 acre in size respectively. The 1.30-acre parcel is currently undeveloped and covered with grasses, shrubs, and various mature trees, and the 0.76-acre parcel is currently developed with a one-story single-family residence with similar vegetation as the larger parcel. The site contains 56 trees/shrubs (including nine protected native trees/shrubs and 32 non-protected significant trees), and two street trees.

Our review of the MND demonstrates that the MND fails to comply with CEQA. As explained more fully below, the MND fails to accurately disclose the extent of the Project’s potentially significant impacts on air quality, public health, hazards, public services, and noise. There is more than a fair argument that the Project will result in significant, unmitigated impacts in each of these areas. The City may not approve the Project until the City prepares an Environmental Impact Report (“EIR”) that adequately analyzes the Project’s potentially significant impacts and incorporates all feasible mitigation measures to avoid or minimize these impacts. As a result of these deficiencies, the City also cannot make the requisite findings to approve the Project under the City’s municipal code.⁴

These comments were prepared with the assistance of environmental health, air quality, and GHG expert Dr. James Clark, Ph.D., and noise expert Ani Toncheva of Wilson Ihrig. Comments and curriculum vitae of Dr. Clark are attached to this letter as Attachment A.⁵ Ms. Toncheva’s comments and curriculum vitae are included as Attachment B.⁶ Attachments A and B are fully incorporated herein and submitted to the City herewith. Therefore, the City must separately respond to the technical comments in Attachments A and B.

For the reasons discussed herein, and in the attached expert comments, CREED LA urges the City to remedy the deficiencies in the MND by preparing a legally adequate EIR and recirculating it for public review and comment.⁷

⁴ Pub. Res. Code § 21081; *Covington v. Great Basin Unified Air Pollution Control Dist.* (2019) 43 Cal.App.5th 867, 883.

⁵ **Attachment A:** Comments on Valor Elementary School Project (December 13, 2022) (“Clark Comments”).

⁶ **Attachment B:** Comments on Valor Elementary School Project (December 14, 2022) (“Toncheva Comments”).

⁷ We reserve the right to supplement these comments at later hearings on this Project. Gov. Code § 65009(b); Public Resources Code § 21177(a); *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal.App.4th 1184, 1199–1203; see *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal.App.4th 1109, 1121.

I. STATEMENT OF INTEREST

CREED LA is an unincorporated association of individuals and labor organizations formed to ensure that the construction of major urban projects in the Los Angeles region proceed in a manner that minimizes public and worker health and safety risks, avoids, or mitigates environmental and public service impacts, and fosters long-term sustainable construction and development opportunities. The association includes the Sheet Metal Workers Local 105, International Brotherhood of Electrical Workers Local 11, Southern California Pipe Trades District Council 16, and District Council of Iron Workers of the State of California, along with their members, their families, and other individuals who live and work in the Los Angeles region.

Individual members of CREED LA live in the City of Los Angeles, and work, recreate, and raise their families in the City and surrounding communities. Accordingly, they would be directly affected by the Project's environmental and health, and safety impacts. Individual members may also work on the Project itself. They will be first in line to be exposed to any health and safety hazards that exist on site.

CREED LA has an interest in enforcing 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 the area less desirable for new businesses and new residents. Continued environmental degradation can, and has, caused construction moratoriums and other restrictions on growth that, in turn, reduce future employment opportunities.

CREED LA supports the development of commercial, mixed use, and educational projects where properly analyzed and carefully planned to minimize impacts on public health, climate change, and the environment. These projects should avoid adverse impacts to air quality, public health, climate change, noise, and traffic, and must incorporate all feasible mitigation to ensure that any remaining adverse impacts are reduced to the maximum extent feasible. Only by maintaining the highest standards can commercial development truly be sustainable.

II. AN EIR IS REQUIRED

CEQA is designed to inform decision-makers and the public about the potential, significant environmental effects of a project.⁸ “CEQA’s fundamental goal [is] fostering informed decision-making.”⁹ “The purpose of CEQA is not to generate paper, but to compel government at all levels to make decisions with environmental consequences in mind.”¹⁰

CEQA requires that an agency analyze the potential environmental impacts of its proposed actions in an EIR, except in certain limited circumstances.¹¹ The EIR is the very heart of CEQA.¹² The EIR acts like an “environmental ‘alarm bell’ whose purpose is to alert the public and its responsible officials to environmental changes before they have reached the ecological points of no return.”¹³ The EIR aids an agency in identifying, analyzing, disclosing, and, to the extent possible, avoiding a project’s significant environmental effects through implementing feasible mitigation measures.¹⁴ The EIR also serves “to demonstrate to an apprehensive citizenry that the [agency] has analyzed and considered the ecological implications of its action.”¹⁵ Thus, an EIR “protects not only the environment but also informed self-government.”¹⁶

An EIR is required if “there is substantial evidence, in light of the whole record before the lead agency, that the project may have a significant effect on the environment.”¹⁷ The EIR aids an agency in identifying, analyzing, disclosing, and, to the extent possible, avoiding a project’s significant environmental effects through implementing feasible mitigation measures.¹⁸ In very limited circumstances, an agency may avoid preparing an EIR by issuing a negative declaration, a written statement briefly indicating that a project will have no significant impact. Because “[t]he adoption of a negative declaration . . . has a terminal effect on the environmental review process” by allowing the agency to dispense with the duty to

⁸ 14 Cal. Code Regs. (“CEQA Guidelines”) § 15002, subd. (a)(1).

⁹ *Laurel Heights Improvement Assn. v. Regents of University of California* (1988) 47 Cal.3d 376, 402.

¹⁰ *Bozung v. LAFCO* (1975) 13 Cal.3d 263, 283.

¹¹ See, e.g., Pub. Resources Code, § 21100.

¹² *Dunn-Edwards v. Bay Area Air Quality Management Dist.* (1992) 9 Cal.App.4th 644, 652.

¹³ *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1220.

¹⁴ Pub. Resources Code § 21002.1(a); CEQA Guidelines § 15002(a), (f).

¹⁵ *No Oil, Inc. v. City of Richmond* (1974) 13 Cal.3d 68, 86.

¹⁶ *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal.3d 553, 564.

¹⁷ Pub. Resources Code, § 21080, subd. (d) (emphasis added); CEQA Guidelines, § 15064; see also *Pocket Protectors v. City of Sacramento* (2004) 124 Cal.App.4th 903, 927; *Mejia v. City of Richmond* (2005) 13 Cal.App.4th 322.

¹⁸ Pub. Resources Code, § 21002.1, subd. (a); CEQA Guidelines, § 15002, subd. (a) & (f).

prepare an EIR, negative declarations are allowed only in cases where there is not even a “fair argument” that the project will have a significant environmental effect.¹⁹

Under the fair argument standard, a lead agency “shall” prepare an EIR whenever substantial evidence in the whole record before the agency supports a fair argument that a project may have a significant effect on the environment.²⁰ The phrase “significant effect on the environment” is defined as “a substantial, or potentially substantial, adverse change in the environment.”²¹ In certain circumstances, a project with potentially significant impacts can be modified by the adoption of mitigation measures to reduce the impacts to a level of insignificance. In such cases, an agency may satisfy its CEQA obligation by preparing a mitigated negative declaration.²² A mitigated negative declaration, however, is subject to the fair argument standard. Thus, an MND is inadequate, and an EIR is required, whenever substantial evidence in the record supports a “fair argument” that significant impacts may occur, even with the imposition of mitigation measures.

The “fair argument” standard is an exceptionally “low threshold” favoring environmental review in an EIR rather than a negative declaration.²³ The “fair argument” standard requires the preparation of an EIR if any substantial evidence in the record indicates that a project may have an adverse environmental effect.²⁴ As a matter of law, substantial evidence includes both expert and lay opinion.²⁵ Even if other substantial evidence supports the opposite conclusion, the agency nevertheless must prepare an EIR.²⁶ Under the “fair argument” standard, CEQA always resolves the benefit of the doubt in favor of the public and the environment.

¹⁹ *Citizens of Lake Murray v. San Diego* (1989) 129 Cal.App.3d 436, 440; Pub. Resources Code, §§ 21100, 21064.

²⁰ Pub. Res. Code §§21080(d), 21082.2(d); 14 Cal. Code Reg. §§ 15002(k)(3), 15064(f)(1), (h)(1); *Laurel Heights Improvement Assn. v. Regents of the Univ. of Cal.* (1993) 6 Cal.4th 1112, 1123; *No Oil, Inc. v. City of Richmond* (1974) 13 Cal.3d 68, 75, 82; *Stanislaus Audubon Society, Inc. v. County of Stanislaus* (1995) 33 Cal.App.4th 144, 150-151; *Quail Botanical Gardens Found., Inc. v. City of Encinitas* (1994) 29 Cal.App.4th 1597, 1601-1602.

²¹ Pub. Resources Code, § 21068.

²² Pub. Resources Code, § 21064.5; CEQA Guidelines, § 15064, subd. (f)(2).

²³ *Pocket Protectors v. City of Sacramento* (2004) 124 Cal.App.4th 903, 928.

²⁴ CEQA Guidelines, § 15064, subd. (f)(1); *Pocket Protectors v. City of Sacramento*, *supra*, 124 Cal.App.4th at 931.

²⁵ Pub. Resources Code, § 21080, subd. (e)(1); CEQA Guidelines, § 15064, subd. (f)(5).

²⁶ *Arviv Enterprises v. South Valley Area Planning Comm.* (2002) 101 Cal.App.4th 1333, 1346; *Stanislaus Audubon v. County of Stanislaus* (1995) 33 Cal.App.4th 144, 150-151; *Quail Botanical Gardens v. City of Encinitas* (1994) 29 Cal.App.4th 1597.

III. SUBSTANTIAL EVIDENCE SUPPORTS A FAIR ARGUMENT THAT THE PROJECT MAY RESULT IN SIGNIFICANT IMPACTS REQUIRING AN EIR AND THE CITY LACKS SUBSTANTIAL EVIDENCE TO RELY ON AN MND

A. There is a Fair Argument that the Project May Result in Significant, Unmitigated Health Risk Impacts

1. The City Failed to Proceed in the Manner Required by Law By Failing to Conduct a Preliminary Endangerment Assessment Pursuant to the California Education Code.

The MND includes a Phase I environmental site assessment (“ESA”) report that identifies several recognized environmental conditions (“REC”) and concludes that a Phase II ESA be completed for the site.²⁷ While a Phase II ESA was completed for the Project site, the City failed to conduct a Preliminary Endangerment Assessment as required under the California Education Code.²⁸

The Education Code outlines a three-step process in assessing whether there has been a release of hazardous waste at a school site consisting of Step 1. Phase I ESA, Step 2. PEA, and Step 3. Response action.²⁹ The PEA required by Step 2 requires consultation with the Department of Toxic Substances Control (“DTSC”) and to enter into an Environmental Oversight Agreement with DTSC, then contract with a qualified environmental consultant to prepare an assessment according to DTSC guidelines.³⁰ Here, the City failed to consult with DTSC in violation of the Education Code. Additionally, based on the results of the Phase I completed for the Project, there is a fair argument that if the City had consulted with DTSC, a PEA would be required. The City must retract the MND and proceed with consultation with DTSC to prepare a PEA for the Project.

2. The MND Fails to Disclose and Analyze the Potentially Significant Health Risk to Students and Staff from Air Emissions Released from Adjacent Sites

The MND fails to disclose the potential health impacts of placing schoolchildren next to existing sources of pollution located adjacent to the Project

²⁷ MND, Appendix F, p. v.

²⁸ Ed. Code §17213.1(a)(4)(B).

²⁹ See Ed. Code §§17213.1(a), 17213.1(a)(4), 17213.1(a)(7)

³⁰ Ed. Code §17213.1(a)(4)(B).

site. Dr. Clark found that there are a number of sources that emit toxic air contaminants including VOCs, diesel exhaust, and particulate matter permitted by the South Coast Air Quality Management District (“SCAQMD”) surrounding the Project site.³¹ According to the SCAQMD’s Facility Information Detail (“FIND”) website, there are at least 6 different permitted sites within ½ mile of the Project Site as seen in Figure 5 of Dr. Clark’s comments.³² The MND completely ignores these potential sources of pollution in its air quality analysis and as such fails as an informational document under CEQA.

3. There is Substantial Evidence Supporting a Fair Argument That the Project Will Result in Significant, Unmitigated Health Risks from Exposure to Freeway Emissions

The MND’s statement that that health risks are less than significant is unsupported because the MND omits an analysis of several sources of pollution, resulting in underestimated emissions calculations. Dr. Clark reviewed the additional sources, and concludes that, when considered with the other emissions identified in the MND, the resulting health impacts on schoolchildren may be significant. The Project’s health risk impacts must be accurately disclosed, analyzed, and mitigated in an EIR.

An agency must support its findings of a project’s potential environmental impacts with concrete evidence, with “sufficient information to foster informed public participation and to enable the decision makers to consider the environmental factors necessary to make a reasoned decision.”³³ A project’s health risks “must be ‘clearly identified’ and the discussion must include ‘relevant specifics’ about the environmental changes attributable to the Project and their associated health outcomes.”³⁴

Dr. Clark found that the MND’s health risk analysis is little more than a screening assessment of impacts based on unverifiable data. Additionally, he found the Project will result in a significant health risk to the students and staff at the Project site.

³¹ Clark Comments, p. 7.

³² Clark Comments, p. 7.

³³ *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502, 516.

³⁴ *Id.* at 518.

First, Dr. Clark notes that the input files for the Project's HRA were not included in the attachments to the HRA.³⁵ The Project's HRA states:

TAC emissions associated with vehicle traffic on I-405 were estimated based on the methodology and spreadsheet developed by the UC Davis-Caltrans Air Quality Project, Estimating Mobile Source Air Toxics Emissions [MSAT]: A Step-By-Step Project Analysis Methodology (2006). This spreadsheet was designed to estimate the total amount of the six pollutants of concern discussed in Section 2.2, Toxic Air Contaminants, based on total organic gases emission factors and diesel particulate emission factors from EMFAC2021... The spreadsheet outputs from the UC Davis-Caltrans MSAT model and composite emission rates are contained in Appendix A.³⁶

However, these spreadsheets were not included with the HRA and as such act as a black-box precluding analysis of the sufficiency of the HRA by preventing validation of the HRA model inputs.³⁷

Dr. Clark used the same input parameters listed in the AERMOD input file utilized in the HRA for the Project and found that I-405 produces concentrations of TACs at the Project Site that are 1.5 times higher than presented in the HRA, resulting in a significant, unmitigated impact.³⁸

Additionally, while reviewing the AERMOD model inputs used in the HRA, Dr. Clark found that the AERMOD analysis relies on source terms from a model that is not commonly used to assess emissions from freeways and excludes components in the analysis including the actual assumed emission rate of each chemical of concern ("COC") from each class of vehicle moving along I-405. By using an uncommon methodology and omitting the spreadsheets necessary to verify the HRA, the City fails to adequately analyze the Project's health risk impacts.

Finally, according to Dr. Clark, analyses of health risks from I-405 emissions feature a critical flaw leading to inaccurate estimations of Project emissions. The MND's AERMOD modeling calculations of ground-level concentrations of DPM fail to account for building downwash, which occurs when the wind flows over and around buildings and impacts the dispersion of pollution from nearby sources.³⁹ The

³⁵ Clark Comments, p. 8.

³⁶ MND, Appendix B, PDF p. 12.

³⁷ Clark Comments, p. 9.

³⁸ Clark Comments, p. 9.

³⁹ Clark Comments, p. 31.

MND's air quality analysis fails to explain why building elevations were not considered in the HRA. An updated HRA that accounts for elevation differences must be prepared and included in an EIR.

The City must prepare a new HRA that properly identifies the inputs and methodology used to calculate the operational health risk of the Project.

B. The City Lacks Substantial Evidence to Support the MND's Conclusion that Noise Impacts Would Be Less Than Significant with Mitigation

The CEQA Guidelines require an MND to consider "whether a project would result in...[g]eneration of a substantial temporary or periodic increase in ambient noise levels in the vicinity of the project . . ." ⁴⁰ The MND's noise analysis fails to accurately disclose the Project's potentially significant noise impacts and fails to mitigate them. Ms. Toncheva concludes that the Project's construction and operational noise impacts remain significant and unmitigated notwithstanding the mitigation measures proposed in the MND. Ms. Toncheva's comments provide substantial evidence supporting a fair argument that an EIR is required to accurately disclose and mitigate these impacts.

1. The MND Fails to Establish an Adequate Baseline to Measure Project Noise Impacts.

CEQA directs a lead agency to find that a Project would result in a significant impact if the Project would result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. ⁴¹ In order to establish a baseline to measure noise impacts it is common practice to conduct measurements of ambient noise at locations surrounding a proposed project. Here, the MND's noise impact analysis is based on two measurements of only 15 minutes each ⁴² and one 14-hour long-term measurement on May 25th and 26th. ⁴³ Ms. Toncheva explains that the limited data collected to evaluate the Project's noise impacts may not be representative of the loudest times of day because the noise environment is affected by transportation sources that can change from hour to hour and day to day. ⁴⁴ Ms. Toncheva states

⁴⁰ CEQA Guidelines, Appendix G, Sec. XII(d).

⁴¹ CEQA Guidelines, Appendix G.

⁴² MND, p. 102.

⁴³ MND, p. 103.

⁴⁴ Toncheva Comments, p. 1.

that best practices call for documentation of the existing condition with measurements at different times over several days.⁴⁵ Furthermore, the long-term noise measurement purports to document these changes, but the measurement was taken from the back of the project site where it is partially shielded from both nearby streets and does not capture traffic patterns at residences close to Plummer Street.⁴⁶ Ms. Toncheva found that the short-term Leq at location ST-1 is more than 10 dB higher than the same time frame at LT-1.⁴⁷ Therefore, the long term measurement taken for the Project's noise analysis are not representative of the noise environment surrounding the Project.

Ms. Toncheva states in her comments that higher baseline noise levels at the residences on Plummer Street would result in a noise environment that exceeds the normally acceptable CNEL levels for single-family homes per the Land Use and Noise Compatibility Matrix.⁴⁸ The City must prepare an updated baseline analysis that incorporates noise measurements taken at locations surrounding the Project site over a multi-day period in order to properly establish the baseline used in the noise analysis.

2. The MND Fails to Analyze Impacts to All Relevant Noise-Sensitive Receptors

The MND fails to accurately analyze the severity of construction noise impacts on sensitive receptors because it relies on incorrect distances between on-site noise sources and off-site receptors. Ms. Toncheva explains that this error is due to the MND's failure to properly acknowledge how construction sites operate in the MND's selection of where to measure noise levels in relation to sensitive receptors.

The construction noise calculations use a minimum receptor distance of 50 feet, per the cited LAMC threshold. However, multiple phases of ongoing construction activity, including grading work, may be as close as 6 feet from the adjacent residences, resulting in higher Lmax levels (108 dB).⁴⁹

⁴⁵ Toncheva Comments, p. 1.

⁴⁶ Toncheva Comments, p. 1.

⁴⁷ Toncheva Comments, p. 1.

⁴⁸ Toncheva Comments, p. 1. *see also* MND, p. 105.

⁴⁹ Toncheva Comments, p. 2.

Ms. Toncheva modeled the Project's construction noise at 15516 Plummer Street, which is a single-family residence adjacent to the project site and 6 feet east of the project boundary, using the Federal Highway Administration's ("FHWA") Roadway Construction Noise Model ("RCNM") and found that the Project would result in a 30+ dBA increase over the MND noise threshold during construction⁵⁰

Given this failure of analysis the MND failed to accurately assess the severity of the Project's noise impacts on all sensitive receptors, and fails to adequately mitigate them. The City must prepare an EIR to accurately analyze and mitigate these impacts.

3. Mitigation Measures Fail to Reduce Noise Impacts Below Levels of Significance

The MND concludes that noise impacts will be less than significant with implementation of mitigation measure RCM-1, which requires that a barrier be erected during construction.⁵¹ However, this measure is less effective than asserted in the MND. Ms. Toncheva notes that the 12-foot barrier would result in a dBA reduction of 15, which will not be enough to reduce the impacts to nearby sensitive receptors to non-significant levels.⁵²

Ms. Toncheva found that the mitigation offered by the MND is wholly insufficient. She explains that a reduction of even 15 dBA (the maximum reduction that mitigation measure RCM-1 would provide) is inadequate to mitigate noise impacts at the nearby residences of the Project.⁵³ Ms. Toncheva explains that these errors were the result of the City's reliance on the incorrect interpretation of Municipal Code noise standards, as discussed above. As a result, the noise mitigation proposed in the MND will be ineffective to reduce noise impacts below levels of significance and is not adequate to support a finding of no significant impact with mitigation.

4. The MND Fails to Analyze Operational Noise Impacts

The MND does not provide a quantitative analysis for noise from on-site operations such as activity in the play area, trash-hauling, or traffic noise and other activity during pick up/drop off along the driveway directly adjacent to residences.

⁵⁰ Toncheva Comments, p. 3.

⁵¹ MND, pp. 108-109.

⁵² Toncheva Comments, p. 2.

⁵³ Toncheva Comments, p. 2.

Ms. Toncheva notes that these activities may result in an increase of 5 dB or more over the ambient, resulting in a significant impact. The City must conduct a quantified noise analysis to determine if additional mitigation measures are necessary to reduce the Projects potentially significant operational noise impacts.

C. The MND Fails to Analyze and Mitigate the Project's Potentially Significant Energy Impacts

The MND is inadequate as an environmental document because it fails to properly disclose, analyze, and mitigate the Project's potentially significant impacts on energy use. The City cannot approve the Project until an EIR is prepared and circulated to resolve these issues and comply with CEQA's requirements. Namely, the City's construction energy analysis fails to quantify and adequately assess the Project's energy consumption impacts during Project construction.

The MND states that Project construction energy use would result through the consumption of gasoline and diesel fuel. The energy use analysis does not analyze electricity use from the existing power grid despite the requirement under mitigation measure AQ-1 which stipulates that "[e]lectricity shall be supplied to the site from the existing power grid to support the electric construction equipment."⁵⁴ Electricity use from the existing power grid is not included or analyzed in the Project's construction energy use analysis. As a result, the MND lacks substantial evidence to conclude that construction-phase impact related to energy consumption would be less than significant.⁵⁵

The City must revise the construction energy use analysis to include the expected electricity use and include the results of the analysis in an EIR.

D. The MND Fails to Account for the Public Services That Will Be Needed to Support the Project

An MND must consider the effect of changes to the environment that can result from the expansion of services.⁵⁶ Here, the MND states that the Project would not place an unanticipated burden on police protection services.⁵⁷ However, the MND fails to include any information or analysis on how this conclusion was reached.

⁵⁴ MND, p. 48.

⁵⁵ MND, p. 63.

⁵⁶ *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal.3d 553.

⁵⁷ MND, p. 116.

Additionally, the Project is within the Mission Hills-Panorama City-North Hills Community Plan (“Community Plan”) Area which includes goals and objectives to ensure proper police protection of new developments.⁵⁸ The Community Plan includes the following policies and related programs that are applicable to the Project:

- 8-2.2 Ensure that landscaping around buildings be placed so as not to impede visibility.
 - Program: Discretionary land use reviews and approvals by the Department of City Planning with consultation from the Los Angeles Police Department.
- 8-2.3 Ensure adequate lighting around residential, commercial, and industrial buildings in order to improve security.
 - Program: Discretionary land use reviews and approvals by the Department of City Planning with consultation from the Los Angeles Police Department.⁵⁹

Policies 8-2.2 and 8-2.3 both include a program requirement that consultation be completed with LAPD as part of a project’s land use review process in order to ensure the safety of the future occupants of a project, in this case children and teachers primarily. However, the MND does not include any analysis of the Project’s conformance with the Community Plan and provides no evidence that the required consultation has been completed. Instead, the MND states that the “Project would comply with all applicable regulations required by the LAPD during the plan check process.”⁶⁰

This approach improperly defers required analysis of the Project’s potential impacts to public services that may be uncovered during LAPD’s review of the Project and defers mitigation measures that may be required through consultation with LAPD. As a result, the MND fails to demonstrate consistency with mandatory public protection policies in the Community Plan, in violation of CEQA and land use law.

⁵⁸ City of Los Angeles, Mission Hills-Panorama City-North Hills Community Plan (1999) p. III-16, available at https://planning.lacity.org/odocument/fee68461-843f-48da-92e9-49a01d1f09e3/Mission_Hills-Panorama_City-North_Hills_Community_Plan.pdf

⁵⁹ Community Plan, p. III-16.

⁶⁰ MND, p. 116.
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For example, LAPD's review of the project may find that additional lighting is necessary for the Project to protect the students and staff, this would in turn increase the Project's energy use and GHG impacts. Similarly, consultation with LAPD may require alteration to the Project's landscaping plan changing the number of protected trees and shrubs to be replaced resulting in nonconformance with the City's tree protection policies.⁶¹ The MND is silent on these issues.

Given the massively significant impacts that crime, violence, and shootings at schools have wreaked on American children and their families in recent years, it is incumbent on the City to take every feasible step to ensure that schools are built safely and in compliance with all Police Department land use policies. The MND's failure to demonstrate compliance with Policies 8-2.2 and 8-2.3 is inexcusable.

The City failed to proceed in the manner required by law by failing analyze consistency with the Community Plan's public protection policies and lacks substantial evidence to support its conclusion that the Project's public services impacts would be less than significant. The City must complete the required consultation with LAPD and analyze the environmental impacts of any required Project design changes to the Project in an EIR.

E. The MND Fails to Mitigate Potentially Significant Impacts to Protected Species and Failed to Consult with Responsible Wildlife Agencies

The MND states that the Project would result in the removal of 9 protected native trees and 32 non-protected significant trees.⁶² Eight of the protected trees to be removed are Southern California black walnut trees [*Juglans californica*] which are listed by the California Department of Fish and Wildlife in the California Natural Diversity Database ("CNDDB") on the Special Vascular Plants, Bryophytes, And Lichens List⁶³ and recognized by the United States Department of Agriculture as "severely threatened by urbanization. According to the USDA, the Nature Conservancy, in cooperation with the state of California, is giving high priority to acquiring vegetative/habitat data on the woodland and is listed as one of

⁶¹ "[P]rotected tree/shrub removals would be replaced at a 1:4 ratio by planting 36 trees on-site. Non-protected tree removals would be replaced at a 1:1 ratio by planting 32 trees on-site." MND, p. 20

⁶² MND, p. 54.

⁶³ California Department of Fish and Wildlife, Biogeographic Data Branch, California Natural Diversity Database, Special Vascular Plants, Bryophytes, And Lichens List (October 2022) available at <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109383&inline>
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California's rare and imperiled natural communities.⁶⁴ CDFW regularly provides comments on projects that deal with removal of South Coast black walnut. However, it is not clear whether the CDFW was consulted as a trustee agency for this Project.

Under CEQA, a project that affects the habitat of an endangered, rare, or threatened species is considered to be a project of statewide significance that requires state agency review of a CEQA document prepared for the project.⁶⁵ In addition, when preparing its CEQA document, the lead agency must consult with CDFW and obtain written findings from CDFW on the impact of the project on the continued existence of any State-listed endangered or threatened species.⁶⁶

The CDFW regularly provides substantive comments and recommendations to the City regarding the removal of South Coast black walnut trees. For example, a recent City of Los Angeles project, The James Street Four (4) Single-Family Residences, Case Number: ENV-2018-1130-MND⁶⁷, which required the removal of 11 Southern California Black Walnut trees did include consultation with the CDFW resulting in the following recommended mitigation measures:

- Mitigation Measure #2: CDFW recommends the City work with a certified arborist familiar with Southern California black walnut tree life history to update the Protected Tree Report and Tree Locations on Project Landscaping Plan for 434, 438, and 442 West James Street. Specifically, CDFW recommends modifying the plans to reflect a total of 20 replacement Southern California black walnut trees appropriately spaced to accommodate growth horizontally, vertically, and laterally below ground. CDFW also recommends that each landscaping plan and/or Protected Tree Report be updated to disclose/provide planting instructions specifying appropriate spacing between each replacement tree.⁶⁸

⁶⁴ U.S.D.A., Fire Effects Information System, Index of Species Information, *Juglans californica*, available at <https://www.fs.usda.gov/database/feis/plants/tree/jugcal/all.html>

⁶⁵ 14 CCR § 15206(b)(5). "A project which would substantially affect sensitive wildlife habitats including but not limited to riparian lands, wetlands, bays, estuaries, marshes, and habitats for endangered, rare and threatened species as defined by Section 15380 of this Chapter."

⁶⁶ PRC § 21104.2.

⁶⁷ City of Los Angeles, James Street Four (4) Single-Family Residences MND, SCH 2020100088 (October 6, 2020) available at <https://ceqanet.opr.ca.gov/2020100088/2>

⁶⁸ California Department of Fish and Wildlife, Letter re James Street Four (4) Single-Family Residences, MND, SCH #2020100088, City of Los Angeles, Los Angeles County (November 9, 2020) p. 3. available at https://files.ceqanet.opr.ca.gov/265078-2/attachment/cjEnN_Le0w7OINF2hj_LUpX0DG-Af32QhutP1XGnwh8DFEvrYlyXncLOILCv5RJD4GRhuEoXopL13p0
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- Mitigation Measure #3: CDFW recommends that trees planted for mitigation be monitored, maintained, and inspected as described in the Protected Tree Report. CDFW recommends long-term monitoring, maintenance, and inspection until all planted trees survive to produce reproductive structures (i.e., catkins).⁶⁹
- Mitigation Measure #4: If the City observes changes, stress, or failure of planted Southern California black walnut trees, as recommended in the Protected Tree Report, CDFW recommends consulting with a certified arborist or tree specialist to assess the tree and provide specific recommendations. There should be no net loss of Southern California black walnut trees. If any replacement trees fail, CDFW recommends City replace those trees until a minimum of 20 total trees survive to produce catkins.⁷⁰

The City failed to submit the MND to the State Clearinghouse (“SCH”) and consult with CDFW as a trustee agency, as required under CEQA. When questioned by the California Office of Planning and Research why the Project was not submitted to the SCH, the City’s internal email exchange shows that they determined that the Project was not affected by CCR §§ 15205 and 15206.⁷¹ The City has violated CEQA by failing to submit the MND to the SCH and failing to consult with CDFW.

IV. THE CITY LACKS SUBSTANTIAL EVIDENCE TO APPROVE THE PROJECT’S LOCAL LAND USE PERMITS

A. The City Cannot Approve the Project’s Conditional Use Permit

The Project seeks approval of a Conditional Use Permit to allow development of a public school in the RA-1 zone (“CUP”) pursuant to LAMC § 12.24.⁷² The MND fails to accurately disclose and mitigate significant impacts, as discussed herein. Therefore, the Project currently fails to meet the LAMC requirements to obtain a CUP. LAMC § 12.24(E) requires the following findings be made to approve the CUP:

- (1) that the project will enhance the built environment in the surrounding neighborhood or will perform a function or provide a service that is essential or beneficial to the community, city, or region;

⁶⁹ *Id.*, at p. 4

⁷⁰ *Ibid.*

⁷¹ **Exhibit C:** Email from Maria Reyes, City of Los Angeles to Esther Ahn, City of Los Angeles, re: SCH Number (New SCH Number), (November 22, 2022).

⁷² LAMC § 12.24(U)(24).
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- (2) that the project's location, size, height, operations, and other significant features will be compatible with and will not adversely affect or further degrade adjacent properties, the surrounding neighborhood, or the public health, welfare, and safety; and
- (3) that the project substantially conforms with the purpose, intent and provisions of the General Plan, the applicable community plan, and any applicable specific plan.

The Project as analyzed above **will** adversely affect public health due to the Project's proximity to I-405 and the unmitigated impacts to future students and school staff, **will** adversely affect adjacent properties due to unmitigated noise impacts and, and **does not** comply with the applicable community plan by failing to consult with LAPD prior to Project approval.

Additionally, the MND's analysis of air quality ignores substantial evidence that the Census Tract 6037117201, which contains the Project site, is a designated disadvantaged community under Senate Bill 535.⁷³

Census tract 6037117201 is in the top 10th percentile of communities impacted by diesel particulate matter, the top 6th percentile of communities impacted by traffic, and the top 5th percentile of communities impacted by ozone in the State of California.⁷⁴ The City must reanalyze the air quality and health risk impacts of the Project and consider the public well-being of this already burdened community in an EIR. Given the Project's location in a region with one of the nation's worst records for air quality, in a disadvantaged community already overly burdened by exposure to harmful air contaminants, it is impossible to find that the Project is consistent with the Municipal Code. The Project cannot be found to not adversely affect the public health, welfare and safety of students and staff present at the Project site. The City must prepare an EIR that includes a statement of overriding considerations to justify the use of the Project site.

⁷³ California Office of Environmental Health Hazard Assessment, SB 535 Disadvantaged Communities (2022) available at <https://oehha.ca.gov/calenviroscreen/sb535>

⁷⁴ Clark Comments, p. 4.
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V. CONCLUSION

For the reasons discussed above, the MND for the Project remains wholly inadequate under CEQA. There is substantial evidence supporting a fair argument that the Project has numerous potentially significant, unmitigated impacts. The City must prepare and circulate an EIR to provide legally adequate analysis of, and mitigation for, all of the Project's potentially significant impacts. Until the City prepares an EIR, the City may not lawfully approve the Project.

Thank you for your attention to these comments. Please include them in the record of proceedings for the Project.

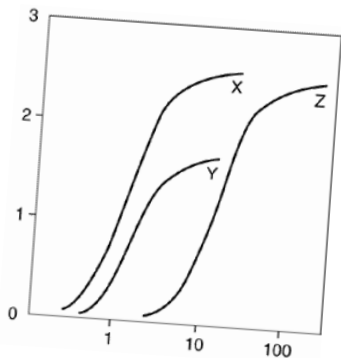
Sincerely,



Kevin Carmichael

KTC:ljl

EXHIBIT A



Clark & Associates

Environmental Consulting, Inc.

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December 13, 2022

Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

Attn: Mr. Kevin Carmichael

Subject: Comments On Initial Study/Mitigated Negative Declaration (IS/MND) For Valor Elementary School Project, Los Angeles, CA 91343 Case Number: ENV-2022-5866-MND

Dear Mr. Carmichael:

At the request of Adams Broadwell Joseph & Cardozo (ABJC), Clark and Associates (Clark) has reviewed materials related to the 2022 City of Los Angeles' (the City's) draft environmental impact report ("DEIR") of the above referenced project.

Clark's review of the materials in no way constitutes a validation of the conclusions or materials contained within the plan. If we do not comment on a specific item this does not constitute acceptance of the item.

Project Description:

According to the City, Bright Star Schools (the "Applicant") proposes to redevelop the site located at 15526-15544 Plummer Street ("Project Site" or "Site), which encompasses approximately 2.06 acres (approximately 89,629 square feet [sf]), into an elementary school. The Site consists of two parcels identified by Assessor Parcel Number (APN) 265-601-5007, which is approximately 1.30 acres in size, and APN 265-601-5008, which is approximately 0.76 acre in size.

The Project Site is in an urbanized area. Land uses surrounding the Project Site include Plummer Street to the north, with single-family residences beyond; single- and multi-family residences to the east, with an apartment building for senior citizens (Plummer Village) and

commercial uses beyond; single- and multi-family residences to the south, with Vincennes Street beyond; and single-family residences to the west, with Orion Avenue beyond. The Project Site is also located approximately 440 feet east of Interstate 405 (I-405).



Figure 1: Site Location

The Valor Elementary School Project (“Proposed Project” or “Project”) involves the construction of a one and two-story, 26.5-foot-tall, elementary school building with 28 classrooms (totaling 23,538 sf) for grades transitional kindergarten (TK) through 4; a multi-purpose room (totaling 3,182 sf); administrative spaces (totaling 1,616 sf); corridors, storage spaces, and covered outdoor dining (totaling 6,419 sf); and a surface parking lot with an ingress/egress driveway off Plummer Street. The elementary school building would have a total building area of 34,755 sf and would accommodate a maximum enrollment of 552 students. The Project would also include 30,726 sf of open space and landscaping, including two play areas (totaling 13,060 sf), a kindergarten play area (totaling 1,300 sf).

Figure 2 Project Location

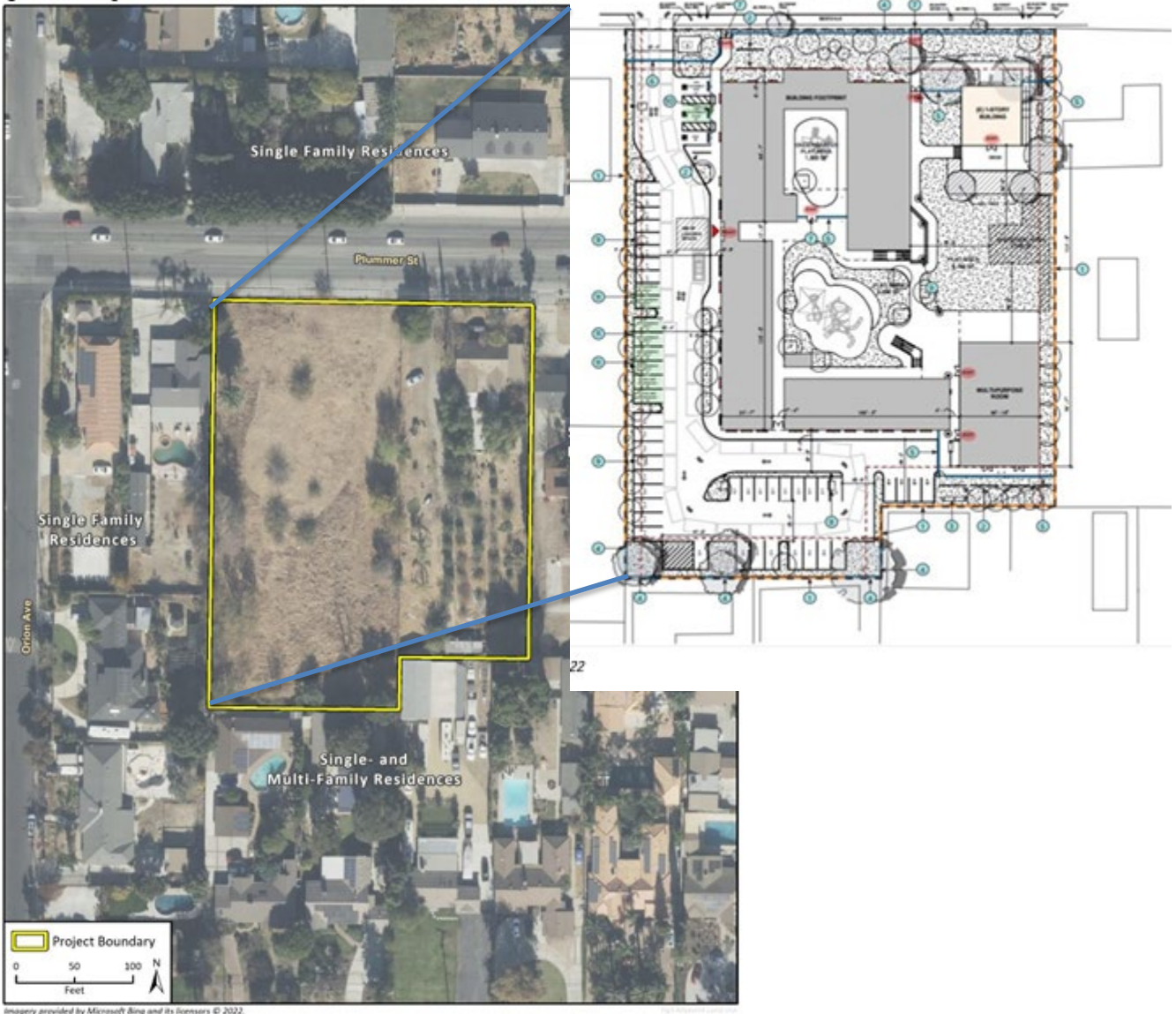


Figure 2: Project Location and Site Plan

Project construction is expected to commence in September 2023. Construction activities would occur on weekdays between 8:00 a.m. and 3:00 p.m. The Project would require excavation of approximately 12,500 cubic yards (cy) of soil material. Of the 12,500 cy of soil, approximately 10,000 cy would be used as fill and redistributed on-site and the remaining 2,500 cy would be exported off the Site.

There are potentially significant air quality and public health impacts that are not addressed in the City's analysis that must be addressed in a draft environmental impact report ("DEIR").

Specific Comments:

1. The City's Air Quality Analysis Fails To Consider The Existing Air Quality Burden In The Already Impacted Census Tract.

The City's analysis of pollutants in this section of the response ignores substantial evidence from publicly available data demonstrating that the census tract in which the Project Site resides is in the top 10th percentile for pollution burden, traffic, and DPM exposure in California. Under Senate Bill 535 (SB 535), the California Environmental Protection Agency (CalEPA) was charged with identifying disadvantaged communities. CalEPA was tasked with basing the designations on geographic, socioeconomic, public health, and environmental hazard criteria. In response, CalEPA's Environmental Health and Hazard Assessment (OEHHA) compiled the CalEnviroScreen data tool. CalEPA generally defines communities in terms of census tracts and identifies four types of geographic areas as disadvantaged: (1) census tracts receiving the highest 25 percent of overall scores in CalEnviroScreen 4.0; (2) census tracts lacking overall scores in CalEnviroScreen 4.0 due to data gaps, but receiving the highest 5 percent of CalEnviroScreen 4.0 cumulative pollution burden scores; (3) census tracts identified in the 2017 DAC designation as disadvantaged, regardless of their scores in CalEnviroScreen 4.0; (4) and areas under the control of federally recognized Tribes.

