APPENDIX A
NOTICE OF PREPARATION AND SCOPING MEETING MATERIALS

NOP

CLERK OF THE BOARD

Received on: 12/08/2020

Remove on: 01/20/2020

City of Ontario
Planning Department
303 East "B" Street
Ontario, California
Phone: (909) 395-2036
Fax: (909) 395-2420

California Environmental Quality Act

Notice of Preparation

TO: Property Owners, Responsible Agencies & Interested Parties

FROM: City of Ontario, 303 East "B" Street, Ontario, CA 91764

SUBJECT: NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT.

NOTICE IS HEREBY GIVEN that the City of Ontario will be the Lead Agency and will prepare an environmental impact report for the project identified below. We need to know the views of your agency as to the scope and content of the environmental information, which is germane to your agency's statutory responsibilities in connection with the proposed project. Your agency will need to use the EIR prepared by our agency when considering your permit or other approval for the project.

The project description, location, and the potential environmental effects are summarized herein. A copy of the Expanded Notice of Preparation (NOP) is available at City Hall, Planning Department, 303 East "B" Street, Ontario, CA 91764, and on the City's website at http://www.ontarioca.gov.

The proposed project ☒ is, ☐ is not, considered a project of statewide, regional, or area-wide significance. The proposed project ☒ will, ☐ will not, affect highways or other facilities under the jurisdiction of the State Department of Transportation. A scoping meeting ☒ will, ☐ will not, be held by the lead agency. A project **scoping meeting** will be held on **Monday, December 21, 2020 at 6:00 PM** via Zoom.

Pursuant to Governor Gavin Newsom's executive order N-29-20, the San Bernardino County Department of Public Health requirements, and to ensure the health and safety of our residents by limiting contact that could spread the COVID-19 virus, there will be no members of the public in attendance of the scoping meeting. Members of the public, project applicants and consultants, and staff will participate in this meeting via Zoom.

In place of in-person attendance, members of the public can observe and offer comment at this meeting remotely in one of three ways:

1. PROVIDE PUBLIC TESTIMONY DURING THE MEETING: The Zoom meeting link and call-in phone number will be made available on the City's website a minimum of 72 hours prior to the hearing, which can be accessed at http://www.ontarioca.gov/planning
2. E-MAIL: Please e-mail your comments to the City Contact no later than 4:00 PM on the day of the meeting.
3. TELEPHONE BEFORE THE MEETING: Please call the City Contact prior to and no later than 4:00 PM on the day of the meeting to submit your comments on the project.

Any members of the public who require special assistance or a reasonable accommodation to participate in the scoping meeting may contact the project planner or the Planning Department at (909) 395-2036, 72 hours prior to the meeting.

If you do not wish to participate in the scoping meeting, but would like to comment on the project, please send your comments, including contact information, to Alexis Vaughn, Assistant Planner, Ontario Planning Department, 303 East "B" Street, Ontario, CA 91764, (909)395-2036 or avaughn@ontarioca.gov no later than **Monday, January 4, 2021.**

Project Title/File No.: South Ontario Logistics Center Specific Plan (File No. PSP19-001)

Project Location: South Ontario Logistics Center Specific Plan (Specific Plan) EIR is located east of the existing right-of-way for the future Campus Avenue extension, north of Merrill Avenue, south of Eucalyptus Avenue and west of Grove Avenue in Ontario, California, 91764. The project consists of 23 parcels: APNs 1054-071-01, -02; 1054-081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-231-01, -02; 1054-241-01, 02; 1054-321-01, -02; 1054-311-01, -02; 1054-051-01, -02; 1054-061-01, -02; 1054-251-01, -02 and 1054-301-01, -02. Regional access is available to the Project site via State Route 83 (CA-83) approximately one mile to the west, State Route 60 (CA-60) approximately

three miles to the north, Interstate 15 (I-15) approximately five miles to the east, and State Route 91 (CA-91) approximately eight miles to the south.

The project site is on an existing operational dairy farm with several residential structures, dairy barns, storage structures and feed storage barns, and numerous livestock corrals. To the north, east, and west of the proposed Project site exists mostly rural farmland, and to the south is the Chino Airport within the City of Chino.

Project Description: The Project includes a General Plan Amendment, Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s) to allow development of approximately 5.4 million square feet (SF) of industrial and business park land uses on the 222.18-acre site, as described further below. The Project is proposed in two phases. Phase I, comprised of Planning Areas 1 and 2, would allow approximately 3,172,780 SF of industrial and business park uses. Phase I will be evaluated at a project-specific level in the EIR. The Development Plan for Phase I currently proposes the construction of eight industrial concrete tilt-up industrial/warehouse buildings totaling 2,926,955 SF of industrial/warehouse and ancillary office space. The EIR will also evaluate, at a programmatic level, the potential future development of Phase II, which is comprised of Planning Areas 3, 4 and 5 (no specific development proposals have been identified for the Phase II area). The development of Phase II including construction phasing and timing would be determined based on market conditions and other factors. The EIR will evaluate the total maximum allowable development in the Specific Plan, which is 5,412,591 SF of industrial and business park land uses and associated onsite and offsite infrastructure improvements. The proposed General Plan Amendment would amend the City's General Plan Land Use Map by changing the existing land designations of the project site from 159.04 acres of "Low Medium Density Residential" (5.1-11 du/ac) and 63.14 acres of "Business Park" (0.6 FAR) to 181.04 acres of "General Industrial," (0.55 FAR) and 41.14 acres of "Business Park," (0.6 FAR) to facilitate the development of the Project site. The Specific Plan proposes a comprehensive land use plan, circulation plan, streetscape plan, infrastructure service plan, grading plan, maintenance plan, phasing plan, design guidelines, development regulations, and implementation measures to guide the development of the five Planning Areas.

Environmental Issues: An Initial Study has not been prepared for the Project as the City has determined that an EIR will clearly be required for the Project, which is in the discretion of the Lead Agency as set forth in State CEQA Guidelines Section 15063(a). Accordingly, the following environmental topics will be analyzed within the forthcoming EIR:

- Aesthetics;
- Agriculture and Forestry Resources;
- Air Quality;
- Biological Resources;
- Cultural Resources;
- Energy;
- Geology and Soils;
- Greenhouse Gas Emissions;
- Hazards/Hazardous Materials;
- Hydrology/Water Quality;
- Land Use and Planning;
- Mineral Resources
- Noise;
- Population/Housing;
- Public Services;
- Recreation
- Transportation;
- Tribal Cultural Resources;
- Utilities/Service Systems; and
- Wildfire.

Public Review Period: The City welcomes input and comments regarding preparation of the EIR. The NOP and Expanded NOP are available for a 30-day public review period **beginning December 4, 2020 and ending January 4, 2021**. Pursuant to State CEQA Guidelines Section 15082, responsible and trustee agencies and other interested parties, including members of the public, must submit any comments in response to this notice no later than 30 days after receipt of the notice.

Project Sponsor: Bill Goltermann, Principal, Real Estate Development Associates, 4450 MacArthur Blvd., Suite 100, Newport Beach, CA 92660.

Consulting firm retained to prepare Draft EIR: Kimley-Horn & Associates Inc., 3880 Lemon Street, Suite 420, Riverside, CA 92501; Contact: Kevin Thomas (951) 543-9868.

Signature	Assistant Planner Title	December 3, 2020 Date

NOP MAILING LIST

State Clearinghouse
Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, CA 95814
ONT-05

City of Ontario
Planning Department
303 East B Street
Ontario, CA 91764
ONT-05

City of Fontana
Planning Department
8353 Sierra Avenue
Fontana, CA 92335
ONT-05

City of Chinobao
Community Development
13220 Central Avenue
Chino, CA 91710
ONT-05

City of Eastvale
Community Development
12363 Limonite, Suite 910
Eastvale, CA 91752
ONT-05

County of San Bernardino
Clerk of the Board
385 North Arrowhead, 2nd Floor
San Bernardino, CA 92415
ONT-05

San Bernardino Ass'n of Governments
Planning Department
1170 West Third Street, 2nd Floor
San Bernardino, CA 92410
ONT-05

San Bernardino County Public Works
Environmental Management Division
825 East Third Street
San Bernardino, CA 92415
ONT-05

California Department of Fish & Game
4665 Lampson Avenue, Suite J
Los Alamitos, CA 90720
ONT-05

Army Corps of Engineers
Los Angeles District
911 Wilshire Boulevard
Los Angeles, CA 90017
ONT-05

Sierra Club
San Gorgonio Chapter
4079 Mission Inn Avenue
Riverside, CA 92501
ONT-05

Riverside County
Planning Department
4080 Lemon Street, 9th Floor
Riverside, CA 92502
ONT-05

City of Ontario
City Clerk
303 East B Street
Ontario, CA 91764
ONT-05

City of Ontario
Main Library
215 East C Street
Ontario, CA 91764
ONT-05

CALTRAN District # 8
464 West Fourth Street
6th Floor, MS 726
San Bernardino, CA 92401
ONT-05

South Coast Air Quality Management
Ditrict (SCAQMD)
21865 Copley Drive
Diamond Bar, CA 91765
ONT-05

California Department of Fish & Game
3602 Inland Empire Boulevard, Suite C-220
Ontario, CA 91764
ONT-05

Santa Ana Regional Water
Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501
ONT-05

County of San Bernardino
Land Use Services Dept, Adv. Planning Div.
385 North Arrowhead Avenue
San Bernardino, CA 92415
ONT-05

Southern California Ass'n of Govts (SCAG)
CEQA Review
818 West Seventh Street, 12th Floor
Los Angeles, CA 90017
ONT-05

San Bernardino County
Flood Control District
825 East Third Street, Room 201
San Bernardino, CA 92415
ONT-05

U.S. Fish & Wildlife Service
Ecological Serv-Carlsbad Office
6010 Hidden Valley Road
Carlsbad, CA 92011
ONT-05

Endangered Habitats League
8424-A Santa Monica Boulevard
Los Angeles, CA 90069
ONT-05

Jurupa Unified School District
Facilities Planning Office
4850 Pedley Road
Riverside, CA 92509
ONT-05

Inland Empire Utilities Agency
Planning Department
6075 Kimball Avenue
Chino, CA 91710
ONT-05

Verizon - Engineering
1400 East Phillips Boulevard
Building A
Pomona, CA 91766
ONT-05

Southern California Edison
P.O. Box 800
Rosemead, CA 91770
ONT-05

Chaffey Community College District
Business Services
5885 Haven Avenue
Rancho Cucamonga, CA 91737
ONT-05

Metropolitan Water District
700 North Alameda Street
Los Angeles, CA 90012
ONT-05

San Bernardino County Waste
Management Department
222 West Hospitality Lane, 2nd Floor
San Bernardino, CA 92415
ONT-05

Southern California Edison
Attn: Christian Nelson
1315 East Francis Street
Ontario, CA 91761
ONT-05

Southern California Edison
Right-of-Way
P.O. Box 410
Long Beach, CA 90801
ONT-05

Southern California Gas Company
Technical Services Planning Department
1981 W. Lugonia Avenue
Redlands, CA 92373
ONT-05

Mountain View School District
Facilities Planning Office
2585 South Archibald Avenue
Ontario, CA 91761
ONT-05

Chaffey Joint High School District
Facilities Planning Office
211 West 5th Street
Ontario, CA 91762
ONT-05

Time Warner
Lewis McDonald
1500 Auto Center Drive
Ontario, CA 91761
ONT-05

OMNITRANS
1700 West Fifth Street
San Bernardino, CA 92411
ONT-05

West Valley Materials
Recovery Facility
13373 Napa Street
Fontana, CA 92335
ONT-05

Jurupa Community Services District
11201 Harrell Street
Mira Loma, CA 91752
ONT-05

Native American Heritage Commission
915 Capitol Mall, Room 364
Sacramento, CA 95814
ONT-05