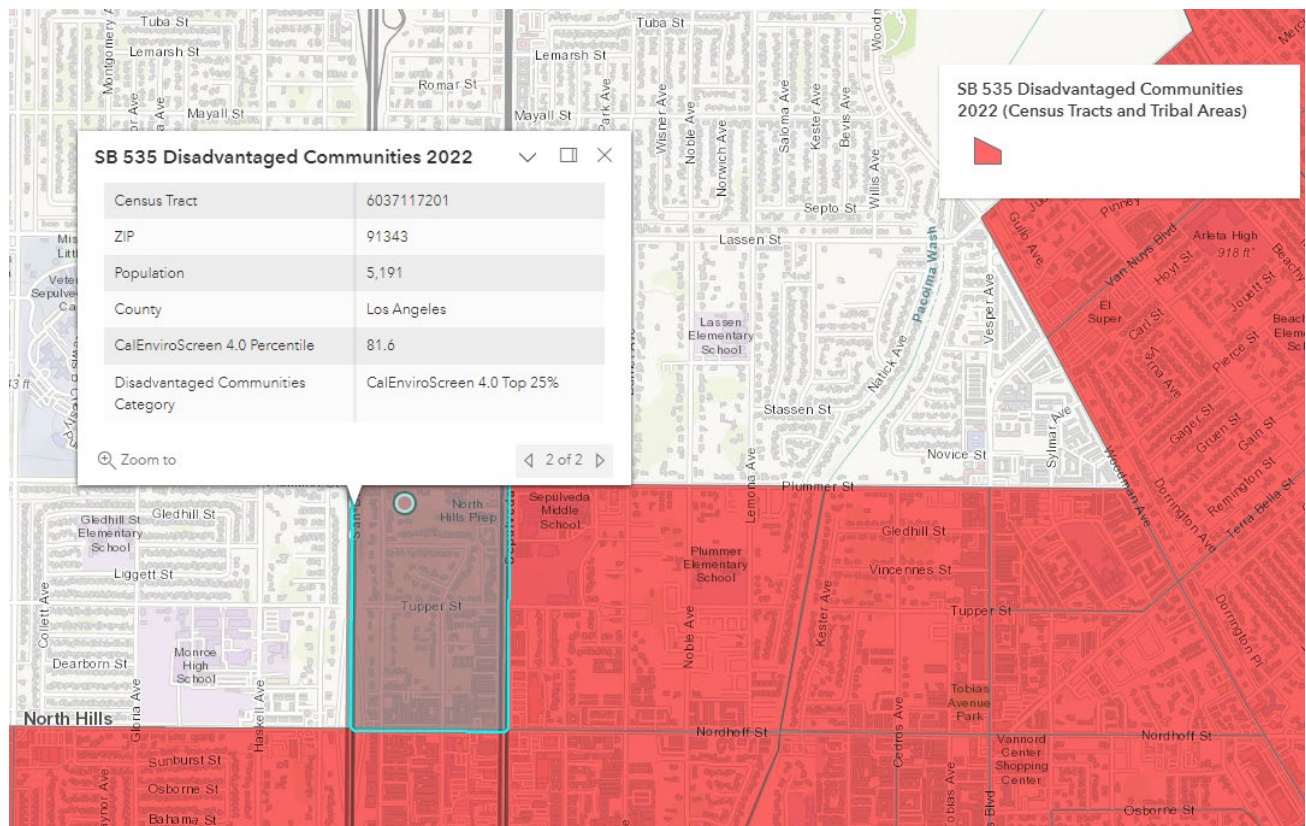


Figure 3: CalEnviroScreen 4.0 Analysis Of Census Tract 6037117201

The designation for Census Tract 6037117201, which contains the Project Site, shows that the Census Tract is a designated disadvantaged community under SB 535.

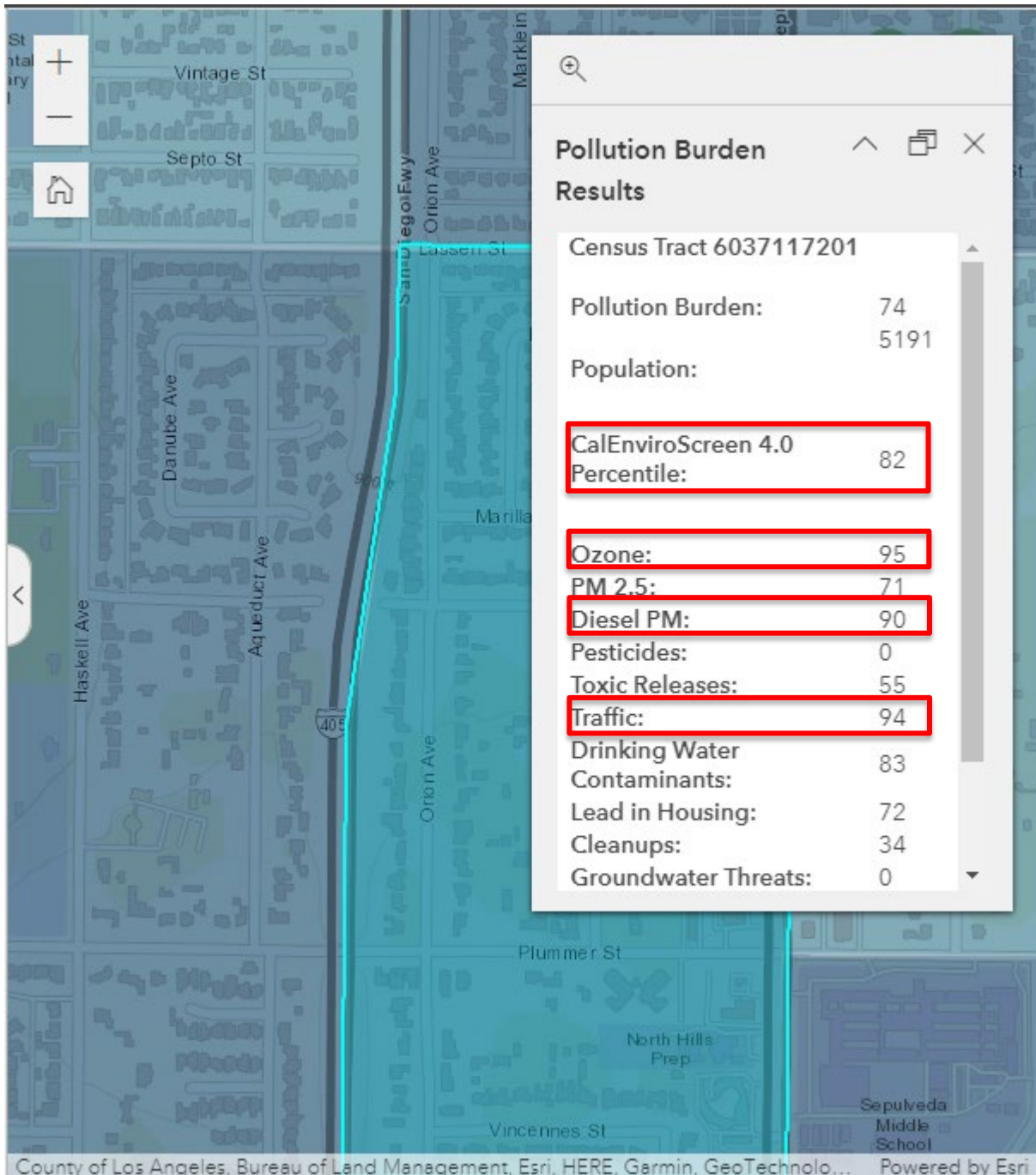


Figure 4: CalEnviroScreen 4.0 Pollution Burden Results For Project Site Location

Census tract 6037117201 is in the top 10th percentile of communities impacted by diesel particulate matter, the top 6th percentile of communities impacted by traffic, and the top 5th percentile of communities impacted by ozone in the State of California. The City must reanalyze the air quality and traffic impacts of the Project and consider the public well-being of this already burdened community in an environmental impact report (EIR).

2. The IS/MND Fails To Consider The Impacts Of Adjacent Sites On The Project Site And Does Not Comply With The California Education Code Regarding The Assessment Of Environmental Contaminants At Proposed School Sites.

The IS/MND fails to consider the impacts of the adjacent sites on the Project site. Immediately adjacent to the Project site are a number of sources that are permitted by the South Coast Air Quality Management District (SCAQMD). According to the SCAQMD's Facility Information Detail (FIND) website, there are at least 6 different permitted sites within ½ mile of the Project Site. The sites emit a number of potential toxic air contaminants including VOCs, diesel exhaust, and particulate matter.

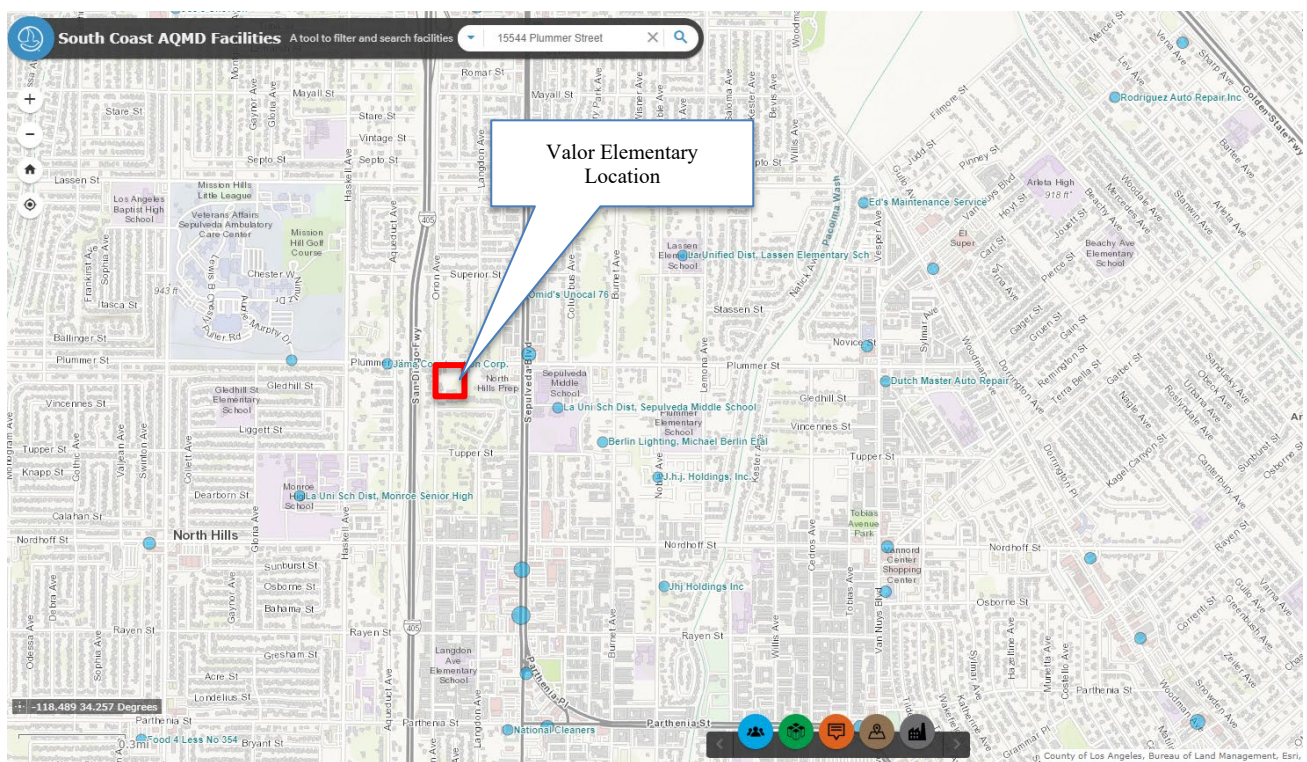


Figure 5: SCAQMD FIND Results For Permitted Facilities Near Project Site

In addition to failing to assess the impacts of offsite emissions on the students and staff that will be using the Project Site, the City has failed to comply with the California Education Code requirements for assessing whether there has been a release of hazardous wastes at the school site or if the hazardous materials reaching the school site pose a health risk to the sensitive receptors present at the site. Using the three step process outlined by the DTSC Site Mitigation and Restoration Program's Schools Unit (Step 1: Phase 1 Environmental Site Assessment; Step 2: Preliminary Endangerment Assessment (PEA); and, Step 3: Response Action) it is clear that the City and the

Proponent have failed to perform the necessary analysis of health risks from chemicals that will impact the students at this time. According to the DTSC's website:

"A Preliminary Environmental Assessment is required when there is potential contamination on the school site. This can be determined through a Phase I Environmental Site Assessment or districts may elect to proceed directly to a Preliminary Environmental Assessment based on site knowledge (Ed. Code, § 17213.1, subsec. (a)(4)(B)). The assessment includes collection of environmental samples and evaluation of potential health risks. School districts enter into an Environmental Oversight Agreement with DTSC, then contract with a qualified environmental consultant to prepare an assessment according to DTSC guidelines. The assessment includes preparation of a work plan, collection and analysis of environmental samples, and preparation of a Preliminary Environmental Assessment report; (Ed. Code, § 17210, subsec. (b) and § 17213.1, subsec. (a)(4)(B)). The report includes results of environmental sampling and a health risk assessment conducted according to DTSC guidelines (Ed. Code, § 17213.1, subsec. (a)(4)(B)). As required by the Education Code (Ed. Code, § 17213.1, subsec. (a)(6)), school districts must make the report available for public review and comment before DTSC's final determination. DTSC is required to approve or disapprove the Preliminary Environmental Assessment Report within 30 days of close of public review period (Ed. Code, § 17213.1, subsec. (a)(6)(A)) or within 30 days of the school district's approval of the Environmental Impact Report for the school (Ed. Code, § 17213.1, subsec. (a)(6)(B)). If the assessment identifies no significant health or environmental risks, the school district will receive a "No Further Action" determination letter from DTSC (Ed. Code, § 17213.1, subsec. (a)(9)) and the process is complete. If the assessment identifies potential contamination, further action will be required."

Clearly the City and the Applicant have failed to meet their requirements to assess all risks to students and staff under the Education Code and must complete a PEA, which includes its own Health Risk Analysis (HRA), prior to the preparation of the IS/MND. The City must immediately move to an EIR to assess those risks and develop a comprehensive remediation plan to ensure the health and safety of the sensitive receptors on site.

3. The City Has Failed To Provide All Of The Necessary Appendices And Worksheets To The Health Risk Analysis Of The Freeway Emission Impacts To Allow For Validation Of The City's Analysis

A review of the Appendix B to this IS/MND, the Health Risk Analysis for the Project, references files not included in the final report. According to Section 3.1.1. Air Dispersion Modeling of Appendix B, "TAC emissions associated with vehicle traffic on I-405 were estimated based on the

methodology and spreadsheet developed by the UC Davis-Caltrans Air Quality Project, Estimating Mobile Source Air Toxics Emissions [MSAT]: A Step-By-Step Project Analysis Methodology (2006). This spreadsheet was designed to estimate the total amount of the six pollutants of concern discussed in Section 2.2, Toxic Air Contaminants, based on total organic gases emission factors and diesel particulate emission factors from EMFAC2021... The spreadsheet outputs from the UC Davis-Caltrans MSAT model and composite emission rates are contained in Appendix A.” Appendix A to the HRA is listed as the AERMOD Output Files. The failure to include the referenced spreadsheet(s) makes it impossible to validate the model inputs.

4. The City’s Reliance On Local Significance Thresholds (LSTs) Ignores The Substantial Impacts To Residents Near The Project

According to the City of Los Angeles’ 2019 Air Quality and Health Effects Guidance, airborne pollutants that may be expected to result in an increase in mortality or serious illness or which may pose a present or potential hazard to human health, and include both carcinogens and non-carcinogens defined as TACs.¹ Diesel exhaust, in particular DPM, is classified by the State of California as a TAC. The determination of a significance threshold is based on a *quantitative risk analysis* that requires the City to perform a multistep, quantitative health risk analysis for TACs.² Despite this clear guidance, no effort is made in the IS/MND to quantify the potential health impacts from emissions generated by construction activities or operational activities from the Project on these sensitive receptors.

According to SCAQMD³, LSTs are only applicable to criteria pollutants: oxides of nitrogen (NO_x), carbon monoxide (CO), particulate matter less than 10 microns in aerodynamic diameter (PM₁₀) and particulate matter less than 2.5 microns in aerodynamic diameter (PM_{2.5}), not to TACs. LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area and distance to the nearest sensitive receptor.

¹ City of Los Angeles. 2019. Air Quality and Health Effects Guidance. Pg 6.

² City of Los Angeles. 2019. Air Quality and Health Effects Guidance. Pg 9, pg 36.

³ <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>

For TACs, there are no LSTs, nor levels of significance based on the pounds per day. According to the City of Los Angeles' 2019 Air Quality And Health Effects Guidance airborne pollutants that may be expected to result in an increase in mortality or serious illness or which may pose a present or potential hazard to human health, and include both carcinogens and non-carcinogens are defined as toxic air contaminants.⁴ Diesel exhaust, in particular diesel particulate matter, is classified by the State of California as a toxic air contaminant. Instead, the determination of a significance threshold is based on a *quantitative risk analysis* that requires the City to perform a multistep, quantitative health risk analysis for TACs.⁵

The City failed to perform this analysis, and therefore lacks supporting evidence for its conclusion that the Project would not result in significant health effects. The City's failure to perform such an analysis is clearly a major flaw in the IS/MND and may be placing the residents of the adjacent structures at risk from the construction phase of the Project.

5. The City's Analysis Appears To Focus Only On Diesel Particulate Matter (DPM) Emissions From The Freeway And Does Not Include A Speciated Analysis Of All TACs From The Freeway

While the primary source of particulate matter from freeways is diesel particulate exhaust, other emissions that will impact students and staff at the Valor Elementary Project Site from freeways include carbon dioxide (CO₂), carbon monoxide (CO), hydrocarbons (HC), nitrogen oxides (NO_x), particulate matter (PM), and substances known as mobile source air toxics (MSATs), such as benzene, formaldehyde, acetaldehyde, 1,3-butadiene, toluene, ethylbenzene, xylenes, and acetaldehyde. Each of these compounds, along with secondary by-products, such as ozone and secondary aerosols (e.g., nitrates and inorganic and organic acids), can cause adverse effects on health and the environment.⁶

Diesel exhaust contains nearly 40 toxic substances, including toxic air contaminants (TACs) and may pose a serious public health risk for residents in the vicinity of the facility. TACs are airborne

⁴ City of Los Angeles. 2019. Air Quality and Health Effects Guidance. Pg 6.

⁵ City of Los Angeles. 2019. Air Quality and Health Effects Guidance. Pg 9, pg 36.

⁶ HEI. 2010. Traffic-Related Air Pollution: A Critical Review of the Literature on Emissions, Exposure, and Health Effects. January, 2010.

substances that are capable of causing short-term (acute) and/or long-term (chronic or carcinogenic, i.e., cancer causing) adverse human health effects (i.e., injury or illness). TACs include both organic and inorganic chemical substances. The current California list of TACs includes approximately 200 compounds, including particulate emissions from diesel-fueled engines.

Diesel exhaust has been linked to a range of serious health problems including an increase in respiratory disease, lung damage, cancer, and premature death.^{7,8,9} Fine DPM is deposited deep in the lungs in the smallest airways and can result in increased respiratory symptoms and disease; decreased lung function, particularly in children and individuals with asthma; alterations in lung tissue and respiratory tract defense mechanisms; and premature death.¹⁰ Exposure to DPM increases the risk of lung cancer. It also causes non-cancer effects including chronic bronchitis, inflammation of lung tissue, thickening of the alveolar walls, immunological allergic reactions, and airway constriction.¹¹ DPM is a TAC that is recognized by state and federal agencies as causing severe health risk because it contains toxic materials, unlike PM_{2.5} and PM₁₀.¹²

It is evident that the HRA provided as an Appendix to the IS/MND fails to include all of the compounds associated with freeway emissions. The HRA therefore is an underestimate of the impacts that will burden the students, staff, and parents associated with the Project. The City must revise the HRA to include all compounds associated with freeway emissions in its analysis of risk in an EIR.

⁷ California Air Resources Board, Initial Statement of Reasons for Rulemaking, Proposed Identification of Diesel Exhaust as a Toxic Air Contaminant, Staff Report, June 1998; see also California Air Resources Board, Overview: Diesel Exhaust & Health, <https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health#:~:text=Diesel%20Particulate%20Matter%20and%20Health&text=In%201998%2C%20CARB%20identified%20DPM.and%20other%20adverse%20health%20effects>.

⁸ U.S. EPA, Health Assessment Document for Diesel Engine Exhaust, Report EPA/600/8-90/057F, May 2002.

⁹ Environmental Defense Fund, Cleaner Diesel Handbook, Bring Cleaner Fuel and Diesel Retrofits into Your Neighborhood, April 2005; http://www.edf.org/documents/4941_cleanerdieselhandbook.pdf, accessed July 5, 2020.

¹⁰ California Air Resources Board, Initial Statement of Reasons for Rulemaking, Proposed Identification of Diesel Exhaust as a Toxic Air Contaminant, Staff Report, June 1998.

¹¹ Findings of the Scientific Review Panel on The Report on Diesel Exhaust as adopted at the Panel's April 22, 1998 Meeting.

¹² Health & Safety Code § 39655(a) (defining "toxic air contaminant" as air pollutants "which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health. A substance that is listed as a hazardous air pollutant pursuant to subsection (b) of Section 112 of the federal act (42 U.S.C. Sec. 7412 (b)) is a toxic air contaminant.")

6. Using the Same Input Parameters As The AERMOD Model Presented In Appendix B, Produces Exposure Concentrations Approximately 1.5 Times Higher Than In The Model Presented In The HRA

Using the same input parameters listed in AERMOD input file utilized in the Health Risk Analysis for the Project (Appendix B) to the IS/MND, produces concentrations at the Project Site 1.5 times higher than presented in the HRA. The input parameters listed in the Rincon model are presented in an Appendix to this letter.

The 10 highest values from Rincon HRA are included below.

** CONC OF FREEWAY IN MICROGRAMS/M**3									
GROUP ID		AVERAGE CONC		RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)		OF TYPE	NETWORK	GRID-ID
I405N	1ST HIGHEST VALUE IS	5.24079 AT		364484.65,	3790059.89,	235.00,	235.00,	0.00)	GC UCART1
	2ND HIGHEST VALUE IS	5.22373 AT		364484.65,	3790044.89,	235.00,	235.00,	0.00)	GC UCART1
	3RD HIGHEST VALUE IS	5.20670 AT		364484.65,	3790029.89,	235.00,	235.00,	0.00)	GC UCART1
	4TH HIGHEST VALUE IS	5.18954 AT		364484.65,	3790014.89,	235.00,	235.00,	0.00)	GC UCART1
	5TH HIGHEST VALUE IS	5.17212 AT		364484.65,	3789999.89,	235.00,	235.00,	0.00)	GC UCART1
	6TH HIGHEST VALUE IS	5.15437 AT		364484.65,	3789984.89,	235.00,	235.00,	0.00)	GC UCART1
	7TH HIGHEST VALUE IS	5.13617 AT		364484.65,	3789969.89,	235.00,	235.00,	0.00)	GC UCART1
	8TH HIGHEST VALUE IS	5.11738 AT		364484.65,	3789954.89,	235.00,	235.00,	0.00)	GC UCART1
	9TH HIGHEST VALUE IS	5.09801 AT		364484.65,	3789939.89,	235.00,	235.00,	0.00)	GC UCART1
	10TH HIGHEST VALUE IS	5.07809 AT		364484.65,	3789924.89,	235.00,	235.00,	0.00)	GC UCART1
I405S	1ST HIGHEST VALUE IS	4.36772 AT		364484.65,	3790059.89,	235.00,	235.00,	0.00)	GC UCART1
	2ND HIGHEST VALUE IS	4.35375 AT		364484.65,	3790044.89,	235.00,	235.00,	0.00)	GC UCART1
	3RD HIGHEST VALUE IS	4.34002 AT		364484.65,	3790029.89,	235.00,	235.00,	0.00)	GC UCART1
	4TH HIGHEST VALUE IS	4.32650 AT		364484.65,	3790014.89,	235.00,	235.00,	0.00)	GC UCART1
	5TH HIGHEST VALUE IS	4.31311 AT		364484.65,	3789999.89,	235.00,	235.00,	0.00)	GC UCART1
	6TH HIGHEST VALUE IS	4.29985 AT		364484.65,	3789984.89,	235.00,	235.00,	0.00)	GC UCART1
	7TH HIGHEST VALUE IS	4.28670 AT		364484.65,	3789969.89,	235.00,	235.00,	0.00)	GC UCART1
	8TH HIGHEST VALUE IS	4.27360 AT		364484.65,	3789954.89,	235.00,	235.00,	0.00)	GC UCART1
	9TH HIGHEST VALUE IS	4.26055 AT		364484.65,	3789939.89,	235.00,	235.00,	0.00)	GC UCART1
	10TH HIGHEST VALUE IS	4.24754 AT		364484.65,	3789924.89,	235.00,	235.00,	0.00)	GC UCART1
ALL	1ST HIGHEST VALUE IS	9.60851 AT		364484.65,	3790059.89,	235.00,	235.00,	0.00)	GC UCART1
	2ND HIGHEST VALUE IS	9.57748 AT		364484.65,	3790044.89,	235.00,	235.00,	0.00)	GC UCART1
	3RD HIGHEST VALUE IS	9.54672 AT		364484.65,	3790029.89,	235.00,	235.00,	0.00)	GC UCART1
	4TH HIGHEST VALUE IS	9.51604 AT		364484.65,	3790014.89,	235.00,	235.00,	0.00)	GC UCART1
	5TH HIGHEST VALUE IS	9.48523 AT		364484.65,	3789999.89,	235.00,	235.00,	0.00)	GC UCART1
	6TH HIGHEST VALUE IS	9.45421 AT		364484.65,	3789984.89,	235.00,	235.00,	0.00)	GC UCART1
	7TH HIGHEST VALUE IS	9.42287 AT		364484.65,	3789969.89,	235.00,	235.00,	0.00)	GC UCART1
	8TH HIGHEST VALUE IS	9.39098 AT		364484.65,	3789954.89,	235.00,	235.00,	0.00)	GC UCART1
	9TH HIGHEST VALUE IS	9.35856 AT		364484.65,	3789939.89,	235.00,	235.00,	0.00)	GC UCART1
	10TH HIGHEST VALUE IS	9.32563 AT		364484.65,	3789924.89,	235.00,	235.00,	0.00)	GC UCART1

The output for the same model run by my office is presented below.

*** MODELOPTs: NonDEFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF DEPM IN MICROGRAMS/M**3

**

GROUP ID		AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
:-405N	1ST HIGHEST VALUE IS	7.62455	AT (	364484.70, 3790059.90, 235.00, 235.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	7.60277	AT (	364484.70, 3790044.90, 235.00, 235.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	7.58077	AT (	364484.70, 3790029.90, 235.00, 235.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	7.55865	AT (	364484.70, 3790014.90, 235.00, 235.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	7.53641	AT (	364484.70, 3789999.90, 235.00, 235.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	7.51356	AT (	364484.70, 3789984.90, 235.00, 235.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	7.48997	AT (	364484.70, 3789969.90, 235.00, 235.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	7.46571	AT (	364484.70, 3789954.90, 235.00, 235.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	7.44045	AT (	364484.70, 3789939.90, 235.00, 235.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	7.41402	AT (	364484.70, 3789924.90, 235.00, 235.00, 0.00)	DC	
:-405S	1ST HIGHEST VALUE IS	6.45367	AT (	364484.70, 3790059.90, 235.00, 235.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	6.43583	AT (	364484.70, 3790044.90, 235.00, 235.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	6.41809	AT (	364484.70, 3790029.90, 235.00, 235.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	6.40054	AT (	364484.70, 3790014.90, 235.00, 235.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	6.38317	AT (	364484.70, 3789999.90, 235.00, 235.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	6.36584	AT (	364484.70, 3789984.90, 235.00, 235.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	6.34857	AT (	364484.70, 3789969.90, 235.00, 235.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	6.33143	AT (	364484.70, 3789954.90, 235.00, 235.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	6.31430	AT (	364484.70, 3789939.90, 235.00, 235.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	6.29715	AT (	364484.70, 3789924.90, 235.00, 235.00, 0.00)	DC	
ALL	1ST HIGHEST VALUE IS	14.07822	AT (	364484.70, 3790059.90, 235.00, 235.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	14.03860	AT (	364484.70, 3790044.90, 235.00, 235.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	13.99887	AT (	364484.70, 3790029.90, 235.00, 235.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	13.95919	AT (	364484.70, 3790014.90, 235.00, 235.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	13.91957	AT (	364484.70, 3789999.90, 235.00, 235.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	13.87940	AT (	364484.70, 3789984.90, 235.00, 235.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	13.83854	AT (	364484.70, 3789969.90, 235.00, 235.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	13.79714	AT (	364484.70, 3789954.90, 235.00, 235.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	13.75475	AT (	364484.70, 3789939.90, 235.00, 235.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	13.71117	AT (	364484.70, 3789924.90, 235.00, 235.00, 0.00)	DC	

Since the results of the model are in doubt based on the re-analysis of the AERMOD run, the City must re-run the model to confirm the model output presented in the HRA.

7. The City's Air Quality Analysis Includes Simplifying Assumptions That Underestimates The Impacts Of Freeway Emissions On The Project Site.

A review of the AERMOD input file utilized in the Health Risk Analysis for the Project (Appendix B) to the IS/MND shows simplifying assumptions made by Rincon Consultants, Inc (Rincon), the Proponent's consultant, that result in underestimations of the freeway exhaust impacts. According to the Executive Summary of Appendix B, The Project entails development of one and two-story, 26.5-foot-tall elementary school building with 28 classrooms for grades transitional kindergarten through fourth. In addition, the Project would construct a multi-purpose room, two play

areas, a kindergarten play area, administrative spaces, corridors and storage spaces, and a surface parking lot with an ingress/egress driveway off Plummer Street.

In Section 3.1.1. Air Dispersion Modeling of Appendix B, Rincon states “Specific meteorology and terrain data from SCAQMD’s Van Nuys Airport air monitoring station (of the closest station to the project site) and the United States Geological Survey (USGS) Digital Elevation Model (DEM) data for the Van Nuys and San Fernando Quadrangle were input to the model. The project site base elevation is approximately 264 meters above mean sea level (amsl). I-405 varies in elevation between approximately 256 and 274 meters amsl along the length of the approximately one-mile segment modeled. The dispersion model considers these differences in topography. The I-405 mainline within a half-mile of the project site was modeled as line volume sources in AERMOD. The presence of buildings and other structures disturbs downwind air flow. However, building downwash is only calculated for point sources and is not appropriate to include in AERMOD for this HRA. The plume height was based on an average for light- and heavy-duty vehicles (SBCAPCD 2020).” The model presented in the HRA assumes a flat model domain, eliminating an consideration of the differing elevation between the source of pollution and the receptor. The Applicant fails to describe why the elevation difference was not included in the model.

The source terms utilized in the are based on a model that is generally not utilized to assess existing emissions from roadways. According to Section 3.1.1 Air Dispersion Modeling, “Mobile source TAC emissions associated with vehicle traffic on I-405 were estimated based on the methodology and spreadsheet developed by the UC Davis-Caltrans Air Quality Project, Estimating Mobile Source Air Toxics Emissions [MSAT]: A Step-By-Step Project Analysis Methodology (2006). This spreadsheet was designed to estimate the total amount of the six pollutants of concern discussed in Section 2.2, Toxic Air Contaminants, based on total organic gases emission factors and diesel particulate emission factors from EMFAC2021. The analysis was based on year 2024 composite emission factors. The UC Davis-Caltrans spreadsheet contains speciation factors from the CARB, and the USEPA’s Motor Vehicle Emission Simulator (MOVES; USEPA 2016) was used to supplement missing values for acrolein. These emission and speciation factors were then multiplied by traffic volumes for the mainline to obtain total emissions from I-405 within one-half mile of the project site.” Since the Applicant has not included the MSAT spreadsheets, the source terms cannot be validated. Additionally, a review of the AERMOD input file shows that for the simulation the Applicant assumed

a standard emission rate of 1 gram of pollutant per sec (g/sec) divided among all of the volume sources assumed present on I-405. The missing components in the analysis presented include the actual assumed emission rate of each COC from each class of vehicle moving along I-405. The resulting analysis is little more than a screening assessment of impacts based on unverifiable data. The City must require a complete analysis of the impacts in an EIR.

Conclusion

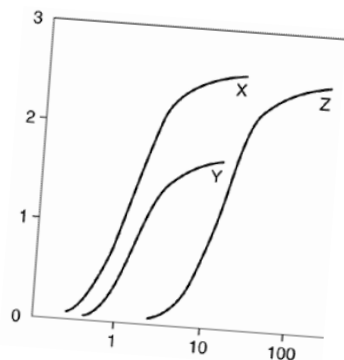
The facts identified and referenced in this comment letter lead me to reasonably conclude that the Project could result in significant unmitigated impacts if the DEIR is approved without significant revision. The City must re-evaluate the significant impacts identified in this letter by requiring the preparation of a revised DEIR.

Sincerely,

A handwritten signature in black ink, appearing to read "J. J. Con". The signature is written in a cursive, flowing style.

EXHIBIT A

CV



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James J. J. Clark, Ph.D.

Principal Toxicologist

Toxicology/Exposure Assessment Modeling

Risk Assessment/Analysis/Dispersion Modeling

Education:

Ph.D., Environmental Health Science, University of California, 1995

M.S., Environmental Health Science, University of California, 1993

B.S., Biophysical and Biochemical Sciences, University of Houston, 1987

Professional Experience:

Dr. Clark is a well-recognized toxicologist, air modeler, and health scientist. He has 30 years of experience in researching the effects of environmental contaminants on human health including environmental fate and transport modeling (SCREEN3, AEROMOD, ISCST3, Johnson-Ettinger Vapor Intrusion Modeling, RESRAD, GENII); exposure assessment modeling (partitioning of contaminants in the environment as well as PBPK modeling); conducting and managing human health risk assessments for regulatory compliance and risk-based clean-up levels; and toxicological and medical literature research.

Significant projects performed by Dr. Clark include the following:

LITIGATION SUPPORT

Case: Pamela Butler Vs. Mallinckrodt, Inc. & Cotter Corporation. Case No.: 4:2018cv01701 United States District Court Eastern District of Missouri Eastern Division

Case: Kenneth Edward Koterba Vs. Mallinckrodt, Inc. & Cotter Corporation. Case No.: 4:2018cv01702 United States District Court Eastern District of Missouri Eastern Division

Case: Anthony Hines Vs. Mallinckrodt, Inc. & Cotter Corporation. Case No.: 4:2018cv01703 United States District Court Eastern District of Missouri Eastern Division

Case: Emery David Walick, III Vs. Mallinckrodt, Inc. & Cotter Corporation. Case No.: 4:2018cv01704 United States District Court Eastern District of Missouri Eastern Division

Client: Humphrey, Farrington & McClain, P.C., Independence, Missouri

Dr. Clark performed a historical dose reconstruction for community members exposed to radioactive waste released into the environment from the St. Louis Air Port Site (SLAPS) and the Hazelwood Interim Storage Site (HISS). The releases resulted in impacts to soils, sediments, surface waters, and groundwater in the vicinity of the SLAPS and HISS sites. The analysis was performed in general accordance with the methods outlined by the Agency for Toxic Substances Control (ATSDR) for assessing radiation doses from historical source areas in North St. Louis County, Missouri.

Case Result: Trial Pending

Case: Don Strong, et al. vs. Republic Services, Inc., Bridgeton Landfill, LLC, vs. Cotter Corporation, N.S.L., Case No.: 17SL-CC01632-01 Circuit Court of St. Louis County, State of Missouri, Division 17

Client: Humphrey, Farrington & McClain, P.C., Independence, Missouri

Dr. Clark performed a historical dose reconstruction for community members from radiologically impacted material (RIM) releases from the adjacent West Lake Landfill. The analysis was performed in general accordance with the methods outlined by the Agency for Toxic Substances Control (ATSDR) for assessing radiation doses from historical source areas in North St. Louis County, Missouri.

Case Result: Settlement in favor of plaintiff.

Case: Arnold Goldstein, Hohn Covas, Gisela Janette La Bella, et al.. vs. Exxon Mobil Corporation, PBF Energy Inc., Torrance Refining Company LLC, et al., Case No.: 2:17-cv-02477DSF United States District Court for the Central District of California

Client: Sher Edlging, LLP, San Francisco, California and Matern Law Group , PC., El Segundo, California

Dr. Clark performed a historical dose reconstruction for community members from an active 700 acre petroleum refinery in Los Angeles. The analysis included a multi-year dispersion model was performed in general accordance with the methods outlined by the U.S. EPA and the SCAQMD for assessing the health impacts in Torrance, California. The results of the analysis are being used as the basis for injunctive relief for the communities surrounding the refinery.

Case Result: Trial Pending

**Case: Scott D. McClurg, et al. v. Mallinckrodt Inc. and Cotter Corporation.
Lead Case No.: 4:12CV00361 AGF United States District Court Eastern District
of Missouri Eastern Division**

Client: Environmental Law Group, Birmingham, AL.

Dr. Clark performed a historical dose reconstruction for community members and workers exposed to radioactive waste released into the environment from the St. Louis Air Port Site (SLAPS) and the Hazelwood Interim Storage Site (HISS). The releases resulted in impacts to soils, sediments, surface waters, and groundwater in the vicinity of the SLAPS and HISS sites. The analysis included the incorporation of air dispersion modeling across the community to determine ground-level air concentrations and deposition of thorium and uranium isotopes and their respective daughter products. The dose reconstruction considered all relevant pathways to determine total doses of radiation received across the community from 1946 through 2017.

Case Result: Settlement in favor of plaintiff.

**Case: Mary Ann Piccolo V. Headwaters Incorporated, et al. Seventh Judicial
Court In and For Carbon County, State of Utah. Case No. 130700053**

Client: Law Offices of Roy L. Mason. Annapolis, MD

Dr. Clark performed a dose assessment of an individual occupationally exposed to metals and silica from fly ash who later developed cancer. A review of the individual's medical and occupational history was performed to prepare opinions regarding his exposure and later development of cancer.

Case Result: Settlement in favor of plaintiff.

Case: Tracey Coleman V. Headwaters Incorporated, et al. Seventh Judicial Court In and For Carbon County, State of Utah. Case No. 140902847

Client: Law Offices of Roy L. Mason. Annapolis, MD

Dr. Clark performed a dose assessment of an individual occupationally exposed to metals and silica from fly ash who later developed cancer. A review of the individual's medical and occupational history was performed to prepare opinions regarding his exposure and later development of cancer.

Case Result: Settlement in favor of plaintiff.

Case: David Dominguez and Amanda Dominguez V. Cytec Industries, Inc et al. Superior Court of the State Of California for the County Of Los Angeles – Central Civil West. Civil Action. BC533123

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to hexavalent chromium who later developed cancer. A review of the individual's medical and occupational history was performed to prepare opinions regarding her exposure and later development of cancer.

Case Result: Settlement in favor of plaintiff.

SELECTED AIR MODELING RESEARCH/PROJECTS

Client(s) – Multiple

Indoor Air Evaluations, California: Performed multiple indoor air screening evaluations and risk characterizations consistent with California Environmental Protection Agency's (Cal/EPA) Department of Toxic Substances Control (DTSC) and Regional Water Quality Control Board (RWQCB) methodologies. Characterizations included the use of DTSC's modified Johnson & Ettinger Model and USEPA models, as well as the attenuation factor model currently advocated by Cal/EPA's Office of Environmental Health and Hazard Assessment (OEHHA).

Client – Confidential

Dr. Clark performed a comprehensive evaluation of criteria pollutants, air toxins, and particulate matter emissions from a carbon black production facility to determine the impacts on the surrounding communities. The results of the dispersion model were used to estimate acute and chronic exposure concentrations to multiple contaminants and were be incorporated into a comprehensive risk evaluation.

Client – Confidential

Dr. Clark performed a comprehensive evaluation of air toxins and particulate matter emissions from a railroad tie manufacturing facility to determine the impacts on the surrounding communities. The results of the dispersion model have been used to estimate acute and chronic exposure concentrations to multiple contaminants and have been incorporated into a comprehensive risk evaluation.

EMERGING/PERSISTENT CONTAMINANT RESEARCH/PROJECTS

Client: City of Santa Clarita, Santa Clarita, California

Dr. Clark managed the oversight of the characterization, remediation and development activities of a former 1,000 acre munitions manufacturing facility for the City of Santa Clarita. The site is impacted with a number of contaminants including perchlorate, unexploded ordinance, and volatile organic compounds (VOCs). The site is currently under a number of regulatory consent orders, including an Imminent and Substantial Endangerment Order. Dr. Clark assisted the impacted municipality with the development of remediation strategies, interaction with the responsible parties and stakeholders, as well as interfacing with the regulatory agency responsible for oversight of the site cleanup.

Client – Confidential, Los Angeles, California

Dr. Clark is performing a comprehensive review of the potential for pharmaceuticals and their by-products to impact groundwater and surface water supplies. This evaluation will include a review if available data on the history of pharmaceutical production in the United States; the chemical characteristics of various pharmaceuticals; environmental fate and transport; uptake by xenobiotics; the potential effects of pharmaceuticals on water treatment systems; and the potential threat to public health. The results of the evaluation may be used as a briefing tool for non-public health professionals.

PUBLIC HEALTH/TOXICOLOGY

Client: Brayton Purcell, Novato, California

Dr. Clark performed a toxicological assessment of residents exposed to methyl-tertiary butyl ether (MTBE) from leaking underground storage tanks (LUSTs) adjacent to the subject property. The symptomology of residents and guests of the subject property were evaluated against the known outcomes in published literature to exposure to MTBE. The study found that residents had been exposed to MTBE in their drinking water; that concentrations of MTBE detected at the site were above regulatory guidelines; and, that the symptoms and outcomes expressed by residents and guests were consistent with symptoms and outcomes documented in published literature.

Client: Covanta Energy, Westwood, California

Evaluated health risk from metals in biosolids applied as soil amendment on agricultural lands. The biosolids were created at a forest waste cogeneration facility using 96% whole tree wood chips and 4 percent green waste. Mass loading calculations were used to estimate Cr(VI) concentrations in agricultural soils based on a maximum loading rate of 40 tons of biomass per acre of agricultural soil. The results of the study were used by the Regulatory agency to determine that the application of biosolids did not constitute a health risk to workers applying the biosolids or to residences near the agricultural lands.

Client: Kaiser Venture Incorporated, Fontana, California

Prepared PBPK assessment of lead risk of receptors at a 1,100-acre former steel mill. This evaluation was used as the basis for granting closure of the site by lead regulatory agency.

RISK ASSESSMENTS/REMEDIAL INVESTIGATIONS

Kaiser Ventures Incorporated, Fontana, California

Prepared health risk assessment of semi-volatile organic chemicals and metals for a fifty-year old wastewater treatment facility used at a 1,100-acre former steel mill. This evaluation was used as the basis for granting closure of the site by lead regulatory agency.

ANR Freight - Los Angeles, California

Prepared a comprehensive Preliminary Endangerment Assessment (PEA) of petroleum hydrocarbon and metal contamination of a former freight depot. This evaluation was as the basis for reaching closure of the site with lead regulatory agency.

Kaiser Ventures Incorporated, Fontana, California

Prepared comprehensive health risk assessment of semi-volatile organic chemicals and metals for 23-acre parcel of a 1,100-acre former steel mill. The health risk assessment was used to determine clean up goals and as the basis for granting closure of the site by lead regulatory agency. Air dispersion modeling using ISCST3 was performed to determine downwind exposure point concentrations at sensitive receptors within a 1 kilometer radius of the site. The results of the health risk assessment were presented at a public meeting sponsored by the Department of Toxic Substances Control (DTSC) in the community potentially affected by the site.

Unocal Corporation - Los Angeles, California

Prepared comprehensive assessment of petroleum hydrocarbons and metals for a former petroleum service station located next to sensitive population center (elementary school). The assessment used a probabilistic approach to estimate risks to the community and was used as the basis for granting closure of the site by lead regulatory agency.

Client: Confidential, Los Angeles, California

Managed oversight of remedial investigation most contaminated heavy metal site in California. Lead concentrations in soil excess of 68,000,000 parts per billion (ppb) have been measured at the site. This State Superfund Site was a former hard chrome plating operation that operated for approximately 40-years.

Client: Confidential, San Francisco, California

Coordinator of regional monitoring program to determine background concentrations of metals in air. Acted as liaison with SCAQMD and CARB to perform co-location sampling and comparison of accepted regulatory method with ASTM methodology.

Client: Confidential, San Francisco, California

Analyzed historical air monitoring data for South Coast Air Basin in Southern California and potential health risks related to ambient concentrations of carcinogenic metals and volatile organic compounds. Identified and reviewed the available literature and calculated risks from toxins in South Coast Air Basin.

IT Corporation, North Carolina

Prepared comprehensive evaluation of potential exposure of workers to air-borne VOCs at hazardous waste storage facility under SUPERFUND cleanup decree. Assessment used in developing health based clean-up levels.

Professional Associations

American Public Health Association (APHA)

Association for Environmental Health and Sciences (AEHS)

American Chemical Society (ACS)

International Society of Environmental Forensics (ISEF)

Society of Environmental Toxicology and Chemistry (SETAC)

Publications and Presentations:**Books and Book Chapters**

Sullivan, P., **J.J. J. Clark**, F.J. Agardy, and P.E. Rosenfeld. (2007). *Synthetic Toxins In The Food, Water and Air of American Cities*. Elsevier, Inc. Burlington, MA.

Sullivan, P. and **J.J. J. Clark**. 2006. *Choosing Safer Foods, A Guide To Minimizing Synthetic Chemicals In Your Diet*. Elsevier, Inc. Burlington, MA.

Sullivan, P., Agardy, F.J., and **J.J.J. Clark**. 2005. *The Environmental Science of Drinking Water*. Elsevier, Inc. Burlington, MA.

Sullivan, P.J., Agardy, F.J., **Clark, J.J.J.** 2002. *America's Threatened Drinking Water: Hazards and Solutions*. Trafford Publishing, Victoria B.C.

Clark, J.J.J. 2001. "TBA: Chemical Properties, Production & Use, Fate and Transport, Toxicology, Detection in Groundwater, and Regulatory Standards" in *Oxygenates in the Environment*. Art Diaz, Ed.. Oxford University Press: New York.

Clark, J.J.J. 2000. "Toxicology of Perchlorate" in *Perchlorate in the Environment*. Edward Urbansky, Ed. Kluwer/Plenum: New York.

Clark, J.J.J. 1995. Probabilistic Forecasting of Volatile Organic Compound Concentrations At The Soil Surface From Contaminated Groundwater. UMI.

Baker, J.; **Clark, J.J.J.**; Stanford, J.T. 1994. Ex Situ Remediation of Diesel Contaminated Railroad Sand by Soil Washing. Principles and Practices for Diesel Contaminated Soils, Volume III. P.T. Kostecki, E.J. Calabrese, and C.P.L. Barkan, eds. Amherst Scientific Publishers, Amherst, MA. pp 89-96.

Journal and Proceeding Articles

- Tam L. K., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008) A Statistical Analysis Of Attic Dust And Blood Lipid Concentrations Of Tetrachloro-p-Dibenzodioxin (TCDD) Toxicity Equivalency Quotients (TEQ) In Two Populations Near Wood Treatment Facilities. *Organohalogen Compounds*, Volume 70 (2008) page 002254.
- Tam L. K., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008) Methods For Collect Samples For Assessing Dioxins And Other Environmental Contaminants In Attic Dust: A Review. *Organohalogen Compounds*, Volume 70 (2008) page 000527
- Hensley A.R., Scott, A., Rosenfeld P.E., **Clark, J.J.J.** (2007). "Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility." *Environmental Research*. 105:194-199.
- Rosenfeld, P.E., **Clark, J. J.**, Hensley, A.R., and Suffet, I.H. 2007. "The Use Of An Odor Wheel Classification For The Evaluation of Human Health Risk Criteria For Compost Facilities" *Water Science & Technology*. 55(5): 345-357.
- Hensley A.R., Scott, A., Rosenfeld P.E., **Clark, J.J.J.** 2006. "Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility." The 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN2006, August 21 – 25, 2006. Radisson SAS Scandinavia Hotel in Oslo Norway.
- Rosenfeld, P.E., **Clark, J. J.** and Suffet, I.H. 2005. "The Value Of An Odor Quality Classification Scheme For Compost Facility Evaluations" The U.S. Composting Council's 13th Annual Conference January 23 - 26, 2005, Crowne Plaza Riverwalk, San Antonio, TX.
- Rosenfeld, P.E., **Clark, J. J.** and Suffet, I.H. 2004. "The Value Of An Odor Quality Classification Scheme For Urban Odor" WEFTEC 2004. 77th Annual Technical Exhibition & Conference October 2 - 6, 2004, Ernest N. Morial Convention Center, New Orleans, Louisiana.
- Clark, J.J.J.** 2003. "Manufacturing, Use, Regulation, and Occurrence of a Known Endocrine Disrupting Chemical (EDC), 2,4-Dichlorophenoxyacetic Acid (2,4-D) in California Drinking Water Supplies." National Groundwater Association Southwest Focus Conference: Water Supply and Emerging Contaminants. Minneapolis, MN. March 20, 2003.

- Rosenfeld, P. and **J.J.J. Clark**. 2003. "Understanding Historical Use, Chemical Properties, Toxicity, and Regulatory Guidance" National Groundwater Association Southwest Focus Conference: Water Supply and Emerging Contaminants. Phoenix, AZ. February 21, 2003.
- Clark, J.J.J.**, Brown A. 1999. Perchlorate Contamination: Fate in the Environment and Treatment Options. In Situ and On-Site Bioremediation, Fifth International Symposium. San Diego, CA, April, 1999.
- Clark, J.J.J.** 1998. Health Effects of Perchlorate and the New Reference Dose (RfD). Proceedings From the Groundwater Resource Association Seventh Annual Meeting, Walnut Creek, CA, October 23, 1998.
- Browne, T., **Clark, J.J.J.** 1998. Treatment Options For Perchlorate In Drinking Water. Proceedings From the Groundwater Resource Association Seventh Annual Meeting, Walnut Creek, CA, October 23, 1998.
- Clark, J.J.J.**, Brown, A., Rodriguez, R. 1998. The Public Health Implications of MtBE and Perchlorate in Water: Risk Management Decisions for Water Purveyors. Proceedings of the National Ground Water Association, Anaheim, CA, June 3-4, 1998.
- Clark J.J.J.**, Brown, A., Ulrey, A. 1997. Impacts of Perchlorate On Drinking Water In The Western United States. U.S. EPA Symposium on Biological and Chemical Reduction of Chlorate and Perchlorate, Cincinnati, OH, December 5, 1997.
- Clark, J.J.J.**; Corbett, G.E.; Kerger, B.D.; Finley, B.L.; Paustenbach, D.J. 1996. Dermal Uptake of Hexavalent Chromium In Human Volunteers: Measures of Systemic Uptake From Immersion in Water At 22 PPM. Toxicologist. 30(1):14.
- Dodge, D.G.; **Clark, J.J.J.**; Kerger, B.D.; Richter, R.O.; Finley, B.L.; Paustenbach, D.J. 1996. Assessment of Airborne Hexavalent Chromium In The Home Following Use of Contaminated Tapwater. Toxicologist. 30(1):117-118.
- Paulo, M.T.; Gong, H., Jr.; **Clark, J.J.J.** (1992). Effects of Pretreatment with Ipratropium Bromide in COPD Patients Exposed to Ozone. American Review of Respiratory Disease. 145(4):A96.
- Harber, P.H.; Gong, H., Jr.; Lachenbruch, A.; **Clark, J.**; Hsu, P. (1992). Respiratory Pattern Effect of Acute Sulfur Dioxide Exposure in Asthmatics. American Review of Respiratory Disease. 145(4):A88.
- McManus, M.S.; Gong, H., Jr.; Clements, P.; **Clark, J.J.J.** (1991). Respiratory Response of Patients With Interstitial Lung Disease To Inhaled Ozone. American Review of Respiratory Disease. 143(4):A91.
- Gong, H., Jr.; Simmons, M.S.; McManus, M.S.; Tashkin, D.P.; Clark, V.A.; Detels, R.; **Clark, J.J.** (1990). Relationship Between Responses to Chronic Oxidant and Acute

Ozone Exposures in Residents of Los Angeles County. American Review of Respiratory Disease. 141(4):A70.

Tierney, D.F. and **J.J.J. Clark.** (1990). Lung Polyamine Content Can Be Increased By Spermidine Infusions Into Hyperoxic Rats. American Review of Respiratory Disease. 139(4):A41.

EXHIBIT B

AERMOD Model Of I-405 Emissions

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1  ** BREEZE AERMOD
2  ** Trinity Consultants
3  ** VERSION 11.0
4
5  CO STARTING
6  CO TITLEONE Valor Elementary Exposure To DPM From I-405
7  CO MODELOPT CONC FLAT NODRYDPLT NOWETDPLT NOURBTRAN
8  CO RUNORNOT RUN
9  CO AVERTIME PERIOD
10 CO POLLUTID DPM
11 CO FINISHED
12
13 SO STARTING
14 SO ELEVUNIT METERS
15 SO LOCATION 405N0726 VOLUME 364442.881 3790945.012 0
16 ** SRCDESCR 405N0726
17 SO LOCATION 405N0727 VOLUME 364441.508 3790895.831 0
18 ** SRCDESCR 405N0727
19 SO LOCATION 405N0728 VOLUME 364440.134 3790846.651 0
20 ** SRCDESCR 405N0728
21 SO LOCATION 405N0729 VOLUME 364438.76 3790797.47 0
22 ** SRCDESCR 405N0729
23 SO LOCATION 405N0730 VOLUME 364437.386 3790748.289 0
24 ** SRCDESCR 405N0730
25 SO LOCATION 405N0731 VOLUME 364429.142 3790699.803 0
26 ** SRCDESCR 405N0731
27 SO LOCATION 405N0732 VOLUME 364420.64 3790651.343 0
28 ** SRCDESCR 405N0732
29 SO LOCATION 405N0733 VOLUME 364412.029 3790602.903 0
30 ** SRCDESCR 405N0733
31 SO LOCATION 405N0734 VOLUME 364402.962 3790554.546 0
32 ** SRCDESCR 405N0734
33 SO LOCATION 405N0735 VOLUME 364393.895 3790506.188 0
34 ** SRCDESCR 405N0735
35 SO LOCATION 405N0736 VOLUME 364384.828 3790457.831 0
36 ** SRCDESCR 405N0736
37 SO LOCATION 405N0737 VOLUME 364377.149 3790409.282 0
38 ** SRCDESCR 405N0737
39 SO LOCATION 405N0738 VOLUME 364372.751 3790360.279 0
40 ** SRCDESCR 405N0738
41 SO LOCATION 405N0739 VOLUME 364369.824 3790311.196 0
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43 SO LOCATION 405N0740 VOLUME 364368.905 3790262.005 0
44 ** SRCDESCR 405N0740
45 SO LOCATION 405N0741 VOLUME 364367.986 3790212.813 0
46 ** SRCDESCR 405N0741
47 SO LOCATION 405N0742 VOLUME 364367.067 3790163.622 0
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49 SO LOCATION 405N0743 VOLUME 364366.149 3790114.43 0
50 ** SRCDESCR 405N0743
51 SO LOCATION 405N0744 VOLUME 364365.23 3790065.239 0
52 ** SRCDESCR 405N0744
53 SO LOCATION 405N0745 VOLUME 364364.311 3790016.048 0
54 ** SRCDESCR 405N0745
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56 ** SRCDESCR 405N0746
57 SO LOCATION 405N0747 VOLUME 364362.078 3789917.675 0
58 ** SRCDESCR 405N0747
59 SO LOCATION 405N0748 VOLUME 364360.479 3789868.501 0
60 ** SRCDESCR 405N0748
61 SO LOCATION 405N0749 VOLUME 364358.88 3789819.327 0
62 ** SRCDESCR 405N0749
63 SO LOCATION 405N0750 VOLUME 364357.33 3789770.152 0
64 ** SRCDESCR 405N0750
65 SO LOCATION 405N0751 VOLUME 364356.159 3789720.965 0
66 ** SRCDESCR 405N0751

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67	SO	LOCATION	405N0752	VOLUME	364354.989	3789671.779	0
68	**	SRCDESCR	405N0752				
69	SO	LOCATION	405N0753	VOLUME	364353.818	3789622.593	0
70	**	SRCDESCR	405N0753				
71	SO	LOCATION	405N0754	VOLUME	364352.648	3789573.407	0
72	**	SRCDESCR	405N0754				
73	SO	LOCATION	405N0755	VOLUME	364351.477	3789524.221	0
74	**	SRCDESCR	405N0755				
75	SO	LOCATION	405N0756	VOLUME	364350.306	3789475.035	0
76	**	SRCDESCR	405N0756				
77	SO	LOCATION	405N0757	VOLUME	364349.136	3789425.849	0
78	**	SRCDESCR	405N0757				
79	SO	LOCATION	405N0758	VOLUME	364348.553	3789376.653	0
80	**	SRCDESCR	405N0758				
81	SO	LOCATION	405N0759	VOLUME	364348.006	3789327.456	0
82	**	SRCDESCR	405N0759				
83	SO	LOCATION	405N0760	VOLUME	364347.46	3789278.259	0
84	**	SRCDESCR	405N0760				
85	SO	LOCATION	405N0761	VOLUME	364346.913	3789229.062	0
86	**	SRCDESCR	405N0761				
87	SO	LOCATION	405N0762	VOLUME	364346.367	3789179.865	0
88	**	SRCDESCR	405N0762				
89	SO	LOCATION	405N0763	VOLUME	364345.82	3789130.668	0
90	**	SRCDESCR	405N0763				
91	SO	LOCATION	405N0764	VOLUME	364345.031	3789081.474	0
92	**	SRCDESCR	405N0764				
93	SO	LOCATION	405N0765	VOLUME	364344.238	3789032.281	0
94	**	SRCDESCR	405N0765				
95	SO	LOCATION	405N0766	VOLUME	364343.444	3788983.087	0
96	**	SRCDESCR	405N0766				
97	SO	LOCATION	405N0767	VOLUME	364342.65	3788933.893	0
98	**	SRCDESCR	405N0767				
99	SO	LOCATION	405S0676	VOLUME	364420.267	3790946.748	0
100	**	SRCDESCR	405S0676				
101	SO	LOCATION	405S0677	VOLUME	364419.402	3790897.555	0
102	**	SRCDESCR	405S0677				
103	SO	LOCATION	405S0678	VOLUME	364418.536	3790848.363	0
104	**	SRCDESCR	405S0678				
105	SO	LOCATION	405S0679	VOLUME	364417.67	3790799.17	0
106	**	SRCDESCR	405S0679				
107	SO	LOCATION	405S0680	VOLUME	364416.805	3790749.978	0
108	**	SRCDESCR	405S0680				
109	SO	LOCATION	405S0681	VOLUME	364409.918	3790701.267	0
110	**	SRCDESCR	405S0681				
111	SO	LOCATION	405S0682	VOLUME	364402.96	3790652.561	0
112	**	SRCDESCR	405S0682				
113	SO	LOCATION	405S0683	VOLUME	364393.734	3790604.242	0
114	**	SRCDESCR	405S0683				
115	SO	LOCATION	405S0684	VOLUME	364384.163	3790555.982	0
116	**	SRCDESCR	405S0684				
117	SO	LOCATION	405S0685	VOLUME	364374.592	3790507.722	0
118	**	SRCDESCR	405S0685				
119	SO	LOCATION	405S0686	VOLUME	364365.021	3790459.462	0
120	**	SRCDESCR	405S0686				
121	SO	LOCATION	405S0687	VOLUME	364358.194	3790410.871	0
122	**	SRCDESCR	405S0687				
123	SO	LOCATION	405S0688	VOLUME	364355.996	3790361.72	0
124	**	SRCDESCR	405S0688				
125	SO	LOCATION	405S0689	VOLUME	364353.798	3790312.569	0
126	**	SRCDESCR	405S0689				
127	SO	LOCATION	405S0690	VOLUME	364351.601	3790263.418	0
128	**	SRCDESCR	405S0690				
129	SO	LOCATION	405S0691	VOLUME	364349.529	3790214.263	0
130	**	SRCDESCR	405S0691				
131	SO	LOCATION	405S0692	VOLUME	364348.441	3790165.075	0
132	**	SRCDESCR	405S0692				

133	SO	LOCATION	405S0693	VOLUME	364347.353	3790115.887	0
134	**	SRCDESCR	405S0693				
135	SO	LOCATION	405S0694	VOLUME	364346.265	3790066.699	0
136	**	SRCDESCR	405S0694				
137	SO	LOCATION	405S0695	VOLUME	364345.177	3790017.511	0
138	**	SRCDESCR	405S0695				
139	SO	LOCATION	405S0696	VOLUME	364344.089	3789968.323	0
140	**	SRCDESCR	405S0696				
141	SO	LOCATION	405S0697	VOLUME	364343.001	3789919.135	0
142	**	SRCDESCR	405S0697				
143	SO	LOCATION	405S0698	VOLUME	364341.913	3789869.947	0
144	**	SRCDESCR	405S0698				
145	SO	LOCATION	405S0699	VOLUME	364340.825	3789820.759	0
146	**	SRCDESCR	405S0699				
147	SO	LOCATION	405S0700	VOLUME	364339.737	3789771.571	0
148	**	SRCDESCR	405S0700				
149	SO	LOCATION	405S0701	VOLUME	364338.649	3789722.383	0
150	**	SRCDESCR	405S0701				
151	SO	LOCATION	405S0702	VOLUME	364337.561	3789673.195	0
152	**	SRCDESCR	405S0702				
153	SO	LOCATION	405S0703	VOLUME	364336.473	3789624.007	0
154	**	SRCDESCR	405S0703				
155	SO	LOCATION	405S0704	VOLUME	364335.385	3789574.819	0
156	**	SRCDESCR	405S0704				
157	SO	LOCATION	405S0705	VOLUME	364334.297	3789525.631	0
158	**	SRCDESCR	405S0705				
159	SO	LOCATION	405S0706	VOLUME	364333.213	3789476.443	0
160	**	SRCDESCR	405S0706				
161	SO	LOCATION	405S0707	VOLUME	364332.142	3789427.255	0
162	**	SRCDESCR	405S0707				
163	SO	LOCATION	405S0708	VOLUME	364331.071	3789378.066	0
164	**	SRCDESCR	405S0708				
165	SO	LOCATION	405S0709	VOLUME	364329.999	3789328.878	0
166	**	SRCDESCR	405S0709				
167	SO	LOCATION	405S0710	VOLUME	364328.928	3789279.69	0
168	**	SRCDESCR	405S0710				
169	SO	LOCATION	405S0711	VOLUME	364327.857	3789230.501	0
170	**	SRCDESCR	405S0711				
171	SO	LOCATION	405S0712	VOLUME	364326.786	3789181.313	0
172	**	SRCDESCR	405S0712				
173	SO	LOCATION	405S0713	VOLUME	364325.714	3789132.125	0
174	**	SRCDESCR	405S0713				
175	SO	LOCATION	405S0714	VOLUME	364324.643	3789082.936	0
176	**	SRCDESCR	405S0714				
177	SO	LOCATION	405S0715	VOLUME	364323.572	3789033.748	0
178	**	SRCDESCR	405S0715				
179	SO	LOCATION	405S0716	VOLUME	364322.604	3788984.558	0
180	**	SRCDESCR	405S0716				
181	SO	LOCATION	405S0717	VOLUME	364321.676	3788935.366	0
182	**	SRCDESCR	405S0717				
183	SO	SRCPARAM	405N0726	0.02381	1.43	22.83	1.33
184	SO	SRCPARAM	405N0727	0.02381	1.43	22.83	1.33
185	SO	SRCPARAM	405N0728	0.02381	1.43	22.83	1.33
186	SO	SRCPARAM	405N0729	0.02381	1.43	22.83	1.33
187	SO	SRCPARAM	405N0730	0.02381	1.43	22.83	1.33
188	SO	SRCPARAM	405N0731	0.02381	1.43	22.83	1.33
189	SO	SRCPARAM	405N0732	0.02381	1.43	22.83	1.33
190	SO	SRCPARAM	405N0733	0.02381	1.43	22.83	1.33
191	SO	SRCPARAM	405N0734	0.02381	1.43	22.83	1.33
192	SO	SRCPARAM	405N0735	0.02381	1.43	22.83	1.33
193	SO	SRCPARAM	405N0736	0.02381	1.43	22.83	1.33
194	SO	SRCPARAM	405N0737	0.02381	1.43	22.83	1.33
195	SO	SRCPARAM	405N0738	0.02381	1.43	22.83	1.33
196	SO	SRCPARAM	405N0739	0.02381	1.43	22.83	1.33
197	SO	SRCPARAM	405N0740	0.02381	1.43	22.83	1.33
198	SO	SRCPARAM	405N0741	0.02381	1.43	22.83	1.33

199	SO	SRCPARAM	405N0742	0.02381	1.43	22.83	1.33
200	SO	SRCPARAM	405N0743	0.02381	1.43	22.83	1.33
201	SO	SRCPARAM	405N0744	0.02381	1.43	22.83	1.33
202	SO	SRCPARAM	405N0745	0.02381	1.43	22.83	1.33
203	SO	SRCPARAM	405N0746	0.02381	1.43	22.83	1.33
204	SO	SRCPARAM	405N0747	0.02381	1.43	22.83	1.33
205	SO	SRCPARAM	405N0748	0.02381	1.43	22.83	1.33
206	SO	SRCPARAM	405N0749	0.02381	1.43	22.83	1.33
207	SO	SRCPARAM	405N0750	0.02381	1.43	22.83	1.33
208	SO	SRCPARAM	405N0751	0.02381	1.43	22.83	1.33
209	SO	SRCPARAM	405N0752	0.02381	1.43	22.83	1.33
210	SO	SRCPARAM	405N0753	0.02381	1.43	22.83	1.33
211	SO	SRCPARAM	405N0754	0.02381	1.43	22.83	1.33
212	SO	SRCPARAM	405N0755	0.02381	1.43	22.83	1.33
213	SO	SRCPARAM	405N0756	0.02381	1.43	22.83	1.33
214	SO	SRCPARAM	405N0757	0.02381	1.43	22.83	1.33
215	SO	SRCPARAM	405N0758	0.02381	1.43	22.83	1.33
216	SO	SRCPARAM	405N0759	0.02381	1.43	22.83	1.33
217	SO	SRCPARAM	405N0760	0.02381	1.43	22.83	1.33
218	SO	SRCPARAM	405N0761	0.02381	1.43	22.83	1.33
219	SO	SRCPARAM	405N0762	0.02381	1.43	22.83	1.33
220	SO	SRCPARAM	405N0763	0.02381	1.43	22.83	1.33
221	SO	SRCPARAM	405N0764	0.02381	1.43	22.83	1.33
222	SO	SRCPARAM	405N0765	0.02381	1.43	22.83	1.33
223	SO	SRCPARAM	405N0766	0.02381	1.43	22.83	1.33
224	SO	SRCPARAM	405N0767	0.02381	1.43	22.83	1.33
225	SO	SRCPARAM	405S0676	0.02381	1.43	22.83	1.33
226	SO	SRCPARAM	405S0677	0.02381	1.43	22.83	1.33
227	SO	SRCPARAM	405S0678	0.02381	1.43	22.83	1.33
228	SO	SRCPARAM	405S0679	0.02381	1.43	22.83	1.33
229	SO	SRCPARAM	405S0680	0.02381	1.43	22.83	1.33
230	SO	SRCPARAM	405S0681	0.02381	1.43	22.83	1.33
231	SO	SRCPARAM	405S0682	0.02381	1.43	22.83	1.33
232	SO	SRCPARAM	405S0683	0.02381	1.43	22.83	1.33
233	SO	SRCPARAM	405S0684	0.02381	1.43	22.83	1.33
234	SO	SRCPARAM	405S0685	0.02381	1.43	22.83	1.33
235	SO	SRCPARAM	405S0686	0.02381	1.43	22.83	1.33
236	SO	SRCPARAM	405S0687	0.02381	1.43	22.83	1.33
237	SO	SRCPARAM	405S0688	0.02381	1.43	22.83	1.33
238	SO	SRCPARAM	405S0689	0.02381	1.43	22.83	1.33
239	SO	SRCPARAM	405S0690	0.02381	1.43	22.83	1.33
240	SO	SRCPARAM	405S0691	0.02381	1.43	22.83	1.33
241	SO	SRCPARAM	405S0692	0.02381	1.43	22.83	1.33
242	SO	SRCPARAM	405S0693	0.02381	1.43	22.83	1.33
243	SO	SRCPARAM	405S0694	0.02381	1.43	22.83	1.33
244	SO	SRCPARAM	405S0695	0.02381	1.43	22.83	1.33
245	SO	SRCPARAM	405S0696	0.02381	1.43	22.83	1.33
246	SO	SRCPARAM	405S0697	0.02381	1.43	22.83	1.33
247	SO	SRCPARAM	405S0698	0.02381	1.43	22.83	1.33
248	SO	SRCPARAM	405S0699	0.02381	1.43	22.83	1.33
249	SO	SRCPARAM	405S0700	0.02381	1.43	22.83	1.33
250	SO	SRCPARAM	405S0701	0.02381	1.43	22.83	1.33
251	SO	SRCPARAM	405S0702	0.02381	1.43	22.83	1.33
252	SO	SRCPARAM	405S0703	0.02381	1.43	22.83	1.33
253	SO	SRCPARAM	405S0704	0.02381	1.43	22.83	1.33
254	SO	SRCPARAM	405S0705	0.02381	1.43	22.83	1.33
255	SO	SRCPARAM	405S0706	0.02381	1.43	22.83	1.33
256	SO	SRCPARAM	405S0707	0.02381	1.43	22.83	1.33
257	SO	SRCPARAM	405S0708	0.02381	1.43	22.83	1.33
258	SO	SRCPARAM	405S0709	0.02381	1.43	22.83	1.33
259	SO	SRCPARAM	405S0710	0.02381	1.43	22.83	1.33
260	SO	SRCPARAM	405S0711	0.02381	1.43	22.83	1.33
261	SO	SRCPARAM	405S0712	0.02381	1.43	22.83	1.33
262	SO	SRCPARAM	405S0713	0.02381	1.43	22.83	1.33
263	SO	SRCPARAM	405S0714	0.02381	1.43	22.83	1.33
264	SO	SRCPARAM	405S0715	0.02381	1.43	22.83	1.33

265	SO	SRCPARAM	405S0716	0.02381	1.43	22.83	1.33									
266	SO	SRCPARAM	405S0717	0.02381	1.43	22.83	1.33									
267	SO	EMISFACT	405N0726	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
					7.2	7.2	7.2	7.2								
268	SO	EMISFACT	405N0726	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
269	SO	EMISFACT	405N0726	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
270	SO	EMISFACT	405N0726	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
271	SO	EMISFACT	405N0726	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
272	SO	EMISFACT	405N0727	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
					7.2	7.2	7.2	7.2								
273	SO	EMISFACT	405N0727	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
274	SO	EMISFACT	405N0727	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
275	SO	EMISFACT	405N0727	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
276	SO	EMISFACT	405N0727	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
277	SO	EMISFACT	405N0728	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
					7.2	7.2	7.2	7.2								
278	SO	EMISFACT	405N0728	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
279	SO	EMISFACT	405N0728	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
280	SO	EMISFACT	405N0728	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
281	SO	EMISFACT	405N0728	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
282	SO	EMISFACT	405N0729	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
					7.2	7.2	7.2	7.2								
283	SO	EMISFACT	405N0729	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
284	SO	EMISFACT	405N0729	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
					0.0	0.0	0.0	0.0								
285	SO	EMISFACT	405N													

303	SO	EMISFACT	405N0733	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
304	SO	EMISFACT	405N0733	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
305	SO	EMISFACT	405N0733	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
306	SO	EMISFACT	405N0733	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307	SO	EMISFACT	405N0734	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
308	SO	EMISFACT	405N0734	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
309	SO	EMISFACT	405N0734	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
310	SO	EMISFACT	405N0734	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
311	SO	EMISFACT	405N0734	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312	SO	EMISFACT	405N0735	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
313	SO	EMISFACT	405N0735	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
314	SO	EMISFACT	405N0735	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
315	SO	EMISFACT	405N0735	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
316	SO	EMISFACT	405N0735	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317	SO	EMISFACT	405N0736	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
318	SO	EMISFACT	405N0736	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
319	SO	EMISFACT	405N0736	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320	SO	EMISFACT	405N0736	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
321	SO	EMISFACT	405N0736	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322	SO	EMISFACT	405N0737	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
323	SO	EMISFACT	405N0737	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
324	SO	EMISFACT	405N0737	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
325	SO	EMISFACT	405N0737	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
326	SO	EMISFACT	405N0737	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
327	SO	EMISFACT	405N0738	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
328	SO	EMISFACT	405N0738	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
329	SO	EMISFACT	405N0738	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
330	SO	EMISFACT	405N0738	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
331	SO	EMISFACT	405N0738	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
332	SO	EMISFACT	405N0739	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
333	SO	EMISFACT	405N0739	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
334	SO	EMISFACT	405N0739	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
335	SO	EMISFACT	405N0739	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
336	SO	EMISFACT	405N0739	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
337	SO	EMISFACT	405N0740	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
338	SO	EMISFACT	405N0740	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

339	SO EMISFACT	405N0740	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
340	SO EMISFACT	405N0740	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
341	SO EMISFACT	405N0740	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
342	SO EMISFACT	405N0741	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
343	SO EMISFACT	405N0741	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
344	SO EMISFACT	405N0741	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
345	SO EMISFACT	405N0741	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
346	SO EMISFACT	405N0741	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
347	SO EMISFACT	405N0742	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
348	SO EMISFACT	405N0742	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
349	SO EMISFACT	405N0742	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
350	SO EMISFACT	405N0742	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
351	SO EMISFACT	405N0742	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
352	SO EMISFACT	405N0743	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
353	SO EMISFACT	405N0743	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
354	SO EMISFACT	405N0743	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
355	SO EMISFACT	405N0743	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
356	SO EMISFACT	405N0743	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
357	SO EMISFACT	405N0744	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
358	SO EMISFACT	405N0744	HRDOW	7.2	7.2	0.										

	0.0	0.0	0.0	0.0												
376	SO	EMISFACT	405N0747	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
377	SO	EMISFACT	405N0748	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
378	SO	EMISFACT	405N0748	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
379	SO	EMISFACT	405N0748	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
380	SO	EMISFACT	405N0748	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
381	SO	EMISFACT	405N0748	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
382	SO	EMISFACT	405N0749	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
383	SO	EMISFACT	405N0749	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
384	SO	EMISFACT	405N0749	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
385	SO	EMISFACT	405N0749	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
386	SO	EMISFACT	405N0749	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387	SO	EMISFACT	405N0750	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
388	SO	EMISFACT	405N0750	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
389	SO	EMISFACT	405N0750	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
390	SO	EMISFACT	405N0750	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
391	SO	EMISFACT	405N0750	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392	SO	EMISFACT	405N0751	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
393	SO	EMISFACT	405N0751	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
394	SO	EMISFACT	405N0751	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
395	SO	EMISFACT	405N0751	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
396	SO	EMISFACT	405N0751	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
397	SO	EMISFACT	405N0752	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
398	SO	EMISFACT	405N0752	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
399	SO	EMISFACT	405N0752	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
400	SO	EMISFACT	405N0752	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
401	SO	EMISFACT	405N0752	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402	SO	EMISFACT	405N0753	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
403	SO	EMISFACT	405N0753	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
404	SO	EMISFACT	405N0753	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
405	SO	EMISFACT	405N0753	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
406	SO	EMISFACT	405N0753	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
407	SO	EMISFACT	405N0754	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
408	SO	EMISFACT	405N0754	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
409	SO	EMISFACT	405N0754	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
410	SO	EMISFACT	405N0754	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
411	SO	EMISFACT	405N0754	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
412	SO	EMISFACT	405N0755	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	

[illegible]

449	SO EMISFACT	405N0762	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
450	SO EMISFACT	405N0762	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
451	SO EMISFACT	405N0762	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452	SO EMISFACT	405N0763	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
453	SO EMISFACT	405N0763	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
454	SO EMISFACT	405N0763	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
455	SO EMISFACT	405N0763	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
456	SO EMISFACT	405N0763	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
457	SO EMISFACT	405N0764	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
458	SO EMISFACT	405N0764	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
459	SO EMISFACT	405N0764	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
460	SO EMISFACT	405N0764	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
461	SO EMISFACT	405N0764	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
462	SO EMISFACT	405N0765	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
463	SO EMISFACT	405N0765	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
464	SO EMISFACT	405N0765	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
465	SO EMISFACT	405N0765	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
466	SO EMISFACT	405N0765	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467	SO EMISFACT	405N0766	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
468	SO EMISFACT	405N0766	HRDOW	7.2	7.2	0.										

	0.0	0.0	0.0	0.0												
486	SO	EMISFACT	405S0677	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
487	SO	EMISFACT	405S0678	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
488	SO	EMISFACT	405S0678	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
489	SO	EMISFACT	405S0678	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
490	SO	EMISFACT	405S0678	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
491	SO	EMISFACT	405S0678	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
492	SO	EMISFACT	405S0679	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
493	SO	EMISFACT	405S0679	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
494	SO	EMISFACT	405S0679	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
495	SO	EMISFACT	405S0679	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
496	SO	EMISFACT	405S0679	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
497	SO	EMISFACT	405S0680	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
498	SO	EMISFACT	405S0680	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
499	SO	EMISFACT	405S0680	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
500	SO	EMISFACT	405S0680	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
501	SO	EMISFACT	405S0680	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
502	SO	EMISFACT	405S0681	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
503	SO	EMISFACT	405S0681	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
504	SO	EMISFACT	405S0681	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
505	SO	EMISFACT	405S0681	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
506	SO	EMISFACT	405S0681	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507	SO	EMISFACT	405S0682	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
508	SO	EMISFACT	405S0682	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
509	SO	EMISFACT	405S0682	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
510	SO	EMISFACT	405S0682	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
511	SO	EMISFACT	405S0682	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
512	SO	EMISFACT	405S0683	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
513	SO	EMISFACT	405S0683	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
514	SO	EMISFACT	405S0683	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
515	SO	EMISFACT	405S0683	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
516	SO	EMISFACT	405S0683	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517	SO	EMISFACT	405S0684	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
518	SO	EMISFACT	405S0684	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
519	SO	EMISFACT	405S0684	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
520	SO	EMISFACT	405S0684	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
521	SO	EMISFACT	405S0684	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
522	SO	EMISFACT	405S0685	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	

[illegible]

559	SO EMISFACT	405S0692	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
560	SO EMISFACT	405S0692	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
561	SO EMISFACT	405S0692	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
562	SO EMISFACT	405S0693	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
563	SO EMISFACT	405S0693	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
564	SO EMISFACT	405S0693	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
565	SO EMISFACT	405S0693	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
566	SO EMISFACT	405S0693	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
567	SO EMISFACT	405S0694	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
568	SO EMISFACT	405S0694	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
569	SO EMISFACT	405S0694	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
570	SO EMISFACT	405S0694	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
571	SO EMISFACT	405S0694	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572	SO EMISFACT	405S0695	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
573	SO EMISFACT	405S0695	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
574	SO EMISFACT	405S0695	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
575	SO EMISFACT	405S0695	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
576	SO EMISFACT	405S0695	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
577	SO EMISFACT	405S0696	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
578	SO EMISFACT	405S0696	HRDOW	7.2	7.2	0.										