San Bernardino County
Environmental Analysis Section
385 North Arrowhead
San Bernardino, CA 92415
ONT-05

San Bernardino County
Transportation Authority
1170 West Third Street, 2nd Floor
San Bernardino, CA 92410
ONT-05

Ontario International Airport
Airport Manager
1923 E. Avion Street
Ontario, CA 91761
ONT-05

Inland Empire West Resource
Conservation District
2816 East 4th Street
Ontario, CA 91764
ONT-05

State Water Resources
Control Board District 8
3737 Main Street, Suite 500
Riverside, CA 92501-3339
ONT-05

SCE - Third Party Environmental
Review - Karen Cadavona
2244 Walnut Grove Ave.
Rosemead, CA 91770
ONT-05

SCE - Local Public Affairs - Jennifer Shaw
7951 Redwood Ave.
Fontana, CA 92336
ONT-05

City of Rancho Cucamonga Planning Dept
10500 Civic Center Drive
Rancho Cucamonga, CA 91729
ONT-05

City of Upland Planning Department
460 North Euclid Avenue
Upland, CA 91786
ONT-05

Airport Land Use Commision Riverside
County Administrative Center
4080 Lemon Street 14th Floor
Riverside, CA 92501
ONT-05

City of Montclair Planning Department
5111 Benito Street
Montclair, CA 91763
ONT-05

George Borba & Sons Dairy
7955 Eucalyptus Avenue
Onatrio, CA 91762
ONT-05

Stacey Oborne
Lozeau/Drury LLP
1939 Harrison Street, Suite 150
Oakland, CA 94612
ONT-05

Komalpreet Toor
Lozeau/Drury LLP
1939 Harrison Street, Suite 150
Oakland, CA 94612
ONT-05

NEWSPAPER NOTICE

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT AND SCOPING HEARING TO BE PREPARED BY THE CITY OF ONTARIO FOR THE SOUTH ONTARIO LOGISTICS CENTER SPECIFIC PLAN (FILE NO. PSP19-001) AND RELATED GENERAL PLAN AMENDMENT (FILE NO. PGPA19-004)

Notice is hereby given that the City of Ontario (Latitude 34°03'N / Longitude 117°37'W) will be the Lead Agency and will prepare an Environmental Impact Report (EIR) for the project identified below. Interested public agencies are invited to comment on the scope of the EIR. A copy of an expanded Notice of Preparation is available for review at the following locations or by or may be viewed online at https://www.ontarioca.gov/Planning .

City Hall, Planning Department
303 East "B" Street
Ontario, CA 91764

Ontario Main Library
215 East "C" Street
Ontario. CA 91764

Project Location: South Ontario Logistics Center Specific Plan (Specific Plan) EIR is located east of the existing right-of-way for the future Campus Avenue extension, north of Merrill Avenue, south of Eucalyptus Avenue and west of Grove Avenue in Ontario, California, 91764. The project consists of 23 parcels: APNs 1054-071-01, -02; 1054- 081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-231-01, -02; 1054-241-01, 02; 1054-321-01, -02; 1054-311-01, -02; 1054-051-01, -02; 1054-061-01, -02; 1054-251-01, -02, and 1054-301-01, -02. Regional access is available to the Project site via State Route 83 (CA-83) approximately one mile to the west, State Route 60 (CA-60) approximately three miles to the north. Interstate 15 (I-15) approximately five miles to the east and State Route 91 (CA-91) approximately eight miles to the south.

The project site is on an existing operational dairy farm with several residential structures, dairy barns, storage structures and feed storage barns, and numerous livestock corrals. To the north, east, and west of the proposed Project site, exists mostly rural farmland, and to the south is the Chino Airport within the City of Chino.

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- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards/Hazardous Materials
- Hydrology/Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population/Housing
- Public Services
- Recreation
- Transportation
- Tribal Cultural Resources
- Utilities/Service Systems
- Wildfire

The EIR will address the short and long-term effects of the project on the environment. It will also evaluate the potential for the project to cause direct and indirect growth-inducing

Advertising Order Confirmation

will also evaluate the potential for the project to cause direct and indirect growth-inducing impacts, as well as cumulative impacts. Alternatives to the proposed project will be evaluated that may reduce impacts that are determined to be significant in the EIR. Mitigation measures may be proposed for those impacts that are determined to be significant. A mitigation monitoring program will also be developed as required by Section 15097 of the CEQA Guidelines.

The environmental determination in this Notice of Preparation is subject to a 30-day public review period per Public Resources Code Section 21080.4 and CEQA Guidelines Section 15082. Public agencies, interested organizations, and individuals have the opportunity to comment on the proposed project and identify the environmental issues, which have the potential to be affected by the project, and should therefore be addressed further in the EIR.

A scoping meeting will be held by the City of Ontario on **Monday, December 21, 2020, at 6:00 PM** via Zoom.

Pursuant to Governor Gavin Newsom's executive order N-29-20, the San Bernardino County Department of Public Health requirements, and to ensure the health and safety of our residents by limiting contact that could spread the COVID-19 virus, there will be no members of the public in attendance of the scoping meeting. Members of the public, project applicants and consultants, and staff will participate in this meeting via Zoom.

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If you do not wish to participate in the scoping meeting but would like to comment on the project, please send your comments, including contact information, to Alexis Vaughn, Assistant Planner, Ontario Planning Department, 303 East "B" Street, Ontario, CA 91764, (909) 395-2416 or **avaughn@ontarioca.gov**, no later than Monday, January 18, 2021.

Rudy Zeledon
Planning Director

Publish Date: December 18, 2020
Inland Valley Daily Bulletin **Ad#11431218**

Product	*Requested Placement*	*Requested Position*	*Run Dates*	*# Inserts*
Daily Bulletin	Legals CLS LA-SB-PE	General IE - 1076~	12/18/20	1
SB Sun	Legals CLS NP	General NP - 1076~	12/18/20	1
PE Riverside:Full Run	Legals CLS LA-SB-PE	General IE - 1076~	12/18/20	1

Order Charges:

Net Amount	*Tax Amount*	*Total Amount*	*Payment Amount*	***Amount Due***
1,506.80	0.00	1,506.80	0.00	**$1,506.80**

If this confirmation includes an advertising proof, please check your proof carefully for errors, spelling, and/or typos. Errors not marked on the returned proof are not subject to credit or refunds.

Please note: To meet our printer's deadline, we must have your proof returned by the published deadline, and as indicated by your sales rep.

Please note: If you pay by bank card, your card statement will show the merchant as "SoCal Newspaper Group".

PUBLIC SCOPING MEETING PRESENTATION

City of Ontario

South Ontario Logistics Center Specific Plan EIR

December 21, 2020

Scoping Meeting

Purpose of Scoping Meetings

- Early public consultation
- Learn about environmental concerns regarding the project from potentially affected agencies and individuals
- Opportunity to identify and address issues that might otherwise arise late in the process
- Help focus the EIR's content and identify alternatives

CEQA Process

- The California Environmental Quality Act (CEQA) is required for discretionary approvals.
- Purpose is to inform decision makers and the public of potential effects of project approval.
- Expanded NOP provides consultation and focuses subsequent efforts.

Roles and Responsibilities

Developer	Design and submit development proposal
City Staff	Review and evaluate Developer's project Manage EIR Consultant Make recommendations to Decision Makers
Environmental Consultant	Evaluate impacts of project approval on the existing environment
Decision Makers	Planning Commission and City Council Evaluate and approve or disapprove project

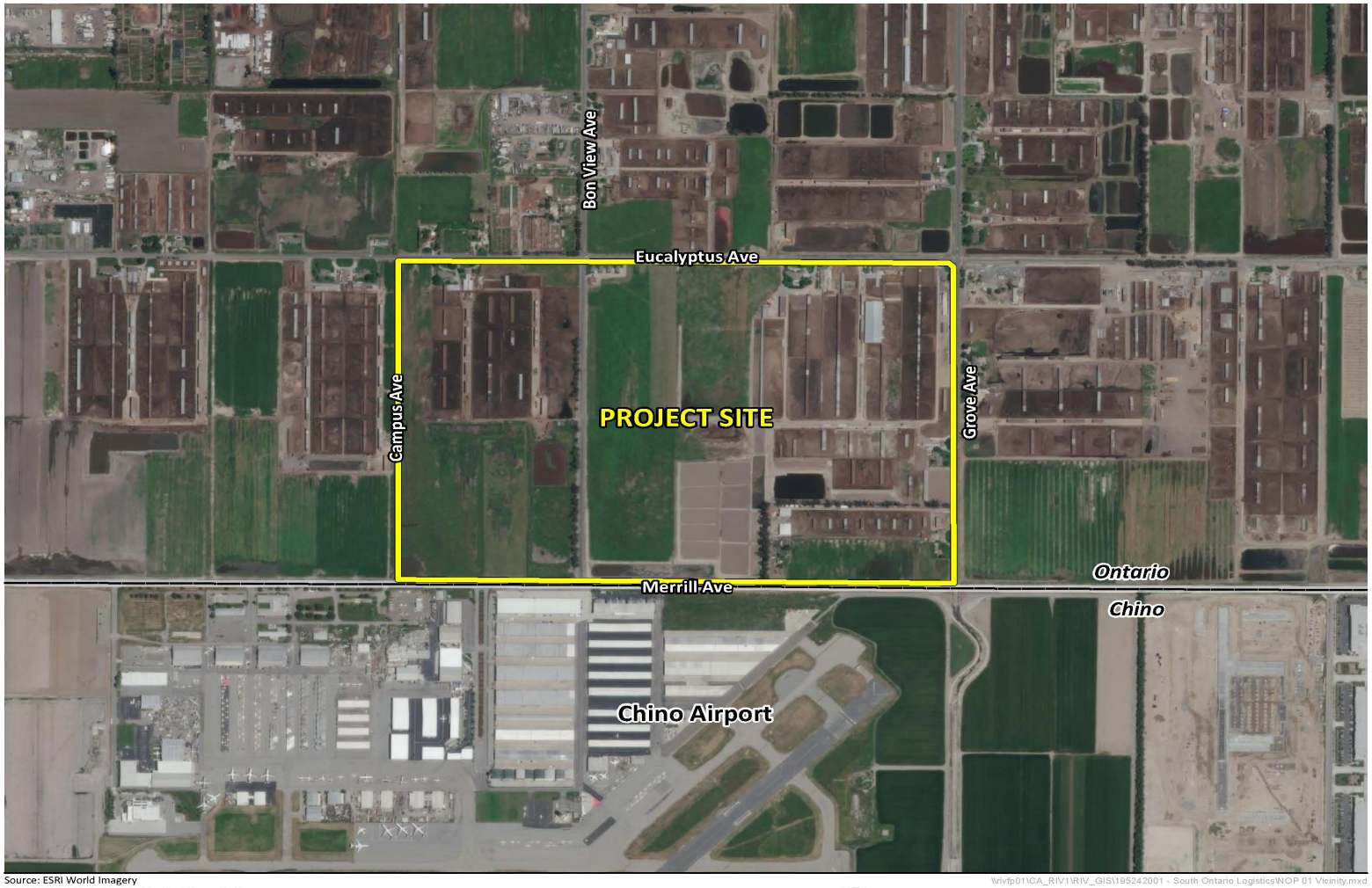
The Project

- Proposes a mix of industrial and business park land uses on approximately 222.18 acres.

- Proposes development and operation of up to:
  - 5,412,591 square feet of industrial/warehouse uses with ancillary office space
  - 3,172,780 square feet of industrial/business park uses in Phase 1
  - 2,239,811square feet of development in Phase 2

- Located in the City of Ontario, bound by Eucalyptus Avenue to the north, Merrill Avenue to the south, and Campus Avenue and Grove Avenue to the west and east.