	0.0	0.0	0.0	0.0												
596	SO	EMISFACT	405S0699	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
597	SO	EMISFACT	405S0700	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
598	SO	EMISFACT	405S0700	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
599	SO	EMISFACT	405S0700	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
600	SO	EMISFACT	405S0700	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
601	SO	EMISFACT	405S0700	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
602	SO	EMISFACT	405S0701	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
603	SO	EMISFACT	405S0701	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
604	SO	EMISFACT	405S0701	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
605	SO	EMISFACT	405S0701	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
606	SO	EMISFACT	405S0701	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
607	SO	EMISFACT	405S0702	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
608	SO	EMISFACT	405S0702	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
609	SO	EMISFACT	405S0702	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
610	SO	EMISFACT	405S0702	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
611	SO	EMISFACT	405S0702	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
612	SO	EMISFACT	405S0703	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
613	SO	EMISFACT	405S0703	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
614	SO	EMISFACT	405S0703	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
615	SO	EMISFACT	405													

[illegible]

669	SO EMISFACT	405S0714	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
670	SO EMISFACT	405S0714	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
671	SO EMISFACT	405S0714	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672	SO EMISFACT	405S0715	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
673	SO EMISFACT	405S0715	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
674	SO EMISFACT	405S0715	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
675	SO EMISFACT	405S0715	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
676	SO EMISFACT	405S0715	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677	SO EMISFACT	405S0716	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
678	SO EMISFACT	405S0716	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
679	SO EMISFACT	405S0716	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
680	SO EMISFACT	405S0716	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
681	SO EMISFACT	405S0716	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682	SO EMISFACT	405S0717	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
683	SO EMISFACT	405S0717	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
684	SO EMISFACT	405S0717	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
685	SO EMISFACT	405S0717	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
686	SO EMISFACT	405S0717	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687	SO SRCGROUP	I-405N	405N0726	405N0727	405N0728	405N0729	405N0730	405N0731								
	405N0732	405N0733														

711	RE DISCCART	364540	3789994
712	RE DISCCART	364523	3790020
713	RE DISCCART	364523	3790028
714	RE DISCCART	364523	3790036
715	RE DISCCART	364539	3790025
716	RE DISCCART	364539	3790035
717	RE DISCCART	364565	3790035
718	RE DISCCART	364570	3790003
719	RE DISCCART	364566	3789991
720	RE DISCCART	364565	3789968
721	RE DISCCART	364546	3789974
722	RE DISCCART	364546	3789974
723	RE DISCCART	364524	3790013
724	RE DISCCART	364524	3790013
725	RE DISCCART	364551	3790013
726	RE DISCCART	364551	3790013
727	RE DISCCART	364484.7	3789924.9
728	** RCPDESCR	fine grid	
729	RE DISCCART	364494.7	3789924.9
730	** RCPDESCR	fine grid	
731	RE DISCCART	364504.7	3789924.9
732	** RCPDESCR	fine grid	
733	RE DISCCART	364514.7	3789924.9
734	** RCPDESCR	fine grid	
735	RE DISCCART	364524.7	3789924.9
736	** RCPDESCR	fine grid	
737	RE DISCCART	364534.7	3789924.9
738	** RCPDESCR	fine grid	
739	RE DISCCART	364544.7	3789924.9
740	** RCPDESCR	fine grid	
741	RE DISCCART	364554.7	3789924.9
742	** RCPDESCR	fine grid	
743	RE DISCCART	364564.7	3789924.9
744	** RCPDESCR	fine grid	
745	RE DISCCART	364574.7	3789924.9
746	** RCPDESCR	fine grid	
747	RE DISCCART	364484.7	3789939.9
748	** RCPDESCR	fine grid	
749	RE DISCCART	364494.7	3789939.9
750	** RCPDESCR	fine grid	
751	RE DISCCART	364504.7	3789939.9
752	** RCPDESCR	fine grid	
753	RE DISCCART	364514.7	3789939.9
754	** RCPDESCR	fine grid	
755	RE DISCCART	364524.7	3789939.9
756	** RCPDESCR	fine grid	
757	RE DISCCART	364534.7	3789939.9
758	** RCPDESCR	fine grid	
759	RE DISCCART	364544.7	3789939.9
760	** RCPDESCR	fine grid	
761	RE DISCCART	364554.7	3789939.9
762	** RCPDESCR	fine grid	
763	RE DISCCART	364564.7	3789939.9
764	** RCPDESCR	fine grid	
765	RE DISCCART	364574.7	3789939.9
766	** RCPDESCR	fine grid	
767	RE DISCCART	364484.7	3789954.9
768	** RCPDESCR	fine grid	
769	RE DISCCART	364494.7	3789954.9
770	** RCPDESCR	fine grid	
771	RE DISCCART	364504.7	3789954.9
772	** RCPDESCR	fine grid	
773	RE DISCCART	364514.7	3789954.9
774	** RCPDESCR	fine grid	
775	RE DISCCART	364524.7	3789954.9
776	** RCPDESCR	fine grid	

777	RE DISCCART	364534.7	3789954.9
778	** RCPDESCR	fine grid	
779	RE DISCCART	364544.7	3789954.9
780	** RCPDESCR	fine grid	
781	RE DISCCART	364554.7	3789954.9
782	** RCPDESCR	fine grid	
783	RE DISCCART	364564.7	3789954.9
784	** RCPDESCR	fine grid	
785	RE DISCCART	364574.7	3789954.9
786	** RCPDESCR	fine grid	
787	RE DISCCART	364484.7	3789969.9
788	** RCPDESCR	fine grid	
789	RE DISCCART	364494.7	3789969.9
790	** RCPDESCR	fine grid	
791	RE DISCCART	364504.7	3789969.9
792	** RCPDESCR	fine grid	
793	RE DISCCART	364514.7	3789969.9
794	** RCPDESCR	fine grid	
795	RE DISCCART	364524.7	3789969.9
796	** RCPDESCR	fine grid	
797	RE DISCCART	364534.7	3789969.9
798	** RCPDESCR	fine grid	
799	RE DISCCART	364544.7	3789969.9
800	** RCPDESCR	fine grid	
801	RE DISCCART	364554.7	3789969.9
802	** RCPDESCR	fine grid	
803	RE DISCCART	364564.7	3789969.9
804	** RCPDESCR	fine grid	
805	RE DISCCART	364574.7	3789969.9
806	** RCPDESCR	fine grid	
807	RE DISCCART	364484.7	3789984.9
808	** RCPDESCR	fine grid	
809	RE DISCCART	364494.7	3789984.9
810	** RCPDESCR	fine grid	
811	RE DISCCART	364504.7	3789984.9
812	** RCPDESCR	fine grid	
813	RE DISCCART	364514.7	3789984.9
814	** RCPDESCR	fine grid	
815	RE DISCCART	364524.7	3789984.9
816	** RCPDESCR	fine grid	
817	RE DISCCART	364534.7	3789984.9
818	** RCPDESCR	fine grid	
819	RE DISCCART	364544.7	3789984.9
820	** RCPDESCR	fine grid	
821	RE DISCCART	364554.7	3789984.9
822	** RCPDESCR	fine grid	
823	RE DISCCART	364564.7	3789984.9
824	** RCPDESCR	fine grid	
825	RE DISCCART	364574.7	3789984.9
826	** RCPDESCR	fine grid	
827	RE DISCCART	364484.7	3789999.9
828	** RCPDESCR	fine grid	
829	RE DISCCART	364494.7	3789999.9
830	** RCPDESCR	fine grid	
831	RE DISCCART	364504.7	3789999.9
832	** RCPDESCR	fine grid	
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908	** RCPDESCR	fine grid	

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910 ** RCPDESCR fine grid
911 RE DISCCART 364504.7 3790059.9
912 ** RCPDESCR fine grid
913 RE DISCCART 364514.7 3790059.9
914 ** RCPDESCR fine grid
915 RE DISCCART 364524.7 3790059.9
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918 ** RCPDESCR fine grid
919 RE DISCCART 364544.7 3790059.9
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924 ** RCPDESCR fine grid
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926 ** RCPDESCR fine grid
927 RE FINISHED
928
929 ME STARTING
930 ME SURFFILE "C:\Users\jclar\OneDrive\CLARKA~1\PR3138~1\KVNY_V~1\KVNY_V9.SFC"
931 ** SURFFILE "C:\Users\jclar\OneDrive\CLARKA~1\PR3138~1\KVNY_V~1\KVNY_V9.SFC"
932 ME PROFFILE "C:\Users\jclar\OneDrive\CLARKA~1\PR3138~1\KVNY_V~1\KVNY_V9.PFL"
933 ** PROFFILE "C:\Users\jclar\OneDrive\CLARKA~1\PR3138~1\KVNY_V~1\KVNY_V9.PFL"
934 ME SURFDATA 23130 2012
935 ME UAIRDATA 3190 2012
936 ME PROFBASE 235 METERS
937 ME FINISHED
938
939 OU STARTING
940 OU FILEFORM FIX
941 OU PLOTFILE PERIOD I-405N I-405N`PERIOD.plt 10000
942 OU PLOTFILE PERIOD I-405S I-405S`PERIOD.plt 10001
943 OU PLOTFILE PERIOD ALL ALL`PERIOD.plt 10002
944 OU POSTFILE PERIOD I-405N UNIFORM I-405N`PERIOD.bin 10003
945 OU POSTFILE PERIOD I-405S UNIFORM I-405S`PERIOD.bin 10004
946 OU POSTFILE PERIOD ALL UNIFORM ALL`PERIOD.bin 10005
947 OU FINISHED
948
949 ** *****
950 ** It is recommended that the user not edit any data below this line
951 ** *****
952
953 ** BUILDING BLD 0 0 264.52 7.9248 14
954 ** BUILDING IDN 1BMRZ1EH
955 ** BUILDING CRN 364543.1 3790038.5
956 ** BUILDING CRN 364519.4 3790038.8
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970 ** BUILDING IDN 1BMRZ1EI
971 ** BUILDING CRN 364542.5 3789976.4
972 ** BUILDING CRN 364542.2 3789964.1
973 ** BUILDING CRN 364568.8 3789964.1
974 ** BUILDING CRN 364567.5 3789976.7

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975 ** BUILDING CRN 364568.1 3789976.7
976 ** BUILDING CRN 364568.5 3789976.7
977 ** BUILDING CRN 364542.5 3789976.4
978
979 ** TAG NAM 1BMRZ1EG
980 ** TAG PRM 0 1 F F 1 255,0,255,0
981 ** TAG CRD 364451.3,3789927.6,0
982 ** TAG NAM 9FIOJ02T
983 ** TAG PRM 0 1 F F 1 255,0,255,0
984 ** TAG CRD 364484.65,3789924.89,0
985
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WGS84 11 10 361605.2 3777032.8 361809.2 3790894.4 373320.3 3790731.8 373133.4
3776870.5
987 ** TERRFILE C:\USERS\JCLAR\ONEDRIVE\CLARKA~1\PR7D71~1\AERMOD\SAN_FERNANDO30M.DEM 0 2
WGS84 11 30 361809.2 3790894.5 362013.8 3804756.3 373507.9 3804593.4 373320.3
3790731.9
988 ** AMPTYPE DEM
989 ** AMPDATUM 2
990 ** AMPZONE 11
991 ** AMPHEMISPHERE N
992
993 ** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984",SPHEROID["WGS
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994 ** PROJECTION UTM
995 ** DATUM WGE
996 ** UNITS METER
997 ** ZONE 11
998 ** HEMISPHERE N
999 ** ORIGINLON 0
1000 ** ORIGINLAT 0
1001 ** PARALLEL1 0
1002 ** PARALLEL2 0
1003 ** AZIMUTH 0
1004 ** SCALEFACT 0
1005 ** FALSEEAST 0
1006 ** FALSENORTH 0
1007
1008 ** POSTFMT UNIFORM
1009 ** TEMPLATE USERDEFINED
1010 ** AERMODEXE AERMOD_EPA_22112_64.EXE
1011 ** AERMAPEXE AERMAP_EPA_18081_64.EXE
1012
1013
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1  ** BREEZE AERMOD
2  ** Trinity Consultants
3  ** VERSION 11.0
4
5  CO STARTING
6  CO TITLEONE Valor Elementary Exposure To DPM From I-405
7  CO MODELOPT CONC FLAT NODRYDPLT NOWETDPLT NOURBTRAN
8  CO RUNORNOT RUN
9  CO AVERTIME PERIOD
10 CO POLLUTID DPM
11 CO FINISHED
12
13 SO STARTING
14 SO ELEVUNIT METERS
15 SO LOCATION 405N0726 VOLUME 364442.881 3790945.012 0
16 ** SRCDESCR 405N0726
17 SO LOCATION 405N0727 VOLUME 364441.508 3790895.831 0
18 ** SRCDESCR 405N0727
19 SO LOCATION 405N0728 VOLUME 364440.134 3790846.651 0
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21 SO LOCATION 405N0729 VOLUME 364438.76 3790797.47 0
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23 SO LOCATION 405N0730 VOLUME 364437.386 3790748.289 0
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25 SO LOCATION 405N0731 VOLUME 364429.142 3790699.803 0
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27 SO LOCATION 405N0732 VOLUME 364420.64 3790651.343 0
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57 SO LOCATION 405N0747 VOLUME 364362.078 3789917.675 0
58 ** SRCDESCR 405N0747
59 SO LOCATION 405N0748 VOLUME 364360.479 3789868.501 0
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61 SO LOCATION 405N0749 VOLUME 364358.88 3789819.327 0
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63 SO LOCATION 405N0750 VOLUME 364357.33 3789770.152 0
64 ** SRCDESCR 405N0750
65 SO LOCATION 405N0751 VOLUME 364356.159 3789720.965 0
66 ** SRCDESCR 405N0751

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71	SO	LOCATION	405N0754	VOLUME	364352.648	3789573.407	0
72	**	SRCDESCR	405N0754				
73	SO	LOCATION	405N0755	VOLUME	364351.477	3789524.221	0
74	**	SRCDESCR	405N0755				
75	SO	LOCATION	405N0756	VOLUME	364350.306	3789475.035	0
76	**	SRCDESCR	405N0756				
77	SO	LOCATION	405N0757	VOLUME	364349.136	3789425.849	0
78	**	SRCDESCR	405N0757				
79	SO	LOCATION	405N0758	VOLUME	364348.553	3789376.653	0
80	**	SRCDESCR	405N0758				
81	SO	LOCATION	405N0759	VOLUME	364348.006	3789327.456	0
82	**	SRCDESCR	405N0759				
83	SO	LOCATION	405N0760	VOLUME	364347.46	3789278.259	0
84	**	SRCDESCR	405N0760				
85	SO	LOCATION	405N0761	VOLUME	364346.913	3789229.062	0
86	**	SRCDESCR	405N0761				
87	SO	LOCATION	405N0762	VOLUME	364346.367	3789179.865	0
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89	SO	LOCATION	405N0763	VOLUME	364345.82	3789130.668	0
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91	SO	LOCATION	405N0764	VOLUME	364345.031	3789081.474	0
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99	SO	LOCATION	405S0676	VOLUME	364420.267	3790946.748	0
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105	SO	LOCATION	405S0679	VOLUME	364417.67	3790799.17	0
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107	SO	LOCATION	405S0680	VOLUME	364416.805	3790749.978	0
108	**	SRCDESCR	405S0680				
109	SO	LOCATION	405S0681	VOLUME	364409.918	3790701.267	0
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111	SO	LOCATION	405S0682	VOLUME	364402.96	3790652.561	0
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159	SO	LOCATION	405S0706	VOLUME	364333.213	3789476.443	0
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177	SO	LOCATION	405S0715	VOLUME	364323.572	3789033.748	0
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220	SO	SRCPARAM	405N0763	0.02381	1.43	22.83	1.33
221	SO	SRCPARAM	405N0764	0.02381	1.43	22.83	1.33
222	SO	SRCPARAM	405N0765	0.02381	1.43	22.83	1.33
223	SO	SRCPARAM	405N0766	0.02381	1.43	22.83	1.33
224	SO	SRCPARAM	405N0767	0.02381	1.43	22.83	1.33
225	SO	SRCPARAM	405S0676	0.02381	1.43	22.83	1.33
226	SO	SRCPARAM	405S0677	0.02381	1.43	22.83	1.33
227	SO	SRCPARAM	405S0678	0.02381	1.43	22.83	1.33
228	SO	SRCPARAM	405S0679	0.02381	1.43	22.83	1.33
229	SO	SRCPARAM	405S0680	0.02381	1.43	22.83	1.33
230	SO	SRCPARAM	405S0681	0.02381	1.43	22.83	1.33
231	SO	SRCPARAM	405S0682	0.02381	1.43	22.83	1.33
232	SO	SRCPARAM	405S0683	0.02381	1.43	22.83	1.33
233	SO	SRCPARAM	405S0684	0.02381	1.43	22.83	1.33
234	SO	SRCPARAM	405S0685	0.02381	1.43	22.83	1.33
235	SO	SRCPARAM	405S0686	0.02381	1.43	22.83	1.33
236	SO	SRCPARAM	405S0687	0.02381	1.43	22.83	1.33
237	SO	SRCPARAM	405S0688	0.02381	1.43	22.83	1.33
238	SO	SRCPARAM	405S0689	0.02381	1.43	22.83	1.33
239	SO	SRCPARAM	405S0690	0.02381	1.43	22.83	1.33
240	SO	SRCPARAM	405S0691	0.02381	1.43	22.83	1.33
241	SO	SRCPARAM	405S0692	0.02381	1.43	22.83	1.33
242	SO	SRCPARAM	405S0693	0.02381	1.43	22.83	1.33
243	SO	SRCPARAM	405S0694	0.02381	1.43	22.83	1.33
244	SO	SRCPARAM	405S0695	0.02381	1.43	22.83	1.33
245	SO	SRCPARAM	405S0696	0.02381	1.43	22.83	1.33
246	SO	SRCPARAM	405S0697	0.02381	1.43	22.83	1.33
247	SO	SRCPARAM	405S0698	0.02381	1.43	22.83	1.33
248	SO	SRCPARAM	405S0699	0.02381	1.43	22.83	1.33
249	SO	SRCPARAM	405S0700	0.02381	1.43	22.83	1.33
250	SO	SRCPARAM	405S0701	0.02381	1.43	22.83	1.33
251	SO	SRCPARAM	405S0702	0.02381	1.43	22.83	1.33
252	SO	SRCPARAM	405S0703	0.02381	1.43	22.83	1.33
253	SO	SRCPARAM	405S0704	0.02381	1.43	22.83	1.33
254	SO	SRCPARAM	405S0705	0.02381	1.43	22.83	1.33
255	SO	SRCPARAM	405S0706	0.02381	1.43	22.83	1.33
256	SO	SRCPARAM	405S0707	0.02381	1.43	22.83	1.33
257	SO	SRCPARAM	405S0708	0.02381	1.43	22.83	1.33
258	SO	SRCPARAM	405S0709	0.02381	1.43	22.83	1.33
259	SO	SRCPARAM	405S0710	0.02381	1.43	22.83	1.33
260	SO	SRCPARAM	405S0711	0.02381	1.43	22.83	1.33
261	SO	SRCPARAM	405S0712	0.02381	1.43	22.83	1.33
262	SO	SRCPARAM	405S0713	0.02381	1.43	22.83	1.33
263	SO	SRCPARAM	405S0714	0.02381	1.43	22.83	1.33
264	SO	SRCPARAM	405S0715	0.02381	1.43	22.83	1.33

265	SO	SRCPARAM	405S0716	0.02381	1.43	22.83	1.33									
266	SO	SRCPARAM	405S0717	0.02381	1.43	22.83	1.33									
267	SO	EMISFACT	405N0726	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2
					7.2	7.2	7.2	7.2								
268	SO	EMISFACT	405N0726	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
269	SO	EMISFACT	405N0726	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
270	SO	EMISFACT	405N0726	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
271	SO	EMISFACT	405N0726	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
272	SO	EMISFACT	405N0727	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2
					7.2	7.2	7.2	7.2								
273	SO	EMISFACT	405N0727	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
274	SO	EMISFACT	405N0727	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
275	SO	EMISFACT	405N0727	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
276	SO	EMISFACT	405N0727	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
277	SO	EMISFACT	405N0728	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2
					7.2	7.2	7.2	7.2								
278	SO	EMISFACT	405N0728	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
279	SO	EMISFACT	405N0728	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
280	SO	EMISFACT	405N0728	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
281	SO	EMISFACT	405N0728	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
282	SO	EMISFACT	405N0729	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2
					7.2	7.2	7.2	7.2								
283	SO	EMISFACT	405N0729	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								
284	SO	EMISFACT	405N0729	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0								

303	7.2 0.0	7.2 0.0	7.2 0.0	7.2 0.0	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
304	SO EMISFACT	405N0733	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
305	SO EMISFACT	405N0733	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
306	SO EMISFACT	405N0733	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307	SO EMISFACT	405N0734	HRDOW	0.0 7.2	0.0 7.2	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
308	SO EMISFACT	405N0734	HRDOW	7.2 0.0	7.2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
309	SO EMISFACT	405N0734	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
310	SO EMISFACT	405N0734	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
311	SO EMISFACT	405N0734	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312	SO EMISFACT	405N0735	HRDOW	0.0 7.2	0.0 7.2	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
313	SO EMISFACT	405N0735	HRDOW	7.2 0.0	7.2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
314	SO EMISFACT	405N0735	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
315	SO EMISFACT	405N0735	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
316	SO EMISFACT	405N0735	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317	SO EMISFACT	405N0736	HRDOW	0.0 7.2	0.0 7.2	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
318	SO EMISFACT	405N0736	HRDOW	7.2 0.0	7.2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
319	SO EMISFACT	405N0736	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320	SO EMISFACT	405N0736	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
321	SO EMISFACT	405N0736	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322	SO EMISFACT	405N0737	HRDOW	0.0 7.2	0.0 7.2	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
323	SO EMISFACT	405N0737	HRDOW	7.2 0.0	7.2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
324	SO EMISFACT	405N0737	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
325	SO EMISFACT	405N0737	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
326	SO EMISFACT	405N0737	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
327	SO EMISFACT	405N0738	HRDOW	0.0 7.2	0.0 7.2	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
328	SO EMISFACT	405N0738	HRDOW	7.2 0.0	7.2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
329	SO EMISFACT	405N0738	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
330	SO EMISFACT	405N0738	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
331	SO EMISFACT	405N0738	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
332	SO EMISFACT	405N0739	HRDOW	0.0 7.2	0.0 7.2	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
333	SO EMISFACT	405N0739	HRDOW	7.2 0.0	7.2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
334	SO EMISFACT	405N0739	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
335	SO EMISFACT	405N0739	HRDOW	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
336	SO EMISFACT	405N0739	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
337	SO EMISFACT	405N0740	HRDOW	0.0 7.2	0.0 7.2	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
338	SO EMISFACT	405N0740	HRDOW	7.2 0.0	7.2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

339	SO EMISFACT	405N0740	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
340	SO EMISFACT	405N0740	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
341	SO EMISFACT	405N0740	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
342	SO EMISFACT	405N0741	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
343	SO EMISFACT	405N0741	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
344	SO EMISFACT	405N0741	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
345	SO EMISFACT	405N0741	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
346	SO EMISFACT	405N0741	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
347	SO EMISFACT	405N0742	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
348	SO EMISFACT	405N0742	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
349	SO EMISFACT	405N0742	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
350	SO EMISFACT	405N0742	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
351	SO EMISFACT	405N0742	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
352	SO EMISFACT	405N0743	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
353	SO EMISFACT	405N0743	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
354	SO EMISFACT	405N0743	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
355	SO EMISFACT	405N0743	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
356	SO EMISFACT	405N0743	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
357	SO EMISFACT	405N0744	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
358	SO EMISFACT	405N0744	HRDOW	7.2	7.2	0.										

	0.0	0.0	0.0	0.0												
376	SO	EMISFACT	405N0747	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
377	SO	EMISFACT	405N0748	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
378	SO	EMISFACT	405N0748	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
379	SO	EMISFACT	405N0748	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
380	SO	EMISFACT	405N0748	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
381	SO	EMISFACT	405N0748	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
382	SO	EMISFACT	405N0749	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
383	SO	EMISFACT	405N0749	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
384	SO	EMISFACT	405N0749	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
385	SO	EMISFACT	405N0749	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
386	SO	EMISFACT	405N0749	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387	SO	EMISFACT	405N0750	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
388	SO	EMISFACT	405N0750	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
389	SO	EMISFACT	405N0750	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
390	SO	EMISFACT	405N0750	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
391	SO	EMISFACT	405N0750	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392	SO	EMISFACT	405N0751	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
393	SO	EMISFACT	405N0751	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
394	SO	EMISFACT	405N0751	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
395	SO	EMISFACT	405N0751	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
396	SO	EMISFACT	405N0751	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
397	SO	EMISFACT	405N0752	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
398	SO	EMISFACT	405N0752	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
399	SO	EMISFACT	405N0752	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
400	SO	EMISFACT	405N0752	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
401	SO	EMISFACT	405N0752	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402	SO	EMISFACT	405N0753	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
403	SO	EMISFACT	405N0753	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
404	SO	EMISFACT	405N0753	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
405	SO	EMISFACT	405N0753	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
406	SO	EMISFACT	405N0753	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
407	SO	EMISFACT	405N0754	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
408	SO	EMISFACT	405N0754	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
409	SO	EMISFACT	405N0754	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
410	SO	EMISFACT	405N0754	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
411	SO	EMISFACT	405N0754	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
412	SO	EMISFACT	405N0755	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	

[illegible]

449	SO EMISFACT	405N0762	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
450	SO EMISFACT	405N0762	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
451	SO EMISFACT	405N0762	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452	SO EMISFACT	405N0763	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
453	SO EMISFACT	405N0763	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
454	SO EMISFACT	405N0763	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
455	SO EMISFACT	405N0763	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
456	SO EMISFACT	405N0763	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
457	SO EMISFACT	405N0764	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
458	SO EMISFACT	405N0764	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
459	SO EMISFACT	405N0764	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
460	SO EMISFACT	405N0764	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
461	SO EMISFACT	405N0764	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
462	SO EMISFACT	405N0765	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
463	SO EMISFACT	405N0765	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
464	SO EMISFACT	405N0765	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
465	SO EMISFACT	405N0765	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
466	SO EMISFACT	405N0765	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467	SO EMISFACT	405N0766	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
468	SO EMISFACT	405N0766	HRDOW	7.2	7.2	0.										

	0.0	0.0	0.0	0.0												
486	SO	EMISFACT	405S0677	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
487	SO	EMISFACT	405S0678	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
488	SO	EMISFACT	405S0678	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
489	SO	EMISFACT	405S0678	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
490	SO	EMISFACT	405S0678	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
491	SO	EMISFACT	405S0678	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
492	SO	EMISFACT	405S0679	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
493	SO	EMISFACT	405S0679	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
494	SO	EMISFACT	405S0679	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
495	SO	EMISFACT	405S0679	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
496	SO	EMISFACT	405S0679	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
497	SO	EMISFACT	405S0680	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
498	SO	EMISFACT	405S0680	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
499	SO	EMISFACT	405S0680	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
500	SO	EMISFACT	405S0680	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
501	SO	EMISFACT	405S0680	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
502	SO	EMISFACT	405S0681	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
503	SO	EMISFACT	405S0681	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
504	SO	EMISFACT	405S0681	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
505	SO	EMISFACT	405S0681	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
506	SO	EMISFACT	405S0681	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507	SO	EMISFACT	405S0682	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
508	SO	EMISFACT	405S0682	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
509	SO	EMISFACT	405S0682	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
510	SO	EMISFACT	405S0682	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
511	SO	EMISFACT	405S0682	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
512	SO	EMISFACT	405S0683	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
513	SO	EMISFACT	405S0683	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
514	SO	EMISFACT	405S0683	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
515	SO	EMISFACT	405S0683	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
516	SO	EMISFACT	405S0683	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517	SO	EMISFACT	405S0684	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
518	SO	EMISFACT	405S0684	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
519	SO	EMISFACT	405S0684	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
520	SO	EMISFACT	405S0684	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
521	SO	EMISFACT	405S0684	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
522	SO	EMISFACT	405S0685	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	

[illegible]

559	SO EMISFACT	405S0692	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
560	SO EMISFACT	405S0692	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
561	SO EMISFACT	405S0692	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
562	SO EMISFACT	405S0693	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
563	SO EMISFACT	405S0693	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
564	SO EMISFACT	405S0693	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
565	SO EMISFACT	405S0693	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
566	SO EMISFACT	405S0693	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
567	SO EMISFACT	405S0694	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
568	SO EMISFACT	405S0694	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
569	SO EMISFACT	405S0694	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
570	SO EMISFACT	405S0694	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
571	SO EMISFACT	405S0694	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572	SO EMISFACT	405S0695	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
573	SO EMISFACT	405S0695	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
574	SO EMISFACT	405S0695	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
575	SO EMISFACT	405S0695	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
576	SO EMISFACT	405S0695	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
577	SO EMISFACT	405S0696	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
578	SO EMISFACT	405S0696	HRDOW	7.2	7.2	0.										

	0.0	0.0	0.0	0.0												
596	SO	EMISFACT	405S0699	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
597	SO	EMISFACT	405S0700	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
598	SO	EMISFACT	405S0700	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
599	SO	EMISFACT	405S0700	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
600	SO	EMISFACT	405S0700	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
601	SO	EMISFACT	405S0700	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
602	SO	EMISFACT	405S0701	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
603	SO	EMISFACT	405S0701	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
604	SO	EMISFACT	405S0701	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
605	SO	EMISFACT	405S0701	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
606	SO	EMISFACT	405S0701	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
607	SO	EMISFACT	405S0702	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
608	SO	EMISFACT	405S0702	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
609	SO	EMISFACT	405S0702	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
610	SO	EMISFACT	405S0702	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
611	SO	EMISFACT	405S0702	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
612	SO	EMISFACT	405S0703	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
613	SO	EMISFACT	405S0703	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
614	SO	EMISFACT	405S0703	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0												
615	SO	EMISFACT	405													

[illegible]

669	SO EMISFACT	405S0714	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
670	SO EMISFACT	405S0714	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
671	SO EMISFACT	405S0714	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672	SO EMISFACT	405S0715	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
673	SO EMISFACT	405S0715	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
674	SO EMISFACT	405S0715	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
675	SO EMISFACT	405S0715	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
676	SO EMISFACT	405S0715	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677	SO EMISFACT	405S0716	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
678	SO EMISFACT	405S0716	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
679	SO EMISFACT	405S0716	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
680	SO EMISFACT	405S0716	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
681	SO EMISFACT	405S0716	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682	SO EMISFACT	405S0717	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	7.2	7.2	
	7.2	7.2	7.2	7.2												
683	SO EMISFACT	405S0717	HRDOW	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
684	SO EMISFACT	405S0717	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
685	SO EMISFACT	405S0717	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0												
686	SO EMISFACT	405S0717	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687	SO SRCGROUP	I-405N	405N0726	405N0727	405N0728	405N0729	405N0730	405N0731								
	405N0732	405N0733														

711	RE DISCCART	364540	3789994
712	RE DISCCART	364523	3790020
713	RE DISCCART	364523	3790028
714	RE DISCCART	364523	3790036
715	RE DISCCART	364539	3790025
716	RE DISCCART	364539	3790035
717	RE DISCCART	364565	3790035
718	RE DISCCART	364570	3790003
719	RE DISCCART	364566	3789991
720	RE DISCCART	364565	3789968
721	RE DISCCART	364546	3789974
722	RE DISCCART	364546	3789974
723	RE DISCCART	364524	3790013
724	RE DISCCART	364524	3790013
725	RE DISCCART	364551	3790013
726	RE DISCCART	364551	3790013
727	RE DISCCART	364484.7	3789924.9
728	** RCPDESCR	fine grid	
729	RE DISCCART	364494.7	3789924.9
730	** RCPDESCR	fine grid	
731	RE DISCCART	364504.7	3789924.9
732	** RCPDESCR	fine grid	
733	RE DISCCART	364514.7	3789924.9
734	** RCPDESCR	fine grid	
735	RE DISCCART	364524.7	3789924.9
736	** RCPDESCR	fine grid	
737	RE DISCCART	364534.7	3789924.9
738	** RCPDESCR	fine grid	
739	RE DISCCART	364544.7	3789924.9
740	** RCPDESCR	fine grid	
741	RE DISCCART	364554.7	3789924.9
742	** RCPDESCR	fine grid	
743	RE DISCCART	364564.7	3789924.9
744	** RCPDESCR	fine grid	
745	RE DISCCART	364574.7	3789924.9
746	** RCPDESCR	fine grid	
747	RE DISCCART	364484.7	3789939.9
748	** RCPDESCR	fine grid	
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751	RE DISCCART	364504.7	3789939.9
752	** RCPDESCR	fine grid	
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756	** RCPDESCR	fine grid	
757	RE DISCCART	364534.7	3789939.9
758	** RCPDESCR	fine grid	
759	RE DISCCART	364544.7	3789939.9
760	** RCPDESCR	fine grid	
761	RE DISCCART	364554.7	3789939.9
762	** RCPDESCR	fine grid	
763	RE DISCCART	364564.7	3789939.9
764	** RCPDESCR	fine grid	
765	RE DISCCART	364574.7	3789939.9
766	** RCPDESCR	fine grid	
767	RE DISCCART	364484.7	3789954.9
768	** RCPDESCR	fine grid	
769	RE DISCCART	364494.7	3789954.9
770	** RCPDESCR	fine grid	
771	RE DISCCART	364504.7	3789954.9
772	** RCPDESCR	fine grid	
773	RE DISCCART	364514.7	3789954.9
774	** RCPDESCR	fine grid	
775	RE DISCCART	364524.7	3789954.9
776	** RCPDESCR	fine grid	

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778	** RCPDESCR	fine grid	
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780	** RCPDESCR	fine grid	
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784	** RCPDESCR	fine grid	
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788	** RCPDESCR	fine grid	
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790	** RCPDESCR	fine grid	
791	RE DISCCART	364504.7	3789969.9
792	** RCPDESCR	fine grid	
793	RE DISCCART	364514.7	3789969.9
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796	** RCPDESCR	fine grid	
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804	** RCPDESCR	fine grid	
805	RE DISCCART	364574.7	3789969.9
806	** RCPDESCR	fine grid	
807	RE DISCCART	364484.7	3789984.9
808	** RCPDESCR	fine grid	
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810	** RCPDESCR	fine grid	
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812	** RCPDESCR	fine grid	
813	RE DISCCART	364514.7	3789984.9
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821	RE DISCCART	364554.7	3789984.9
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825	RE DISCCART	364574.7	3789984.9
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837	RE DISCCART	364534.7	3789999.9
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842	** RCPDESCR	fine grid	

843	RE DISCCART	364564.7	3789999.9
844	** RCPDESCR	fine grid	
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848	** RCPDESCR	fine grid	
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850	** RCPDESCR	fine grid	
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853	RE DISCCART	364514.7	3790014.9
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856	** RCPDESCR	fine grid	
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858	** RCPDESCR	fine grid	
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876	** RCPDESCR	fine grid	
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878	** RCPDESCR	fine grid	
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880	** RCPDESCR	fine grid	
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884	** RCPDESCR	fine grid	
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886	** RCPDESCR	fine grid	
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889	RE DISCCART	364494.7	3790044.9
890	** RCPDESCR	fine grid	
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892	** RCPDESCR	fine grid	
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898	** RCPDESCR	fine grid	
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901	RE DISCCART	364554.7	3790044.9
902	** RCPDESCR	fine grid	
903	RE DISCCART	364564.7	3790044.9
904	** RCPDESCR	fine grid	
905	RE DISCCART	364574.7	3790044.9
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907	RE DISCCART	364484.7	3790059.9
908	** RCPDESCR	fine grid	

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909 RE DISCCART 364494.7 3790059.9
910 ** RCPDESCR fine grid
911 RE DISCCART 364504.7 3790059.9
912 ** RCPDESCR fine grid
913 RE DISCCART 364514.7 3790059.9
914 ** RCPDESCR fine grid
915 RE DISCCART 364524.7 3790059.9
916 ** RCPDESCR fine grid
917 RE DISCCART 364534.7 3790059.9
918 ** RCPDESCR fine grid
919 RE DISCCART 364544.7 3790059.9
920 ** RCPDESCR fine grid
921 RE DISCCART 364554.7 3790059.9
922 ** RCPDESCR fine grid
923 RE DISCCART 364564.7 3790059.9
924 ** RCPDESCR fine grid
925 RE DISCCART 364574.7 3790059.9
926 ** RCPDESCR fine grid
927 RE FINISHED
928
929 ME STARTING
930 ME SURFFILE "C:\Users\jclar\OneDrive\CLARKA~1\PR3138~1\KVNY_V~1\KVNY_V9.SFC"
931 ** SURFFILE "C:\Users\jclar\OneDrive\CLARKA~1\PR3138~1\KVNY_V~1\KVNY_V9.SFC"
932 ME PROFFILE "C:\Users\jclar\OneDrive\CLARKA~1\PR3138~1\KVNY_V~1\KVNY_V9.PFL"
933 ** PROFFILE "C:\Users\jclar\OneDrive\CLARKA~1\PR3138~1\KVNY_V~1\KVNY_V9.PFL"
934 ME SURFDATA 23130 2012
935 ME UAIRDATA 3190 2012
936 ME PROFBASE 235 METERS
937 ME FINISHED
938
939 OU STARTING
940 OU FILEFORM FIX
941 OU PLOTFILE PERIOD I-405N I-405N\PERIOD.plt 10000
942 OU PLOTFILE PERIOD I-405S I-405S\PERIOD.plt 10001
943 OU PLOTFILE PERIOD ALL ALL\PERIOD.plt 10002
944 OU POSTFILE PERIOD I-405N UNIFORM I-405N\PERIOD.bin 10003
945 OU POSTFILE PERIOD I-405S UNIFORM I-405S\PERIOD.bin 10004
946 OU POSTFILE PERIOD ALL UNIFORM ALL\PERIOD.bin 10005
947 OU FINISHED
948
949
950 *** Message Summary For AERMOD Model Setup ***
951
952 ----- Summary of Total Messages -----
953
954 A Total of 0 Fatal Error Message(s)
955 A Total of 9 Warning Message(s)
956 A Total of 0 Informational Message(s)
957
958
959 ***** FATAL ERROR MESSAGES *****
960 *** NONE ***
961
962
963 ***** WARNING MESSAGES *****
964 CO W151 7 MODEPT: Non-DFAULT NoUrbTran option selected on MODELOPT
Keyword
965 ME W186 937 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
used 0.50
966 ME W187 937 MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET
967 OU W565 941 PERPLT: Possible Conflict With Dynamically Allocated FUNIT
PLOTFILE
968 OU W565 942 PERPLT: Possible Conflict With Dynamically Allocated FUNIT
PLOTFILE
969 OU W565 943 PERPLT: Possible Conflict With Dynamically Allocated FUNIT

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970 PLOTFILE
OU W565      944      PERPST: Possible Conflict With Dynamically Allocated FUNIT
POSTFILE
971 OU W565      945      PERPST: Possible Conflict With Dynamically Allocated FUNIT
POSTFILE
972 OU W565      946      PERPST: Possible Conflict With Dynamically Allocated FUNIT
POSTFILE
973
974 *****
975 *** SETUP Finishes Successfully ***
976 *****
977
978 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405      ***      12/13/22
979 *** AERMET - VERSION 16216 ***
***
17:15:37
980
PAGE      1
981 *** MODELOPTs:      NonDEFAULT      CONC      FLAT      NODRYDPLT      NOWETDPLT      RURAL      NoUrbTran      ADJ_U*
982
983 ***      MODEL SETUP OPTIONS SUMMARY      ***
984 - - - - -
985
986 ** Model Options Selected:
987 * Model Allows User-Specified Options
988 * Model Is Setup For Calculation of Average CONCentration Values.
989 * NO GAS DEPOSITION Data Provided.
990 * NO PARTICLE DEPOSITION Data Provided.
991 * Model Uses NO DRY DEPLETION. DDPLETE = F
992 * Model Uses NO WET DEPLETION. WETDPLT = F
993 * Stack-tip Downwash.
994 * Model Assumes Receptors on FLAT Terrain.
995 * Use Calms Processing Routine.
996 * Use Missing Data Processing Routine.
997 * No Exponential Decay.
998 * Model Uses RURAL Dispersion Only.
999 * ADJ_U* - Use ADJ_U* option for SBL in AERMET
1000 * CCVR_Sub - Meteorological data includes CCVR substitutions
1001 * TEMP_Sub - Meteorological data includes TEMP substitutions
1002 * Model Assumes No FLAGPOLE Receptor Heights.
1003 * The User Specified a Pollutant Type of: DPM
1004
1005 **Model Calculates PERIOD Averages Only
1006
1007 **This Run Includes:      84 Source(s);      3 Source Group(s); and      124 Receptor(s)
1008
1009 with:      0 POINT(s), including
1010      0 POINTCAP(s) and      0 POINTHOR(s)
1011 and:      84 VOLUME source(s)
1012 and:      0 AREA type source(s)
1013 and:      0 LINE source(s)
1014 and:      0 RLINE/RLINEXT source(s)
1015 and:      0 OPENPIT source(s)
1016 and:      0 BUOYANT LINE source(s) with a total of      0 line(s)
1017 and:      0 SWPOINT source(s)
1018
1019
1020 **Model Set To Continue RUNning After the Setup Testing.
1021
1022 **The AERMET Input Meteorological Data Version Date: 16216
1023
1024 **Output Options Selected:
1025 Model Outputs Tables of PERIOD Averages by Receptor
1026 Model Outputs External File(s) of Concurrent Values for Postprocessing

```