Project Location



Source: ESRI World Imagery

EXHIBIT 1: Vicinity Map
South Ontario Logistics Center NOP

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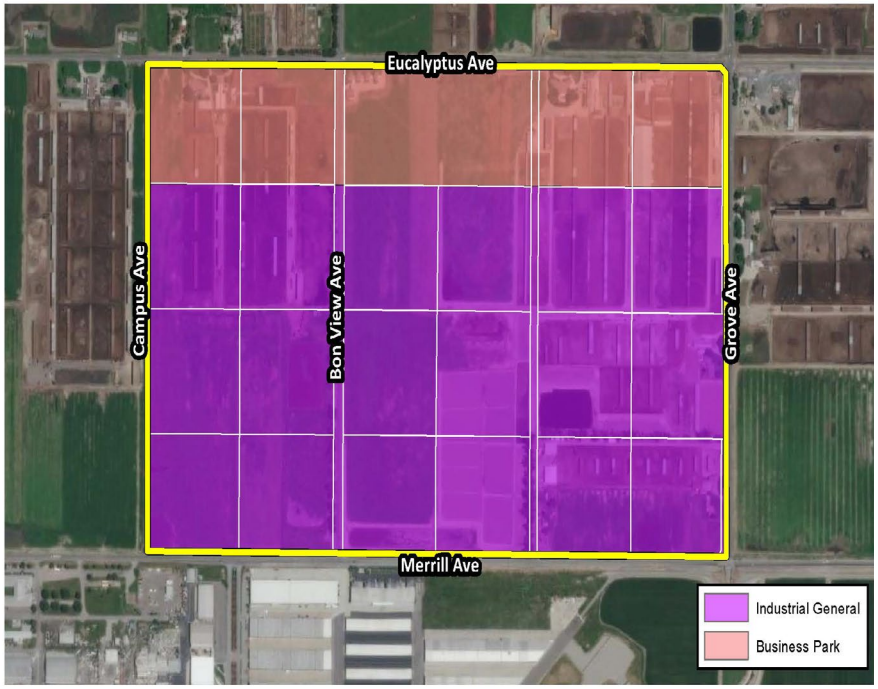
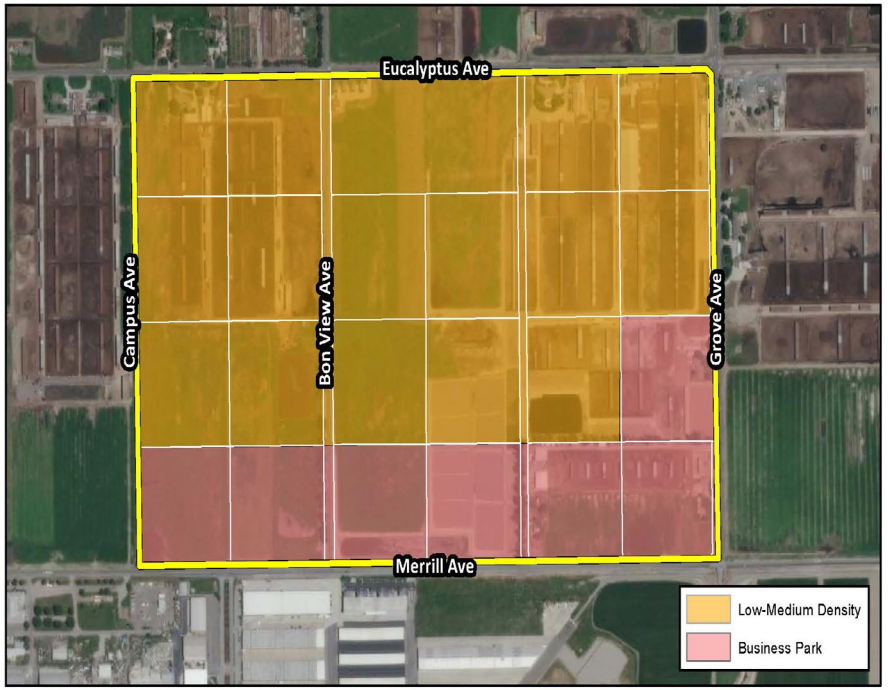
0 500 1,000
Feet

Kimley»Horn

Land Use Plan – Planning Areas



Proposed Land Use



Existing Land Use

Proposed Development by Planning Area

Planning Area	Maximum Floor Area Ratio[1]	Site Acreage	Maximum Building Square Footage
Phase 1			
Planning Area 1: Business Park	0.60	23.0	601,128 SF
Planning Area 2: General Industrial	0.55	107.34	2,571,652 SF
Subtotal		130.34	3,172,780 SF
Phase 2			
Planning Area 3: Business Park	0.60	18.14	474,107 SF
Planning Area 4: General Industrial	0.55	56.3	1,348,835 SF
Planning Area 5: General Industrial	0.55	17.4	416,869 SF
Subtotal			2,239,811 SF
TOTAL		222.18	5,412,591

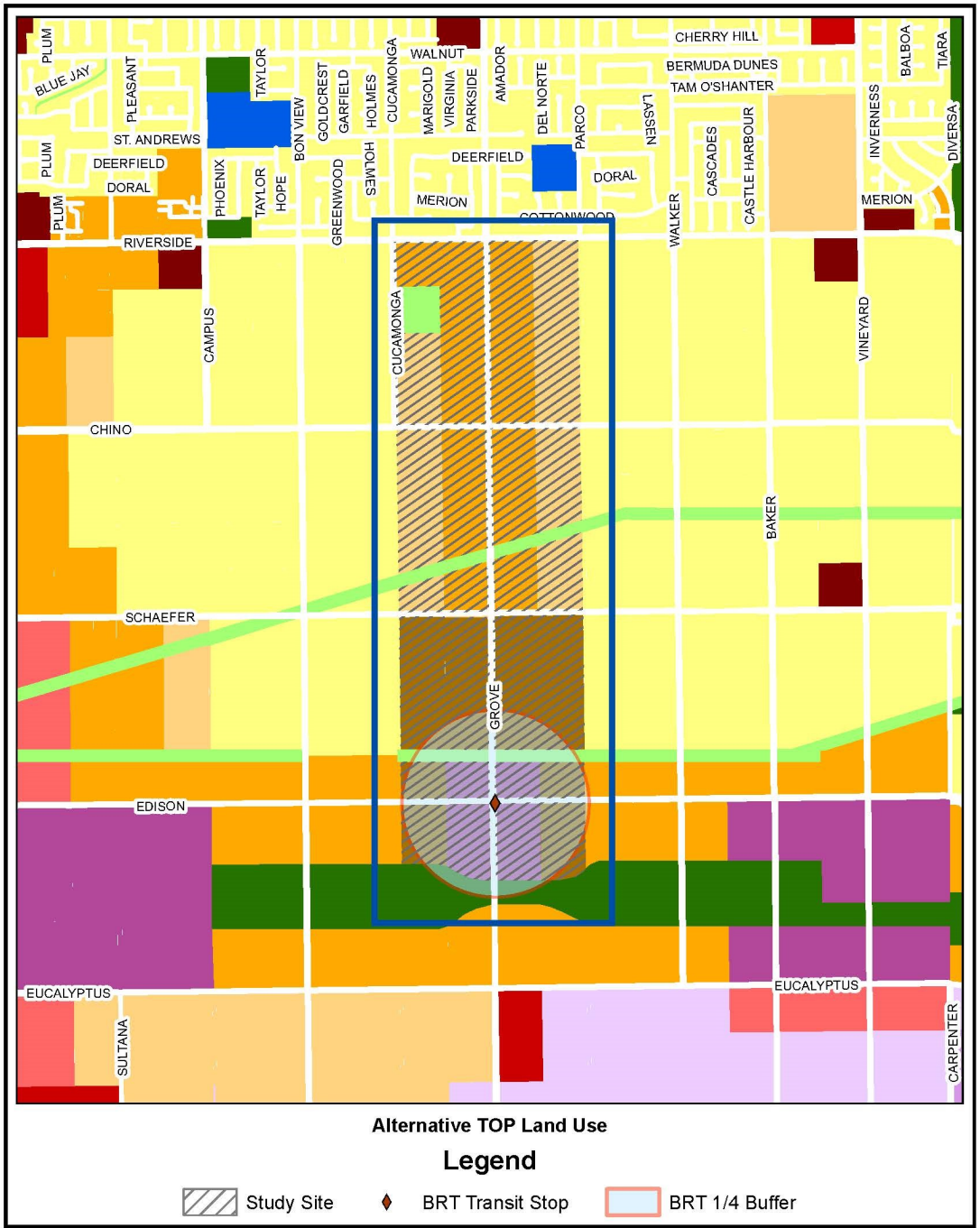
Notes:

1. Provided the GPA application submitted in conjunction with this Specific Plan to designate PAs 1 and 3 as Business Park and PAs 2,4, and 5 as General Industrial is approved.
2. The Project EIR as proposed is reviewing square footages and will be addressing the maximum allowable SF, per The Ontario Plan (TOP) thresholds. The FAR may be increased to the top max levels of 0.60 and 0.55 for BP and IG respectively with a Specific Plan Amendment and appropriate CEQA analysis.

The Project

- Discretionary Approvals Necessary:
  - Certification of the South Ontario Logistics Center Specific Plan EIR;
  - Approval of Policy Plan (Land Use) Amendments;
  - Adoption of the South Ontario Logistics Center Specific Plan;
  - Approval of SB330 Replacement Site Upzoning
  - Approval of Parcel Map/Development Plan (Phase I);
  - Williamson Act Contract cancellation; and
  - Adoption of a Development Agreement.

SB 330 Sites


PLUM
BLUE JAY
PLEASANT
ST. ANDREWS
DEERFIELD
DORAL
PLUM
RIVERSIDE
TAYLOR
BON VIEW
PHOENIX
TAYLOR
HOPE
GOLDCREST
GARFIELD
GREENWOOD
HOLMES
HOLMES
CUCAMONGA
WALNUT
MARIGOLD
VIRGINIA
PARKSIDE
AMADOR
DEL NORTE
PARCO
LASSEN
DEERFIELD
DORAL
MERION
CHERRY HILL
BERMUDA DUNES
TAM O'SHANTER
WALKER
CASCADES
CASTLE HARBOUR
BALBOA
TIARA
INVERNESS
DIVERSA
MERION
CAMPUS
CUCAMONGA
VINEYARD
CHINO
BAKER
SCHAEFER
GROVE
EDISON
EUCALYPTUS
EUCALYPTUS
SULTANA
CARPENTER
Alternative TOP Land Use
Legend
Study Site
BRT Transit Stop
BRT 1/4 Buffer

EIR Focus Areas

Based on the NOP and public scoping, the following topics will be addressed in the Project EIR:

- Aesthetics
- Agriculture/ Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- GHG Emission
- Hazards/ Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems
- Wildfire

Opportunities for Public Involvement

- Comments on the NOP will be accepted through January 18, 2021.
- 45-day Draft EIR comment period is anticipated to run during Summer 2021.
- Responses to EIR comments will be provided to public agencies not less than ten days prior to public hearings.
- Notices will be provided on dates of Planning Commission and City Council hearings on Final EIR.

Questions or Comments?

If you have further questions or require additional information, please contact Alexis Vaughn, Assistant Planner, at AVaughn@ontarioca.gov.

Traffic Analysis Study Area

NOP COMMENT LETTERS

EUNICE M. ULLOA
Mayor

MARC LUCIO
Mayor Pro Tem

KAREN C. COMSTOCK
CHRISTOPHER FLORES
MARK HARGROVE
Council Members

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

January 4, 2020

Alexis Vaughn
City of Ontario, Planning Department
303 East B Street
Ontario, CA 91764

RE: Notice of Preparation of a Draft Environmental Impact Report; South Ontario Logistics Center Specific Plan

Dear Ms. Vaughn,

Thank you for the opportunity to review the Notice of Preparation of a DEIR for the South Ontario Logistics Center Specific Plan. Based upon our review, the City of Chino has the following comments:

Land Development/Engineering

1. The City would like to collaborate and review infrastructure-related improvements (WQMP, drainage, potable water demand, sewer, etc.) that have downstream and potential off-site impacts to the City of Chino. Additionally, mitigation items may already exist on other EIR's for other Ontario projects, and a clear matrix showing overlap and methods to construct should be implemented.

2. The City would like to review the project's traffic study scoping agreement when it becomes available in order to evaluate trip generation, distribution, study intersections and corridors in and around the City of Chino. The City of Chino would also like to coordinate with the City of Ontario on project impacts from this project and any future project in either agency and establish an agreement for mutual collection and distribution of project fair share contributions towards impacts in the other's jurisdiction.

If you have any questions, please contact Principal Planner Michael Hitz by email at mhitz@cityofchino.org, or by phone at 909-334-3448.

Sincerely,

Warren Morelion, AICP
City Planner

cc: Michael Hitz, Principal Planner
Ryan Murphy, Assistant Planner

13220 Central Avenue, Chino, California 91710
Mailing Address: P.O. Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org

Tamimi, Sabrina

From: Lijin Sun <LSun@aqmd.gov>
Sent: Tuesday, December 22, 2020 7:39 AM
To: Alexis Vaughn
Subject: South Coast AQMD Staff NOP Comments for the South Ontario Logistics Center Specific Plan
Attachments: SBC201215-03 NOP South Ontario Logistics Center Specific Plan_20201222.pdf

Dear Ms. Vaughn,

Attached are South Coast AQMD staff's comments on the Notice of Preparation of a Draft Environmental Impact Report for the South Ontario Logistics Center Specific Plan (South Coast AQMD Control Number: SBC201215-03). Please contact me if you have any questions regarding these comments.

Thank you,
Lijin Sun, J.D.
Program Supervisor, CEQA IGR
South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765
Direct: (909) 396-3308
Fax: (909) 396-3324
**Please note that the building is closed to the public.*

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL:
avaughn@ontarioca.gov
Alexis Vaughn, Assistant Planner
City of Ontario, Planning Department
303 East B Street
Ontario, CA 91764

December 22, 2020

Notice of Preparation of a Draft Environmental Impact Report for South Ontario Logistics Center Specific Plan (Proposed Project)

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. Our comments are recommendations on the analysis of potential air quality impacts from the Proposed Project that should be included in the Draft Environmental Impact Report (EIR). Please send a copy of the Draft EIR upon its completion and public release directly to South Coast AQMD as copies of the Draft EIR submitted to the State Clearinghouse are not forwarded. **In addition, please send all appendices and technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all emission calculation spreadsheets, and air quality modeling and health risk assessment input and output files (not PDF files). Any delays in providing all supporting documentation for our review will require additional review time beyond the end of the comment period.**

CEQA Air Quality Analysis

Staff recommends that the Lead Agency use South Coast AQMD's CEQA Air Quality Handbook and website[1] as guidance when preparing the air quality and greenhouse gas analyses. It is also recommended that the Lead Agency use the CalEEMod[2] land use emissions software, which can estimate pollutant emissions from typical land use development and is the only software model maintained by the California Air Pollution Control Officers Association.

South Coast AQMD has developed both regional and localized significance thresholds. South Coast AQMD staff recommends that the Lead Agency quantify criteria pollutant emissions and compare the emissions to South Coast AQMD's CEQA regional pollutant emissions significance thresholds[3] and localized significance thresholds (LSTs)[4] to determine the Proposed Project's air quality impacts. The localized analysis can be conducted by either using the LST screening tables or performing dispersion modeling.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road

[1] South Coast AQMD's CEQA Handbook and other resources for preparing air quality analyses can be found at: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook.
[2] CalEEMod is available free of charge at: www.caleemod.com.
[3] South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.
[4] South Coast AQMD's guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips, and hauling trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers and air pollution control devices), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA ***operational*** thresholds to determine the level of significance.

If the Proposed Project generates diesel emissions from long-term construction or attracts diesel-fueled vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment[5].

In the event that implementation of the Proposed Project requires a permit from South Coast AQMD, South Coast AQMD should be identified as a Responsible Agency for the Proposed Project in the Draft EIR. The assumptions in the air quality analysis in the Final EIR will be the basis for evaluating the permit under CEQA and imposing permit conditions and limits. Questions on permits should be directed to South Coast AQMD's Engineering and Permitting staff at (909) 396-3385.

The California Air Resources Board's (CARB) *Air Quality and Land Use Handbook: A Community Health Perspective*[6] is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process with additional guidance on strategies to reduce air pollution exposure near high-volume roadways available in CARB's technical advisory[7].

South Coast AQMD staff is concerned about potential public health impacts of siting warehouses within close proximity of sensitive land uses, especially in communities that are already heavily affected by the existing warehouse and truck activities. The South Coast AQMD's Multiple Air Toxics Exposure Study (MATES IV), completed in May 2015, concluded that the largest contributor to cancer risk from air pollution is diesel particulate matter (DPM) emissions[8]. According to the MATES IV Carcinogenic Risk interactive Map, the area surrounding the Proposed Project has an estimated cancer risk over 1,054 in one million[9]. Operation of warehouses generates and attracts heavy-duty diesel-fueled trucks that emit DPM. When the health impacts from the Proposed Project are added to those existing impacts, residents living in the communities surrounding the Proposed Project will possibly face an even greater exposure to air pollution and bear a disproportionate burden of increasing health risks.

Mitigation Measures

In the event that the Proposed Project results in significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize these impacts. Any impacts resulting from mitigation measures must also be analyzed. Several resources to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project include South Coast AQMD's CEQA Air Quality Handbook[1], South Coast AQMD's Mitigation Monitoring and

[5] South Coast AQMD's guidance for performing a mobile source health risk assessment can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.
[6] CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* can be found at: http://www.arb.ca.gov/ch/handbook.pdf.
[7] CARB's technical advisory can be found at: https://www.arb.ca.gov/ch/landuse.htm.
[8] South Coast AQMD. May 2015. *Multiple Air Toxics Exposure Study in the South Coast Air Basin*. Available at: http://www.aqmd.gov/docs/default-source/air-quality/air-toxic-studies/mates-iv/mates-iv-final-draft-report-4-1-15.pdf.
[9] South Coast AQMD. MATES INV Estimated Risk. Accessed at: https://scaqmd-online.maps.arcgis.com/apps/webappviewer/index.html?id=470c30bc6daf4ef6a43f0082973ff45f.

Reporting Plan for the 2016 Air Quality Management Plan[10], and Southern California Association of Government's Mitigation Monitoring and Reporting Plan for the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy[11].

Mitigation measures for operational air quality impacts from mobile sources that the Lead Agency should consider in the Draft EIR may include the following:

- Require zero-emissions (ZE) or near-zero emission (NZE) on-road haul trucks such as heavy-duty trucks with natural gas engines that meet the CARB's adopted optional NOx emissions standard at 0.02 grams per brake horsepower-hour (g/bhp-hr), if and when feasible. Given the state's clean truck rules and regulations aiming to accelerate the utilization and market penetration of ZE and NZE trucks such as the Advanced Clean Trucks Rule[12] and the Heavy-Duty Low NOx Omnibus Regulation[13], ZE and NZE trucks will become increasingly more available to use. The Lead Agency should require a phase-in schedule to incentive the use of these cleaner operating trucks to reduce any significant adverse air quality impacts. South Coast AQMD staff is available to discuss the availability of current and upcoming truck technologies and incentive programs with the Lead Agency. At a minimum, require the use of 2010 model year[14] that meet CARB's 2010 engine emissions standards at 0.01 g/bhp-hr of particulate matter (PM) and 0.20 g/bhp-hr of NOx emissions or newer, cleaner trucks. Include environmental analyses to evaluate and identify sufficient electricity and supportive infrastructures in the Energy and Utilities and Service Systems Sections in the CEQA document, where appropriate. Include the requirement in applicable bid documents, purchase orders, and contracts. Operators shall maintain records of all trucks associated with project construction to document that each truck used meets these emission standards, and make the records available for inspection. The Lead Agency should conduct regular inspections to the maximum extent feasible to ensure compliance.
- Limit the daily number of trucks allowed at the Proposed Project to levels analyzed in the Final CEQA document. If higher daily truck volumes are anticipated to visit the site, the Lead Agency should commit to re-evaluating the Proposed Project through CEQA prior to allowing this higher activity level.
- Provide electric vehicle (EV) charging stations or at a minimum, provide the electrical infrastructure and electrical panels should be appropriately sized. Electrical hookups should be provided for truckers to plug in any onboard auxiliary equipment.

[10] South Coast AQMD's 2016 Air Quality Management Plan can be found at: http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf (starting on page 86).

[11] Southern California Association of Governments' 2020-2045 RTP/SCS can be found at: https://www.connectsocal.org/Documents/PEIR/certified/Exhibit-A_ConnectSoCal_PEIR.pdf.

[12] CARB. June 25, 2020. *Advanced Clean Trucks Rule*. Accessed at: https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks.

[13] CARB has recently passed a variety of new regulations that require new, cleaner heavy-duty truck technology to be sold and used in state. For example, on August 27, 2020, CARB approved the Heavy-Duty Low NOx Omnibus Regulation, which will require all trucks to meet the adopted emission standard of 0.05 g/hp-hr starting with engine model year 2024. Accessed at: https://ww2.arb.ca.gov/rulemaking/2020/hdomnibuslownox.

[14] CARB adopted the statewide Truck and Bus Regulation in 2010. The Regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter filter requirements beginning January 1, 2012. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent. More information on the CARB's Truck and Bus Regulation is available at: https://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm.

Mitigation measures for operational air quality impacts from other area sources that the Lead Agency should consider in the Draft EIR may include the following:

- Maximize use of solar energy by installing solar energy arrays.
- Use light colored paving and roofing materials.
- Utilize only Energy Star heating, cooling, and lighting devices, and appliances.
- Use of water-based or low VOC cleaning products that go beyond the requirements of South Coast AQMD Rule 1113.

Design considerations for the Proposed Project that the Lead Agency should consider to further reduce air quality and health risk impacts include the following:

- Clearly mark truck routes with trailblazer signs, so that trucks will not travel next to or near sensitive land uses (e.g., residences, schools, day care centers, etc.).
- Design the Proposed Project such that truck entrances and exits are not facing sensitive receptors and trucks will not travel past sensitive land uses to enter or leave the Proposed Project site.
- Design the Proposed Project such that any check-in point for trucks is inside the Proposed Project site to ensure that there are no trucks queuing outside.
- Design the Proposed Project to ensure that truck traffic inside the Proposed Project site is as far away as feasible from sensitive receptors.
- Restrict overnight truck parking in sensitive land uses by providing overnight truck parking inside the Proposed Project site.

South Coast AQMD staff is available to work with the Lead Agency to ensure that air quality, greenhouse gas, and health risk impacts from the Proposed Project are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov.

Sincerely,

Lijin Sun

Lijin Sun, J.D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS
SBC201215-03
Control Number

Tamimi, Sabrina

From: chuck@chinohillsferrariclub.com
Sent: Wednesday, December 23, 2020 10:10 AM
To: avaughn@ontaria.gov; Alexis Vaughn
Subject: EIR comments

Alexis,

Hello, my name is Chuck Stuewe and I lease and pay county property tax on an aircraft hanger parcel located on the north side of Chino airport. I would like to voice my support for this project. Changes to the zoning from possible residential to general industrial will/should remove any future issues with homes under the flight path. In addition, the removal of the operational dairy will be a welcome change to the environment adjacent to the airport with it's repugnant stench and associated swarming flys. I can speak for my fellow pilots and airport tenants, they will ALL embrace this change.