```

1027      (POSTFILE Keyword)
1028      Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
1029      **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
1030                                          m for Missing Hours
1031                                          b for Both Calm and
                                          Missing Hours
1032
1033      **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) = 235.00 ; Decay Coef.
=      0.000      ; Rot. Angle = 0.0
1034      Emission Units = GRAMS/SEC      ; Emission
      Rate Unit Factor = 0.10000E+07
1035      Output Units  = MICROGRAMS/M**3
1036
1037      **Approximate Storage Requirements of Model = 3.6 MB of RAM.
1038
1039      **Input Runstream File:
aermod.inp
1040
1041      **Output Print File:
aermod.out
1042
1043      *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405      ***      12/13/22
1044      *** AERMET - VERSION 16216 ***
      ***
17:15:37
1045
1046      PAGE 2
1047      *** MODELOPTs:  NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1048
1049      *** VOLUME SOURCE DATA ***
1050
1051      SOURCE      NUMBER EMISSION RATE      BASE      RELEASE      INIT.
      SOURCE      PART.  (GRAMS/SEC)      X      Y      ELEV.      HEIGHT      SY
1052      SZ      SOURCE  SCALAR VARY
      ID      CATS.      (METERS) (METERS) (METERS) (METERS) (METERS)
      (METERS)      BY
1053      - - - - -
1054
1055      405N0726      0  0.23810E-01  364442.9  3790945.0  235.0      1.43      22.83
1.33      NO      HRDOW
1056      405N0727      0  0.23810E-01  364441.5  3790895.8  235.0      1.43      22.83
1.33      NO      HRDOW
1057      405N0728      0  0.23810E-01  364440.1  3790846.7  235.0      1.43      22.83
1.33      NO      HRDOW
1058      405N0729      0  0.23810E-01  364438.8  3790797.5  235.0      1.43      22.83
1.33      NO      HRDOW
1059      405N0730      0  0.23810E-01  364437.4  3790748.3  235.0      1.43      22.83
1.33      NO      HRDOW
1060      405N0731      0  0.23810E-01  364429.1  3790699.8  235.0      1.43      22.83
1.33      NO      HRDOW
1061      405N0732      0  0.23810E-01  364420.6  3790651.3  235.0      1.43      22.83
1.33      NO      HRDOW
1062      405N0733      0  0.23810E-01  364412.0  3790602.9  235.0      1.43      22.83
1.33      NO      HRDOW
1063      405N0734      0  0.23810E-01  364403.0  3790554.5  235.0      1.43      22.83
1.33      NO      HRDOW
1064      405N0735      0  0.23810E-01  364393.9  3790506.2  235.0      1.43      22.83
1.33      NO      HRDOW
1065      405N0736      0  0.23810E-01  364384.8  3790457.8  235.0      1.43      22.83
1.33      NO      HRDOW

```

1066	405N0737	0	0.23810E-01	364377.1	3790409.3	235.0	1.43	22.83
	1.33 NO	HRDOW						
1067	405N0738	0	0.23810E-01	364372.8	3790360.3	235.0	1.43	22.83
	1.33 NO	HRDOW						
1068	405N0739	0	0.23810E-01	364369.8	3790311.2	235.0	1.43	22.83
	1.33 NO	HRDOW						
1069	405N0740	0	0.23810E-01	364368.9	3790262.0	235.0	1.43	22.83
	1.33 NO	HRDOW						
1070	405N0741	0	0.23810E-01	364368.0	3790212.8	235.0	1.43	22.83
	1.33 NO	HRDOW						
1071	405N0742	0	0.23810E-01	364367.1	3790163.6	235.0	1.43	22.83
	1.33 NO	HRDOW						
1072	405N0743	0	0.23810E-01	364366.1	3790114.4	235.0	1.43	22.83
	1.33 NO	HRDOW						
1073	405N0744	0	0.23810E-01	364365.2	3790065.2	235.0	1.43	22.83
	1.33 NO	HRDOW						
1074	405N0745	0	0.23810E-01	364364.3	3790016.0	235.0	1.43	22.83
	1.33 NO	HRDOW						
1075	405N0746	0	0.23810E-01	364363.4	3789966.9	235.0	1.43	22.83
	1.33 NO	HRDOW						
1076	405N0747	0	0.23810E-01	364362.1	3789917.7	235.0	1.43	22.83
	1.33 NO	HRDOW						
1077	405N0748	0	0.23810E-01	364360.5	3789868.5	235.0	1.43	22.83
	1.33 NO	HRDOW						
1078	405N0749	0	0.23810E-01	364358.9	3789819.3	235.0	1.43	22.83
	1.33 NO	HRDOW						
1079	405N0750	0	0.23810E-01	364357.3	3789770.2	235.0	1.43	22.83
	1.33 NO	HRDOW						
1080	405N0751	0	0.23810E-01	364356.2	3789721.0	235.0	1.43	22.83
	1.33 NO	HRDOW						
1081	405N0752	0	0.23810E-01	364355.0	3789671.8	235.0	1.43	22.83
	1.33 NO	HRDOW						
1082	405N0753	0	0.23810E-01	364353.8	3789622.6	235.0	1.43	22.83
	1.33 NO	HRDOW						
1083	405N0754	0	0.23810E-01	364352.6	3789573.4	235.0	1.43	22.83
	1.33 NO	HRDOW						
1084	405N0755	0	0.23810E-01	364351.5	3789524.2	235.0	1.43	22.83
	1.33 NO	HRDOW						
1085	405N0756	0	0.23810E-01	364350.3	3789475.0	235.0	1.43	22.83
	1.33 NO	HRDOW						
1086	405N0757	0	0.23810E-01	364349.1	3789425.8	235.0	1.43	22.83
	1.33 NO	HRDOW						
1087	405N0758	0	0.23810E-01	364348.6	3789376.7	235.0	1.43	22.83
	1.33 NO	HRDOW						
1088	405N0759	0	0.23810E-01	364348.0	3789327.5	235.0	1.43	22.83
	1.33 NO	HRDOW						
1089	405N0760	0	0.23810E-01	364347.5	3789278.3	235.0	1.43	22.83
	1.33 NO	HRDOW						
1090	405N0761	0	0.23810E-01	364346.9	3789229.1	235.0	1.43	22.83
	1.33 NO	HRDOW						
1091	405N0762	0	0.23810E-01	364346.4	3789179.9	235.0	1.43	22.83
	1.33 NO	HRDOW						
1092	405N0763	0	0.23810E-01	364345.8	3789130.7	235.0	1.43	22.83
	1.33 NO	HRDOW						
1093	405N0764	0	0.23810E-01	364345.0	3789081.5	235.0	1.43	22.83
	1.33 NO	HRDOW						
1094	405N0765	0	0.23810E-01	364344.2	3789032.3	235.0	1.43	22.83
	1.33 NO	HRDOW						

1095 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1096 *** AERMET - VERSION 16216 ***

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1099								
1100								
1101						*** VOLUME SOURCE DATA ***		
1102								
1103			NUMBER EMISSION RATE			BASE	RELEASE	INIT.
			INIT. URBAN EMISSION RATE					
1104	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
	SZ	SOURCE	SCALAR VARY					
1105	ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
	(METERS)		BY					
1106	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
1107								
1108	405N0766	0	0.23810E-01	364343.4	3788983.1	235.0	1.43	22.83
	1.33 NO	HRDOW						
1109	405N0767	0	0.23810E-01	364342.6	3788933.9	235.0	1.43	22.83
	1.33 NO	HRDOW						
1110	405S0676	0	0.23810E-01	364420.3	3790946.7	235.0	1.43	22.83
	1.33 NO	HRDOW						
1111	405S0677	0	0.23810E-01	364419.4	3790897.6	235.0	1.43	22.83
	1.33 NO	HRDOW						
1112	405S0678	0	0.23810E-01	364418.5	3790848.4	235.0	1.43	22.83
	1.33 NO	HRDOW						
1113	405S0679	0	0.23810E-01	364417.7	3790799.2	235.0	1.43	22.83
	1.33 NO	HRDOW						
1114	405S0680	0	0.23810E-01	364416.8	3790750.0	235.0	1.43	22.83
	1.33 NO	HRDOW						
1115	405S0681	0	0.23810E-01	364409.9	3790701.3	235.0	1.43	22.83
	1.33 NO	HRDOW						
1116	405S0682	0	0.23810E-01	364403.0	3790652.6	235.0	1.43	22.83
	1.33 NO	HRDOW						
1117	405S0683	0	0.23810E-01	364393.7	3790604.2	235.0	1.43	22.83
	1.33 NO	HRDOW						
1118	405S0684	0	0.23810E-01	364384.2	3790556.0	235.0	1.43	22.83
	1.33 NO	HRDOW						
1119	405S0685	0	0.23810E-01	364374.6	3790507.7	235.0	1.43	22.83
	1.33 NO	HRDOW						
1120	405S0686	0	0.23810E-01	364365.0	3790459.5	235.0	1.43	22.83
	1.33 NO	HRDOW						
1121	405S0687	0	0.23810E-01	364358.2	3790410.9	235.0	1.43	22.83
	1.33 NO	HRDOW						
1122	405S0688	0	0.23810E-01	364356.0	3790361.7	235.0	1.43	22.83
	1.33 NO	HRDOW						
1123	405S0689	0	0.23810E-01	364353.8	3790312.6	235.0	1.43	22.83
	1.33 NO	HRDOW						
1124	405S0690	0	0.23810E-01	364351.6	3790263.4	235.0	1.43	22.83
	1.33 NO	HRDOW						
1125	405S0691	0	0.23810E-01	364349.5	3790214.3	235.0	1.43	22.83
	1.33 NO	HRDOW						
1126	405S0692	0	0.23810E-01	364348.4	3790165.1	235.0	1.43	22.83
	1.33 NO	HRDOW						
1127	405S0693	0	0.23810E-01	364347.4	3790115.9	235.0	1.43	22.83
	1.33 NO	HRDOW						
1128	405S0694	0	0.23810E-01	364346.3	3790066.7	235.0	1.43	22.83
	1.33 NO	HRDOW						
1129	405S0695	0	0.23810E-01	364345.2	3790017.5	235.0	1.43	22.83
	1.33 NO	HRDOW						
1130	405S0696	0	0.23810E-01	364344.1	3789968.3	235.0	1.43	22.83
	1.33 NO	HRDOW						
1131	405S0697	0	0.23810E-01	364343.0	3789919.1	235.0	1.43	22.83
	1.33 NO	HRDOW						
1132	405S0698	0	0.23810E-01	364341.9	3789869.9	235.0	1.43	22.83
	1.33 NO	HRDOW						
1133	405S0699	0	0.23810E-01	364340.8	3789820.8	235.0	1.43	22.83
	1.33 NO	HRDOW						
1134	405S0700	0	0.23810E-01	364339.7	3789771.6	235.0	1.43	22.83

	1.33	NO	HRDOW						
1135	405S0701		0	0.23810E-01	364338.6	3789722.4	235.0	1.43	22.83
	1.33	NO	HRDOW						
1136	405S0702		0	0.23810E-01	364337.6	3789673.2	235.0	1.43	22.83
	1.33	NO	HRDOW						
1137	405S0703		0	0.23810E-01	364336.5	3789624.0	235.0	1.43	22.83
	1.33	NO	HRDOW						
1138	405S0704		0	0.23810E-01	364335.4	3789574.8	235.0	1.43	22.83
	1.33	NO	HRDOW						
1139	405S0705		0	0.23810E-01	364334.3	3789525.6	235.0	1.43	22.83
	1.33	NO	HRDOW						
1140	405S0706		0	0.23810E-01	364333.2	3789476.4	235.0	1.43	22.83
	1.33	NO	HRDOW						
1141	405S0707		0	0.23810E-01	364332.1	3789427.3	235.0	1.43	22.83
	1.33	NO	HRDOW						
1142	405S0708		0	0.23810E-01	364331.1	3789378.1	235.0	1.43	22.83
	1.33	NO	HRDOW						
1143	405S0709		0	0.23810E-01	364330.0	3789328.9	235.0	1.43	22.83
	1.33	NO	HRDOW						
1144	405S0710		0	0.23810E-01	364328.9	3789279.7	235.0	1.43	22.83
	1.33	NO	HRDOW						
1145	405S0711		0	0.23810E-01	364327.9	3789230.5	235.0	1.43	22.83
	1.33	NO	HRDOW						
1146	405S0712		0	0.23810E-01	364326.8	3789181.3	235.0	1.43	22.83
	1.33	NO	HRDOW						
1147	405S0713		0	0.23810E-01	364325.7	3789132.1	235.0	1.43	22.83
	1.33	NO	HRDOW						
1148	*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From								
	I-405								12/13/22
1149	*** AERMET - VERSION 16216 ***								

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1150

1151 PAGE 4

1152 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

1153 *** VOLUME SOURCE DATA ***

1154									
1155									
1156		NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
		INIT.	URBAN	EMISSION	RATE				
1157	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	
	SZ	SOURCE	SCALAR	VARY					
1158	ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
	(METERS)		BY						
1159	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-

1160									
1161	405S0714		0	0.23810E-01	364324.6	3789082.9	235.0	1.43	22.83
	1.33	NO	HRDOW						
1162	405S0715		0	0.23810E-01	364323.6	3789033.7	235.0	1.43	22.83
	1.33	NO	HRDOW						
1163	405S0716		0	0.23810E-01	364322.6	3788984.6	235.0	1.43	22.83
	1.33	NO	HRDOW						
1164	405S0717		0	0.23810E-01	364321.7	3788935.4	235.0	1.43	22.83
	1.33	NO	HRDOW						
1165	*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From								
	I-405								12/13/22
1166	*** AERMET - VERSION 16216 ***								

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1169 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

1170

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1171                                     *** SOURCE IDs DEFINING SOURCE GROUPS ***
1172
1173 SRCGROUP ID                                     SOURCE IDs
1174 -----
1175
1176
1177 I-405N      405N0726 , 405N0727 , 405N0728 , 405N0729 , 405N0730 ,
1178      405N0731 , 405N0732 , 405N0733 ,
1179
1180      405N0734 , 405N0735 , 405N0736 , 405N0737 , 405N0738 ,
1181      405N0739 , 405N0740 , 405N0741 ,
1182
1183      405N0742 , 405N0743 , 405N0744 , 405N0745 , 405N0746 ,
1184      405N0747 , 405N0748 , 405N0749 ,
1185
1186      405N0750 , 405N0751 , 405N0752 , 405N0753 , 405N0754 ,
1187      405N0755 , 405N0756 , 405N0757 ,
1188
1189      405N0758 , 405N0759 , 405N0760 , 405N0761 , 405N0762 ,
1190      405N0763 , 405N0764 , 405N0765 ,
1191
1192      405N0766 , 405N0767 ,
1193
1194 I-405S      405S0676 , 405S0677 , 405S0678 , 405S0679 , 405S0680 ,
1195      405S0681 , 405S0682 , 405S0683 ,
1196
1197      405S0684 , 405S0685 , 405S0686 , 405S0687 , 405S0688 ,
1198      405S0689 , 405S0690 , 405S0691 ,
1199
1200      405S0692 , 405S0693 , 405S0694 , 405S0695 , 405S0696 ,
1201      405S0697 , 405S0698 , 405S0699 ,
1202
1203      405S0700 , 405S0701 , 405S0702 , 405S0703 , 405S0704 ,
1204      405S0705 , 405S0706 , 405S0707 ,
1205
1206      405S0708 , 405S0709 , 405S0710 , 405S0711 , 405S0712 ,
1207      405S0713 , 405S0714 , 405S0715 ,
1208
1209      405S0716 , 405S0717 ,
1210
1211 ALL         405N0726 , 405N0727 , 405N0728 , 405N0729 , 405N0730 ,
1212      405N0731 , 405N0732 , 405N0733 ,
1213
1214      405N0734 , 405N0735 , 405N0736 , 405N0737 , 405N0738 ,
1215      405N0739 , 405N0740 , 405N0741 ,
1216
1217      405N0742 , 405N0743 , 405N0744 , 405N0745 , 405N0746 ,
1218      405N0747 , 405N0748 , 405N0749 ,
1219
1220      405N0750 , 405N0751 , 405N0752 , 405N0753 , 405N0754 ,
1221      405N0755 , 405N0756 , 405N0757 ,
1222
1223      405N0758 , 405N0759 , 405N0760 , 405N0761 , 405N0762 ,
1224      405N0763 , 405N0764 , 405N0765 ,
1225
1226      405N0766 , 405N0767 , 405S0676 , 405S0677 , 405S0678 ,
1227      405S0679 , 405S0680 , 405S0681 ,
1228
1229      405S0682 , 405S0683 , 405S0684 , 405S0685 , 405S0686 ,
1230      405S0687 , 405S0688 , 405S0689 ,
1231
1232      405S0690 , 405S0691 , 405S0692 , 405S0693 , 405S0694 ,
1233      405S0695 , 405S0696 , 405S0697 ,
1234
1235 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
1236 I-405                                     ***      12/13/22
1237 *** AERMET - VERSION 16216 ***

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1218

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1219 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

1220

1221

1222

*** SOURCE IDs DEFINING SOURCE GROUPS ***

1223

1224 SRCGROUP ID

SOURCE IDs

1225 -----

1226

1227

1228 405S0698 , 405S0699 , 405S0700 , 405S0701 , 405S0702 ,

405S0703 , 405S0704 , 405S0705 ,

1229

1230 405S0706 , 405S0707 , 405S0708 , 405S0709 , 405S0710 ,

405S0711 , 405S0712 , 405S0713 ,

1231

1232 405S0714 , 405S0715 , 405S0716 , 405S0717 ,

1233 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22

1234 *** AERMET - VERSION 16216 ***

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1235

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1236 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

1237

1238 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

1239

1240 SOURCE ID = 405N0726 ; SOURCE TYPE = VOLUME :

1241 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

1242 - - - - -

- - - - -

1243 DAY OF WEEK = WEEKDAY

1244 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+011245 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+011246 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1247 DAY OF WEEK = SATURDAY

1248 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+001249 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+001250 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1251 DAY OF WEEK = SUNDAY

1252 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+001253 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+001254 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+001255 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22

1256 *** AERMET - VERSION 16216 ***

17:15:37

1257

PAGE 8

1258 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

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1259
1260          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
          WEEK (HRDOW) *
1261
1262 SOURCE ID = 405N0727      ; SOURCE TYPE = VOLUME      :
1263   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
1264   SCALAR   HOUR   SCALAR   HOUR   SCALAR
1265   - - - - -
1266                                     DAY OF WEEK = WEEKDAY
1267   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
1268   .0000E+00   7 .0000E+00   8 .7200E+01
1269   9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
1270   .7200E+01  15 .7200E+01  16 .7200E+01
1271   17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
1272   .0000E+00  23 .0000E+00  24 .0000E+00
1273                                     DAY OF WEEK = SATURDAY
1274   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
1275   .0000E+00   7 .0000E+00   8 .0000E+00
1276   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
1277   .0000E+00  15 .0000E+00  16 .0000E+00
1278   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
1279   .0000E+00  23 .0000E+00  24 .0000E+00
1280                                     DAY OF WEEK = SUNDAY
1281   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
1282   .0000E+00   7 .0000E+00   8 .0000E+00
1283   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
1284   .0000E+00  15 .0000E+00  16 .0000E+00
1285   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
1286   .0000E+00  23 .0000E+00  24 .0000E+00
1287 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
1288 I-405 ***      12/13/22
1289 *** AERMET - VERSION 16216 ***
1290 ***
1291 17:15:37
1292
1293                                     PAGE      9
1294 *** MODELOPTs:   NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1295
1296          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
          WEEK (HRDOW) *
1297
1298 SOURCE ID = 405N0728      ; SOURCE TYPE = VOLUME      :
1299   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
1300   SCALAR   HOUR   SCALAR   HOUR   SCALAR
1301   - - - - -
1302                                     DAY OF WEEK = WEEKDAY
1303   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
1304   .0000E+00   7 .0000E+00   8 .7200E+01
1305   9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
1306   .7200E+01  15 .7200E+01  16 .7200E+01
1307   17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
1308   .0000E+00  23 .0000E+00  24 .0000E+00
1309                                     DAY OF WEEK = SATURDAY
1310   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
1311   .0000E+00   7 .0000E+00   8 .0000E+00
1312   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
1313   .0000E+00  15 .0000E+00  16 .0000E+00
1314   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
1315   .0000E+00  23 .0000E+00  24 .0000E+00
1316                                     DAY OF WEEK = SUNDAY
1317   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
1318   .0000E+00   7 .0000E+00   8 .0000E+00
1319   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
1320   .0000E+00  15 .0000E+00  16 .0000E+00

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1298      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1299 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1300 *** AERMET - VERSION 16216 ***
***
17:15:37
1301
                                PAGE 10
1302 *** MODELOPTs:  NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1303
1304      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1305
1306 SOURCE ID = 405N0729 ; SOURCE TYPE = VOLUME :
1307   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
1308   SCALAR   HOUR   SCALAR   HOUR   SCALAR
1309   - - - - -
1310                                     DAY OF WEEK = WEEKDAY
1311      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
1312      9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
1313      17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1314                                     DAY OF WEEK = SATURDAY
1315      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
1316      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1317      17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1318                                     DAY OF WEEK = SUNDAY
1319      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
1320      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1321      17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1322 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1323 *** AERMET - VERSION 16216 ***
***
17:15:37
1324
                                PAGE 11
1325 *** MODELOPTs:  NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1326
1327      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1328
1329 SOURCE ID = 405N0730 ; SOURCE TYPE = VOLUME :
1330   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
1331   SCALAR   HOUR   SCALAR   HOUR   SCALAR
1332   - - - - -
1333                                     DAY OF WEEK = WEEKDAY
1334      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
1335      9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
1336      17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1337                                     DAY OF WEEK = SATURDAY
1338      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6

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.0000E+00 7 .0000E+00 8 .0000E+00
1337 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
1338 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1339 DAY OF WEEK = SUNDAY
1340 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
1341 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
1342 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1343 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1344 *** AERMET - VERSION 16216 ***
***
17:15:37
1345
PAGE 12
1346 *** MODELOPTs: NonDEFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1347
1348 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
1349
1350 SOURCE ID = 405N0731 ; SOURCE TYPE = VOLUME :
1351 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
1352 - - - - -
1353 DAY OF WEEK = WEEKDAY
1354 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
1355 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
1356 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1357 DAY OF WEEK = SATURDAY
1358 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
1359 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
1360 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1361 DAY OF WEEK = SUNDAY
1362 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
1363 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
1364 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1365 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1366 *** AERMET - VERSION 16216 ***
***
17:15:37
1367
PAGE 13
1368 *** MODELOPTs: NonDEFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1369
1370 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
1371
1372 SOURCE ID = 405N0732 ; SOURCE TYPE = VOLUME :
1373 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
1374 - - - - -

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1375                                     DAY OF WEEK = WEEKDAY
1376      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
1377      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
1378     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1379                                     DAY OF WEEK = SATURDAY
1380      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1381      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1382     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1383                                     DAY OF WEEK = SUNDAY
1384      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1385      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1386     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1387 RF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1388 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1389
                                     PAGE 14
1390 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1391
1392      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1393
1394 SOURCE ID = 405N0733      ; SOURCE TYPE = VOLUME      :
1395      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR
      SCALAR      HOUR      SCALAR      HOUR      SCALAR
1396  - - - - -
1397                                     DAY OF WEEK = WEEKDAY
1398      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
1399      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
1400     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1401                                     DAY OF WEEK = SATURDAY
1402      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1403      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1404     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1405                                     DAY OF WEEK = SUNDAY
1406      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1407      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1408     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1409 RF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1410 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1411

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1412 PAGE 15
 1413 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
 1414 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
 WEEK (HRDOW) *

1415
 1416 SOURCE ID = 405N0734 ; SOURCE TYPE = VOLUME :
 1417 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
 SCALAR HOUR SCALAR HOUR SCALAR
 1418 - - - - -
 - - - - -

1419 DAY OF WEEK = WEEKDAY
 1420 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .7200E+01
 1421 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
 .7200E+01 15 .7200E+01 16 .7200E+01
 1422 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

1423 DAY OF WEEK = SATURDAY
 1424 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00
 1425 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
 .0000E+00 15 .0000E+00 16 .0000E+00
 1426 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

1427 DAY OF WEEK = SUNDAY
 1428 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00
 1429 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
 .0000E+00 15 .0000E+00 16 .0000E+00
 1430 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

1431 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
 I-405 *** 12/13/22
 1432 *** AERMET - VERSION 16216 ***

 17:15:37

1433
 1434 PAGE 16
 1435 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
 1436 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
 WEEK (HRDOW) *

1437
 1438 SOURCE ID = 405N0735 ; SOURCE TYPE = VOLUME :
 1439 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
 SCALAR HOUR SCALAR HOUR SCALAR
 1440 - - - - -
 - - - - -

1441 DAY OF WEEK = WEEKDAY
 1442 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .7200E+01
 1443 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
 .7200E+01 15 .7200E+01 16 .7200E+01
 1444 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

1445 DAY OF WEEK = SATURDAY
 1446 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00
 1447 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
 .0000E+00 15 .0000E+00 16 .0000E+00
 1448 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

1449 DAY OF WEEK = SUNDAY
 1450 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00

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1451      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
1452      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1453 ERR *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1454      *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1455
                                     PAGE 17
1456      *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1457
1458      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1459
1460      SOURCE ID = 405N0736      ; SOURCE TYPE = VOLUME      :
1461      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
1462      - - - - -
      - - - - -
1463                                     DAY OF WEEK = WEEKDAY
1464      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
1465      9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
1466      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1467                                     DAY OF WEEK = SATURDAY
1468      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
1469      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
1470      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1471                                     DAY OF WEEK = SUNDAY
1472      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
1473      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
1474      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1475 ERR *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1476      *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1477
                                     PAGE 18
1478      *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1479
1480      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1481
1482      SOURCE ID = 405N0737      ; SOURCE TYPE = VOLUME      :
1483      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
1484      - - - - -
      - - - - -
1485                                     DAY OF WEEK = WEEKDAY
1486      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
1487      9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
1488      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00

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1489                                     DAY OF WEEK = SATURDAY
1490      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1491      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1492     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1493                                     DAY OF WEEK = SUNDAY
1494      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1495      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1496     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1497 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     12/13/22
1498 *** AERMET - VERSION 16216 ***
      ***
17:15:37
1499
                                     PAGE 19
1500 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1501
1502      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1503
1504 SOURCE ID = 405N0738      ; SOURCE TYPE = VOLUME      :
1505      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
1506  - - - - -
1507                                     DAY OF WEEK = WEEKDAY
1508      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
1509      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
1510     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1511                                     DAY OF WEEK = SATURDAY
1512      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1513      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1514     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1515                                     DAY OF WEEK = SUNDAY
1516      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1517      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1518     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1519 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     12/13/22
1520 *** AERMET - VERSION 16216 ***
      ***
17:15:37
1521
                                     PAGE 20
1522 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1523
1524      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1525
1526 SOURCE ID = 405N0738      ; SOURCE TYPE = VOLUME      :
1527      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR

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1528  - - - - - SCALAR  HOUR  SCALAR  HOUR  SCALAR  - - - - -
1529
1530          DAY OF WEEK = WEEKDAY
1530      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
1531      9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
1532     17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1533          DAY OF WEEK = SATURDAY
1534      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
1535      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1536     17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1537          DAY OF WEEK = SUNDAY
1538      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
1539      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1540     17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1541  *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1542  *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1543
      PAGE 21
1544  *** MODELOPTs:      NonDEFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1545
1546      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1547
1548  SOURCE ID = 405N0740      ; SOURCE TYPE = VOLUME      :
1549  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
1550  - - - - -
1551          DAY OF WEEK = WEEKDAY
1552      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
1553      9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
1554     17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1555          DAY OF WEEK = SATURDAY
1556      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
1557      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1558     17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1559          DAY OF WEEK = SUNDAY
1560      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
1561      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1562     17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1563  *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1564  *** AERMET - VERSION 16216 ***
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17:15:37

1565

PAGE 22

1566 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

1567

1568 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

1569

1570 SOURCE ID = 405N0741 ; SOURCE TYPE = VOLUME :

1571 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

1572 - - - - -
- - - - -

1573 DAY OF WEEK = WEEKDAY

1574 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

1575 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

1576 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1577 DAY OF WEEK = SATURDAY

1578 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

1579 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

1580 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1581 DAY OF WEEK = SUNDAY

1582 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

1583 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

1584 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1585 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 12/13/22

1586 *** AERMET - VERSION 16216 ***

17:15:37

1587

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1588 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

1589

1590 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

1591

1592 SOURCE ID = 405N0742 ; SOURCE TYPE = VOLUME :

1593 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

1594 - - - - -
- - - - -

1595 DAY OF WEEK = WEEKDAY

1596 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

1597 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

1598 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1599 DAY OF WEEK = SATURDAY

1600 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

1601 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

1602 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1603 DAY OF WEEK = SUNDAY

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1604      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1605      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1606     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1607 FF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1608     *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1609
                                     PAGE 24
1610     *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1611
1612     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1613
1614     SOURCE ID = 405N0743      ; SOURCE TYPE = VOLUME      :
1615     HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
1616     - - - - -
      - - - - -
1617                                     DAY OF WEEK = WEEKDAY
1618      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
1619      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
1620     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1621                                     DAY OF WEEK = SATURDAY
1622      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1623      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1624     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1625                                     DAY OF WEEK = SUNDAY
1626      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
1627      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
1628     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
1629 FF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1630     *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1631
                                     PAGE 25
1632     *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1633
1634     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1635
1636     SOURCE ID = 405N0744      ; SOURCE TYPE = VOLUME      :
1637     HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
1638     - - - - -
      - - - - -
1639                                     DAY OF WEEK = WEEKDAY
1640      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
1641      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
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1642      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1643                                     DAY OF WEEK = SATURDAY
1644      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
      .0000E+00    7 .0000E+00    8 .0000E+00
1645      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
1646     17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
1647                                     DAY OF WEEK = SUNDAY
1648      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
      .0000E+00    7 .0000E+00    8 .0000E+00
1649      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
1650     17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
1651 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1652 *** AERMET - VERSION 16216 ***
      ***
17:15:37
1653
                                     PAGE 26
1654 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1655
1656      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1657
1658 SOURCE ID = 405N0745      ; SOURCE TYPE = VOLUME      :
1659 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
1660 - - - - -
      - - - - -
1661                                     DAY OF WEEK = WEEKDAY
1662      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
      .0000E+00    7 .0000E+00    8 .7200E+01
1663      9 .7200E+01   10 .7200E+01   11 .7200E+01   12 .7200E+01   13 .7200E+01   14
      .7200E+01   15 .7200E+01   16 .7200E+01
1664     17 .7200E+01   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
1665                                     DAY OF WEEK = SATURDAY
1666      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
      .0000E+00    7 .0000E+00    8 .0000E+00
1667      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
1668     17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
1669                                     DAY OF WEEK = SUNDAY
1670      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
      .0000E+00    7 .0000E+00    8 .0000E+00
1671      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
1672     17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
1673 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1674 *** AERMET - VERSION 16216 ***
      ***
17:15:37
1675
                                     PAGE 27
1676 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1677
1678      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1679

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1680 SOURCE ID = 405N0746 ; SOURCE TYPE = VOLUME :
1681 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
1682 SCALAR HOUR SCALAR HOUR SCALAR
-----
1683 DAY OF WEEK = WEEKDAY
1684 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .7200E+01
1685 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
1686 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1687 DAY OF WEEK = SATURDAY
1688 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
1689 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1690 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1691 DAY OF WEEK = SUNDAY
1692 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
1693 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1694 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1695 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1696 *** AERMET - VERSION 16216 ***
*** ***
17:15:37
1697
PAGE 28
1698 *** MODELOPTs: NonDEFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1699
1700 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
1701
1702 SOURCE ID = 405N0747 ; SOURCE TYPE = VOLUME :
1703 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
1704 SCALAR HOUR SCALAR HOUR SCALAR
-----
1705 DAY OF WEEK = WEEKDAY
1706 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .7200E+01
1707 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
1708 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1709 DAY OF WEEK = SATURDAY
1710 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
1711 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1712 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1713 DAY OF WEEK = SUNDAY
1714 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
1715 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1716 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1717 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22

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1718 *** AERMET - VERSION 16216 ***
1719 ***
1719 17:15:37
1719
1720 PAGE 29
1720 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1721
1722 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
1722 WEEK (HRDOW) *
1723
1724 SOURCE ID = 405N0748 ; SOURCE TYPE = VOLUME :
1725 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
1725 SCALAR HOUR SCALAR HOUR SCALAR
1726 - - - - -
1727 DAY OF WEEK = WEEKDAY
1728 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
1728 .0000E+00 7 .0000E+00 8 .7200E+01
1729 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
1729 .7200E+01 15 .7200E+01 16 .7200E+01
1730 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
1730 .0000E+00 23 .0000E+00 24 .0000E+00
1731 DAY OF WEEK = SATURDAY
1732 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
1732 .0000E+00 7 .0000E+00 8 .0000E+00
1733 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
1733 .0000E+00 15 .0000E+00 16 .0000E+00
1734 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
1734 .0000E+00 23 .0000E+00 24 .0000E+00
1735 DAY OF WEEK = SUNDAY
1736 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
1736 .0000E+00 7 .0000E+00 8 .0000E+00
1737 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
1737 .0000E+00 15 .0000E+00 16 .0000E+00
1738 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
1738 .0000E+00 23 .0000E+00 24 .0000E+00
1739 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
1739 I-405 *** 12/13/22
1740 *** AERMET - VERSION 16216 ***
1740 ***
1740 17:15:37
1741
1741 PAGE 30
1742 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1743
1744 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
1744 WEEK (HRDOW) *
1745
1746 SOURCE ID = 405N0749 ; SOURCE TYPE = VOLUME :
1747 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
1747 SCALAR HOUR SCALAR HOUR SCALAR
1748 - - - - -
1748 - - - - -
1749 DAY OF WEEK = WEEKDAY
1750 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
1750 .0000E+00 7 .0000E+00 8 .7200E+01
1751 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
1751 .7200E+01 15 .7200E+01 16 .7200E+01
1752 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
1752 .0000E+00 23 .0000E+00 24 .0000E+00
1753 DAY OF WEEK = SATURDAY
1754 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
1754 .0000E+00 7 .0000E+00 8 .0000E+00
1755 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
1755 .0000E+00 15 .0000E+00 16 .0000E+00
1756 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
1756 .0000E+00 23 .0000E+00 24 .0000E+00

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.0000E+00  23 .0000E+00  24 .0000E+00
1757                                     DAY OF WEEK = SUNDAY
1758   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
1759   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
1760  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1761 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1762 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1763
                                     PAGE  31
1764 *** MODELOPTs:   NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1765
1766      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1767
1768 SOURCE ID = 405N0750      ; SOURCE TYPE = VOLUME      :
1769   HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
1770  - - - - -
      - - - - -
1771                                     DAY OF WEEK = WEEKDAY
1772   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .7200E+01
1773   9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
1774  17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1775                                     DAY OF WEEK = SATURDAY
1776   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
1777   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
1778  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1779                                     DAY OF WEEK = SUNDAY
1780   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
1781   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
1782  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
1783 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1784 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1785
                                     PAGE  32
1786 *** MODELOPTs:   NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1787
1788      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1789
1790 SOURCE ID = 405N0751      ; SOURCE TYPE = VOLUME      :
1791   HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
1792  - - - - -
      - - - - -
1793                                     DAY OF WEEK = WEEKDAY
1794   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .7200E+01

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1795      9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
1796     17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1797                                     DAY OF WEEK = SATURDAY
1798      1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
1799      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1800     17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1801                                     DAY OF WEEK = SUNDAY
1802      1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
1803      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1804     17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1805 FF *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
      I-405 *** 12/13/22
1806 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1807
                                     PAGE 33
1808 *** MODELOPTs: NonDEFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1809
1810 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1811
1812 SOURCE ID = 405N0752 ; SOURCE TYPE = VOLUME :
1813 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
      SCALAR HOUR SCALAR HOUR SCALAR
1814 - - - - -
      - - - - -
1815                                     DAY OF WEEK = WEEKDAY
1816      1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .7200E+01
1817      9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
1818     17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1819                                     DAY OF WEEK = SATURDAY
1820      1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
1821      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1822     17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1823                                     DAY OF WEEK = SUNDAY
1824      1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
1825      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
1826     17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
1827 FF *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
      I-405 *** 12/13/22
1828 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
1829
                                     PAGE 34
1830 *** MODELOPTs: NonDEFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1831
1832 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

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WEEK (HRDOW) *

1833

1834

1835

SOURCE ID = 405N0753 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

1836

1837

DAY OF WEEK = WEEKDAY

1838

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

1839

9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

1840

17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1841

DAY OF WEEK = SATURDAY

1842

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

1843

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

1844

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1845

DAY OF WEEK = SUNDAY

1846

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

1847

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

1848

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1849

*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 12/13/22

1850

*** AERMET - VERSION 16216 ***

17:15:37

1851

PAGE 35

1852

*** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

1853

1854

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

1855

1856

SOURCE ID = 405N0754 ; SOURCE TYPE = VOLUME :

1857

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

1858

1859

DAY OF WEEK = WEEKDAY

1860

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

1861

9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

1862

17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1863

DAY OF WEEK = SATURDAY

1864

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

1865

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

1866

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

1867

DAY OF WEEK = SUNDAY

1868

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

1869

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

1870

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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1871 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1872 *** AERMET - VERSION 16216 ***
***
17:15:37
1873
PAGE 36
1874 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1875
1876 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
1877
1878 SOURCE ID = 405N0755 ; SOURCE TYPE = VOLUME :
1879 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
1880 - - - - -
1881 DAY OF WEEK = WEEKDAY
1882 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
1883 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
1884 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1885 DAY OF WEEK = SATURDAY
1886 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
1887 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
1888 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1889 DAY OF WEEK = SUNDAY
1890 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
1891 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
1892 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1893 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1894 *** AERMET - VERSION 16216 ***
***
17:15:37
1895
PAGE 37
1896 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1897
1898 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
1899
1900 SOURCE ID = 405N0756 ; SOURCE TYPE = VOLUME :
1901 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
1902 - - - - -
1903 DAY OF WEEK = WEEKDAY
1904 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
1905 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
1906 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1907 DAY OF WEEK = SATURDAY
1908 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
1909 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

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.0000E+00 15 .0000E+00 16 .0000E+00
1910 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1911 DAY OF WEEK = SUNDAY
1912 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
1913 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
1914 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1915 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1916 *** AERMET - VERSION 16216 ***
***
17:15:37
1917
PAGE 38
1918 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1919
1920 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
1921
1922 SOURCE ID = 405N0757 ; SOURCE TYPE = VOLUME :
1923 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
1924 - - - - -
- - - - -
1925 DAY OF WEEK = WEEKDAY
1926 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
1927 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
1928 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1929 DAY OF WEEK = SATURDAY
1930 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
1931 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
1932 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1933 DAY OF WEEK = SUNDAY
1934 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
1935 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
1936 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
1937 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
1938 *** AERMET - VERSION 16216 ***
***
17:15:37
1939
PAGE 39
1940 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
1941
1942 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
1943
1944 SOURCE ID = 405N0758 ; SOURCE TYPE = VOLUME :
1945 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
1946 - - - - -
- - - - -
1947 DAY OF WEEK = WEEKDAY

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1948      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .7200E+01
1949      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
        .7200E+01     15 .7200E+01     16 .7200E+01
1950     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
1951
1952      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .0000E+00
1953      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
        .0000E+00     15 .0000E+00     16 .0000E+00
1954     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
1955
1956      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .0000E+00
1957      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
        .0000E+00     15 .0000E+00     16 .0000E+00
1958     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
1959  *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1960  *** AERMET - VERSION 16216 ***
***
17:15:37
1961
                                     PAGE 40
1962  *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
1963
1964      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
        WEEK (HRDOW) *
1965
1966  SOURCE ID = 405N0759      ; SOURCE TYPE = VOLUME      :
1967      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
        SCALAR  HOUR  SCALAR  HOUR  SCALAR
1968  - - - - -
1969
1970      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .7200E+01
1971      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
        .7200E+01     15 .7200E+01     16 .7200E+01
1972     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
1973
1974      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .0000E+00
1975      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
        .0000E+00     15 .0000E+00     16 .0000E+00
1976     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
1977
1978      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .0000E+00
1979      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
        .0000E+00     15 .0000E+00     16 .0000E+00
1980     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
1981  *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
1982  *** AERMET - VERSION 16216 ***
***
17:15:37
1983
                                     PAGE 41
1984  *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*

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1985
1986      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
1987
1988 SOURCE ID = 405N0760      ; SOURCE TYPE = VOLUME      :
1989   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
1990   SCALAR   HOUR   SCALAR   HOUR   SCALAR
1991   - - - - -
1992                                     DAY OF WEEK = WEEKDAY
1992     1 .0000E+00     2 .0000E+00     3 .0000E+00     4 .0000E+00     5 .0000E+00     6
1993     .0000E+00     7 .0000E+00     8 .7200E+01
1993     9 .7200E+01    10 .7200E+01    11 .7200E+01    12 .7200E+01    13 .7200E+01    14
1994     .7200E+01    15 .7200E+01    16 .7200E+01
1994    17 .7200E+01    18 .0000E+00    19 .0000E+00    20 .0000E+00    21 .0000E+00    22
1995     .0000E+00    23 .0000E+00    24 .0000E+00
1996                                     DAY OF WEEK = SATURDAY
1996     1 .0000E+00     2 .0000E+00     3 .0000E+00     4 .0000E+00     5 .0000E+00     6
1997     .0000E+00     7 .0000E+00     8 .0000E+00
1997     9 .0000E+00    10 .0000E+00    11 .0000E+00    12 .0000E+00    13 .0000E+00    14
1998     .0000E+00    15 .0000E+00    16 .0000E+00
1998    17 .0000E+00    18 .0000E+00    19 .0000E+00    20 .0000E+00    21 .0000E+00    22
1999     .0000E+00    23 .0000E+00    24 .0000E+00
2000                                     DAY OF WEEK = SUNDAY
2000     1 .0000E+00     2 .0000E+00     3 .0000E+00     4 .0000E+00     5 .0000E+00     6
2001     .0000E+00     7 .0000E+00     8 .0000E+00
2001     9 .0000E+00    10 .0000E+00    11 .0000E+00    12 .0000E+00    13 .0000E+00    14
2002     .0000E+00    15 .0000E+00    16 .0000E+00
2002    17 .0000E+00    18 .0000E+00    19 .0000E+00    20 .0000E+00    21 .0000E+00    22
2003     .0000E+00    23 .0000E+00    24 .0000E+00
2003 FF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
2004 I-405      ***      12/13/22
2004 *** AERMET - VERSION 16216 ***
2005 ***
2005 17:15:37
2006
2007                                     PAGE 42
2008 *** MODELOPTs:      NonDEFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2009
2010      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
2011      WEEK (HRDOW) *
2012
2013 SOURCE ID = 405N0761      ; SOURCE TYPE = VOLUME      :
2014   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
2015   SCALAR   HOUR   SCALAR   HOUR   SCALAR
2016   - - - - -
2017                                     DAY OF WEEK = WEEKDAY
2018     1 .0000E+00     2 .0000E+00     3 .0000E+00     4 .0000E+00     5 .0000E+00     6
2019     .0000E+00     7 .0000E+00     8 .7200E+01
2020     9 .7200E+01    10 .7200E+01    11 .7200E+01    12 .7200E+01    13 .7200E+01    14
2021     .7200E+01    15 .7200E+01    16 .7200E+01
2022    17 .7200E+01    18 .0000E+00    19 .0000E+00    20 .0000E+00    21 .0000E+00    22
2023     .0000E+00    23 .0000E+00    24 .0000E+00
2024                                     DAY OF WEEK = SATURDAY
2025     1 .0000E+00     2 .0000E+00     3 .0000E+00     4 .0000E+00     5 .0000E+00     6
2026     .0000E+00     7 .0000E+00     8 .0000E+00
2027     9 .0000E+00    10 .0000E+00    11 .0000E+00    12 .0000E+00    13 .0000E+00    14
2028     .0000E+00    15 .0000E+00    16 .0000E+00
2029    17 .0000E+00    18 .0000E+00    19 .0000E+00    20 .0000E+00    21 .0000E+00    22
2030     .0000E+00    23 .0000E+00    24 .0000E+00
2031                                     DAY OF WEEK = SUNDAY
2032     1 .0000E+00     2 .0000E+00     3 .0000E+00     4 .0000E+00     5 .0000E+00     6
2033     .0000E+00     7 .0000E+00     8 .0000E+00
2034     9 .0000E+00    10 .0000E+00    11 .0000E+00    12 .0000E+00    13 .0000E+00    14
2035     .0000E+00    15 .0000E+00    16 .0000E+00

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2024 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2025 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2026 *** AERMET - VERSION 16216 ***

17:15:37
2027
PAGE 43
2028 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2029
2030 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2031
2032 SOURCE ID = 405N0762 ; SOURCE TYPE = VOLUME :
2033 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
2034 - - - - -
- - - - -
2035 DAY OF WEEK = WEEKDAY
2036 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
2037 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
2038 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2039 DAY OF WEEK = SATURDAY
2040 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2041 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2042 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2043 DAY OF WEEK = SUNDAY
2044 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2045 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2046 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2047 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2048 *** AERMET - VERSION 16216 ***

17:15:37
2049
PAGE 44
2050 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2051
2052 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2053
2054 SOURCE ID = 405N0763 ; SOURCE TYPE = VOLUME :
2055 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
2056 - - - - -
- - - - -
2057 DAY OF WEEK = WEEKDAY
2058 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
2059 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
2060 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2061 DAY OF WEEK = SATURDAY
2062 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

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.0000E+00    7 .0000E+00    8 .0000E+00
2063    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
2064   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2065
2066    1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
2067    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
2068   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2069  *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2070  *** AERMET - VERSION 16216 ***
***
17:15:37
2071
                                     PAGE 45
2072  *** MODELOPTs:   NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2073
2074      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2075
2076  SOURCE ID = 405N0764      ; SOURCE TYPE = VOLUME      :
2077    HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR
2078  - - - - -
- - - - -
2079
2080                                     DAY OF WEEK = WEEKDAY
    1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .7200E+01
2081    9 .7200E+01   10 .7200E+01   11 .7200E+01   12 .7200E+01   13 .7200E+01   14
.7200E+01   15 .7200E+01   16 .7200E+01
2082   17 .7200E+01   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2083
2084                                     DAY OF WEEK = SATURDAY
    1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
2085    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
2086   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2087
2088                                     DAY OF WEEK = SUNDAY
    1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
2089    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
2090   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2091  *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2092  *** AERMET - VERSION 16216 ***
***
17:15:37
2093
                                     PAGE 46
2094  *** MODELOPTs:   NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2095
2096      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2097
2098  SOURCE ID = 405N0765      ; SOURCE TYPE = VOLUME      :
2099    HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR
2100  - - - - -

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2101                                     DAY OF WEEK = WEEKDAY
2102      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
2103      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
2104     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2105                                     DAY OF WEEK = SATURDAY
2106      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2107      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2108     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2109                                     DAY OF WEEK = SUNDAY
2110      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2111      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2112     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2113 RF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2114      *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2115
                                     PAGE 47
2116      *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2117
2118      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2119
2120      SOURCE ID = 405N0766      ; SOURCE TYPE = VOLUME      :
2121      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR
      SCALAR      HOUR      SCALAR      HOUR      SCALAR
2122      - - - - -
2123                                     DAY OF WEEK = WEEKDAY
2124      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
2125      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
2126     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2127                                     DAY OF WEEK = SATURDAY
2128      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2129      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2130     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2131                                     DAY OF WEEK = SUNDAY
2132      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2133      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2134     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2135 RF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2136      *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2137

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2138 PAGE 48
 2139 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
 2140 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
 WEEK (HRDOW) *

2141
 2142 SOURCE ID = 405N0767 ; SOURCE TYPE = VOLUME :
 2143 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
 SCALAR HOUR SCALAR HOUR SCALAR
 2144 - - - - -
 - - - - -

2145 DAY OF WEEK = WEEKDAY
 2146 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .7200E+01
 2147 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
 .7200E+01 15 .7200E+01 16 .7200E+01
 2148 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2149 DAY OF WEEK = SATURDAY
 2150 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00
 2151 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
 .0000E+00 15 .0000E+00 16 .0000E+00
 2152 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2153 DAY OF WEEK = SUNDAY
 2154 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00
 2155 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
 .0000E+00 15 .0000E+00 16 .0000E+00
 2156 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2157 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
 I-405 *** 12/13/22
 2158 *** AERMET - VERSION 16216 ***

 17:15:37

2159
 2160 PAGE 49
 2161 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
 2162 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
 WEEK (HRDOW) *

2163
 2164 SOURCE ID = 405S0676 ; SOURCE TYPE = VOLUME :
 2165 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
 SCALAR HOUR SCALAR HOUR SCALAR
 2166 - - - - -
 - - - - -

2167 DAY OF WEEK = WEEKDAY
 2168 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .7200E+01
 2169 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
 .7200E+01 15 .7200E+01 16 .7200E+01
 2170 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2171 DAY OF WEEK = SATURDAY
 2172 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00
 2173 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
 .0000E+00 15 .0000E+00 16 .0000E+00
 2174 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2175 DAY OF WEEK = SUNDAY
 2176 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00

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2177      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2178      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2179 ERR *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2180      *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2181
                                     PAGE 50
2182      *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2183
2184      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2185
2186      SOURCE ID = 405S0677      ; SOURCE TYPE = VOLUME      :
2187      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
2188      - - - - -
      - - - - -
2189                                     DAY OF WEEK = WEEKDAY
2190      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
2191      9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
2192      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2193                                     DAY OF WEEK = SATURDAY
2194      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2195      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2196      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2197                                     DAY OF WEEK = SUNDAY
2198      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2199      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2200      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2201 ERR *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2202      *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2203
                                     PAGE 51
2204      *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2205
2206      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2207
2208      SOURCE ID = 405S0678      ; SOURCE TYPE = VOLUME      :
2209      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
2210      - - - - -
      - - - - -
2211                                     DAY OF WEEK = WEEKDAY
2212      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
2213      9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
2214      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00

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2215                                     DAY OF WEEK = SATURDAY
2216      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2217      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2218     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2219                                     DAY OF WEEK = SUNDAY
2220      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2221      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2222     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2223 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2224 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2225
                                     PAGE 52
2226 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2227
2228      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2229
2230 SOURCE ID = 405S0679      ; SOURCE TYPE = VOLUME      :
2231 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
2232 - - - - -
      - - - - -
2233                                     DAY OF WEEK = WEEKDAY
2234      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
2235      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
2236     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2237                                     DAY OF WEEK = SATURDAY
2238      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2239      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2240     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2241                                     DAY OF WEEK = SUNDAY
2242      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2243      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2244     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2245 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2246 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2247
                                     PAGE 53
2248 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2249
2250      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2251
2252 SOURCE ID = 405S0680      ; SOURCE TYPE = VOLUME      :
2253 HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR

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	SCALAR	HOUR	SCALAR	HOUR	SCALAR						
2254	-----										
2255	DAY OF WEEK = WEEKDAY										
2256	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.7200E+01					
2257	9	.7200E+01	10	.7200E+01	11	.7200E+01	12	.7200E+01	13	.7200E+01	14
		.7200E+01	15	.7200E+01	16	.7200E+01					
2258	17	.7200E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
2259	DAY OF WEEK = SATURDAY										
2260	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.0000E+00					
2261	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
		.0000E+00	15	.0000E+00	16	.0000E+00					
2262	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
2263	DAY OF WEEK = SUNDAY										
2264	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.0000E+00					
2265	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
		.0000E+00	15	.0000E+00	16	.0000E+00					
2266	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
2267	*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From										
	I-405 *** 12/13/22										
2268	*** AERMET - VERSION 16216 ***										

	17:15:37										
2269											
	PAGE 54										
2270	*** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*										
2271											
2272	* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF										
	WEEK (HRDOW) *										
2273											
2274	SOURCE ID = 405S0681 ; SOURCE TYPE = VOLUME :										
2275	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
	SCALAR	HOUR	SCALAR	HOUR	SCALAR						
2276	-----										

2277	DAY OF WEEK = WEEKDAY										
2278	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.7200E+01					
2279	9	.7200E+01	10	.7200E+01	11	.7200E+01	12	.7200E+01	13	.7200E+01	14
		.7200E+01	15	.7200E+01	16	.7200E+01					
2280	17	.7200E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
2281	DAY OF WEEK = SATURDAY										
2282	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.0000E+00					
2283	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
		.0000E+00	15	.0000E+00	16	.0000E+00					
2284	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
2285	DAY OF WEEK = SUNDAY										
2286	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.0000E+00					
2287	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
		.0000E+00	15	.0000E+00	16	.0000E+00					
2288	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
2289	*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From										
	I-405 *** 12/13/22										
2290	*** AERMET - VERSION 16216 ***										

17:15:37

2291

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2292 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

2293

2294 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

2295

2296 SOURCE ID = 405S0682 ; SOURCE TYPE = VOLUME :

2297 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

2298 - - - - -
- - - - -

2299 DAY OF WEEK = WEEKDAY

2300 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

2301 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

2302 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2303 DAY OF WEEK = SATURDAY

2304 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

2305 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

2306 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2307 DAY OF WEEK = SUNDAY

2308 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

2309 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

2310 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2311 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 12/13/22

2312 *** AERMET - VERSION 16216 ***

17:15:37

2313

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2314 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

2315

2316 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

2317

2318 SOURCE ID = 405S0683 ; SOURCE TYPE = VOLUME :

2319 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

2320 - - - - -
- - - - -

2321 DAY OF WEEK = WEEKDAY

2322 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

2323 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

2324 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2325 DAY OF WEEK = SATURDAY

2326 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

2327 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

2328 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2329 DAY OF WEEK = SUNDAY

2330 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2331 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2332 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2333 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2334 *** AERMET - VERSION 16216 ***
*** ***
17:15:37
2335
PAGE 57
2336 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2337
2338 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2339
2340 SOURCE ID = 405S0684 ; SOURCE TYPE = VOLUME :
2341 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
2342 - - - - -
- - - - -
2343 DAY OF WEEK = WEEKDAY
2344 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
2345 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
2346 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2347 DAY OF WEEK = SATURDAY
2348 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2349 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2350 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2351 DAY OF WEEK = SUNDAY
2352 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2353 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2354 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2355 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2356 *** AERMET - VERSION 16216 ***
*** ***
17:15:37
2357
PAGE 58
2358 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2359
2360 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2361
2362 SOURCE ID = 405S0685 ; SOURCE TYPE = VOLUME :
2363 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
2364 - - - - -
- - - - -
2365 DAY OF WEEK = WEEKDAY
2366 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
2367 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

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2368      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2369
2370      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2371      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
2372      17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2373
2374      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2375      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
2376      17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2377 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2378 *** AERMET - VERSION 16216 ***
***
17:15:37
2379
2380      *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2381
2382      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
2383      WEEK (HRDOW) *
2384 SOURCE ID = 405S0686      ; SOURCE TYPE = VOLUME      :
2385      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
2386      SCALAR  HOUR  SCALAR  HOUR  SCALAR
2387      - - - - -
2388      - - - - -
2389
2390      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
2391      9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
2392      17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2393
2394      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2395      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
2396      17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2397
2398      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2399      9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
2400      17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2401 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2402 *** AERMET - VERSION 16216 ***
***
17:15:37
2403
2404      *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2405
2406      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
2407      WEEK (HRDOW) *
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2499
2500

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2406 SOURCE ID = 405S0687 ; SOURCE TYPE = VOLUME :
2407 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
2408 SCALAR HOUR SCALAR HOUR SCALAR
-----
2409 DAY OF WEEK = WEEKDAY
2410 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .7200E+01
2411 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
2412 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2413 DAY OF WEEK = SATURDAY
2414 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
2415 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
2416 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2417 DAY OF WEEK = SUNDAY
2418 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
2419 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
2420 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2421 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2422 *** AERMET - VERSION 16216 ***
*** ***
17:15:37
2423
PAGE 61
2424 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2425
2426 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2427
2428 SOURCE ID = 405S0688 ; SOURCE TYPE = VOLUME :
2429 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
2430 SCALAR HOUR SCALAR HOUR SCALAR
-----
2431 DAY OF WEEK = WEEKDAY
2432 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .7200E+01
2433 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
      .7200E+01 15 .7200E+01 16 .7200E+01
2434 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2435 DAY OF WEEK = SATURDAY
2436 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
2437 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
2438 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2439 DAY OF WEEK = SUNDAY
2440 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
      .0000E+00 7 .0000E+00 8 .0000E+00
2441 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
      .0000E+00 15 .0000E+00 16 .0000E+00
2442 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
      .0000E+00 23 .0000E+00 24 .0000E+00
2443 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22

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2444 *** AERMET - VERSION 16216 ***
2445 ***
2446 17:15:37
2447
2448 PAGE 62
2449 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2450
2451 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
2452 WEEK (HRDOW) *
2453
2454 SOURCE ID = 405S0689 ; SOURCE TYPE = VOLUME :
2455 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
2456 SCALAR HOUR SCALAR HOUR SCALAR
2457 - - - - -
2458 - - - - -
2459 DAY OF WEEK = WEEKDAY
2460 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
2461 .0000E+00 7 .0000E+00 8 .7200E+01
2462 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
2463 .7200E+01 15 .7200E+01 16 .7200E+01
2464 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
2465 .0000E+00 23 .0000E+00 24 .0000E+00
2466 DAY OF WEEK = SATURDAY
2467 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
2468 .0000E+00 7 .0000E+00 8 .0000E+00
2469 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
2470 .0000E+00 15 .0000E+00 16 .0000E+00
2471 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
2472 .0000E+00 23 .0000E+00 24 .0000E+00
2473 DAY OF WEEK = SUNDAY
2474 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
2475 .0000E+00 7 .0000E+00 8 .0000E+00
2476 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
2477 .0000E+00 15 .0000E+00 16 .0000E+00
2478 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
2479 .0000E+00 23 .0000E+00 24 .0000E+00
2480 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
2481 I-405 *** 12/13/22
2482 *** AERMET - VERSION 16216 ***
2483 ***
2484 17:15:37
2485
2486 PAGE 63
2487 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2488
2489 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
2490 WEEK (HRDOW) *
2491
2492 SOURCE ID = 405S0690 ; SOURCE TYPE = VOLUME :
2493 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
2494 SCALAR HOUR SCALAR HOUR SCALAR
2495 - - - - -
2496 - - - - -
2497 DAY OF WEEK = WEEKDAY
2498 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
2499 .0000E+00 7 .0000E+00 8 .7200E+01
2500 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
2501 .7200E+01 15 .7200E+01 16 .7200E+01
2502 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
2503 .0000E+00 23 .0000E+00 24 .0000E+00
2504 DAY OF WEEK = SATURDAY
2505 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
2506 .0000E+00 7 .0000E+00 8 .0000E+00
2507 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
2508 .0000E+00 15 .0000E+00 16 .0000E+00
2509 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
2510 .0000E+00 23 .0000E+00 24 .0000E+00

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.0000E+00  23 .0000E+00  24 .0000E+00
2483                                     DAY OF WEEK = SUNDAY
2484   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
2485   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2486  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2487 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2488 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2489
                                     PAGE  64
2490 *** MODELOPTs:   NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2491
2492      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2493
2494 SOURCE ID = 405S0691      ; SOURCE TYPE = VOLUME      :
2495   HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
2496 - - - - -
      - - - - -
2497                                     DAY OF WEEK = WEEKDAY
2498   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .7200E+01
2499   9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
2500  17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2501                                     DAY OF WEEK = SATURDAY
2502   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
2503   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2504  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2505                                     DAY OF WEEK = SUNDAY
2506   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
2507   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2508  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2509 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2510 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2511
                                     PAGE  65
2512 *** MODELOPTs:   NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2513
2514      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2515
2516 SOURCE ID = 405S0692      ; SOURCE TYPE = VOLUME      :
2517   HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
2518 - - - - -
      - - - - -
2519                                     DAY OF WEEK = WEEKDAY
2520   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .7200E+01

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2521      9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
2522     17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2523                                     DAY OF WEEK = SATURDAY
2524      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2525      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2526     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2527                                     DAY OF WEEK = SUNDAY
2528      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2529      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2530     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2531  *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2532  *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2533
                                     PAGE 66
2534  *** MODELOPTs:      NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2535
2536      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2537
2538  SOURCE ID = 405S0693      ; SOURCE TYPE = VOLUME      :
2539  HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR
      SCALAR      HOUR      SCALAR      HOUR      SCALAR
2540  - - - - -
      - - - - -
2541                                     DAY OF WEEK = WEEKDAY
2542      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
2543      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
2544     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2545                                     DAY OF WEEK = SATURDAY
2546      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2547      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2548     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2549                                     DAY OF WEEK = SUNDAY
2550      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2551      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2552     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2553  *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2554  *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2555
                                     PAGE 67
2556  *** MODELOPTs:      NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2557
2558      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