Thank you,
Chuck Stuewe ATP
Phone # 714-380-0288

ps. I attempted to join the ZOOM meeting held 12/21/2020 at 6:00 pm but to no avail.

CITY OF EASTVALE
12363 Limonite Avenue | Suite 910 | Eastvale, CA 91752
951.361.0900

January 4, 2021

Alexis Vaughn, Assistant Planner
Ontario Planning Department
303 East "B" Street
Ontario, CA 91764

RE: NOTICE OF PREPARATION (NOP) OF A DRAFT ENVIRONMENTAL IMPACT REPORT (DEIR) SOUTH ONTARIO LOGISITICS CENTER SPECIFIC PLAN (FILE NO. PSP19-001)

Dear Ms. Vaughn:

Thank you for the opportunity to comment on the NOP of a DEIR for the South Ontario Logistics Center Specific Plan. The City of Eastvale offers the following comments for consideration in preparation of the DEIR:

- **Limonite Avenue** – The Eastvale General Plan designates Limonite Avenue as an Urban Arterial with an ultimate right-of-way of 152 feet, which is the largest in the City. This arterial also experiences the highest traffic volumes of any roadway in the City, with Average Daily Traffic (ADT) of more than 35,000 trips between Hamner Avenue and the Interstate 15. In addition, the City is in the process of updating its General Plan (including the Housing Element) which would further increase traffic volumes on this and other roadways throughout the City. The DEIR should focus on ensuring that traffic, and in particular truck traffic, generated by the build out of the specific plan avoid or minimize increasing traffic volumes on Limonite Avenue.

- **Traffic Impact Analysis** – Please provide the City of Eastvale with a copy of the traffic impact analysis once completed for review and comment.

- **Future Notices** – Please provide the City of Eastvale with a copy of all future public notices regarding this project.

If you have any questions or concerns, please do not hesitate to contact me at (951) 703-4499 or ggonzalez@eastvaleca.gov.

Sincerely,

Gustavo N. Gonzalez, AICP
Planning Manager

Tamimi, Sabrina

From: MATHEW, JACOB K@DOT <Jacob.MATHEW@dot.ca.gov>
Sent: Tuesday, January 5, 2021 11:31 AM
To: Alexis Vaughn
Cc: Clark, Rosa F@DOT
Subject: South Ontario Logistics Center Specific Plan

Hi Alexis,
Thank you for providing the California Department of Transportation (Caltrans) the opportunity to review and comment on the Notice of Preparation of a Draft Environmental Impact Report (DEIR) for the South Ontario Logistic Center Specific Plan (Project), located north of Merrill Avenue, south of Eucalyptus Avenue and west of Grove Avenue in the City of Ontario. The project proposes for a General Plan Amendment, Specific Plan, Development Agreement, Development Plans, and Tentative Parcel Maps to allow development of approximately 5.4 million square feet of industrial and business park land uses on the 222.18-acre site.

As the owner and operator of the State Highway System (SHS), it is our responsibility to coordinate and consult with local jurisdictions when a proposed development may impact our facilities. As the responsible agency under the California Environmental Quality Act, it is also our responsibility to make recommendations to offset associated impacts with the proposed project. Although the project is under the jurisdiction of the City of Ontario, due to the project's potential impact to the State facilities, including State Route 60, 83 and Interstate 15, it is also subject to the policies and regulations that govern the SHS.

In the preceding DEIR, we recommend a Traffic Impact Analysis (TIA) be prepared to accurately evaluate the extent of potential impacts of the project to the operational characteristics of the existing State facilities by the project area. We recommend the TIA be submitted prior to the circulation of the DEIR to ensure timely review of the submitted materials to address any potential issues. We offer the following comments:

1) **<u>Submit copies of all TIA documents for review when available.</u>** The data used in the TIA should not be more than 2 years old, and shall be based on the Southern California Association of Governments 2016 Regional Transportation Plan Model. Use the Highway Capacity Manual 6 methodology for all traffic analyses.

Caltrans is committed to providing a safe transportation system for all users. We encourage the City to embark a safe, sustainable, integrated and efficient transportation system and complete street to enhance California's economy and livability. A pedestrian/bike-friendly environment served by multimodal transportation would reduce traffic congestion prevalent in the surrounding areas. (See *Complete Street Implementation Action Plan 2.0* at http://www.dot.ca.gov/hq/tpp/offices/ocp/docs/CSIAP2_rpt.pdf [dot.ca.gov]).

2) Design the local streets to serve vehicular and pedestrian circulation equally, and for safe pedestrian friendly environment. Consider both Americans with Disability Act and California Highway Design Manual standards and requirements to provide transportation routes for all users and modes, including pedestrian and bicyclists. Provide a continuous multi-modal circulation system throughout the City, specifically for pedestrians, allowing current/future residents, employees, and guests to access the attraction places.

3) Relegate the parking spaces to the back of the buildings and locate preferential parking for vanpools and carpools, along with, secure, visible, and convenient bicycle parking/racks accessible to retail and office locations. Consider installing electric vehicle charging stations, and locate parking space for low-emitting, fuel-efficient, alternative-fueled vehicle visitor parking in commercial and office uses.

These recommendations are preliminary and summarize our review of materials provided for our evaluation. If you have any questions regarding this email, please contact me.

Thanks,
Jacob Mathew
D-8, Planning

APPENDIX B

AIR QUALITY – GREENHOUSE GAS EMISSIONS

APPENDIX B1

AIR QUALITY EMISSIONS MODEL DATA

South Ontario Logistics Center Phase 1 - No Mitigation

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - SCAQMD Rule 1113 - low VOC paint

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use 5830/601.128 ksf= 9.69843361147708973795930317669 45 , truck trip rate shown under unrefrigerated w/h 1402/2237.337 ksf = 0.626637828811663151326778218927 23

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation -

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total), 1 yard truck per building (8 total) 200 hp average

Fleet Mix - Refer to TIA for Fleet Mix, cars under industrial park, trucks under unrefrigerated warehouse

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	40.00
tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00
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tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
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tblFleetMix	LDA	0.56	0.80
tblFleetMix	LDA	0.56	0.00
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tblFleetMix	LDT1	0.04	0.00
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tblFleetMix	LDT2	0.18	0.00
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tblFleetMix	LHD1	0.02	0.00
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tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3640e-003	0.00
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tblFleetMix	SBUS	8.0300e-004	0.00
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tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	601,130.00	601,128.00
tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
tblLandUse	LandUseSquareFeet	636,411.60	616,896.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.91	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.24	6.40
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.77	3.8150e-003
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tblVehicleEF	HHD	1,429.26	1,400.68
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tblVehicleEF	HHD	20.20	2.40
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
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tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.59	0.43

tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	9.8880e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.68	0.50
tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.86	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	1.63	6.31
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.66	3.6010e-003
tblVehicleEF	HHD	7,019.59	1,065.64
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	19.48	5.27
tblVehicleEF	HHD	1.19	2.38
tblVehicleEF	HHD	20.19	2.40
tblVehicleEF	HHD	4.9720e-003	2.5370e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	4.7570e-003	2.4270e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.56	0.45
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	9.7740e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.2000e-005	0.00
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.64	0.53
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.98	0.03

tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.08	6.53
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.75	3.7850e-003
tblVehicleEF	HHD	6,082.32	1,093.94
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.04	5.84
tblVehicleEF	HHD	1.25	2.49
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	7.1750e-003	3.4230e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	6.8650e-003	3.2750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.64	0.39
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	2.1000e-004	6.9500e-004

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.74	0.46
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.7920e-003	2.2110e-003
tblVehicleEF	LDA	4.9090e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.08	2.05
tblVehicleEF	LDA	240.90	255.40
tblVehicleEF	LDA	55.00	52.15
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.5230e-003	8.2230e-003

tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.4120e-003	2.5270e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	4.3170e-003	2.4970e-003
tblVehicleEF	LDA	4.0940e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.90	1.73
tblVehicleEF	LDA	263.54	276.52
tblVehicleEF	LDA	55.00	51.54
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.1980e-003
tblVehicleEF	LDA	0.03	0.20

tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05
tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20

tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35
tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003

tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93
tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004

tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24
tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17

tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06

tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003

tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67

tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
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tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20

tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003

tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
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tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.12	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003

tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96
tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003

tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
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tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004

tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13
tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57

tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75
tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16

tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
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tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18

tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40

tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
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tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07

tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
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tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40
tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15

tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71
tblVehicleEF	MHD	153.99	65.44
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.1400e-004	3.2600e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004

tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003

tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
tblVehicleEF	MHD	0.42	0.36
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.75	0.71

tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
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tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.93	2.39
tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
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tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12

tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003
tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003

tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.88	2.39
tblVehicleEF	OBUS	60.64	74.35
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

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tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
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tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
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tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
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tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06

tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
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tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
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tblVehicleEF	SBUS	10.92	3.17
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tblVehicleEF	SBUS	14.81	0.97
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
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tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
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tblVehicleEF	SBUS	1,128.46	1,098.71
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tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003

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tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
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tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
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tblVehicleEF	SBUS	0.84	0.06
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tblVehicleEF	SBUS	1,128.46	1,098.68

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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
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tblVehicleEF	SBUS	0.27	0.04
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tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
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tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12

tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
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tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003

tblVehicleEF	UBUS	0.11	9.1530e-003
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tblVehicleEF	UBUS	0.07	8.4770e-003
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tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34
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tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03

tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76
tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004

tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00

tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7197	38.9000	29.8021	0.0733	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	7,403.6619	7,403.6619	1.9498	0.0000	7,434.7058
2023	184.8413	99.1286	146.7171	0.5878	38.1207	1.5387	39.6593	10.2453	1.4383	11.6836	0.0000	59,797.4675	59,797.4675	3.3600	0.0000	59,881.4675
Maximum	**184.8413**	**99.1286**	**146.7171**	**0.5878**	**38.1207**	**1.6363**	**39.6593**	**10.2453**	**1.5054**	**11.6836**	**0.0000**	**59,797.4675**	**59,797.4675**	**3.3600**	**0.0000**	**59,881.4675**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7197	38.9000	29.8021	0.0733	7.2313	1.6363	8.8451	3.9225	1.5054	5.4072	0.0000	7,403.6619	7,403.6619	1.9498	0.0000	7,434.7058
2023	184.8413	99.1286	146.7171	0.5878	35.2223	1.5387	36.7610	9.5339	1.4383	10.9722	0.0000	59,797.4675	59,797.4675	3.3600	0.0000	59,881.4675
Maximum	**184.8413**	**99.1286**	**146.7171**	**0.5878**	**35.2223**	**1.6363**	**36.7610**	**9.5339**	**1.5054**	**10.9722**	**0.0000**	**59,797.4675**	**59,797.4675**	**3.3600**	**0.0000**	**59,881.4675**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**24.71**	**0.00**	**23.40**	**33.48**	**0.00**	**29.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706
Mobile	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710
Offroad	10.7264	100.4175	115.8936	0.1721		5.9937	5.9937		5.5142	5.5142		16,663.3205	16,663.3205	5.3893		16,798.0519
Total	**98.6971**	**358.0960**	**372.8978**	**2.1034**	**123.6769**	**8.7003**	**132.3772**	**33.6353**	**8.1125**	**41.7478**		**227,899.2890**	**227,899.2890**	**16.2138**	**0.1414**	**228,346.7772**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
Mobile	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710
Offroad	10.7264	100.4175	115.8936	0.1721		5.9937	5.9937		5.5142	5.5142		16,663.3205	16,663.3205	5.3893		16,798.0519
Total	**98.6293**	**357.4798**	**372.3802**	**2.0997**	**123.6769**	**8.6534**	**132.3303**	**33.6353**	**8.0657**	**41.7009**		**227,159.8422**	**227,159.8422**	**16.1997**	**0.1279**	**227,602.9363**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.07**	**0.17**	**0.14**	**0.18**	**0.00**	**0.54**	**0.04**	**0.00**	**0.58**	**0.11**	**0.00**	**0.32**	**0.32**	**0.09**	**9.59**	**0.33**

3.0 Construction Detail

Construction Phase

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 43.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)

OffRoad Equipment

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2795	0.0000	9.2795	1.4050	0.0000	1.4050			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**9.2795**	**1.2427**	**10.5221**	**1.4050**	**1.1553**	**2.5603**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2408	8.9694	1.4685	0.0329	0.7503	0.0229	0.7732	0.2057	0.0219	0.2276		3,498.6904	3,498.6904	0.1851		3,503.3186
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.3120**	**9.0118**	**2.0389**	**0.0345**	**0.9180**	**0.0240**	**0.9419**	**0.2502**	**0.0229**	**0.2731**		**3,656.8807**	**3,656.8807**	**0.1893**		**3,661.6137**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6190	0.0000	3.6190	0.5480	0.0000	0.5480			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**3.6190**	**1.2427**	**4.8617**	**0.5480**	**1.1553**	**1.7032**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2408	8.9694	1.4685	0.0329	0.6993	0.0229	0.7222	0.1932	0.0219	0.2151		3,498.6904	3,498.6904	0.1851		3,503.3186
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1546	1.0400e-003	0.1556	0.0413	9.6000e-004	0.0422		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.3120**	**9.0118**	**2.0389**	**0.0345**	**0.8538**	**0.0240**	**0.8778**	**0.2344**	**0.0229**	**0.2573**		**3,656.8807**	**3,656.8807**	**0.1893**		**3,661.6137**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		189.8284	189.8284	5.0300e-003		189.9541
Total	**0.0854**	**0.0508**	**0.6846**	**1.9100e-003**	**0.2012**	**1.2500e-003**	**0.2025**	**0.0534**	**1.1500e-003**	**0.0545**		**189.8284**	**189.8284**	**5.0300e-003**		**189.9541**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**7.0458**	**1.6126**	**8.6584**	**3.8730**	**1.4836**	**5.3565**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.1855	1.2500e-003	0.1867	0.0495	1.1500e-003	0.0506		189.8284	189.8284	5.0300e-003		189.9541
Total	**0.0854**	**0.0508**	**0.6846**	**1.9100e-003**	**0.1855**	**1.2500e-003**	**0.1867**	**0.0495**	**1.1500e-003**	**0.0506**		**189.8284**	**189.8284**	**5.0300e-003**		**189.9541**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601
Total	**0.0949**	**0.0565**	**0.7606**	**2.1200e-003**	**0.2236**	**1.3900e-003**	**0.2249**	**0.0593**	**1.2800e-003**	**0.0606**		**210.9205**	**210.9205**	**5.5900e-003**		**211.0601**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**3.3826**	**1.6349**	**5.0175**	**1.4026**	**1.5041**	**2.9067**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		210.9205	210.9205	5.5900e-003		211.0601
Total	**0.0949**	**0.0565**	**0.7606**	**2.1200e-003**	**0.2061**	**1.3900e-003**	**0.2075**	**0.0550**	**1.2800e-003**	**0.0563**		**210.9205**	**210.9205**	**5.5900e-003**		**211.0601**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.9900	202.9900	5.0000e-003		203.1151
Total	**0.0888**	**0.0509**	**0.6984**	**2.0400e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**202.9900**	**202.9900**	**5.0000e-003**		**203.1151**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		202.9900	202.9900	5.0000e-003		203.1151
Total	**0.0888**	**0.0509**	**0.6984**	**2.0400e-003**	**0.2061**	**1.3500e-003**	**0.2074**	**0.0550**	**1.2400e-003**	**0.0562**		**202.9900**	**202.9900**	**5.0000e-003**		**203.1151**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6951	65.9332	13.6114	0.2420	5.9626	0.0636	6.0262	1.7168	0.0608	1.7777		25,553.1088	25,553.1088	1.3019		25,585.6565
Worker	10.5871	6.0648	83.2855	0.2430	26.6587	0.1611	26.8197	7.0700	0.1483	7.2183		24,206.5617	24,206.5617	0.5964		24,221.4717
Total	**12.2822**	**71.9980**	**96.8969**	**0.4850**	**32.6213**	**0.2247**	**32.8460**	**8.7868**	**0.2091**	**8.9959**		**49,759.6706**	**49,759.6706**	**1.8983**		**49,807.1282**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6951	65.9332	13.6114	0.2420	5.5804	0.0636	5.6440	1.6230	0.0608	1.6838		25,553.1088	25,553.1088	1.3019		25,585.6565
Worker	10.5871	6.0648	83.2855	0.2430	24.5728	0.1611	24.7339	6.5580	0.1483	6.7063		24,206.5617	24,206.5617	0.5964		24,221.4717
Total	**12.2822**	**71.9980**	**96.8969**	**0.4850**	**30.1532**	**0.2247**	**30.3779**	**8.1810**	**0.2091**	**8.3901**		**49,759.6706**	**49,759.6706**	**1.8983**		**49,807.1282**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2947**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0381	0.5238	1.5300e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		152.2425	152.2425	3.7500e-003		152.3363
Total	**0.0666**	**0.0381**	**0.5238**	**1.5300e-003**	**0.1677**	**1.0100e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**		**152.2425**	**152.2425**	**3.7500e-003**		**152.3363**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2947**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0381	0.5238	1.5300e-003	0.1546	1.0100e-003	0.1556	0.0413	9.3000e-004	0.0422		152.2425	152.2425	3.7500e-003		152.3363
Total	**0.0666**	**0.0381**	**0.5238**	**1.5300e-003**	**0.1546**	**1.0100e-003**	**0.1556**	**0.0413**	**9.3000e-004**	**0.0422**		**152.2425**	**152.2425**	**3.7500e-003**		**152.3363**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	166.3159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**166.5076**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1174	1.2130	16.6571	0.0486	5.3317	0.0322	5.3640	1.4140	0.0297	1.4437		4,841.3124	4,841.3124	0.1193		4,844.2943
Total	**2.1174**	**1.2130**	**16.6571**	**0.0486**	**5.3317**	**0.0322**	**5.3640**	**1.4140**	**0.0297**	**1.4437**		**4,841.3124**	**4,841.3124**	**0.1193**		**4,844.2943**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	166.3159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**166.5076**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1174	1.2130	16.6571	0.0486	4.9146	0.0322	4.9468	1.3116	0.0297	1.3413		4,841.3124	4,841.3124	0.1193		4,844.2943
Total	**2.1174**	**1.2130**	**16.6571**	**0.0486**	**4.9146**	**0.0322**	**4.9468**	**1.3116**	**0.0297**	**1.3413**		**4,841.3124**	**4,841.3124**	**0.1193**		**4,844.2943**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710
Unmitigated	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	35,227,309
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
Total	7,232.02	7,232.02	7,232.02	55,640,457	55,640,457

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
NaturalGas Unmitigated	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	5714.83	0.0616	0.5603	0.4706	3.3600e-003		0.0426	0.0426		0.0426	0.0426		672.3333	672.3333	0.0129	0.0123	676.3287
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47408.6	0.5113	4.6479	3.9042	0.0279		0.3532	0.3532		0.3532	0.3532		5,577.4841	5,577.4841	0.1069	0.1023	5,610.6283
Unrefrigerated Warehouse-No Rail	12443.3	0.1342	1.2199	1.0247	7.3200e-003		0.0927	0.0927		0.0927	0.0927		1,463.9143	1,463.9143	0.0281	0.0268	1,472.6136
Total		**0.7071**	**6.4281**	**5.3996**	**0.0386**		**0.4885**	**0.4885**		**0.4885**	**0.4885**		**7,713.7317**	**7,713.7317**	**0.1479**	**0.1414**	**7,759.5706**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.00038	0.0431	0.3922	0.3294	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.6333	470.6333	9.0200e-003	8.6300e-003	473.4301
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	46.5156	0.5016	4.5604	3.8307	0.0274		0.3466	0.3466		0.3466	0.3466		5,472.4214	5,472.4214	0.1049	0.1003	5,504.9412
Unrefrigerated Warehouse-No Rail	8.76546	0.0945	0.8594	0.7219	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.2303	1,031.2303	0.0198	0.0189	1,037.3584
Total		**0.6393**	**5.8119**	**4.8820**	**0.0349**		**0.4417**	**0.4417**		**0.4417**	**0.4417**		**6,974.2850**	**6,974.2850**	**0.1337**	**0.1279**	**7,015.7297**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Unmitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Total	**71.7716**	**4.7200e-003**	**0.5182**	**4.0000e-005**		**1.8500e-003**	**1.8500e-003**		**1.8500e-003**	**1.8500e-003**		**1.1109**	**1.1109**	**2.9100e-003**		**1.1837**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Total	**71.7716**	**4.7200e-003**	**0.5182**	**4.0000e-005**		**1.8500e-003**	**1.8500e-003**		**1.8500e-003**	**1.8500e-003**		**1.1109**	**1.1109**	**2.9100e-003**		**1.1837**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	4.00	260	200	0.37	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	9.8438	92.1289	109.9000	0.1467		5.6930	5.6930		5.2376	5.2376		14,210.9597	14,210.9597	4.5961		14,325.8625
Tractors/Loaders/Backhoes	0.8826	8.2886	5.9936	0.0253		0.3007	0.3007		0.2767	0.2767		2,452.3608	2,452.3608	0.7931		2,472.1894
Total	**10.7264**	**100.4175**	**115.8936**	**0.1721**		**5.9937**	**5.9937**		**5.5142**	**5.5142**		**16,663.3205**	**16,663.3205**	**5.3893**		**16,798.0519**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 1 - No Mitigation

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - SCAQMD Rule 1113 - low VOC paint

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use 5830/601.128 ksf= 9.69843361147708973795930317669 45 , truck trip rate shown under unrefrigerated w/h 1402/2237.337 ksf = 0.626637828811663151326778218927 23

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation -

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total), 1 yard truck per building (8 total) 200 hp average

Fleet Mix - Refer to TIA for Fleet Mix, cars under industrial park, trucks under unrefrigerated warehouse

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	40.00
tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.80
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	LHD2	4.9390e-003	0.04
tblFleetMix	LHD2	4.9390e-003	0.22
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00

tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	601,130.00	601,128.00
tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
tblLandUse	LandUseSquareFeet	636,411.60	616,896.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
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tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.24	6.40
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tblVehicleEF	HHD	1,429.26	1,400.68
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tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
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tblVehicleEF	HHD	0.59	0.43

tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
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tblVehicleEF	HHD	0.06	9.8880e-003
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tblVehicleEF	HHD	8.4000e-005	0.00
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
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tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
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tblVehicleEF	HHD	8.2000e-005	0.00
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
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tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.98	0.03

tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	6.8650e-003	3.2750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
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tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	2.1000e-004	6.9500e-004