```

WEEK (HRDOW) *

2559

2560

2561

SOURCE ID = 405S0694 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

2562

2563

DAY OF WEEK = WEEKDAY

2564

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

2565

9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

2566

17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2567

DAY OF WEEK = SATURDAY

2568

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

2569

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

2570

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2571

DAY OF WEEK = SUNDAY

2572

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

2573

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

2574

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2575

*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 12/13/22

2576

*** AERMET - VERSION 16216 ***

17:15:37

2577

PAGE 68

2578

*** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

2579

2580

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

2581

2582

SOURCE ID = 405S0695 ; SOURCE TYPE = VOLUME :

2583

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

2584

2585

DAY OF WEEK = WEEKDAY

2586

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

2587

9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

2588

17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2589

DAY OF WEEK = SATURDAY

2590

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

2591

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

2592

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

2593

DAY OF WEEK = SUNDAY

2594

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

2595

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

2596

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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2597 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2598 *** AERMET - VERSION 16216 ***
***
17:15:37
2599
PAGE 69
2600 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2601
2602 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2603
2604 SOURCE ID = 405S0696 ; SOURCE TYPE = VOLUME :
2605 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
2606 - - - - -
2607 DAY OF WEEK = WEEKDAY
2608 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
2609 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
2610 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2611 DAY OF WEEK = SATURDAY
2612 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2613 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2614 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2615 DAY OF WEEK = SUNDAY
2616 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2617 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2618 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2619 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2620 *** AERMET - VERSION 16216 ***
***
17:15:37
2621
PAGE 70
2622 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2623
2624 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2625
2626 SOURCE ID = 405S0697 ; SOURCE TYPE = VOLUME :
2627 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
2628 - - - - -
2629 DAY OF WEEK = WEEKDAY
2630 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
2631 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
2632 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2633 DAY OF WEEK = SATURDAY
2634 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2635 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

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.0000E+00 15 .0000E+00 16 .0000E+00
2636 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2637 DAY OF WEEK = SUNDAY
2638 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2639 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2640 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2641 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2642 *** AERMET - VERSION 16216 ***
***
17:15:37
2643
PAGE 71
2644 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2645
2646 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2647
SOURCE ID = 405S0698 ; SOURCE TYPE = VOLUME :
2648 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
2649 SCALAR HOUR SCALAR HOUR SCALAR
2650 - - - - -
- - - - -
2651 DAY OF WEEK = WEEKDAY
2652 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
2653 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
2654 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2655 DAY OF WEEK = SATURDAY
2656 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2657 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2658 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2659 DAY OF WEEK = SUNDAY
2660 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2661 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2662 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2663 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2664 *** AERMET - VERSION 16216 ***
***
17:15:37
2665
PAGE 72
2666 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2667
2668 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2669
SOURCE ID = 405S0699 ; SOURCE TYPE = VOLUME :
2670 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
2671 SCALAR HOUR SCALAR HOUR SCALAR
2672 - - - - -
- - - - -
2673 DAY OF WEEK = WEEKDAY

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2674 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
2675 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
2676 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2677 DAY OF WEEK = SATURDAY
2678 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2679 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2680 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2681 DAY OF WEEK = SUNDAY
2682 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2683 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2684 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2685 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2686 *** AERMET - VERSION 16216 *** ***
*** 17:15:37
2687
PAGE 73
2688 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2689
2690 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2691
2692 SOURCE ID = 405S0700 ; SOURCE TYPE = VOLUME :
2693 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
2694 - - - - -
2695 DAY OF WEEK = WEEKDAY
2696 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01
2697 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01
2698 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2699 DAY OF WEEK = SATURDAY
2700 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2701 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2702 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2703 DAY OF WEEK = SUNDAY
2704 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
2705 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
2706 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
2707 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2708 *** AERMET - VERSION 16216 *** ***
*** 17:15:37
2709
PAGE 74
2710 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

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2711
2712          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                WEEK (HRDOW) *

2713
2714 SOURCE ID = 405S0701      ; SOURCE TYPE = VOLUME      :
2715   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
2716   SCALAR   HOUR   SCALAR   HOUR   SCALAR
2717   - - - - -
2718                                     DAY OF WEEK = WEEKDAY
2719   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
2720   .0000E+00   7 .0000E+00   8 .7200E+01
2721   9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
2722   .7200E+01  15 .7200E+01  16 .7200E+01
2723   17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
2724   .0000E+00  23 .0000E+00  24 .0000E+00
2725                                     DAY OF WEEK = SATURDAY
2726   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
2727   .0000E+00   7 .0000E+00   8 .0000E+00
2728   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
2729   .0000E+00  15 .0000E+00  16 .0000E+00
2730   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
2731   .0000E+00  23 .0000E+00  24 .0000E+00
2732                                     DAY OF WEEK = SUNDAY
2733   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
2734   .0000E+00   7 .0000E+00   8 .0000E+00
2735   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
2736   .0000E+00  15 .0000E+00  16 .0000E+00
2737   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
2738   .0000E+00  23 .0000E+00  24 .0000E+00
2739 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
2740 I-405 ***      12/13/22
2741 *** AERMET - VERSION 16216 ***
2742 ***
2743 ***
2744 17:15:37
2745
2746                                     PAGE 75
2747 *** MODELOPTs:   NonDEFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2748
2749          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                WEEK (HRDOW) *

2750
2751 SOURCE ID = 405S0702      ; SOURCE TYPE = VOLUME      :
2752   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
2753   SCALAR   HOUR   SCALAR   HOUR   SCALAR
2754   - - - - -
2755                                     DAY OF WEEK = WEEKDAY
2756   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
2757   .0000E+00   7 .0000E+00   8 .7200E+01
2758   9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
2759   .7200E+01  15 .7200E+01  16 .7200E+01
2760   17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
2761   .0000E+00  23 .0000E+00  24 .0000E+00
2762                                     DAY OF WEEK = SATURDAY
2763   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
2764   .0000E+00   7 .0000E+00   8 .0000E+00
2765   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
2766   .0000E+00  15 .0000E+00  16 .0000E+00
2767   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
2768   .0000E+00  23 .0000E+00  24 .0000E+00
2769                                     DAY OF WEEK = SUNDAY
2770   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
2771   .0000E+00   7 .0000E+00   8 .0000E+00
2772   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
2773   .0000E+00  15 .0000E+00  16 .0000E+00

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2750      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2751 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405      ***      12/13/22
2752 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2753
      PAGE 76
2754 *** MODELOPTs:      NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2755
2756      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2757
2758 SOURCE ID = 405S0703      ; SOURCE TYPE = VOLUME      :
2759      HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
      SCALAR HOUR SCALAR HOUR SCALAR
2760      - - - - -
      - - - - -
2761
      DAY OF WEEK = WEEKDAY
2762      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
2763      9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
2764      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2765
      DAY OF WEEK = SATURDAY
2766      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2767      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2768      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2769
      DAY OF WEEK = SUNDAY
2770      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2771      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2772      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2773 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405      ***      12/13/22
2774 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2775
      PAGE 77
2776 *** MODELOPTs:      NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2777
2778      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2779
2780 SOURCE ID = 405S0704      ; SOURCE TYPE = VOLUME      :
2781      HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
      SCALAR HOUR SCALAR HOUR SCALAR
2782      - - - - -
      - - - - -
2783
      DAY OF WEEK = WEEKDAY
2784      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
2785      9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
2786      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2787
      DAY OF WEEK = SATURDAY
2788      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6

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.0000E+00    7 .0000E+00    8 .0000E+00
2789    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
2790   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2791
2792    1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
2793    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
2794   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2795 RF *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2796 *** AERMET - VERSION 16216 ***
***
17:15:37
2797
PAGE 78
2798 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2799
2800 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2801
2802 SOURCE ID = 405S0705 ; SOURCE TYPE = VOLUME :
2803 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
2804 - - - - -
2805 DAY OF WEEK = WEEKDAY
2806    1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .7200E+01
2807    9 .7200E+01   10 .7200E+01   11 .7200E+01   12 .7200E+01   13 .7200E+01   14
.7200E+01   15 .7200E+01   16 .7200E+01
2808   17 .7200E+01   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2809 DAY OF WEEK = SATURDAY
2810    1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
2811    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
2812   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2813 DAY OF WEEK = SUNDAY
2814    1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
2815    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
2816   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
2817 RF *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
2818 *** AERMET - VERSION 16216 ***
***
17:15:37
2819
PAGE 79
2820 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
2821
2822 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
2823
2824 SOURCE ID = 405S0706 ; SOURCE TYPE = VOLUME :
2825 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
2826 - - - - -

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2827                                     DAY OF WEEK = WEEKDAY
2828      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
2829      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
2830     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2831                                     DAY OF WEEK = SATURDAY
2832      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2833      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2834     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2835                                     DAY OF WEEK = SUNDAY
2836      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2837      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2838     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2839 RF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2840 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2841
                                     PAGE 80
2842 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2843
2844      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2845
2846 SOURCE ID = 405S0707      ; SOURCE TYPE = VOLUME      :
2847      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR
      SCALAR      HOUR      SCALAR      HOUR      SCALAR
2848 - - - - -
2849                                     DAY OF WEEK = WEEKDAY
2850      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
2851      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
2852     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2853                                     DAY OF WEEK = SATURDAY
2854      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2855      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2856     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2857                                     DAY OF WEEK = SUNDAY
2858      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2859      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2860     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2861 RF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2862 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2863

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2864 PAGE 81
 2865 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
 2866 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
 WEEK (HRDOW) *

2867
 2868 SOURCE ID = 405S0708 ; SOURCE TYPE = VOLUME :
 2869 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
 SCALAR HOUR SCALAR HOUR SCALAR
 2870 - - - - -
 - - - - -

2871 DAY OF WEEK = WEEKDAY
 2872 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .7200E+01
 2873 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
 .7200E+01 15 .7200E+01 16 .7200E+01
 2874 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2875 DAY OF WEEK = SATURDAY
 2876 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00
 2877 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
 .0000E+00 15 .0000E+00 16 .0000E+00
 2878 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2879 DAY OF WEEK = SUNDAY
 2880 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00
 2881 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
 .0000E+00 15 .0000E+00 16 .0000E+00
 2882 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2883 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
 I-405 *** 12/13/22
 2884 *** AERMET - VERSION 16216 ***

 17:15:37

2885
 2886 PAGE 82
 2887 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
 2888 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
 WEEK (HRDOW) *

2889
 2890 SOURCE ID = 405S0709 ; SOURCE TYPE = VOLUME :
 2891 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
 SCALAR HOUR SCALAR HOUR SCALAR
 2892 - - - - -
 - - - - -

2893 DAY OF WEEK = WEEKDAY
 2894 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .7200E+01
 2895 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
 .7200E+01 15 .7200E+01 16 .7200E+01
 2896 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2897 DAY OF WEEK = SATURDAY
 2898 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00
 2899 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
 .0000E+00 15 .0000E+00 16 .0000E+00
 2900 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
 .0000E+00 23 .0000E+00 24 .0000E+00

2901 DAY OF WEEK = SUNDAY
 2902 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
 .0000E+00 7 .0000E+00 8 .0000E+00

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2903      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2904      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2905 ERR *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2906      *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2907
                                     PAGE 83
2908      *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2909
2910      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2911
2912      SOURCE ID = 405S0710      ; SOURCE TYPE = VOLUME      :
2913      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
2914      - - - - -
      - - - - -
2915                                     DAY OF WEEK = WEEKDAY
2916      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
2917      9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
2918      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2919                                     DAY OF WEEK = SATURDAY
2920      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2921      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2922      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2923                                     DAY OF WEEK = SUNDAY
2924      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .0000E+00
2925      9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
      .0000E+00  15 .0000E+00  16 .0000E+00
2926      17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00
2927 ERR *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
2928      *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2929
                                     PAGE 84
2930      *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2931
2932      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2933
2934      SOURCE ID = 405S0711      ; SOURCE TYPE = VOLUME      :
2935      HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
      SCALAR  HOUR  SCALAR  HOUR  SCALAR
2936      - - - - -
      - - - - -
2937                                     DAY OF WEEK = WEEKDAY
2938      1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
      .0000E+00  7 .0000E+00  8 .7200E+01
2939      9 .7200E+01  10 .7200E+01  11 .7200E+01  12 .7200E+01  13 .7200E+01  14
      .7200E+01  15 .7200E+01  16 .7200E+01
2940      17 .7200E+01  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
      .0000E+00  23 .0000E+00  24 .0000E+00