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.74	0.46
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.7920e-003	2.2110e-003
tblVehicleEF	LDA	4.9090e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.08	2.05
tblVehicleEF	LDA	240.90	255.40
tblVehicleEF	LDA	55.00	52.15
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.5230e-003	8.2230e-003

tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.4120e-003	2.5270e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	4.3170e-003	2.4970e-003
tblVehicleEF	LDA	4.0940e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.90	1.73
tblVehicleEF	LDA	263.54	276.52
tblVehicleEF	LDA	55.00	51.54
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.1980e-003
tblVehicleEF	LDA	0.03	0.20

tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05
tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20

tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35
tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003

tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93
tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004

tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24
tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17

tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
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tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
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tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06

tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003

tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
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tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
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tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67

tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64
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tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20

tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003

tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.12	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003

tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96
tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003

tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004

tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13
tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57

tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75
tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16

tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18

tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
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tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40

tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
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tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07

tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
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tblVehicleEF	MH	1.41	1.40
tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15

tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71
tblVehicleEF	MHD	153.99	65.44
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
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tblVehicleEF	MHD	2.5990e-003	6.7580e-003
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tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004

tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003

tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
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tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
tblVehicleEF	MHD	0.42	0.36
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.75	0.71

tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.93	2.39
tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12

tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003
tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003

tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.88	2.39
tblVehicleEF	OBUS	60.64	74.35
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.42	0.94
tblVehicleEF	OBUS	1.84	0.73
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	5.9100e-004	7.0900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06

tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
tblVehicleEF	SBUS	0.06	6.2470e-003
tblVehicleEF	SBUS	5.80	2.57
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
tblVehicleEF	SBUS	38.16	4.83
tblVehicleEF	SBUS	10.92	3.17
tblVehicleEF	SBUS	4.37	4.90
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	3.8920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	7.9830e-003
tblVehicleEF	SBUS	0.05	5.2310e-003
tblVehicleEF	SBUS	5.67	2.53
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	3.58	0.59
tblVehicleEF	SBUS	1,307.61	350.69
tblVehicleEF	SBUS	1,128.46	1,098.71
tblVehicleEF	SBUS	38.16	4.45
tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
tblVehicleEF	SBUS	14.78	0.97
tblVehicleEF	SBUS	8.8570e-003	3.2880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003

tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68

tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12

tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003

tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34
tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03

tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76
tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004

tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00

tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7202	38.9028	29.6644	0.0723	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	7,294.7209	7,294.7209	1.9491	0.0000	7,326.1519
2023	185.0424	98.6050	130.3848	0.5483	38.1207	1.5410	39.6616	10.2453	1.4405	11.6858	0.0000	55,812.1017	55,812.1017	3.4086	0.0000	55,897.3173
Maximum	**185.0424**	**98.6050**	**130.3848**	**0.5483**	**38.1207**	**1.6363**	**39.6616**	**10.2453**	**1.5054**	**11.6858**	**0.0000**	**55,812.1017**	**55,812.1017**	**3.4086**	**0.0000**	**55,897.3173**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7202	38.9028	29.6644	0.0723	7.2313	1.6363	8.8451	3.9225	1.5054	5.4072	0.0000	7,294.7209	7,294.7209	1.9491	0.0000	7,326.1519
2023	185.0424	98.6050	130.3848	0.5483	35.2223	1.5410	36.7633	9.5339	1.4405	10.9744	0.0000	55,812.1017	55,812.1017	3.4086	0.0000	55,897.3173
Maximum	**185.0424**	**98.6050**	**130.3848**	**0.5483**	**35.2223**	**1.6363**	**36.7633**	**9.5339**	**1.5054**	**10.9744**	**0.0000**	**55,812.1017**	**55,812.1017**	**3.4086**	**0.0000**	**55,897.3173**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**24.71**	**0.00**	**23.40**	**33.48**	**0.00**	**29.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706
Mobile	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382
Offroad	10.7264	100.4175	115.8936	0.1721		5.9937	5.9937		5.5142	5.5142		16,663.3205	16,663.3205	5.3893		16,798.0519
Total	**97.8926**	**369.7222**	**344.7489**	**2.0510**	**123.6769**	**8.7020**	**132.3789**	**33.6353**	**8.1141**	**41.7494**		**222,615.6253**	**222,615.6253**	**16.2191**	**0.1414**	**223,063.2444**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
Mobile	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382
Offroad	10.7264	100.4175	115.8936	0.1721		5.9937	5.9937		5.5142	5.5142		16,663.3205	16,663.3205	5.3893		16,798.0519
Total	**97.8248**	**369.1060**	**344.2313**	**2.0473**	**123.6769**	**8.6551**	**132.3320**	**33.6353**	**8.0673**	**41.7025**		**221,876.1786**	**221,876.1786**	**16.2049**	**0.1279**	**222,319.4035**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.07**	**0.17**	**0.15**	**0.18**	**0.00**	**0.54**	**0.04**	**0.00**	**0.58**	**0.11**	**0.00**	**0.33**	**0.33**	**0.09**	**9.59**	**0.33**

3.0 Construction Detail

Construction Phase

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 43.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)

OffRoad Equipment

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2795	0.0000	9.2795	1.4050	0.0000	1.4050			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**9.2795**	**1.2427**	**10.5221**	**1.4050**	**1.1553**	**2.5603**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2519	8.9849	1.6739	0.0321	0.7503	0.0233	0.7736	0.2057	0.0223	0.2280		3,406.0178	3,406.0178	0.2011		3,411.0460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.3234**	**9.0294**	**2.1411**	**0.0335**	**0.9180**	**0.0243**	**0.9423**	**0.2502**	**0.0232**	**0.2734**		**3,547.9397**	**3,547.9397**	**0.2048**		**3,553.0598**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6190	0.0000	3.6190	0.5480	0.0000	0.5480			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**3.6190**	**1.2427**	**4.8617**	**0.5480**	**1.1553**	**1.7032**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2519	8.9849	1.6739	0.0321	0.6993	0.0233	0.7225	0.1932	0.0223	0.2154		3,406.0178	3,406.0178	0.2011		3,411.0460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1546	1.0400e-003	0.1556	0.0413	9.6000e-004	0.0422		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.3234**	**9.0294**	**2.1411**	**0.0335**	**0.8538**	**0.0243**	**0.8781**	**0.2344**	**0.0232**	**0.2576**		**3,547.9397**	**3,547.9397**	**0.2048**		**3,553.0598**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		170.3063	170.3063	4.4100e-003		170.4166
Total	**0.0858**	**0.0534**	**0.5606**	**1.7100e-003**	**0.2012**	**1.2500e-003**	**0.2025**	**0.0534**	**1.1500e-003**	**0.0545**		**170.3063**	**170.3063**	**4.4100e-003**		**170.4166**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**7.0458**	**1.6126**	**8.6584**	**3.8730**	**1.4836**	**5.3565**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.1855	1.2500e-003	0.1867	0.0495	1.1500e-003	0.0506		170.3063	170.3063	4.4100e-003		170.4166
Total	**0.0858**	**0.0534**	**0.5606**	**1.7100e-003**	**0.1855**	**1.2500e-003**	**0.1867**	**0.0495**	**1.1500e-003**	**0.0506**		**170.3063**	**170.3063**	**4.4100e-003**		**170.4166**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518
Total	**0.0954**	**0.0594**	**0.6228**	**1.9000e-003**	**0.2236**	**1.3900e-003**	**0.2249**	**0.0593**	**1.2800e-003**	**0.0606**		**189.2292**	**189.2292**	**4.9000e-003**		**189.3518**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**3.3826**	**1.6349**	**5.0175**	**1.4026**	**1.5041**	**2.9067**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		189.2292	189.2292	4.9000e-003		189.3518
Total	**0.0954**	**0.0594**	**0.6228**	**1.9000e-003**	**0.2061**	**1.3900e-003**	**0.2075**	**0.0550**	**1.2800e-003**	**0.0563**		**189.2292**	**189.2292**	**4.9000e-003**		**189.3518**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		182.1267	182.1267	4.4000e-003		182.2366
Total	**0.0895**	**0.0534**	**0.5710**	**1.8300e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**182.1267**	**182.1267**	**4.4000e-003**		**182.2366**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		182.1267	182.1267	4.4000e-003		182.2366
Total	**0.0895**	**0.0534**	**0.5710**	**1.8300e-003**	**0.2061**	**1.3500e-003**	**0.2074**	**0.0550**	**1.2400e-003**	**0.0562**		**182.1267**	**182.1267**	**4.4000e-003**		**182.2366**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7976	65.0385	15.6055	0.2327	5.9626	0.0659	6.0285	1.7168	0.0630	1.7799		24,568.9361	24,568.9361	1.4377		24,604.8788
Worker	10.6689	6.3724	68.0931	0.2179	26.6587	0.1611	26.8197	7.0700	0.1483	7.2183		21,718.6071	21,718.6071	0.5241		21,731.7104
Total	**12.4665**	**71.4109**	**83.6986**	**0.4506**	**32.6213**	**0.2270**	**32.8483**	**8.7868**	**0.2113**	**8.9981**		**46,287.5432**	**46,287.5432**	**1.9618**		**46,336.5892**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7976	65.0385	15.6055	0.2327	5.5804	0.0659	5.6463	1.6230	0.0630	1.6860		24,568.9361	24,568.9361	1.4377		24,604.8788
Worker	10.6689	6.3724	68.0931	0.2179	24.5728	0.1611	24.7339	6.5580	0.1483	6.7063		21,718.6071	21,718.6071	0.5241		21,731.7104
Total	**12.4665**	**71.4109**	**83.6986**	**0.4506**	**30.1532**	**0.2270**	**30.3802**	**8.1810**	**0.2113**	**8.3923**		**46,287.5432**	**46,287.5432**	**1.9618**		**46,336.5892**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2947**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0671	0.0401	0.4283	1.3700e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		136.5950	136.5950	3.3000e-003		136.6774
Total	**0.0671**	**0.0401**	**0.4283**	**1.3700e-003**	**0.1677**	**1.0100e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**		**136.5950**	**136.5950**	**3.3000e-003**		**136.6774**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2947**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0671	0.0401	0.4283	1.3700e-003	0.1546	1.0100e-003	0.1556	0.0413	9.3000e-004	0.0422		136.5950	136.5950	3.3000e-003		136.6774
Total	**0.0671**	**0.0401**	**0.4283**	**1.3700e-003**	**0.1546**	**1.0100e-003**	**0.1556**	**0.0413**	**9.3000e-004**	**0.0422**		**136.5950**	**136.5950**	**3.3000e-003**		**136.6774**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	166.3159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**166.5076**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1338	1.2745	13.6186	0.0436	5.3317	0.0322	5.3640	1.4140	0.0297	1.4437		4,343.7214	4,343.7214	0.1048		4,346.3421
Total	**2.1338**	**1.2745**	**13.6186**	**0.0436**	**5.3317**	**0.0322**	**5.3640**	**1.4140**	**0.0297**	**1.4437**		**4,343.7214**	**4,343.7214**	**0.1048**		**4,346.3421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	166.3159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**166.5076**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1338	1.2745	13.6186	0.0436	4.9146	0.0322	4.9468	1.3116	0.0297	1.3413		4,343.7214	4,343.7214	0.1048		4,346.3421
Total	**2.1338**	**1.2745**	**13.6186**	**0.0436**	**4.9146**	**0.0322**	**4.9468**	**1.3116**	**0.0297**	**1.3413**		**4,343.7214**	**4,343.7214**	**0.1048**		**4,346.3421**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382
Unmitigated	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	35,227,309
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
Total	7,232.02	7,232.02	7,232.02	55,640,457	55,640,457