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2941                                     DAY OF WEEK = SATURDAY
2942      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2943      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2944     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2945                                     DAY OF WEEK = SUNDAY
2946      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2947      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2948     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2949 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     12/13/22
2950 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2951
                                     PAGE 85
2952 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2953
2954      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2955
2956 SOURCE ID = 405S0712      ; SOURCE TYPE = VOLUME      :
2957   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
      SCALAR   HOUR   SCALAR   HOUR   SCALAR
2958   - - - - -
      - - - - -
2959                                     DAY OF WEEK = WEEKDAY
2960      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .7200E+01
2961      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
      .7200E+01     15 .7200E+01     16 .7200E+01
2962     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2963                                     DAY OF WEEK = SATURDAY
2964      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2965      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2966     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2967                                     DAY OF WEEK = SUNDAY
2968      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
      .0000E+00      7 .0000E+00      8 .0000E+00
2969      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
      .0000E+00     15 .0000E+00     16 .0000E+00
2970     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
      .0000E+00     23 .0000E+00     24 .0000E+00
2971 *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     12/13/22
2972 *** AERMET - VERSION 16216 ***
      ***
      17:15:37
2973
                                     PAGE 86
2974 *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
2975
2976      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
      WEEK (HRDOW) *
2977
2978 SOURCE ID = 405S0713      ; SOURCE TYPE = VOLUME      :
2979   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR

```

	SCALAR	HOUR	SCALAR	HOUR	SCALAR						
2980	-----										
2981	DAY OF WEEK = WEEKDAY										
2982	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.7200E+01					
2983	9	.7200E+01	10	.7200E+01	11	.7200E+01	12	.7200E+01	13	.7200E+01	14
		.7200E+01	15	.7200E+01	16	.7200E+01					
2984	17	.7200E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
2985	DAY OF WEEK = SATURDAY										
2986	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.0000E+00					
2987	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
		.0000E+00	15	.0000E+00	16	.0000E+00					
2988	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
2989	DAY OF WEEK = SUNDAY										
2990	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.0000E+00					
2991	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
		.0000E+00	15	.0000E+00	16	.0000E+00					
2992	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
2993	*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From										
	I-405 *** 12/13/22										
2994	*** AERMET - VERSION 16216 ***										

	17:15:37										
2995											
	PAGE 87										
2996	*** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*										
2997											
2998	* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF										
	WEEK (HRDOW) *										
2999											
3000	SOURCE ID = 405S0714 ; SOURCE TYPE = VOLUME :										
3001	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
	SCALAR	HOUR	SCALAR	HOUR	SCALAR						
3002	-----										

3003	DAY OF WEEK = WEEKDAY										
3004	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.7200E+01					
3005	9	.7200E+01	10	.7200E+01	11	.7200E+01	12	.7200E+01	13	.7200E+01	14
		.7200E+01	15	.7200E+01	16	.7200E+01					
3006	17	.7200E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
3007	DAY OF WEEK = SATURDAY										
3008	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.0000E+00					
3009	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
		.0000E+00	15	.0000E+00	16	.0000E+00					
3010	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
3011	DAY OF WEEK = SUNDAY										
3012	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
		.0000E+00	7	.0000E+00	8	.0000E+00					
3013	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
		.0000E+00	15	.0000E+00	16	.0000E+00					
3014	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
		.0000E+00	23	.0000E+00	24	.0000E+00					
3015	*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From										
	I-405 *** 12/13/22										
3016	*** AERMET - VERSION 16216 ***										

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3017

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3018 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

3019

3020 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

3021

3022 SOURCE ID = 405S0715 ; SOURCE TYPE = VOLUME :

3023 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

3024 - - - - -
- - - - -

3025 DAY OF WEEK = WEEKDAY

3026 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

3027 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

3028 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

3029 DAY OF WEEK = SATURDAY

3030 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

3031 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

3032 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

3033 DAY OF WEEK = SUNDAY

3034 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

3035 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

3036 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

3037 *** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 12/13/22

3038 *** AERMET - VERSION 16216 ***

*** ***

17:15:37

3039

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3040 *** MODELOPTs: NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*

3041

3042 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

3043

3044 SOURCE ID = 405S0716 ; SOURCE TYPE = VOLUME :

3045 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

3046 - - - - -
- - - - -

3047 DAY OF WEEK = WEEKDAY

3048 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .7200E+01

3049 9 .7200E+01 10 .7200E+01 11 .7200E+01 12 .7200E+01 13 .7200E+01 14
.7200E+01 15 .7200E+01 16 .7200E+01

3050 17 .7200E+01 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

3051 DAY OF WEEK = SATURDAY

3052 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

3053 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00

3054 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

3055 DAY OF WEEK = SUNDAY

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3056      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .0000E+00
3057      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
        .0000E+00     15 .0000E+00     16 .0000E+00
3058     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
3059 FF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
3060     *** AERMET - VERSION 16216 ***
        ***
        17:15:37
3061
                                     PAGE 90
3062     *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
3063
3064     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
        WEEK (HRDOW) *
3065
3066     SOURCE ID = 405S0717      ; SOURCE TYPE = VOLUME      :
3067     HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR
        SCALAR  HOUR   SCALAR  HOUR   SCALAR
3068     - - - - -
        - - - - -
3069                                     DAY OF WEEK = WEEKDAY
3070      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .7200E+01
3071      9 .7200E+01     10 .7200E+01     11 .7200E+01     12 .7200E+01     13 .7200E+01     14
        .7200E+01     15 .7200E+01     16 .7200E+01
3072     17 .7200E+01     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
3073                                     DAY OF WEEK = SATURDAY
3074      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .0000E+00
3075      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
        .0000E+00     15 .0000E+00     16 .0000E+00
3076     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
3077                                     DAY OF WEEK = SUNDAY
3078      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
        .0000E+00      7 .0000E+00      8 .0000E+00
3079      9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
        .0000E+00     15 .0000E+00     16 .0000E+00
3080     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
        .0000E+00     23 .0000E+00     24 .0000E+00
3081 FF *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405                                     ***      12/13/22
3082     *** AERMET - VERSION 16216 ***
        ***
        17:15:37
3083
                                     PAGE 91
3084     *** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
3085
3086     *** DISCRETE CARTESIAN RECEPTORS ***
3087     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
3088     (METERS)
3089
3090     ( 364522.0, 3789971.0,      235.0,      235.0,      0.0);      ( 364522.0,
        3789971.0,      235.0,      235.0,      0.0);
3091     ( 364523.0, 3789983.0,      235.0,      235.0,      0.0);      ( 364523.0,
        3789983.0,      235.0,      235.0,      0.0);
3092     ( 364523.0, 3789994.0,      235.0,      235.0,      0.0);      ( 364523.0,
        3789994.0,      235.0,      235.0,      0.0);
3093     ( 364523.0, 3790003.0,      235.0,      235.0,      0.0);      ( 364523.0,
        3790003.0,      235.0,      235.0,      0.0);
3094     ( 364540.0, 3789994.0,      235.0,      235.0,      0.0);      ( 364523.0,

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	3790020.0,	235.0,	235.0,	0.0);	
3095	(364523.0, 3790028.0,	235.0,	235.0,	0.0);	(364523.0,
	3790036.0,	235.0,	235.0,	0.0);	
3096	(364539.0, 3790025.0,	235.0,	235.0,	0.0);	(364539.0,
	3790035.0,	235.0,	235.0,	0.0);	
3097	(364565.0, 3790035.0,	235.0,	235.0,	0.0);	(364570.0,
	3790003.0,	235.0,	235.0,	0.0);	
3098	(364566.0, 3789991.0,	235.0,	235.0,	0.0);	(364565.0,
	3789968.0,	235.0,	235.0,	0.0);	
3099	(364546.0, 3789974.0,	235.0,	235.0,	0.0);	(364546.0,
	3789974.0,	235.0,	235.0,	0.0);	
3100	(364524.0, 3790013.0,	235.0,	235.0,	0.0);	(364524.0,
	3790013.0,	235.0,	235.0,	0.0);	
3101	(364551.0, 3790013.0,	235.0,	235.0,	0.0);	(364551.0,
	3790013.0,	235.0,	235.0,	0.0);	
3102	(364484.7, 3789924.9,	235.0,	235.0,	0.0);	(364494.7,
	3789924.9,	235.0,	235.0,	0.0);	
3103	(364504.7, 3789924.9,	235.0,	235.0,	0.0);	(364514.7,
	3789924.9,	235.0,	235.0,	0.0);	
3104	(364524.7, 3789924.9,	235.0,	235.0,	0.0);	(364534.7,
	3789924.9,	235.0,	235.0,	0.0);	
3105	(364544.7, 3789924.9,	235.0,	235.0,	0.0);	(364554.7,
	3789924.9,	235.0,	235.0,	0.0);	
3106	(364564.7, 3789924.9,	235.0,	235.0,	0.0);	(364574.7,
	3789924.9,	235.0,	235.0,	0.0);	
3107	(364484.7, 3789939.9,	235.0,	235.0,	0.0);	(364494.7,
	3789939.9,	235.0,	235.0,	0.0);	
3108	(364504.7, 3789939.9,	235.0,	235.0,	0.0);	(364514.7,
	3789939.9,	235.0,	235.0,	0.0);	
3109	(364524.7, 3789939.9,	235.0,	235.0,	0.0);	(364534.7,
	3789939.9,	235.0,	235.0,	0.0);	
3110	(364544.7, 3789939.9,	235.0,	235.0,	0.0);	(364554.7,
	3789939.9,	235.0,	235.0,	0.0);	
3111	(364564.7, 3789939.9,	235.0,	235.0,	0.0);	(364574.7,
	3789939.9,	235.0,	235.0,	0.0);	
3112	(364484.7, 3789954.9,	235.0,	235.0,	0.0);	(364494.7,
	3789954.9,	235.0,	235.0,	0.0);	
3113	(364504.7, 3789954.9,	235.0,	235.0,	0.0);	(364514.7,
	3789954.9,	235.0,	235.0,	0.0);	
3114	(364524.7, 3789954.9,	235.0,	235.0,	0.0);	(364534.7,
	3789954.9,	235.0,	235.0,	0.0);	
3115	(364544.7, 3789954.9,	235.0,	235.0,	0.0);	(364554.7,
	3789954.9,	235.0,	235.0,	0.0);	
3116	(364564.7, 3789954.9,	235.0,	235.0,	0.0);	(364574.7,
	3789954.9,	235.0,	235.0,	0.0);	
3117	(364484.7, 3789969.9,	235.0,	235.0,	0.0);	(364494.7,
	3789969.9,	235.0,	235.0,	0.0);	
3118	(364504.7, 3789969.9,	235.0,	235.0,	0.0);	(364514.7,
	3789969.9,	235.0,	235.0,	0.0);	
3119	(364524.7, 3789969.9,	235.0,	235.0,	0.0);	(364534.7,
	3789969.9,	235.0,	235.0,	0.0);	
3120	(364544.7, 3789969.9,	235.0,	235.0,	0.0);	(364554.7,
	3789969.9,	235.0,	235.0,	0.0);	
3121	(364564.7, 3789969.9,	235.0,	235.0,	0.0);	(364574.7,
	3789969.9,	235.0,	235.0,	0.0);	
3122	(364484.7, 3789984.9,	235.0,	235.0,	0.0);	(364494.7,
	3789984.9,	235.0,	235.0,	0.0);	
3123	(364504.7, 3789984.9,	235.0,	235.0,	0.0);	(364514.7,
	3789984.9,	235.0,	235.0,	0.0);	
3124	(364524.7, 3789984.9,	235.0,	235.0,	0.0);	(364534.7,
	3789984.9,	235.0,	235.0,	0.0);	
3125	(364544.7, 3789984.9,	235.0,	235.0,	0.0);	(364554.7,
	3789984.9,	235.0,	235.0,	0.0);	
3126	(364564.7, 3789984.9,	235.0,	235.0,	0.0);	(364574.7,
	3789984.9,	235.0,	235.0,	0.0);	
3127	(364484.7, 3789999.9,	235.0,	235.0,	0.0);	(364494.7,

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3128      3789999.9,      235.0,      235.0,      0.0);
      ( 364504.7, 3789999.9,      235.0,      235.0,      0.0);      ( 364514.7,
3129      3789999.9,      235.0,      235.0,      0.0);
      ( 364524.7, 3789999.9,      235.0,      235.0,      0.0);      ( 364534.7,
3130      3789999.9,      235.0,      235.0,      0.0);
      ( 364544.7, 3789999.9,      235.0,      235.0,      0.0);      ( 364554.7,
3131      3789999.9,      235.0,      235.0,      0.0);
      ( 364564.7, 3789999.9,      235.0,      235.0,      0.0);      ( 364574.7,
3132      3789999.9,      235.0,      235.0,      0.0);
      ( 364484.7, 3790014.9,      235.0,      235.0,      0.0);      ( 364494.7,
3133      3790014.9,      235.0,      235.0,      0.0);
      ( 364504.7, 3790014.9,      235.0,      235.0,      0.0);      ( 364514.7,
3134      3790014.9,      235.0,      235.0,      0.0);
      ( 364524.7, 3790014.9,      235.0,      235.0,      0.0);      ( 364534.7,
3135      3790014.9,      235.0,      235.0,      0.0);
*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
3136 *** AERMET - VERSION 16216 ***
***
17:15:37
3137
*** MODELOPTs:      NonDFAULT      PAGE 92
CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
3144      ( 364544.7, 3790014.9,      235.0,      235.0,      0.0);      ( 364554.7,
3145      3790014.9,      235.0,      235.0,      0.0);
      ( 364564.7, 3790014.9,      235.0,      235.0,      0.0);      ( 364574.7,
3146      3790014.9,      235.0,      235.0,      0.0);
      ( 364484.7, 3790029.9,      235.0,      235.0,      0.0);      ( 364494.7,
3147      3790029.9,      235.0,      235.0,      0.0);
      ( 364504.7, 3790029.9,      235.0,      235.0,      0.0);      ( 364514.7,
3148      3790029.9,      235.0,      235.0,      0.0);
      ( 364524.7, 3790029.9,      235.0,      235.0,      0.0);      ( 364534.7,
3149      3790029.9,      235.0,      235.0,      0.0);
      ( 364544.7, 3790029.9,      235.0,      235.0,      0.0);      ( 364554.7,
3150      3790029.9,      235.0,      235.0,      0.0);
      ( 364564.7, 3790029.9,      235.0,      235.0,      0.0);      ( 364574.7,
3151      3790029.9,      235.0,      235.0,      0.0);
      ( 364484.7, 3790044.9,      235.0,      235.0,      0.0);      ( 364494.7,
3152      3790044.9,      235.0,      235.0,      0.0);
      ( 364504.7, 3790044.9,      235.0,      235.0,      0.0);      ( 364514.7,
3153      3790044.9,      235.0,      235.0,      0.0);
      ( 364524.7, 3790044.9,      235.0,      235.0,      0.0);      ( 364534.7,
3154      3790044.9,      235.0,      235.0,      0.0);
      ( 364544.7, 3790044.9,      235.0,      235.0,      0.0);      ( 364554.7,
3155      3790044.9,      235.0,      235.0,      0.0);
      ( 364564.7, 3790044.9,      235.0,      235.0,      0.0);      ( 364574.7,
3156      3790044.9,      235.0,      235.0,      0.0);
      ( 364484.7, 3790059.9,      235.0,      235.0,      0.0);      ( 364494.7,
3157      3790059.9,      235.0,      235.0,      0.0);
      ( 364504.7, 3790059.9,      235.0,      235.0,      0.0);      ( 364514.7,
3158      3790059.9,      235.0,      235.0,      0.0);
      ( 364524.7, 3790059.9,      235.0,      235.0,      0.0);      ( 364534.7,
3159      3790059.9,      235.0,      235.0,      0.0);
      ( 364544.7, 3790059.9,      235.0,      235.0,      0.0);      ( 364554.7,
3160      3790059.9,      235.0,      235.0,      0.0);
      ( 364564.7, 3790059.9,      235.0,      235.0,      0.0);      ( 364574.7,
3161      3790059.9,      235.0,      235.0,      0.0);
*** AERMOD - VERSION 22112 *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
3162 *** AERMET - VERSION 16216 ***
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3240 *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES
 3241 FOR SOURCE GROUP: I-405N ***
 3241 INCLUDING SOURCE(S) : 405N0726 , 405N0727 ,
 405N0728 , 405N0729 , 405N0730 ,
 3242 405N0731 , 405N0732 , 405N0733 , 405N0734 , 405N0735 ,
 405N0736 , 405N0737 , 405N0738 ,
 3243 405N0739 , 405N0740 , 405N0741 , 405N0742 , 405N0743 ,
 405N0744 , 405N0745 , 405N0746 ,
 3244 405N0747 , 405N0748 , 405N0749 , 405N0750 , 405N0751 ,
 405N0752 , 405N0753 , . . . ,

3245
 3246 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 3247

3248 ** CONC OF DPM IN **
 MICROGRAMS/M**3

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD
	(M)	CONC			
3251	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
3252	364522.00	3789971.00	5.51729	364522.00	
	3789971.00	5.51729			
3253	364523.00	3789983.00	5.48846	364523.00	
	3789983.00	5.48846			
3254	364523.00	3789994.00	5.49789	364523.00	
	3789994.00	5.49789			
3255	364523.00	3790003.00	5.50547	364523.00	
	3790003.00	5.50547			
3256	364540.00	3789994.00	4.89810	364523.00	
	3790020.00	5.51955			
3257	364523.00	3790028.00	5.52612	364523.00	
	3790036.00	5.53267			
3258	364539.00	3790025.00	4.95072	364539.00	
	3790035.00	4.95729			
3259	364565.00	3790035.00	4.22992	364570.00	
	3790003.00	4.09821			
3260	364566.00	3789991.00	4.18529	364565.00	
	3789968.00	4.19748			
3261	364546.00	3789974.00	4.70209	364546.00	
	3789974.00	4.70209			
3262	364524.00	3790013.00	5.47451	364524.00	
	3790013.00	5.47451			
3263	364551.00	3790013.00	4.58250	364551.00	
	3790013.00	4.58250			
3264	364484.70	3789924.90	7.41402	364494.70	
	3789924.90	6.77693			
3265	364504.70	3789924.90	6.23675	364514.70	
	3789924.90	5.77302			
3266	364524.70	3789924.90	5.37054	364534.70	
	3789924.90	5.01791			
3267	364544.70	3789924.90	4.70642	364554.70	
	3789924.90	4.42930			
3268	364564.70	3789924.90	4.18115	364574.70	
	3789924.90	3.95766			
3269	364484.70	3789939.90	7.44045	364494.70	
	3789939.90	6.79911			
3270	364504.70	3789939.90	6.25563	364514.70	
	3789939.90	5.78928			
3271	364524.70	3789939.90	5.38464	364534.70	
	3789939.90	5.03023			
3272	364544.70	3789939.90	4.71724	364554.70	
	3789939.90	4.43884			
3273	364564.70	3789939.90	4.18958	364574.70	
	3789939.90	3.96515			
3274	364484.70	3789954.90	7.46571	364494.70	
	3789954.90	6.82041			

3275	364504.70	3789954.90	6.27380	364514.70
	3789954.90	5.80495		
3276	364524.70	3789954.90	5.39827	364534.70
	3789954.90	5.04214		
3277	364544.70	3789954.90	4.72769	364554.70
	3789954.90	4.44805		
3278	364564.70	3789954.90	4.19773	364574.70
	3789954.90	3.97238		
3279	364484.70	3789969.90	7.48997	364494.70
	3789969.90	6.84090		
3280	364504.70	3789969.90	6.29133	364514.70
	3789969.90	5.82007		
3281	364524.70	3789969.90	5.41142	364534.70
	3789969.90	5.05364		
3282	364544.70	3789969.90	4.73779	364554.70
	3789969.90	4.45694		
3283	364564.70	3789969.90	4.20559	364574.70
	3789969.90	3.97933		
3284	364484.70	3789984.90	7.51356	364494.70
	3789984.90	6.86083		
3285	364504.70	3789984.90	6.30838	364514.70
	3789984.90	5.83478		
3286	364524.70	3789984.90	5.42420	364534.70
	3789984.90	5.06481		
3287	364544.70	3789984.90	4.74759	364554.70
	3789984.90	4.46556		
3288	364564.70	3789984.90	4.21318	364574.70
	3789984.90	3.98605		
3289	364484.70	3789999.90	7.53641	364494.70
	3789999.90	6.88018		
3290	364504.70	3789999.90	6.32495	364514.70
	3789999.90	5.84912		
3291	364524.70	3789999.90	5.43668	364534.70
	3789999.90	5.07571		

3292	*** AERMOD - VERSION 22112 ***	*** Valor Elementary Exposure To DPM From 12/13/22
	I-405	

3293	*** AERMET - VERSION 16216 ***	***

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3294		PAGE 96
3295	*** MODELOPTs: NonDFAULT	CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
3296		
3297		*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: I-405N ***
3298		INCLUDING SOURCE(S): 405N0726 , 405N0727 , 405N0728 , 405N0729 , 405N0730 , 405N0731 , 405N0732 , 405N0733 , 405N0734 , 405N0735 , 405N0736 , 405N0737 , 405N0738 , 405N0739 , 405N0740 , 405N0741 , 405N0742 , 405N0743 , 405N0744 , 405N0745 , 405N0746 , 405N0747 , 405N0748 , 405N0749 , 405N0750 , 405N0751 , 405N0752 , 405N0753 , . . . ,

3302		*** DISCRETE CARTESIAN RECEPTOR POINTS ***
3303		

3305		** CONC OF DPM IN MICROGRAMS/M**3	**
3306			

3307	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD
	(M)	CONC			
3308	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
3309	364544.70	3789999.90	4.75713	364554.70	
	3789999.90	4.47395			
3310	364564.70	3789999.90	4.22057	364574.70	

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3311      3789999.90      3.99256
364484.70      3790014.90      7.55865      364494.70
3790014.90      6.89906
3312      364504.70      3790014.90      6.34116      364514.70
3790014.90      5.86313
3313      364524.70      3790014.90      5.44887      364534.70
3790014.90      5.08637
3314      364544.70      3790014.90      4.76647      364554.70
3790014.90      4.48214
3315      364564.70      3790014.90      4.22777      364574.70
3790014.90      3.99889
3316      364484.70      3790029.90      7.58077      364494.70
3790029.90      6.91780
3317      364504.70      3790029.90      6.35722      364514.70
3790029.90      5.87699
3318      364524.70      3790029.90      5.46090      364534.70
3790029.90      5.09686
3319      364544.70      3790029.90      4.77565      364554.70
3790029.90      4.49018
3320      364564.70      3790029.90      4.23481      364574.70
3790029.90      4.00506
3321      364484.70      3790044.90      7.60277      364494.70
3790044.90      6.93645
3322      364504.70      3790044.90      6.37319      364514.70
3790044.90      5.89078
3323      364524.70      3790044.90      5.47288      364534.70
3790044.90      5.10729
3324      364544.70      3790044.90      4.78474      364554.70
3790044.90      4.49811
3325      364564.70      3790044.90      4.24173      364574.70
3790044.90      4.01110
3326      364484.70      3790059.90      7.62455      364494.70
3790059.90      6.95495
3327      364504.70      3790059.90      6.38907      364514.70
3790059.90      5.90451
3328      364524.70      3790059.90      5.48480      364534.70
3790059.90      5.11767
3329      364544.70      3790059.90      4.79378      364554.70
3790059.90      4.50598
3330      364564.70      3790059.90      4.24859      364574.70
3790059.90      4.01706
3331  FF *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
3332 *** AERMET - VERSION 16216 ***
***
17:15:37
3333
3334      PAGE 97
*** MODELOPTs:      NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
3335
3336      *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES
FOR SOURCE GROUP: I-405S ***
3337      INCLUDING SOURCE(S):      405S0676      , 405S0677      ,
405S0678      , 405S0679      , 405S0680      ,
3338      405S0681      , 405S0682      , 405S0683      , 405S0684      , 405S0685      ,
405S0686      , 405S0687      , 405S0688      ,
3339      405S0689      , 405S0690      , 405S0691      , 405S0692      , 405S0693      ,
405S0694      , 405S0695      , 405S0696      ,
3340      405S0697      , 405S0698      , 405S0699      , 405S0700      , 405S0701      ,
405S0702      , 405S0703      , . . .      ,
3341
3342      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
3343
3344      ** CONC OF DPM      IN
MICROGRAMS/M**3
3345

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3346	X-COORD (M) (M)	Y-COORD (M) CONC	CONC	X-COORD (M)	Y-COORD
3347	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
3348	364522.00	3789971.00	4.85673	364522.00	
	3789971.00	4.85673			
3349	364523.00	3789983.00	4.83387	364523.00	
	3789983.00	4.83387			
3350	364523.00	3789994.00	4.84125	364523.00	
	3789994.00	4.84125			
3351	364523.00	3790003.00	4.84727	364523.00	
	3790003.00	4.84727			
3352	364540.00	3789994.00	4.36363	364523.00	
	3790020.00	4.85864			
3353	364523.00	3790028.00	4.86399	364523.00	
	3790036.00	4.86934			
3354	364539.00	3790025.00	4.40593	364539.00	
	3790035.00	4.41127			
3355	364565.00	3790035.00	3.81751	364570.00	
	3790003.00	3.70866			
3356	364566.00	3789991.00	3.78118	364565.00	
	3789968.00	3.79190			
3357	364546.00	3789974.00	4.20549	364546.00	
	3789974.00	4.20549			
3358	364524.00	3790013.00	4.82303	364524.00	
	3790013.00	4.82303			
3359	364551.00	3790013.00	4.10750	364551.00	
	3790013.00	4.10750			
3360	364484.70	3789924.90	6.29715	364494.70	
	3789924.90	5.82587			
3361	364504.70	3789924.90	5.41719	364514.70	
	3789924.90	5.05939			
3362	364524.70	3789924.90	4.74355	364534.70	
	3789924.90	4.46271			
3363	364544.70	3789924.90	4.21136	364554.70	
	3789924.90	3.98508			
3364	364564.70	3789924.90	3.78034	364574.70	
	3789924.90	3.59425			
3365	364484.70	3789939.90	6.31430	364494.70	
	3789939.90	5.84071			
3366	364504.70	3789939.90	5.43012	364514.70	
	3789939.90	5.07074			
3367	364524.70	3789939.90	4.75354	364534.70	
	3789939.90	4.47154			
3368	364544.70	3789939.90	4.21917	364554.70	
	3789939.90	3.99202			
3369	364564.70	3789939.90	3.78652	364574.70	
	3789939.90	3.59976			
3370	364484.70	3789954.90	6.33143	364494.70	
	3789954.90	5.85553			
3371	364504.70	3789954.90	5.44304	364514.70	
	3789954.90	5.08205			
3372	364524.70	3789954.90	4.76348	364534.70	
	3789954.90	4.48030			
3373	364544.70	3789954.90	4.22691	364554.70	
	3789954.90	3.99887			
3374	364564.70	3789954.90	3.79259	364574.70	
	3789954.90	3.60516			
3375	364484.70	3789969.90	6.34857	364494.70	
	3789969.90	5.87033			
3376	364504.70	3789969.90	5.45592	364514.70	
	3789969.90	5.09332			
3377	364524.70	3789969.90	4.77336	364534.70	
	3789969.90	4.48899			
3378	364544.70	3789969.90	4.23457	364554.70	
	3789969.90	4.00562			

3379	364564.70	3789969.90	3.79855	364574.70
	3789969.90	3.61044		
3380	364484.70	3789984.90	6.36584	364494.70
	3789984.90	5.88521		
3381	364504.70	3789984.90	5.46883	364514.70
	3789984.90	5.10457		
3382	364524.70	3789984.90	4.78321	364534.70
	3789984.90	4.49761		
3383	364544.70	3789984.90	4.24214	364554.70
	3789984.90	4.01228		
3384	364564.70	3789984.90	3.80442	364574.70
	3789984.90	3.61562		
3385	364484.70	3789999.90	6.38317	364494.70
	3789999.90	5.90015		
3386	364504.70	3789999.90	5.48178	364514.70
	3789999.90	5.11584		
3387	364524.70	3789999.90	4.79303	364534.70
	3789999.90	4.50620		

3388	*** AERMOD - VERSION 22112 ***	*** Valor Elementary Exposure To DPM From
	I-405	12/13/22

3389	*** AERMET - VERSION 16216 ***	***
	***	***
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3390		PAGE 98
3391	*** MODELOPTs:	NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
3392		
3393		*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES
		FOR SOURCE GROUP: I-405S ***
3394		INCLUDING SOURCE(S): 405S0676 , 405S0677 ,
		405S0678 , 405S0679 , 405S0680 ,
3395	405S0681 , 405S0682 , 405S0683 , 405S0684 , 405S0685 ,	
	405S0686 , 405S0687 , 405S0688 ,	
3396	405S0689 , 405S0690 , 405S0691 , 405S0692 , 405S0693 ,	
	405S0694 , 405S0695 , 405S0696 ,	
3397	405S0697 , 405S0698 , 405S0699 , 405S0700 , 405S0701 ,	
	405S0702 , 405S0703 , . . . ,	

3398		
3399		*** DISCRETE CARTESIAN RECEPTOR POINTS ***
3400		

3401		** CONC OF DPM IN **	
		MICROGRAMS/M**3	
3402			
3403	X-COORD (M)	Y-COORD (M)	CONC
	(M)	CONC	X-COORD (M) Y-COORD
3404	- - - - -	- - - - -	- - - - -
	- - - - -	- - - - -	- - - - -
3405	364544.70	3789999.90	4.24965 364554.70
	3789999.90	4.01887	
3406	364564.70	3789999.90	3.81021 364574.70
	3789999.90	3.62072	
3407	364484.70	3790014.90	6.40054 364494.70
	3790014.90	5.91510	
3408	364504.70	3790014.90	5.49473 364514.70
	3790014.90	5.12710	
3409	364524.70	3790014.90	4.80283 364534.70
	3790014.90	4.51475	
3410	364544.70	3790014.90	4.25712 364554.70
	3790014.90	4.02540	
3411	364564.70	3790014.90	3.81592 364574.70
	3790014.90	3.62574	
3412	364484.70	3790029.90	6.41809 364494.70
	3790029.90	5.93017	
3413	364504.70	3790029.90	5.50774 364514.70
	3790029.90	5.13836	
3414	364524.70	3790029.90	4.81263 364534.70

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3415      3790029.90      4.52326
3415      364544.70      3790029.90      4.26454      364554.70
3416      3790029.90      4.03187
3416      364564.70      3790029.90      3.82159      364574.70
3417      3790029.90      3.63071
3417      364484.70      3790044.90      6.43583      364494.70
3418      3790044.90      5.94538
3418      364504.70      3790044.90      5.52085      364514.70
3419      3790044.90      5.14970
3419      364524.70      3790044.90      4.82245      364534.70
3420      3790044.90      4.53179
3420      364544.70      3790044.90      4.27195      364554.70
3421      3790044.90      4.03833
3421      364564.70      3790044.90      3.82724      364574.70
3422      3790044.90      3.63565
3422      364484.70      3790059.90      6.45367      364494.70
3423      3790059.90      5.96068
3423      364504.70      3790059.90      5.53404      364514.70
3424      3790059.90      5.16111
3424      364524.70      3790059.90      4.83232      364534.70
3425      3790059.90      4.54036
3425      364544.70      3790059.90      4.27940      364554.70
3426      3790059.90      4.04482
3426      364564.70      3790059.90      3.83289      364574.70
3427      3790059.90      3.64059
3427 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
3428 *** AERMET - VERSION 16216 ***
***
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3429
3430 PAGE 99
3430 *** MODELOPTs: NonDEFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
3431
3432 *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES
3432 FOR SOURCE GROUP: ALL ***
3433 INCLUDING SOURCE(S): 405N0726 , 405N0727 ,
3433 405N0728 , 405N0729 , 405N0730 ,
3434 405N0731 , 405N0732 , 405N0733 , 405N0734 , 405N0735 ,
3434 405N0736 , 405N0737 , 405N0738 ,
3435 405N0739 , 405N0740 , 405N0741 , 405N0742 , 405N0743 ,
3435 405N0744 , 405N0745 , 405N0746 ,
3436 405N0747 , 405N0748 , 405N0749 , 405N0750 , 405N0751 ,
3436 405N0752 , 405N0753 , . . . ,
3437
3438 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
3439
3440 ** CONC OF DPM IN **
3440 MICROGRAMS/M**3
3441
3442 X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD
3442 (M) CONC
3443 - - - - -
3443 - - - - -
3444 364522.00 3789971.00 10.37402 364522.00
3444 3789971.00 10.37402
3445 364523.00 3789983.00 10.32233 364523.00
3445 3789983.00 10.32233
3446 364523.00 3789994.00 10.33913 364523.00
3446 3789994.00 10.33913
3447 364523.00 3790003.00 10.35275 364523.00
3447 3790003.00 10.35275
3448 364540.00 3789994.00 9.26173 364523.00
3448 3790020.00 10.37819
3449 364523.00 3790028.00 10.39011 364523.00
3449 3790036.00 10.40202

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3450	364539.00	3790025.00	9.35665	364539.00
	3790035.00	9.36857		
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	3790003.00	7.80688		
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	3789968.00	7.98938		
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	3789974.00	8.90758		
3454	364524.00	3790013.00	10.29754	364524.00
	3790013.00	10.29754		
3455	364551.00	3790013.00	8.69000	364551.00
	3790013.00	8.69000		
3456	364484.70	3789924.90	13.71117	364494.70
	3789924.90	12.60280		
3457	364504.70	3789924.90	11.65394	364514.70
	3789924.90	10.83241		
3458	364524.70	3789924.90	10.11409	364534.70
	3789924.90	9.48062		
3459	364544.70	3789924.90	8.91778	364554.70
	3789924.90	8.41438		
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	3789924.90	7.55191		
3461	364484.70	3789939.90	13.75475	364494.70
	3789939.90	12.63982		
3462	364504.70	3789939.90	11.68575	364514.70
	3789939.90	10.86001		
3463	364524.70	3789939.90	10.13818	364534.70
	3789939.90	9.50177		
3464	364544.70	3789939.90	8.93641	364554.70
	3789939.90	8.43086		
3465	364564.70	3789939.90	7.97610	364574.70
	3789939.90	7.56491		
3466	364484.70	3789954.90	13.79714	364494.70
	3789954.90	12.67594		
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	3789954.90	7.57753		
3471	364484.70	3789969.90	13.83854	364494.70
	3789969.90	12.71123		
3472	364504.70	3789969.90	11.74726	364514.70
	3789969.90	10.91339		
3473	364524.70	3789969.90	10.18478	364534.70
	3789969.90	9.54263		
3474	364544.70	3789969.90	8.97236	364554.70
	3789969.90	8.46257		
3475	364564.70	3789969.90	8.00415	364574.70
	3789969.90	7.58977		
3476	364484.70	3789984.90	13.87940	364494.70
	3789984.90	12.74604		
3477	364504.70	3789984.90	11.77721	364514.70
	3789984.90	10.93936		
3478	364524.70	3789984.90	10.20741	364534.70
	3789984.90	9.56242		
3479	364544.70	3789984.90	8.98972	364554.70
	3789984.90	8.47784		
3480	364564.70	3789984.90	8.01760	364574.70
	3789984.90	7.60167		
3481	364484.70	3789999.90	13.91957	364494.70
	3789999.90	12.78033		
3482	364504.70	3789999.90	11.80674	364514.70
	3789999.90	10.96496		

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3483      364524.70      3789999.90      10.22971      364534.70
          3789999.90      9.58191
3484  *** AERMOD - VERSION 22112 ***      *** Valor Elementary Exposure To DPM From
I-405      ***      12/13/22
3485      *** AERMET - VERSION 16216 ***
          ***
          17:15:37

3486
          PAGE 100
3487      *** MODELOPTs:      NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
3488
3489      *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES
          FOR SOURCE GROUP: ALL      ***
3490      INCLUDING SOURCE(S):      405N0726      , 405N0727      ,
          405N0728      , 405N0729      , 405N0730      ,
3491      405N0731      , 405N0732      , 405N0733      , 405N0734      , 405N0735      ,
          405N0736      , 405N0737      , 405N0738      ,
3492      405N0739      , 405N0740      , 405N0741      , 405N0742      , 405N0743      ,
          405N0744      , 405N0745      , 405N0746      ,
3493      405N0747      , 405N0748      , 405N0749      , 405N0750      , 405N0751      ,
          405N0752      , 405N0753      , . . . ,
3494
3495      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
3496
3497      ** CONC OF DPM      IN
          MICROGRAMS/M**3      **
3498
3499      X-COORD (M)      Y-COORD (M)      CONC      X-COORD (M)      Y-COORD
          (M)      CONC
3500      - - - - -
          - - - - -
3501      364544.70      3789999.90      9.00679      364554.70
          3789999.90      8.49281
3502      364564.70      3789999.90      8.03078      364574.70
          3789999.90      7.61328
3503      364484.70      3790014.90      13.95919      364494.70
          3790014.90      12.81416
3504      364504.70      3790014.90      11.83589      364514.70
          3790014.90      10.99023
3505      364524.70      3790014.90      10.25170      364534.70
          3790014.90      9.60111
3506      364544.70      3790014.90      9.02359      364554.70
          3790014.90      8.50754
3507      364564.70      3790014.90      8.04370      364574.70
          3790014.90      7.62463
3508      364484.70      3790029.90      13.99887      364494.70
          3790029.90      12.84797
3509      364504.70      3790029.90      11.86495      364514.70
          3790029.90      11.01535
3510      364524.70      3790029.90      10.27353      364534.70
          3790029.90      9.62012
3511      364544.70      3790029.90      9.04019      364554.70
          3790029.90      8.52204
3512      364564.70      3790029.90      8.05640      364574.70
          3790029.90      7.63577
3513      364484.70      3790044.90      14.03860      364494.70
          3790044.90      12.88183
3514      364504.70      3790044.90      11.89404      364514.70
          3790044.90      11.04048
3515      364524.70      3790044.90      10.29533      364534.70
          3790044.90      9.63908
3516      364544.70      3790044.90      9.05669      364554.70
          3790044.90      8.53644
3517      364564.70      3790044.90      8.06897      364574.70
          3790044.90      7.64675
3518      364484.70      3790059.90      14.07822      364494.70

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3519      3790059.90      12.91563
3520      364504.70      3790059.90      11.92310      364514.70
3521      3790059.90      11.06562
3522      364524.70      3790059.90      10.31713      364534.70
3523      3790059.90      9.65803
3524      364544.70      3790059.90      9.07318      364554.70
3525      3790059.90      8.55080
3526      364564.70      3790059.90      8.08148      364574.70
3527      3790059.90      7.65765
3528 *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
3529 *** AERMET - VERSION 16216 ***
3530 ***
3531 17:15:37
3532
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3535
3536
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PAGE 101

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*** MODELOPTs:      NonDFAULT  CONC  FLAT  NODRYDPLT  NOWETDPLT  RURAL  NoUrbTran  ADJ_U*
*** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS)
RESULTS ***

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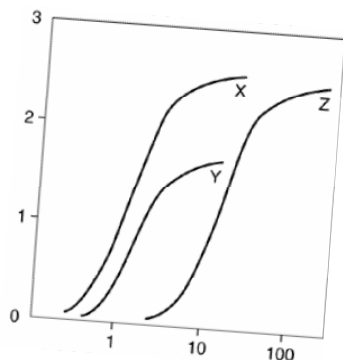
NETWORK		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV,	
GROUP ID	ZHILL, ZFLAG) OF TYPE GRID-ID				
I-405N	1ST HIGHEST VALUE IS	7.62455	AT (	364484.70,	3790059.90,
235.00,	0.00) DC				235.00,
	2ND HIGHEST VALUE IS	7.60277	AT (	364484.70,	3790044.90,
	235.00, 0.00) DC				235.00,
	3RD HIGHEST VALUE IS	7.58077	AT (	364484.70,	3790029.90,
	235.00, 0.00) DC				235.00,
	4TH HIGHEST VALUE IS	7.55865	AT (	364484.70,	3790014.90,
	235.00, 0.00) DC				235.00,
	5TH HIGHEST VALUE IS	7.53641	AT (	364484.70,	3789999.90,
	235.00, 0.00) DC				235.00,
	6TH HIGHEST VALUE IS	7.51356	AT (	364484.70,	3789984.90,
	235.00, 0.00) DC				235.00,
	7TH HIGHEST VALUE IS	7.48997	AT (	364484.70,	3789969.90,
	235.00, 0.00) DC				235.00,
	8TH HIGHEST VALUE IS	7.46571	AT (	364484.70,	3789954.90,
	235.00, 0.00) DC				235.00,
	9TH HIGHEST VALUE IS	7.44045	AT (	364484.70,	3789939.90,
	235.00, 0.00) DC				235.00,
	10TH HIGHEST VALUE IS	7.41402	AT (	364484.70,	3789924.90,
	235.00, 0.00) DC				235.00,
I-405S	1ST HIGHEST VALUE IS	6.45367	AT (	364484.70,	3790059.90,
235.00,	0.00) DC				235.00,
	2ND HIGHEST VALUE IS	6.43583	AT (	364484.70,	3790044.90,
	235.00, 0.00) DC				235.00,
	3RD HIGHEST VALUE IS	6.41809	AT (	364484.70,	3790029.90,
	235.00, 0.00) DC				235.00,
	4TH HIGHEST VALUE IS	6.40054	AT (	364484.70,	3790014.90,
	235.00, 0.00) DC				235.00,
	5TH HIGHEST VALUE IS	6.38317	AT (	364484.70,	3789999.90,
	235.00, 0.00) DC				235.00,
	6TH HIGHEST VALUE IS	6.36584	AT (	364484.70,	3789984.90,
	235.00, 0.00) DC				235.00,
	7TH HIGHEST VALUE IS	6.34857	AT (364484.70,	3789969.90,
					235.00,

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3555      235.00,      0.00) DC
      8TH HIGHEST VALUE IS      6.33143 AT ( 364484.70, 3789954.90, 235.00,
3556      235.00,      0.00) DC
      9TH HIGHEST VALUE IS      6.31430 AT ( 364484.70, 3789939.90, 235.00,
3557      235.00,      0.00) DC
      10TH HIGHEST VALUE IS     6.29715 AT ( 364484.70, 3789924.90, 235.00,
3558      235.00,      0.00) DC
3559 ALL      1ST HIGHEST VALUE IS     14.07822 AT ( 364484.70, 3790059.90, 235.00,
      235.00,      0.00) DC
3560      2ND HIGHEST VALUE IS     14.03860 AT ( 364484.70, 3790044.90, 235.00,
      235.00,      0.00) DC
3561      3RD HIGHEST VALUE IS     13.99887 AT ( 364484.70, 3790029.90, 235.00,
      235.00,      0.00) DC
3562      4TH HIGHEST VALUE IS     13.95919 AT ( 364484.70, 3790014.90, 235.00,
      235.00,      0.00) DC
3563      5TH HIGHEST VALUE IS     13.91957 AT ( 364484.70, 3789999.90, 235.00,
      235.00,      0.00) DC
3564      6TH HIGHEST VALUE IS     13.87940 AT ( 364484.70, 3789984.90, 235.00,
      235.00,      0.00) DC
3565      7TH HIGHEST VALUE IS     13.83854 AT ( 364484.70, 3789969.90, 235.00,
      235.00,      0.00) DC
3566      8TH HIGHEST VALUE IS     13.79714 AT ( 364484.70, 3789954.90, 235.00,
      235.00,      0.00) DC
3567      9TH HIGHEST VALUE IS     13.75475 AT ( 364484.70, 3789939.90, 235.00,
      235.00,      0.00) DC
3568      10TH HIGHEST VALUE IS     13.71117 AT ( 364484.70, 3789924.90, 235.00,
      235.00,      0.00) DC
3569
3570
3571 *** RECEPTOR TYPES:  GC = GRIDCART
3572                        GP = GRIDPOLR
3573                        DC = DISCCART
3574                        DP = DISCPOLR
3575 RR *** AERMOD - VERSION 22112 *** *** Valor Elementary Exposure To DPM From
I-405 *** 12/13/22
3576 *** AERMET - VERSION 16216 ***
***
17:15:37
3577
                                     PAGE 102
3578 *** MODELOPTs:      NonDFAULT CONC FLAT NODRYDPLT NOWETDPLT RURAL NoUrbTran ADJ_U*
3579
3580 *** Message Summary : AERMOD Model Execution ***
3581
3582 ----- Summary of Total Messages -----
3583
3584 A Total of      0 Fatal Error Message(s)
3585 A Total of      9 Warning Message(s)
3586 A Total of     839 Informational Message(s)
3587
3588 A Total of     43848 Hours Were Processed
3589
3590 A Total of      604 Calm Hours Identified
3591
3592 A Total of      235 Missing Hours Identified ( 0.54 Percent)
3593
3594
3595 ***** FATAL ERROR MESSAGES *****
3596 *** NONE ***
3597
3598
3599 ***** WARNING MESSAGES *****
3600 CO W151      7      MODEOPT: Non-DFAULT NoUrbTran option selected on MODELOPT
Keyword
3601 ME W186     937      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold

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used                0.50
3602 ME W187        937      MEOPEN: ADJ_U* Option for Stable Low Winds used in
      AERMET
3603 OU W565        941      PERPLT: Possible Conflict With Dynamically Allocated FUNIT
      PLOTFILE
3604 OU W565        942      PERPLT: Possible Conflict With Dynamically Allocated FUNIT
      PLOTFILE
3605 OU W565        943      PERPLT: Possible Conflict With Dynamically Allocated FUNIT
      PLOTFILE
3606 OU W565        944      PERPST: Possible Conflict With Dynamically Allocated FUNIT
      POSTFILE
3607 OU W565        945      PERPST: Possible Conflict With Dynamically Allocated FUNIT
      POSTFILE
3608 OU W565        946      PERPST: Possible Conflict With Dynamically Allocated FUNIT
      POSTFILE
3609
3610 *****
3611 *** AERMOD Finishes Successfully ***
3612 *****
3613
3614
```



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James J. J. Clark, Ph.D.

Principal Toxicologist

Toxicology/Exposure Assessment Modeling

Risk Assessment/Analysis/Dispersion Modeling

Education:

Ph.D., Environmental Health Science, University of California, 1995

M.S., Environmental Health Science, University of California, 1993

B.S., Biophysical and Biochemical Sciences, University of Houston, 1987

Professional Experience:

Dr. Clark is a well recognized toxicologist, air modeler, and health scientist. He has 20 years of experience in researching the effects of environmental contaminants on human health including environmental fate and transport modeling (SCREEN3, AEROMOD, ISCST3, Johnson-Ettinger Vapor Intrusion Modeling); exposure assessment modeling (partitioning of contaminants in the environment as well as PBPK modeling); conducting and managing human health risk assessments for regulatory compliance and risk-based clean-up levels; and toxicological and medical literature research.

Significant projects performed by Dr. Clark include the following:

LITIGATION SUPPORT

Case: James Harold Caygle, et al, v. Drummond Company, Inc. Circuit Court for the Tenth Judicial Circuit, Jefferson County, Alabama. Civil Action. CV-2009

Client: Environmental Litigation Group, Birmingham, Alabama

Dr. Clark performed an air quality assessment of emissions from a coke factory located in Tarrant, Alabama. The assessment reviewed include a comprehensive review of air quality standards, measured concentrations of pollutants from factory, an inspection of the facility and detailed assessment of the impacts on the community. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Rose Roper V. Nissan North America, et al. Superior Court of the State Of California for the County Of Los Angeles – Central Civil West. Civil Action. NC041739

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to multiple chemicals, including benzene, who later developed a respiratory distress. A review of the individual's medical and occupational history was performed to prepare an exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to respiratory irritants. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: O'Neil V. Sherwin Williams, et al. United States District Court Central District of California

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to petroleum distillates who later developed a bladder cancer. A review of the individual's medical and occupational history was performed to prepare a quantitative exposure assessment. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Summary judgment for defendants.

Case: Moore V., Shell Oil Company, et al. Superior Court of the State Of California for the County Of Los Angeles

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to chemicals while benzene who later developed a leukogenic disease. A review of the individual's medical and occupational history was performed to prepare a quantitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to refined petroleum hydrocarbons. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Raymond Saltonstall V. Fuller O'Brien, KILZ, and Zinsser, et al. United States District Court Central District of California

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to benzene who later developed a leukogenic disease. A review of the individual's medical and occupational history was performed to prepare a quantitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to refined petroleum hydrocarbons. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Richard Boyer and Elizabeth Boyer, husband and wife, V. DESCO Corporation, et al. Circuit Court of Brooke County, West Virginia. Civil Action Number 04-C-7G.

Client: Frankovitch, Anetakis, Colantonio & Simon, Morgantown, West Virginia.

Dr. Clark performed a toxicological assessment of a family exposed to chlorinated solvents released from the defendant's facility into local drinking water supplies. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to chlorinated solvents. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: JoAnne R. Cook, V. DESCO Corporation, et al. Circuit Court of Brooke County, West Virginia. Civil Action Number 04-C-9R

Client: Frankovitch, Anetakis, Colantonio & Simon, Morgantown, West Virginia.

Dr. Clark performed a toxicological assessment of an individual exposed to chlorinated solvents released from the defendant's facility into local drinking water supplies. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to chlorinated solvents. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Patrick Allen And Susan Allen, husband and wife, and Andrew Allen, a minor, V. DESCO Corporation, et al. Circuit Court of Brooke County, West Virginia. Civil Action Number 04-C-W

Client: Frankovitch, Anetakis, Colantonio & Simon, Morgantown, West Virginia.

Dr. Clark performed a toxicological assessment of a family exposed to chlorinated solvents released from the defendant's facility into local drinking water supplies. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to chlorinated solvents. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Michael Fahey, Susan Fahey V. Atlantic Richfield Company, et al. United States District Court Central District of California Civil Action Number CV-06 7109 JCL.

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to refined petroleum hydrocarbons who later developed a leukogenic disease. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to refined petroleum hydrocarbons. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Constance Acevedo, et al., V. California Spray-Chemical Company, et al., Superior Court of the State Of California, County Of Santa Cruz. Case No. CV 146344

Dr. Clark performed a comprehensive exposure assessment of community members exposed to toxic metals from a former lead arsenate manufacturing facility. The former manufacturing site had undergone a DTSC mandated removal action/remediation for the presence of the toxic metals at the site. Opinions were presented regarding the elevated levels of arsenic and lead (in attic dust and soils) found throughout the community and the potential for harm to the plaintiffs in question.

Case Result: Settlement in favor of defendant.

Case: Michael Nawrocki V. The Coastal Corporation, Kurk Fuel Company, Pautler Oil Service, State of New York Supreme Court, County of Erie, Index Number I2001-11247

Client: Richard G. Berger Attorney At Law, Buffalo, New York

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to refined petroleum hydrocarbons who later developed a leukogenic disease. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the

known outcomes in published literature to exposure to refined petroleum hydrocarbons. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Judgement in favor of defendant.

SELECTED AIR MODELING RESEARCH/PROJECTS

Client – Confidential

Dr. Clark performed a comprehensive evaluation of criteria pollutants, air toxins, and particulate matter emissions from a carbon black production facility to determine the impacts on the surrounding communities. The results of the dispersion model will be used to estimate acute and chronic exposure concentrations to multiple contaminants and will be incorporated into a comprehensive risk evaluation.

Client – Confidential

Dr. Clark performed a comprehensive evaluation of air toxins and particulate matter emissions from a railroad tie manufacturing facility to determine the impacts on the surrounding communities. The results of the dispersion model have been used to estimate acute and chronic exposure concentrations to multiple contaminants and have been incorporated into a comprehensive risk evaluation.

Client – Los Angeles Alliance for a New Economy (LAANE), Los Angeles, California

Dr. Clark is advising the LAANE on air quality issues related to current flight operations at the Los Angeles International Airport (LAX) operated by the Los Angeles World Airport (LAWA) Authority. He is working with the LAANE and LAX staff to develop a comprehensive strategy for meeting local community concerns over emissions from flight operations and to engage federal agencies on the issue of local impacts of community airports.

Client – City of Santa Monica, Santa Monica, California

Dr. Clark is advising the City of Santa Monica on air quality issues related to current flight operations at the facility. He is working with the City staff to develop a comprehensive strategy for meeting local community concerns over emissions from flight operations and to engage federal agencies on the issue of local impacts of community airports.

Client: Omnitrans, San Bernardino, California

Dr. Clark managed a public health survey of three communities near transit fueling facilities in San Bernardino and Montclair California in compliance with California Senate Bill 1927. The survey included an epidemiological survey of the effected communities, emission surveys of local businesses, dispersion modeling to determine potential emission concentrations within the communities, and a comprehensive risk assessment of each community. The results of the study were presented to the Governor as mandated by Senate Bill 1927.

Client: Confidential, San Francisco, California

Summarized cancer types associated with exposure to metals and smoking. Researched the specific types of cancers associated with exposure to metals and smoking. Provided causation analysis of the association between cancer types and exposure for use by non-public health professionals.

Client: Confidential, Minneapolis, Minnesota

Prepared human health risk assessment of workers exposed to VOCs from neighboring petroleum storage/transport facility. Reviewed the systems in place for distribution of petroleum hydrocarbons to identify chemicals of concern (COCs), prepared comprehensive toxicological summaries of COCs, and quantified potential risks from carcinogens and non-carcinogens to receptors at or adjacent to site. This evaluation was used in the support of litigation.

Client – United Kingdom Environmental Agency

Dr. Clark is part of team that performed comprehensive evaluation of soil vapor intrusion of VOCs from former landfill adjacent residences for the United Kingdom's Environment

Agency. The evaluation included collection of liquid and soil vapor samples at site, modeling of vapor migration using the Johnson Ettinger Vapor Intrusion model, and calculation of site-specific health based vapor thresholds for chlorinated solvents, aromatic hydrocarbons, and semi-volatile organic compounds. The evaluation also included a detailed evaluation of the use, chemical characteristics, fate and transport, and toxicology of chemicals of concern (COC). The results of the evaluation have been used as a briefing tool for public health professionals.

EMERGING/PERSISTENT CONTAMINANT RESEARCH/PROJECTS

Client: Ameren Services, St. Louis, Missouri

Managed the preparation of a comprehensive human health risk assessment of workers and residents at or near an NPL site in Missouri. The former operations at the Property included the servicing and repair of electrical transformers, which resulted in soils and groundwater beneath the Property and adjacent land becoming impacted with PCB and chlorinated solvent compounds. The results were submitted to U.S. EPA for evaluation and will be used in the final ROD.

Client: City of Santa Clarita, Santa Clarita, California

Dr. Clark is managing the oversight of the characterization, remediation and development activities of a former 1,000 acre munitions manufacturing facility for the City of Santa Clarita. The site is impacted with a number of contaminants including perchlorate, unexploded ordinance, and volatile organic compounds (VOCs). The site is currently under a number of regulatory consent orders, including an Imminent and Substantial Endangerment Order. Dr. Clark is assisting the impacted municipality with the development of remediation strategies, interaction with the responsible parties and stakeholders, as well as interfacing with the regulatory agency responsible for oversight of the site cleanup.

Client: Confidential, Los Angeles, California

Prepared comprehensive evaluation of perchlorate in environment. Dr. Clark evaluated the production, use, chemical characteristics, fate and transport, toxicology, and remediation of perchlorate. Perchlorates form the basis of solid rocket fuels and have recently been detected in water supplies in the United States. The results of this research

were presented to the USEPA, National GroundWater, and ultimately published in a recent book entitled *Perchlorate in the Environment*.

Client – Confidential, Los Angeles, California

Dr. Clark is performing a comprehensive review of the potential for pharmaceuticals and their by-products to impact groundwater and surface water supplies. This evaluation will include a review if available data on the history of pharmaceutical production in the United States; the chemical characteristics of various pharmaceuticals; environmental fate and transport; uptake by xenobiotics; the potential effects of pharmaceuticals on water treatment systems; and the potential threat to public health. The results of the evaluation may be used as a briefing tool for non-public health professionals.

PUBLIC HEALTH/TOXICOLOGY

Client: Brayton Purcell, Novato, California

Dr. Clark performed a toxicological assessment of residents exposed to methyl-tertiary butyl ether (MTBE) from leaking underground storage tanks (LUSTs) adjacent to the subject property. The symptomology of residents and guests of the subject property were evaluated against the known outcomes in published literature to exposure to MTBE. The study found that residents had been exposed to MTBE in their drinking water; that concentrations of MTBE detected at the site were above regulatory guidelines; and, that the symptoms and outcomes expressed by residents and guests were consistent with symptoms and outcomes documented in published literature.

Client: Confidential, San Francisco, California

Identified and analyzed fifty years of epidemiological literature on workplace exposures to heavy metals. This research resulted in a summary of the types of cancer and non-cancer diseases associated with occupational exposure to chromium as well as the mortality and morbidity rates.

Client: Confidential, San Francisco, California

Summarized major public health research in United States. Identified major public health research efforts within United States over last twenty years. Results were used as a briefing tool for non-public health professionals.

Client: Confidential, San Francisco, California

Quantified the potential multi-pathway dose received by humans from a pesticide applied indoors. Part of team that developed exposure model and evaluated exposure concentrations in a comprehensive report on the plausible range of doses received by a specific person. This evaluation was used in the support of litigation.

Client: Covanta Energy, Westwood, California

Evaluated health risk from metals in biosolids applied as soil amendment on agricultural lands. The biosolids were created at a forest waste cogeneration facility using 96% whole tree wood chips and 4 percent green waste. Mass loading calculations were used to estimate Cr(VI) concentrations in agricultural soils based on a maximum loading rate of 40 tons of biomass per acre of agricultural soil. The results of the study were used by the Regulatory agency to determine that the application of biosolids did not constitute a health risk to workers applying the biosolids or to residences near the agricultural lands.

Client – United Kingdom Environmental Agency

Oversaw a comprehensive toxicological evaluation of methyl-*tertiary* butyl ether (MtBE) for the United Kingdom's Environment Agency. The evaluation included available data on the production, use, chemical characteristics, fate and transport, toxicology, and remediation of MtBE. The results of the evaluation have been used as a briefing tool for public health professionals.

Client – Confidential, Los Angeles, California

Prepared comprehensive evaluation of *tertiary* butyl alcohol (TBA) in municipal drinking water system. TBA is the primary breakdown product of MtBE, and is suspected to be the primary cause of MtBE toxicity. This evaluation will include available information on the production, use, chemical characteristics, fate and transport in the environment, absorption, distribution, routes of detoxification, metabolites, carcinogenic potential, and remediation of TBA. The results of the evaluation were used as a briefing tool for non-public health professionals.

Client – Confidential, Los Angeles, California

Prepared comprehensive evaluation of methyl *tertiary* butyl ether (MTBE) in municipal drinking water system. MTBE is a chemical added to gasoline to increase the octane

rating and to meet Federally mandated emission criteria. The evaluation included available data on the production, use, chemical characteristics, fate and transport, toxicology, and remediation of MTBE. The results of the evaluation have been used as a briefing tool for non-public health professionals.

Client – Ministry of Environment, Lands & Parks, British Columbia

Dr. Clark assisted in the development of water quality guidelines for methyl tertiary-butyl ether (MTBE) to protect water uses in British Columbia (BC). The water uses to be considered includes freshwater and marine life, wildlife, industrial, and agricultural (e.g., irrigation and livestock watering) water uses. Guidelines from other jurisdictions for the protection of drinking water, recreation and aesthetics were to be identified.

Client: Confidential, Los Angeles, California

Prepared physiologically based pharmacokinetic (PBPK) assessment of lead risk of receptors at middle school built over former industrial facility. This evaluation is being used to determine cleanup goals and will be basis for regulatory closure of site.

Client: Kaiser Venture Incorporated, Fontana, California

Prepared PBPK assessment of lead risk of receptors at a 1,100-acre former steel mill. This evaluation was used as the basis for granting closure of the site by lead regulatory agency.

RISK ASSESSMENTS/REMEDIAL INVESTIGATIONS

Client: Confidential, Atlanta, Georgia

Researched potential exposure and health risks to community members potentially exposed to creosote, polycyclic aromatic hydrocarbons, pentachlorophenol, and dioxin compounds used at a former wood treatment facility. Prepared a comprehensive toxicological summary of the chemicals of concern, including the chemical characteristics, absorption, distribution, and carcinogenic potential. Prepared risk characterization of the carcinogenic and non-carcinogenic chemicals based on the exposure assessment to quantify the potential risk to members of the surrounding community. This evaluation was used to help settle class-action tort.

Client: Confidential, Escondido, California

Prepared comprehensive Preliminary Endangerment Assessment (PEA) of dense non-aqueous liquid phase hydrocarbon (chlorinated solvents) contamination at a former printed circuit board manufacturing facility. This evaluation was used for litigation support and may be used as the basis for reaching closure of the site with the lead regulatory agency.

Client: Confidential, San Francisco, California

Summarized epidemiological evidence for connective tissue and autoimmune diseases for product liability litigation. Identified epidemiological research efforts on the health effects of medical prostheses. This research was used in a meta-analysis of the health effects and as a briefing tool for non-public health professionals.

Client: Confidential, Bogotá, Columbia

Prepared comprehensive evaluation of the potential health risks associated with the redevelopment of a 13.7 hectares plastic manufacturing facility in Bogotá, Colombia. The risk assessment was used as the basis for the remedial goals and closure of the site.

Client: Confidential, Los Angeles, California

Prepared comprehensive human health risk assessment of students, staff, and residents potentially exposed to heavy metals (principally cadmium) and VOCs from soil and soil vapor at 12-acre former crude oilfield and municipal landfill. The site is currently used as a middle school housing approximately 3,000 children. The evaluation determined that the site was safe for the current and future uses and was used as the basis for regulatory closure of site.

Client: Confidential, Los Angeles, California

Managed remedial investigation (RI) of heavy metals and volatile organic chemicals (VOCs) for a 15-acre former manufacturing facility. The RI investigation of the site included over 800 different sampling locations and the collection of soil, soil gas, and groundwater samples. The site is currently used as a year round school housing approximately 3,000 children. The Remedial Investigation was performed in a manner

that did not interrupt school activities and met the time restrictions placed on the project by the overseeing regulatory agency. The RI Report identified the off-site source of metals that impacted groundwater beneath the site and the sources of VOCs in soil gas and groundwater. The RI included a numerical model of vapor intrusion into the buildings at the site from the vadose zone to determine exposure concentrations and an air dispersion model of VOCs from the proposed soil vapor treatment system. The Feasibility Study for the Site is currently being drafted and may be used as the basis for granting closure of the site by DTSC.

Client: Confidential, Los Angeles, California

Prepared comprehensive human health risk assessment of students, staff, and residents potentially exposed to heavy metals (principally lead), VOCs, SVOCs, and PCBs from soil, soil vapor, and groundwater at 15-acre former manufacturing facility. The site is currently used as a year round school housing approximately 3,000 children. The evaluation determined that the site was safe for the current and future uses and will be basis for regulatory closure of site.

Client: Confidential, Los Angeles, California

Prepared comprehensive evaluation of VOC vapor intrusion into classrooms of middle school that was former 15-acre industrial facility. Using the Johnson-Ettinger Vapor Intrusion model, the evaluation determined acceptable soil gas concentrations at the site that did not pose health threat to students, staff, and residents. This evaluation is being used to determine cleanup goals and will be basis for regulatory closure of site.

Client –Dominguez Energy, Carson, California

Prepared comprehensive evaluation of the potential health risks associated with the redevelopment of 6-acre portion of a 500-acre oil and natural gas production facility in Carson, California. The risk assessment was used as the basis for closure of the site.

Kaiser Ventures Incorporated, Fontana, California

Prepared health risk assessment of semi-volatile organic chemicals and metals for a fifty-year old wastewater treatment facility used at a 1,100-acre former steel mill. This evaluation was used as the basis for granting closure of the site by lead regulatory agency.

ANR Freight - Los Angeles, California

Prepared a comprehensive Preliminary Endangerment Assessment (PEA) of petroleum hydrocarbon and metal contamination of a former freight depot. This evaluation was as the basis for reaching closure of the site with lead regulatory agency.

Kaiser Ventures Incorporated, Fontana, California

Prepared comprehensive health risk assessment of semi-volatile organic chemicals and metals for 23-acre parcel of a 1,100-acre former steel mill. The health risk assessment was used to determine clean up goals and as the basis for granting closure of the site by lead regulatory agency. Air dispersion modeling using ISCST3 was performed to determine downwind exposure point concentrations at sensitive receptors within a 1 kilometer radius of the site. The results of the health risk assessment were presented at a public meeting sponsored by the Department of Toxic Substances Control (DTSC) in the community potentially affected by the site.

Unocal Corporation - Los Angeles, California

Prepared comprehensive assessment of petroleum hydrocarbons and metals for a former petroleum service station located next to sensitive population center (elementary school). The assessment used a probabilistic approach to estimate risks to the community and was used as the basis for granting closure of the site by lead regulatory agency.

Client: Confidential, Los Angeles, California

Managed oversight of remedial investigation most contaminated heavy metal site in California. Lead concentrations in soil excess of 68,000,000 parts per billion (ppb) have been measured at the site. This State Superfund Site was a former hard chrome plating operation that operated for approximately 40-years.

Client: Confidential, San Francisco, California

Coordinator of regional monitoring program to determine background concentrations of metals in air. Acted as liaison with SCAQMD and CARB to perform co-location sampling and comparison of accepted regulatory method with ASTM methodology.

Client: Confidential, San Francisco, California

Analyzed historical air monitoring data for South Coast Air Basin in Southern California and potential health risks related to ambient concentrations of carcinogenic metals and volatile organic compounds. Identified and reviewed the available literature and calculated risks from toxins in South Coast Air Basin.

IT Corporation, North Carolina

Prepared comprehensive evaluation of potential exposure of workers to air-borne VOCs at hazardous waste storage facility under SUPERFUND cleanup decree. Assessment used in developing health based clean-up levels.

Professional Associations

American Public Health Association (APHA)

Association for Environmental Health and Sciences (AEHS)

American Chemical Society (ACS)

California Redevelopment Association (CRA)

International Society of Environmental Forensics (ISEF)

Society of Environmental Toxicology and Chemistry (SETAC)

Publications and Presentations:**Books and Book Chapters**

Sullivan, P., **J.J. J. Clark**, F.J. Agardy, and P.E. Rosenfeld. (2007). *Synthetic Toxins In The Food, Water and Air of American Cities*. Elsevier, Inc. Burlington, MA.

Sullivan, P. and **J.J. J. Clark**. 2006. *Choosing Safer Foods, A Guide To Minimizing Synthetic Chemicals In Your Diet*. Elsevier, Inc. Burlington, MA.

Sullivan, P., Agardy, F.J., and **J.J.J. Clark**. 2005. *The Environmental Science of Drinking Water*. Elsevier, Inc. Burlington, MA.

Sullivan, P.J., Agardy, F.J., **Clark, J.J.J.** 2002. *America's Threatened Drinking Water: Hazards and Solutions*. Trafford Publishing, Victoria B.C.

Clark, J.J.J. 2001. "TBA: Chemical Properties, Production & Use, Fate and Transport, Toxicology, Detection in Groundwater, and Regulatory Standards" in *Oxygenates in the Environment*. Art Diaz, Ed.. Oxford University Press: New York.

Clark, J.J.J. 2000. "Toxicology of Perchlorate" in *Perchlorate in the Environment*. Edward Urbansky, Ed. Kluwer/Plenum: New York.

Clark, J.J.J. 1995. Probabilistic Forecasting of Volatile Organic Compound Concentrations At The Soil Surface From Contaminated Groundwater. UMI.

Baker, J.; **Clark, J.J.J.**; Stanford, J.T. 1994. Ex Situ Remediation of Diesel Contaminated Railroad Sand by Soil Washing. Principles and Practices for Diesel Contaminated Soils, Volume III. P.T. Kostecki, E.J. Calabrese, and C.P.L. Barkan, eds. Amherst Scientific Publishers, Amherst, MA. pp 89-96.

Journal and Proceeding Articles

- Tam L. K., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008) A Statistical Analysis Of Attic Dust And Blood Lipid Concentrations Of Tetrachloro-p-Dibenzodioxin (TCDD) Toxicity Equivalency Quotients (TEQ) In Two Populations Near Wood Treatment Facilities. Organohalogen Compounds, Volume 70 (2008) page 002254.
- Tam L. K., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008) Methods For Collect Samples For Assessing Dioxins And Other Environmental Contaminants In Attic Dust: A Review. Organohalogen Compounds, Volume 70 (2008) page 000527
- Hensley A.R., Scott, A., Rosenfeld P.E., **Clark, J.J.J.** (2007). "Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility." *Environmental Research*. 105:194-199.
- Rosenfeld, P.E., **Clark, J. J.**, Hensley, A.R., and Suffet, I.H. 2007. "The Use Of An Odor Wheel Classification For The Evaluation of Human Health Risk Criteria For Compost Facilities" *Water Science & Technology*. 55(5): 345-357.
- Hensley A.R., Scott, A., Rosenfeld P.E., **Clark, J.J.J.** 2006. "Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility." The 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN2006, August 21 – 25, 2006. Radisson SAS Scandinavia Hotel in Oslo Norway.
- Rosenfeld, P.E., **Clark, J. J.** and Suffet, I.H. 2005. "The Value Of An Odor Quality Classification Scheme For Compost Facility Evaluations" The U.S. Composting Council's 13th Annual Conference January 23 - 26, 2005, Crowne Plaza Riverwalk, San Antonio, TX.
- Rosenfeld, P.E., **Clark, J. J.** and Suffet, I.H. 2004. "The Value Of An Odor Quality Classification Scheme For Urban Odor" WEFTEC 2004. 77th Annual Technical Exhibition & Conference October 2 - 6, 2004, Ernest N. Morial Convention Center, New Orleans, Louisiana.
- Clark, J.J.J.** 2003. "Manufacturing, Use, Regulation, and Occurrence of a Known Endocrine Disrupting Chemical (EDC), 2,4-Dichlorophenoxyacetic Acid (2,4-D) in California Drinking Water Supplies." National Groundwater Association Southwest Focus Conference: Water Supply and Emerging Contaminants. Minneapolis, MN. March 20, 2003.

- Rosenfeld, P. and **J.J.J. Clark**. 2003. "Understanding Historical Use, Chemical Properties, Toxicity, and Regulatory Guidance" National Groundwater Association Southwest Focus Conference: Water Supply and Emerging Contaminants. Phoenix, AZ. February 21, 2003.
- Clark, J.J.J.**, Brown A. 1999. Perchlorate Contamination: Fate in the Environment and Treatment Options. In Situ and On-Site Bioremediation, Fifth International Symposium. San Diego, CA, April, 1999.
- Clark, J.J.J.** 1998. Health Effects of Perchlorate and the New Reference Dose (RfD). Proceedings From the Groundwater Resource Association Seventh Annual Meeting, Walnut Creek, CA, October 23, 1998.
- Browne, T., **Clark, J.J.J.** 1998. Treatment Options For Perchlorate In Drinking Water. Proceedings From the Groundwater Resource Association Seventh Annual Meeting, Walnut Creek, CA, October 23, 1998.
- Clark, J.J.J.**, Brown, A., Rodriguez, R. 1998. The Public Health Implications of MtBE and Perchlorate in Water: Risk Management Decisions for Water Purveyors. Proceedings of the National Ground Water Association, Anaheim, CA, June 3-4, 1998.
- Clark J.J.J.**, Brown, A., Ulrey, A. 1997. Impacts of Perchlorate On Drinking Water In The Western United States. U.S. EPA Symposium on Biological and Chemical Reduction of Chlorate and Perchlorate, Cincinnati, OH, December 5, 1997.
- Clark, J.J.J.**; Corbett, G.E.; Kerger, B.D.; Finley, B.L.; Paustenbach, D.J. 1996. Dermal Uptake of Hexavalent Chromium In Human Volunteers: Measures of Systemic Uptake From Immersion in Water At 22 PPM. *Toxicologist*. 30(1):14.
- Dodge, D.G.; **Clark, J.J.J.**; Kerger, B.D.; Richter, R.O.; Finley, B.L.; Paustenbach, D.J. 1996. Assessment of Airborne Hexavalent Chromium In The Home Following Use of Contaminated Tapwater. *Toxicologist*. 30(1):117-118.
- Paulo, M.T.; Gong, H., Jr.; **Clark, J.J.J.** (1992). Effects of Pretreatment with Ipratropium Bromide in COPD Patients Exposed to Ozone. *American Review of Respiratory Disease*. 145(4):A96.
- Harber, P.H.; Gong, H., Jr.; Lachenbruch, A.; **Clark, J.**; Hsu, P. (1992). Respiratory Pattern Effect of Acute Sulfur Dioxide Exposure in Asthmatics. *American Review of Respiratory Disease*. 145(4):A88.
- McManus, M.S.; Gong, H., Jr.; Clements, P.; **Clark, J.J.J.** (1991). Respiratory Response of Patients With Interstitial Lung Disease To Inhaled Ozone. *American Review of Respiratory Disease*. 143(4):A91.
- Gong, H., Jr.; Simmons, M.S.; McManus, M.S.; Tashkin, D.P.; Clark, V.A.; Detels, R.; **Clark, J.J.** (1990). Relationship Between Responses to Chronic Oxidant and Acute

Ozone Exposures in Residents of Los Angeles County. American Review of Respiratory Disease. 141(4):A70.

Tierney, D.F. and **J.J.J. Clark.** (1990). Lung Polyamine Content Can Be Increased By Spermidine Infusions Into Hyperoxic Rats. American Review of Respiratory Disease. 139(4):A41.

EXHIBIT B



WI #22-005.35

December 14, 2022

Kevin T. Carmichael
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

SUBJECT: Comments on Valor Elementary School Project Noise and Vibration Study

Dear Mr. Carmichael,

Per your request, I have reviewed the Noise and Vibration Study for the Valor Elementary School Project Mitigated Negative Declaration (MND) in the Mission Hills – Panorama City – North Hills Community Plan Area in the City of Los Angeles, California. The proposed project involves the construction of a one and two-story elementary school building, a multi-purpose room, administrative offices, covered outdoor dining, and surface parking on the project site. The Noise and Vibration Impact Analysis is contained in Section XIII of the MND, with supplemental calculations in Appendix I Noise and Vibration Study (Noise Study).

The Project is surrounded by noise sensitive uses – residences directly adjacent to the east, south and west, and residences to the north across Plummer Street, as well as Plummer Village Senior Community Center to the east of the site.

Baseline Noise Level characterizations are Incomplete

The noise analysis relies on two short-term measurements of 15-minute duration, on Wednesday, May 25, 2022, between 8:57 a.m. and 9:31 a.m. (MND page 102) and one 14-hour long-term measurement on May 25th and 26th (MND page 103).

The manner in which the MND has determined the existing noise environment is poorly supported. The noise environment is affected by transportation sources that can change from hour to hour and day to day, and best practices call for documentation of the existing condition with measurements at different times over several days. The long-term noise measurement would seem to document these changes, but is located at the back of the project site, is partially shielded from both nearby streets and does not capture traffic patterns at residences close to Plummer Street. As shown in Tables 18 and 19, the short-term Leq at location ST-1 is more than 10 dB higher than the same time frame at LT-1.

Higher baseline noise levels at the residences on Plummer Street would result in a noise environment that exceeds the normally acceptable CNEL levels for single-family homes per the Land Use and Noise Compatibility Matrix presented (MND page 105).

The MND should include an updated baseline analysis that incorporates noise measurements taken at key locations over a multi-day period, and to provide supporting information to validate the results.

Thresholds of Significance are Not Properly Developed

Construction Noise

The Noise Study cites LAMC (City of Los Angeles Municipal Code) Section 112.05 construction threshold (MND page 108) of 75 dBA *maximum noise level at 50 feet from the source*. LA County Code of Ordinances Section 12.08.440¹ provides a more conservative daytime threshold *at residential structures* of 75 dB for short-term operation and 60 dBA for long-term operation (more than 10 days) of construction activities. The project Air Quality and Greenhouse Gas Study lists construction phase durations, all above 10 days (Appendix A, page 6). The grading work, for example, which the Noise Study analyses as a “high-intensity” construction scenario in Appendix B will last 43 days. Therefore, the 60 dB at residential structures county limit is more appropriate.

Impact Analyses are Incomplete

Construction Noise

The construction noise calculations use a minimum receptor distance of 50 feet, per cited LAMC threshold. However, multiple phases of ongoing construction activity, including grading work, may be as close as 6 feet from the adjacent residences, resulting in higher Lmax levels (108 dB).

RCM-1 (MND page 109) indicates the erecting of a noise barrier along the project boundaries. While the MND is correct that this could provide up to 15 dBA of reduction under optimistic circumstances, the barrier does not reduce predicted construction levels to below threshold of significance.

The calculations provided in Appendix B of the Noise Study use Spec Lmax reference levels for some equipment and Actual Lmax reference levels for others (per RCNM). This does not change the maximum predicted level, but it is unclear why these lower reference levels were selected.

A sample calculation taken from Federal Highway Administration’s (FHWA) Roadway Construction Noise Model (RCNM) is presented below compared to the MND analysis. Calculations were performed at 15516 Plummer Street, which is a single-family residence adjacent to the project site and 6 feet east of the project boundary.

1

https://library.municode.com/ca/los_angeles_county/codes/code_of_ordinances?nodeId=TIT12ENPR_CH12.08NO_CO

Table 1: Modeled Lmax Construction Noise Levels at 15516 Plummer Street

Equipment	Spec Lmax Source Level at 50 ft (dBA)	Calculated Noise Level at 6 ft (dBA)	Calculated Noise Level with 12-ft Barrier (dBA)	County Noise Limit (dBA)	Impact?
Grader	85	103	88	60	YES
Excavator	85	103	88	60	YES
Concrete Saw	90	108	93	60	YES
Activity Lmax:			93	60	YES

Based on the calculations above, a 30+ dBA increase over the MND noise threshold would occur during construction. At such levels, more study in an EIR is required, and mitigation to reduce the impact is required.

On-Site Operations Noise

The MND does not provide quantitative analysis for noise from on-site operations such as activity in the play area, trash-hauling, or traffic noise and other activity during pick up/drop off along the driveway directly adjacent to residences. These activities may result in an increase of 5 dB or more over the ambient, especially if amplified sound is used in the play area.

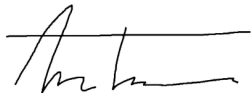
Conclusions

There are several errors and omissions in the MND noise analysis. Correcting these would potentially identify several significant impacts which require mitigation or an EIR.

Please feel free to contact me with any questions on this information.

Very truly yours,

WILSON IHRIG



Ani S. Toncheva
Senior Consultant



ANI TONCHEVA

Senior Consultant

Since joining the firm in 2011, Ani has conducted analyses for transit systems, vibration sensitive research facilities, public infrastructure, construction, and other environmental noise. She has contributed to literature reviews, including research on current practices of historical preservation. She has extensive experience working on construction projects in New York City and is well versed in local noise codes.

Education

- B.A., Physics; Bard College, New York

Professional Associations

- *Member*, National Council of Acoustical Consultants (NCAC)
- *Member*, Acoustical Society of America (ASA)
- *Board Member*, Transportation Research Forum (TRF), NY Chapter and International board

Research Paper

- NCHRP 25-25, *Current Practices to Address Construction Vibration and Potential Effects to Historic Buildings Adjacent to Transportation Projects*

Relevant Experience

BART Berryessa Station Transit Noise Impact and Mitigation, San Jose, CA Assisted with noise predictions and barrier design recommendations.

Massachusetts Bay Transportation Authority (MBTA) Green Line Extension (GLX), Boston, MA Lead analyst on noise predictions and barrier design.

RTD Eagle P3 Northwest Corridor Noise and Impacts, Denver, CO Assisted with data analysis and helped prepare final technical report.

Alameda CTC, I-880 Interchange Improvements Project (Whipple Road-Industrial Southwest and Industrial Parkway West), Hayward, CA Project Manager for traffic noise study.

Alameda CTC, I-80/Ashby Avenue Interchange Improvements, Berkeley, CA Project Manager for traffic noise study.

Millennium Bulk Terminal, Longview, WA Prepared noise analysis for the project's NEPA and SEPA environmental impact statements.

Peninsula Humane Society & SPCA Haskin Hill Sanctuary, Loma Mar, CA Prepared an environmental study for a planned animal sanctuary in Loma Mar.

Analog (ArtX) Hotel, Palo Alto, CA Prepared preliminary basis of design guidelines for a new five-story boutique hotel in a residential area.

Sunnydale Block 3A & 3B Mixed-Use Residential Development, San Francisco, CA Prepared a CCR Title 24 Noise Study Report for two, mixed-use, 5-story buildings.

Columbia University Medical Center Medical and Graduate Education Building, New York, NY
Conducted baseline noise survey and performed attended noise measurements during preliminary construction work.

Hudson Yards Tower C Foundations and Utilities, New York, NY
Conducted a baseline noise survey prior to construction work including a combination of long-term unattended and short-term attended noise measurements.

PANYNJ Lincoln Tunnel Helix Rehabilitation, NJ
Assisted in developing construction noise control and mitigation plan and implementing a remote long-term noise monitoring program at three locations.

MSK 74th Street, New York, NY
Conducted baseline noise survey, assisted in developing construction noise control and mitigation plan, and implemented a long-term noise monitoring program at two locations.

NY MTA No. 7 Line Subway Extension Ventilation Facility Construction, New York, NY
The project involved mining and lining of two shafts and construction of a 2-story ventilation building.

NY MTA ESA/LIRR Grand Central Terminal Fit-Out, New York, NY
Prepared the Contractor's noise and vibration control plan updates for fit-out work conducted underground at the Grand Central Terminal Suburban Level.

San Francisco Planning Department, Alameda Street Wet Weather Tunnel and Folsom Area Sewer Improvement, San Francisco, CA
Noise and vibration analysis for Folsom Area stormwater infrastructure improvements.

World Trade Center Vehicle Security Center, New York, NY
Conducted baseline noise surveys, assisted in developing construction noise control plans, and implementing a remote long-term noise monitoring program.

50 Pine Street Condominiums, New York, NY
Project involved evaluating mechanical noise at residential dwelling units for NYC noise code

Uptown Newport, Newport Beach, CA
Evaluation of noise levels due to mechanical equipment at adjacent property.

EXHIBIT C

Date : 11/22/2022 12:40:26 PM
From : "Maria Reyes"
To : "Esther Ahn"
Cc : "Brenda Kahinju"
Subject : Re: SCH Number (New SCH Number)

Thank you!

On Tue, Nov 22, 2022 at 12:28 PM Esther Ahn <esther.ahn@lacity.org> wrote:
Hi Maria,

Yes, I double-checked and this MND does not apply to the Code sections listed. There are no features of the project with State or State-/Area-/Regional-wide significance as it is an elementary school located on 2 lots of an urbanized area.

Thanks so much!
Esther

On Tue, Nov 22, 2022 at 12:16 PM Maria Reyes <maria.reyes@lacity.org> wrote:

Esther Please confirm that your MND does not apply to the code below? So that I can confirm with the state.

----- Forwarded message -----

From: **Meng Heu** <Meng.Heu@opr.ca.gov>
Date: Tue, Nov 22, 2022 at 12:13 PM
Subject: SCH Number (New SCH Number)
To: Maria L Reyes <maria.reyes@lacity.org>

Hello,

Thank you for your CEQA document submission. We noticed that you only included a local review period for your submission, but it seems like this project potentially falls under California Code of Regulations (CCR) Section [15205](#) – Review by State Agencies and/or CCR Section [15206](#) – Projects of Statewide, Regional, or Areawide Significance.

If this does fall under CCR Section 15205 or 15206, we will need to include a State review period in addition to the local review period and also assign

relevant State agencies to review your project.

Can you please verify that your agency determined this project does *not* fall under either CCR Section 15205 or 15206?

Meng Heu

Office of Planning and Research (OPR)

State Clearing House

****Note:** No reply, response, or information provided constitutes legal advice.

To view your submission, use the following link.

<https://cegasubmit.opr.ca.gov/Document/Index/283314/1>

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EXHIBIT 2

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February 21, 2022

VIA EMAIL

Commission President Millman and Commission Members
City Planning Commission

Email: cpc@lacity.org

Esther Ahn, Planner

Email: esther.ahn@lacity.org

**Re: Agenda Item 7: - Valor Elementary School Project, Case No.
CPC-2022-5865-CU-SPR, CEQA No. ENV-2022-5866-MND**

Dear Commission President Millman, Commission Members, and Ms. Ahn:

This letter is submitted on behalf of Coalition for Responsible Equitable Economic Development Los Angeles ("CREED LA") regarding Agenda Item 7, the Valor Elementary School Project, Case No. CPC-2022-5865-CU-SPR, CEQA No. ENV-2022-5866-MND ("project") proposed by Bright Star Schools ("Applicant").

On December 14, 2022, CREED LA submitted comments to the Department of Planning on the Mitigated Negative Declaration¹ ("MND") prepared for the Project pursuant to the California Environmental Quality Act ("CEQA")² by the City of Los Angeles ("City"). Our comments explained that the City failed to comply with CEQA by failing to accurately disclose the extent of the Project's potentially significant impacts on air quality, public health, hazards, public services, and noise, and that there is more than a fair argument that the Project will result in significant, unmitigated impacts in each of these areas.

On February 15, 2023 the City released a Recommendation Report for the Project which contains responses to our comments from Planning Department staff

¹ City of Los Angeles, Mitigated Negative Declaration, Valor Elementary School Project ("MND") Case No: ENV-2022-5866-MND (November 2022) available at <https://planning.lacity.org/odocument/4665dfef-ecad-42b5-80b6-575ca5e17851/ENV-2022-5866.pdf>

² Public Resources Code § 21000 *et seq.*; 14 Cal. Code Regs. ("C.C.R.") §§ 15000 *et seq.* L6420-010j

and the Applicant's consultant, Rincon Consultants Inc.³ The City's responses fail to resolve the majority of issues raised in CREED LA's MND comments. This letter addresses the responses to comments contained in the Recommendation Report and Rincon Report. Air quality and hazards expert James Clark, Ph.D and noise expert Ani Toncheva also provided responses to the Recommendation Report, attached to this letter as Attachments A and B respectively.⁴ In sum, these comments show that the City does not provide substantial evidence to justify reliance on an MND, that substantial evidence remains in the record demonstrating that the Project has significant, unmitigated impacts, and the Planning Commission cannot make the findings required to approve the Project under the City's municipal code.⁵

For the reasons discussed in our herein, in our previous letter, and the attached expert comments, CREED LA urges the Commission to remand the Project to staff so that they can correct the deficiencies in the MND by preparing a legally adequate EIR and recirculating it for public review and comment before the Project can be considered for approval.⁶

A. The City Must Prepare a Preliminary Endangerment Assessment Pursuant to the California Education Code.

In our comments on the MND, we noted that the City failed to consult with the Department of Toxic Substances Control ("DTSC") and prepare a Preliminary Endangerment Assessment ("PEA") for the Project. In response, the City states that the California Education Code section 47610 exempts charter schools from many provisions of the Education Code including the requirement to consult with DTSC.⁷ However, when a charter school receives funds from the state to construct or improve its buildings under the Charter School Facilities Program ("CSFP"), the

³ Department of City Planning, Recommendation Report, Valor Elementary School Final IS-MND (ENV-202205866-MND) (February 23, 2023) available at https://planning.lacity.org/plndoc/Staff_Reports/2023/02-23-2023/CPC_2022_5865.pdf; see also Exhibit E, Rincon Consultants, Responses to CREED LA Comment Letter Dated December 14, 2022 (February 9, 2023) (hereinafter "Rincon") beginning at pdf. p. 239.

⁴ **Attachment A:** Comments on Valor Elementary School Project (February 20, 2023) ("Clark Comments"); **Attachment B:** Comments on Valor Elementary School Project Responses (February 21, 2023) ("Wilson Ihrig Comments").

⁵ Pub. Res. Code § 21081; *Covington v. Great Basin Unified Air Pollution Control Dist.* (2019) 43 Cal.App.5th 867, 883.

⁶ We reserve the right to supplement these comments at later hearings on this Project. Gov. Code § 65009(b); Public Resources Code § 21177(a); *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal.App.4th 1184, 1199–1203; see *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal.App.4th 1109, 1121.

⁷ Rincon, Response 4.1, p. 3.

school is subject to additional requirements, including the requirements to consult with DTSC.

The CSFP was enacted in 2002 by Assembly Bill 14, amended by Senate Bill 15 and Assembly Bill 16, and funded through Proposition 47, Proposition 55, Proposition 1D, and Proposition 51, for the purposes of constructing, acquiring, or renovating new facilities for site-based charter school students throughout California.⁸ The CSFP is codified in Education Code Chapter 12.5 section 17078.52.⁹ The CSFP allows charter schools to access state facility funding for new construction directly or through the school district where the charter school is physically located. The program funds 50 percent of project costs as a grant (paid by the State), while the charter school, in the form of a long-term lease or a lump sum payment, repays the remaining 50 percent.¹⁰

As a condition of receiving state funding pursuant to Chapter 12.5, a charter school must complete the three-step process outlined in Education Code § 17213.1 and assess whether there has been a release of hazardous waste at a school site.¹¹ As explained in our prior comments, process requires consultation with DTSC and to enter into an Environmental Oversight Agreement with DTSC, then contract with a qualified environmental consultant to prepare an assessment according to DTSC guidelines.¹²

Bright Star Schools' 2022-2023 budget audit report states that it received Proposition 1D grants which are categorized as "Proposition Construction Revenue" in the budget.¹³ Based on the Audit Report it appears that Bright Star Schools intends to use the funds from the Proposition 1D grants to fund school construction projects such as the Project here, noting that \$26,971,711 in assets are restricted for construction.¹⁴ Because the funds are made available through Education Code Chapter 12.5, then, in order to use these funds for Project construction, Bright Star Schools is required to comply with Education Code § 17213.1 and consult with DTSC regarding the Project's potential health risks to students.

⁸ California State Treasurer's Office, School Finance Authority, Charter School Facilities Program Overview (2023) ("STO Overview") available at <https://www.treasurer.ca.gov/csfa/charter.asp>

⁹ Ed. Code, § 17078.52.

¹⁰ STO Overview (2023).

¹¹ Ed. Code §17213.1 *see also* DTSC, Environmental Assessments For Charter School Sites Fact Sheet available at <https://dtsc.ca.gov/environmental-assessments-for-charter-school-sites-fact-sheet/>

¹² Ed. Code §17213.1(a)(4)(B).

¹³ Bright Star Schools, 2022-2023 Budget Report on the Financial Statement ("Auditor's Report") (June 30, 2022) p. 11. Available at https://brightstarschools.org/files/galleries/2022_Audited_Financials.pdf

¹⁴ Auditor's Report, p. 7.

The City failed to consult with DTSC in violation of the Education Code. Additionally, based on the results of the Phase I completed for the Project, there is a fair argument that if the City had consulted with DTSC, a PEA would be required. The Planning Commission must continue the hearing until consultation with DTSC is completed, and prepare and circulate a revised CEQA document which includes the results of the consultation and any subsequent PEA prepared for the Project.

B. There is Substantial Evidence Supporting a Fair Argument That the Project Will Result in Significant, Unmitigated Health Risks from Exposure to Freeway Emissions

As explained in our initial comments and herein, the City failed to analyze the background risk from air pollution in the Project area. Development of the Project will place children and staff in an area of high air pollution concentrations. In his review of the Recommendation Report and Responses, Dr. Clark found that the cumulative cancer risk from air pollutants in the area of the project is 413 in 1,000,000.¹⁵ Diesel particulate matter (“DPM”) accounts for approximately 65 percent of that risk or 268 in 1,000,000, while the 145 in 1,000,000 comes from benzene, formaldehyde and other gasses which will not be treated with the MERV filters.¹⁶ Assuming that the MERV 13 filters at the site reduce the cancer risk from DPM by 90 percent, the cumulative risk to students and staff will still exceed the SCAQMD threshold of 100 in 1,000,000, resulting in a significant impact. The Responses fail to include additional mitigation such as measures requiring the Project to minimize the amount of time the students spend outside to limit exposure. The City must prepare an EIR which includes additional mitigation measures to protect students and staff or contain the findings necessary to justify a statement of overriding considerations if the risk cannot be mitigated to below the threshold.

C. There is Substantial Evidence Supporting a Fair Argument That the Project Will Result in Significant, Unmitigated Noise Impacts

We previously commented that the long term noise measurement taken for the Project failed to document the changes in the noise environment that occur through the day because the measurement was taken at the back of the Project site where it is partially shielded from both nearby streets and does not capture traffic

¹⁵ Clark Letter, p. 1.

¹⁶ Clark Letter, p. 2.

patterns at residences close to Plummer Street. The City's Response 5.1 states that this was done on purpose and results in a more conservative analysis to measure project noise against.¹⁷ However, Ms. Toncheva found that the long-term measurement location still fails to adequately document the existing noise impacts to all sensitive receptor locations nearby the Project site, including those along Plummer Street, adjacent to the Project site. Additional measurement and analysis is required to characterize the existing noise environment at the Project site.

Additionally, the City provides new information regarding the Project's operational noise, stating that the Project will not employ bells or an outdoor paging system.¹⁸ However, the City failed to quantify the Project's operational noise and therefore lacks substantial evidence to conclude that the Project will not have a significant impact. Furthermore, Ms. Toncheva found that, while the Project buildings will shield receptors to the west and south, the residence to the east of the site is not shielded and may be exposed to reflections of Project noise.¹⁹

Ms. Toncheva concludes that the Project's construction and operational noise impacts remain significant and unmitigated notwithstanding the mitigation measures proposed in the MND and the Project's conditions of approval. Ms. Toncheva's comments provide substantial evidence supporting a fair argument that an EIR is required to accurately disclose and mitigate these impacts.

D. The MND Fails to Account for the Public Services That Will Be Needed to Support the Project

The Responses fail to address whether consultation with LAPD will result in changes to the Project design or require additional police services to support the Project. An MND must consider the effect of changes to the environment that can result from the expansion of services.²⁰ Here, the MND states that the Project would not place an unanticipated burden on police protection services.²¹ However, the MND and responses fail to include any information or analysis on how this conclusion was reached.

As detailed in our previous comments, the City failed to proceed in the manner required by law by failing analyze consistency with the Community Plan's public protection policies and lacks substantial evidence to support its conclusion

¹⁷ Rincon, p. 8.

¹⁸ Recommendation Report, p. C-6.

¹⁹ Wilson Ihrig, p .2.

²⁰ *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal.3d 553.

²¹ MND, p. 116.

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that the Project's public services impacts would be less than significant. The responses fail to meaningfully respond to CREED LA's prior comments. The City must complete the required consultation with LAPD and analyze the environmental impacts of any required Project design changes to the Project in an EIR.

II. THE CITY LACKS SUBSTANTIAL EVIDENCE TO APPROVE THE PROJECT'S LOCAL LAND USE PERMITS

A. The City Cannot Approve the Project's Conditional Use Permit

The Project seeks approval of a Conditional Use Permit to allow development of a public school in the RA-1 zone ("CUP") pursuant to LAMC § 12.24.²² The MND fails to accurately disclose and mitigate significant impacts, as discussed herein. Therefore, the Project fails to meet the LAMC requirements to obtain a CUP. LAMC § 12.24(E)(2) and (3) require "that the project's location, size, height, operations and other significant features will be compatible with and will not adversely affect or further degrade adjacent properties, the surrounding neighborhood, or the public health, welfare, and safety" and that the Project "conforms with the purpose, intent and provisions of the General Plan, the applicable community plan". The Project as analyzed above **will** adversely affect public health due to the Project's proximity to I-405 and the unmitigated impacts to future students and school staff, **will** adversely affect adjacent properties due to unmitigated noise impacts and, and **does not** conform with the applicable community plan by failing to consult with LAPD prior to Project approval.

III. CONCLUSION

For the reasons stated herein and in our prior comments and the comments of CREED LA's experts, CREED LA respectfully requests that the City Planning Commission remand the Project to staff and direct staff to prepare an EIR for the Project.

Sincerely,

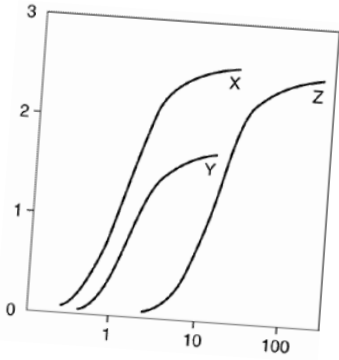


Kevin Carmichael

KTC:lj1

²² LAMC § 12.24(U)(24).
L6420-010j

ATTACHMENT A



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February 20, 2023

Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

Attn: Mr. Kevin Carmichael

**Subject: : Comments On Staff Recommendation Report Of Initial
Study/Mitigated Negative Declaration (IS/MND) For
Valor Elementary School Project, Los Angeles, CA 91343
Case Number: ENV-2022-5866-MND**

Dear Mr. Carmichael:

At the request of Adams Broadwell Joseph & Cardozo (ABJC), Clark and Associates (Clark) has reviewed materials related to the 2022 City of Los Angeles' (the City's) Staff Recommendation Report regarding the above referenced project.

Clark's review of the materials in no way constitutes a validation of the conclusions or materials contained within the plan.

The Staff's analysis ignores the substantial evidence previously detailed to them in my comment letter that mitigation measures outlined by the Proponent (installation of MERV 13 filtration system) to reduce the cumulative air quality impacts fail to protect the students and staff a clearly unacceptable risk. According to the Multiple Air Toxics Exposure Study V (MATES V) published by the South Coast Air Quality Management District (SCAQMD) in August 2021, air quality modeling of sources in the vicinity of the Project (including Interstate 405) lead to a cumulative risk from air toxins of 413 in 1,000,000 for the Project site.

The risk drivers in the area included diesel particulate matter (DPM), arsenic, benzene, formaldehyde, and other air toxins. Diesel particulate matter (DPM) accounts for 65% of the risk (268 out of the 413 calculated). MERV 13 technology reduces particulate matter and not vapors/gases. The remaining risk from air pollutants (145 out of the 413) is from benzene, formaldehyde and other gases. Assuming that the Proponent's estimates that 90% (as outlined by IS/MND) of the DPM risk is controlled by the mitigation measure, it is clear that the Project will be exposing sensitive receptors (students and staff) to risks in excess of 100 in 1,000,000. The City must re-evaluate the significant impacts identified in this letter by requiring the preparation of a revised DEIR and outline additional measures to protect the staff and students from their exposure to air toxins that will not be controlled by the planned mitigation measure.

Sincerely,

A handwritten signature in black ink, appearing to read "J. J. Corbett". The signature is written in a cursive, flowing style with a horizontal line extending from the end.



WILSON IHRIG
ACOUSTICS, NOISE & VIBRATION

CALIFORNIA
WASHINGTON
NEW YORK

WI #22-005.35

February 21, 2023

Kevin T. Carmichael
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

SUBJECT: Comments on Valor Elementary School Project Noise and Vibration Study, Follow-up Comments on Response to Public Comments

Dear Mr. Carmichael,

Wilson Ihrig has reviewed the Staff Report prepared for the Valor Elementary School Project hearing before the Los Angeles Planning Commission on February 23, 2023, including responses to comments prepared by Rincon Consultants, Inc. on behalf of the Project applicant, dated February 9, 2023. Following are further comments or clarifications.

Response 5.1

As stated in our initial comments, LT1 is shielded from traffic noise and the relatively flat hourly noise levels reported in Table 19 do not appear to capture the range of time-varying traffic noise patterns at the residences **close** to Plummer Street. We agree that the long-term measurement (LT1) captures the lowest ambient noise level at sensitive receivers near the project and that a 24-hour noise measurement can capture traffic noise changes from hour to hour. However, the existing noise impacts from Plummer are not adequately documented with the results from LT1.

Per Section I.2 of the LA CEQA Threshold Guide, significance thresholds for operational noise are contingent on the CNEL of the affected land uses. Therefore, the discussion should be updated to address how the selected measurement locations characterize the existing noise environment at all residential land uses nearest the project.

Response 5.3

The MND lacks evidence (calculations) to verify that a 15 dB reduction will result from the noise barrier described in mitigation measure RCM-1.

Response 5.4

We note that the response provides additional information on the school operation hours and confirms that there will be no PA system installed. The MND must provide evidence (quantitative calculations) to verify that on-site operations noise will not result in a significant increase over ambient levels. Many of the homes near the site will be shielded from play area activities, per the project site plan in Figure 4 in the MND. However, the residence East of the site at 15508 Plummer Street, is not shielded from play areas and may be exposed to reflections from the proposed building configuration. Please provide calculations showing expected operation noise levels at the residences.

Please feel free to contact me with any questions on this information.

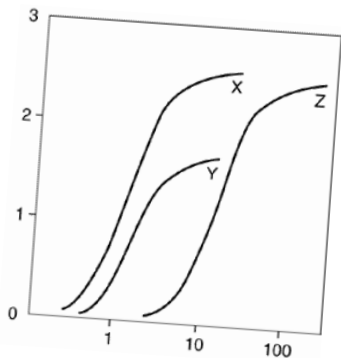
Very truly yours,

WILSON IHRIG

A handwritten signature in black ink, appearing to read 'Ani Toncheva', with a long horizontal flourish extending to the right.

Ani S. Toncheva
Senior Consultant

EXHIBIT A



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February 20, 2023

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Attn: Mr. Kevin Carmichael

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Sincerely,



EXHIBIT B



WI #22-005.35

February 21, 2023

Kevin T. Carmichael
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

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Ani S. Toncheva
Senior Consultant