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
NaturalGas Unmitigated	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	5714.83	0.0616	0.5603	0.4706	3.3600e-003		0.0426	0.0426		0.0426	0.0426		672.3333	672.3333	0.0129	0.0123	676.3287
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47408.6	0.5113	4.6479	3.9042	0.0279		0.3532	0.3532		0.3532	0.3532		5,577.4841	5,577.4841	0.1069	0.1023	5,610.6283
Unrefrigerated Warehouse-No Rail	12443.3	0.1342	1.2199	1.0247	7.3200e-003		0.0927	0.0927		0.0927	0.0927		1,463.9143	1,463.9143	0.0281	0.0268	1,472.6136
Total		**0.7071**	**6.4281**	**5.3996**	**0.0386**		**0.4885**	**0.4885**		**0.4885**	**0.4885**		**7,713.7317**	**7,713.7317**	**0.1479**	**0.1414**	**7,759.5706**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.00038	0.0431	0.3922	0.3294	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.6333	470.6333	9.0200e-003	8.6300e-003	473.4301
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	46.5156	0.5016	4.5604	3.8307	0.0274		0.3466	0.3466		0.3466	0.3466		5,472.4214	5,472.4214	0.1049	0.1003	5,504.9412
Unrefrigerated Warehouse-No Rail	8.76546	0.0945	0.8594	0.7219	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.2303	1,031.2303	0.0198	0.0189	1,037.3584
Total		**0.6393**	**5.8119**	**4.8820**	**0.0349**		**0.4417**	**0.4417**		**0.4417**	**0.4417**		**6,974.2850**	**6,974.2850**	**0.1337**	**0.1279**	**7,015.7297**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Unmitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Total	**71.7716**	**4.7200e-003**	**0.5182**	**4.0000e-005**		**1.8500e-003**	**1.8500e-003**		**1.8500e-003**	**1.8500e-003**		**1.1109**	**1.1109**	**2.9100e-003**		**1.1837**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Total	**71.7716**	**4.7200e-003**	**0.5182**	**4.0000e-005**		**1.8500e-003**	**1.8500e-003**		**1.8500e-003**	**1.8500e-003**		**1.1109**	**1.1109**	**2.9100e-003**		**1.1837**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	4.00	260	200	0.37	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	9.8438	92.1289	109.9000	0.1467		5.6930	5.6930		5.2376	5.2376		14,210.9597	14,210.9597	4.5961		14,325.8625
Tractors/Loaders/Backhoes	0.8826	8.2886	5.9936	0.0253		0.3007	0.3007		0.2767	0.2767		2,452.3608	2,452.3608	0.7931		2,472.1894
Total	**10.7264**	**100.4175**	**115.8936**	**0.1721**		**5.9937**	**5.9937**		**5.5142**	**5.5142**		**16,663.3205**	**16,663.3205**	**5.3893**		**16,798.0519**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 1 - with Mitigation

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use 5830/601.128 ksf= 9.69843361147708973795930317669 45 , truck trip rate shown under unrefrigerated w/h 1402/2237.337 ksf = 0.626637828811663151326778218927 23

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total)

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00

tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	10
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00

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tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
tblFleetMix	LDA	0.56	1.00
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tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
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tblFleetMix	UBUS	1.5280e-003	0.00
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tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
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tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35

tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003
tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93

tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24

tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21

tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07

tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27

tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004

tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64

tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003
tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.12	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96

tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003
tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90

tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13

tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75

tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08

tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34

tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01

tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40

tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
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tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71

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tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
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tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
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tblVehicleEF	MHD	9.6000e-005	2.7700e-004
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tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03

tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
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tblVehicleEF	MHD	0.23	0.15
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tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003

tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.93	2.39
tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

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tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003

tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004

tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
tblVehicleEF	OBUS	5.88	2.39
tblVehicleEF	OBUS	60.64	74.35
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.42	0.94
tblVehicleEF	OBUS	1.84	0.73
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	5.9100e-004	7.0900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
tblVehicleEF	SBUS	0.06	6.2470e-003
tblVehicleEF	SBUS	5.80	2.57
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
tblVehicleEF	SBUS	38.16	4.83
tblVehicleEF	SBUS	10.92	3.17
tblVehicleEF	SBUS	4.37	4.90
tblVehicleEF	SBUS	14.81	0.97

tblVehicleEF	SBUS	0.01	3.8920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	7.9830e-003

tblVehicleEF	SBUS	0.05	5.2310e-003
tblVehicleEF	SBUS	5.67	2.53
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	3.58	0.59
tblVehicleEF	SBUS	1,307.61	350.69
tblVehicleEF	SBUS	1,128.46	1,098.71
tblVehicleEF	SBUS	38.16	4.45
tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
tblVehicleEF	SBUS	14.78	0.97
tblVehicleEF	SBUS	8.8570e-003	3.2880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68
tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07

tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34

tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03
tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76

tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70

tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7197	38.9000	29.8021	0.0733	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	7,403.6619	7,403.6619	1.9498	0.0000	7,434.7058
2023	51.7885	99.1286	146.7171	0.5878	38.1207	1.5387	39.6593	10.2453	1.4383	11.6836	0.0000	59,797.4675	59,797.4675	3.3600	0.0000	59,881.4675
Maximum	**51.7885**	**99.1286**	**146.7171**	**0.5878**	**38.1207**	**1.6363**	**39.6593**	**10.2453**	**1.5054**	**11.6836**	**0.0000**	**59,797.4675**	**59,797.4675**	**3.3600**	**0.0000**	**59,881.4675**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7197	38.9000	29.8021	0.0733	7.2313	1.6363	8.8451	3.9225	1.5054	5.4072	0.0000	7,403.6619	7,403.6619	1.9498	0.0000	7,434.7058
2023	51.7885	99.1286	146.7171	0.5878	35.2223	1.5387	36.7610	9.5339	1.4383	10.9722	0.0000	59,797.4675	59,797.4675	3.3600	0.0000	59,881.4675
Maximum	**51.7885**	**99.1286**	**146.7171**	**0.5878**	**35.2223**	**1.6363**	**36.7610**	**9.5339**	**1.5054**	**10.9722**	**0.0000**	**59,797.4675**	**59,797.4675**	**3.3600**	**0.0000**	**59,881.4675**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**24.71**	**0.00**	**23.40**	**33.48**	**0.00**	**29.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706
Mobile	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710
Total	**87.9707**	**257.6786**	**257.0042**	**1.9313**	**123.6769**	**2.7066**	**126.3835**	**33.6353**	**2.5983**	**36.2336**		**211,235.9685**	**211,235.9685**	**10.8246**	**0.1414**	**211,548.7253**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	64.3899	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
Mobile	15.4657	251.1600	248.9328	1.8849	122.6917	2.2120	124.9037	33.3741	2.1041	35.4782		202,730.5536	202,730.5536	10.6667		202,997.2203
Total	**80.4949**	**256.9766**	**254.3330**	**1.9198**	**122.6917**	**2.6556**	**125.3473**	**33.3741**	**2.5476**	**35.9217**		**209,705.9495**	**209,705.9495**	**10.8033**	**0.1279**	**210,014.1337**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.50**	**0.27**	**1.04**	**0.60**	**0.80**	**1.88**	**0.82**	**0.78**	**1.95**	**0.86**	**0.00**	**0.72**	**0.72**	**0.20**	**9.59**	**0.73**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 43.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)

OffRoad Equipment

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2795	0.0000	9.2795	1.4050	0.0000	1.4050			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**9.2795**	**1.2427**	**10.5221**	**1.4050**	**1.1553**	**2.5603**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2408	8.9694	1.4685	0.0329	0.7503	0.0229	0.7732	0.2057	0.0219	0.2276		3,498.6904	3,498.6904	0.1851		3,503.3186
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.3120**	**9.0118**	**2.0389**	**0.0345**	**0.9180**	**0.0240**	**0.9419**	**0.2502**	**0.0229**	**0.2731**		**3,656.8807**	**3,656.8807**	**0.1893**		**3,661.6137**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6190	0.0000	3.6190	0.5480	0.0000	0.5480			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**3.6190**	**1.2427**	**4.8617**	**0.5480**	**1.1553**	**1.7032**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2408	8.9694	1.4685	0.0329	0.6993	0.0229	0.7222	0.1932	0.0219	0.2151		3,498.6904	3,498.6904	0.1851		3,503.3186
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1546	1.0400e-003	0.1556	0.0413	9.6000e-004	0.0422		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.3120**	**9.0118**	**2.0389**	**0.0345**	**0.8538**	**0.0240**	**0.8778**	**0.2344**	**0.0229**	**0.2573**		**3,656.8807**	**3,656.8807**	**0.1893**		**3,661.6137**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		189.8284	189.8284	5.0300e-003		189.9541
Total	**0.0854**	**0.0508**	**0.6846**	**1.9100e-003**	**0.2012**	**1.2500e-003**	**0.2025**	**0.0534**	**1.1500e-003**	**0.0545**		**189.8284**	**189.8284**	**5.0300e-003**		**189.9541**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**7.0458**	**1.6126**	**8.6584**	**3.8730**	**1.4836**	**5.3565**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0854	0.0508	0.6846	1.9100e-003	0.1855	1.2500e-003	0.1867	0.0495	1.1500e-003	0.0506		189.8284	189.8284	5.0300e-003		189.9541
Total	**0.0854**	**0.0508**	**0.6846**	**1.9100e-003**	**0.1855**	**1.2500e-003**	**0.1867**	**0.0495**	**1.1500e-003**	**0.0506**		**189.8284**	**189.8284**	**5.0300e-003**		**189.9541**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601
Total	**0.0949**	**0.0565**	**0.7606**	**2.1200e-003**	**0.2236**	**1.3900e-003**	**0.2249**	**0.0593**	**1.2800e-003**	**0.0606**		**210.9205**	**210.9205**	**5.5900e-003**		**211.0601**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**3.3826**	**1.6349**	**5.0175**	**1.4026**	**1.5041**	**2.9067**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0949	0.0565	0.7606	2.1200e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		210.9205	210.9205	5.5900e-003		211.0601
Total	**0.0949**	**0.0565**	**0.7606**	**2.1200e-003**	**0.2061**	**1.3900e-003**	**0.2075**	**0.0550**	**1.2800e-003**	**0.0563**		**210.9205**	**210.9205**	**5.5900e-003**		**211.0601**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.9900	202.9900	5.0000e-003		203.1151
Total	**0.0888**	**0.0509**	**0.6984**	**2.0400e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**202.9900**	**202.9900**	**5.0000e-003**		**203.1151**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		202.9900	202.9900	5.0000e-003		203.1151
Total	**0.0888**	**0.0509**	**0.6984**	**2.0400e-003**	**0.2061**	**1.3500e-003**	**0.2074**	**0.0550**	**1.2400e-003**	**0.0562**		**202.9900**	**202.9900**	**5.0000e-003**		**203.1151**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6951	65.9332	13.6114	0.2420	5.9626	0.0636	6.0262	1.7168	0.0608	1.7777		25,553.1088	25,553.1088	1.3019		25,585.6565
Worker	10.5871	6.0648	83.2855	0.2430	26.6587	0.1611	26.8197	7.0700	0.1483	7.2183		24,206.5617	24,206.5617	0.5964		24,221.4717
Total	**12.2822**	**71.9980**	**96.8969**	**0.4850**	**32.6213**	**0.2247**	**32.8460**	**8.7868**	**0.2091**	**8.9959**		**49,759.6706**	**49,759.6706**	**1.8983**		**49,807.1282**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6951	65.9332	13.6114	0.2420	5.5804	0.0636	5.6440	1.6230	0.0608	1.6838		25,553.1088	25,553.1088	1.3019		25,585.6565
Worker	10.5871	6.0648	83.2855	0.2430	24.5728	0.1611	24.7339	6.5580	0.1483	6.7063		24,206.5617	24,206.5617	0.5964		24,221.4717
Total	**12.2822**	**71.9980**	**96.8969**	**0.4850**	**30.1532**	**0.2247**	**30.3779**	**8.1810**	**0.2091**	**8.3901**		**49,759.6706**	**49,759.6706**	**1.8983**		**49,807.1282**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2947**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0381	0.5238	1.5300e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		152.2425	152.2425	3.7500e-003		152.3363
Total	**0.0666**	**0.0381**	**0.5238**	**1.5300e-003**	**0.1677**	**1.0100e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**		**152.2425**	**152.2425**	**3.7500e-003**		**152.3363**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2947**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0381	0.5238	1.5300e-003	0.1546	1.0100e-003	0.1556	0.0413	9.3000e-004	0.0422		152.2425	152.2425	3.7500e-003		152.3363
Total	**0.0666**	**0.0381**	**0.5238**	**1.5300e-003**	**0.1546**	**1.0100e-003**	**0.1556**	**0.0413**	**9.3000e-004**	**0.0422**		**152.2425**	**152.2425**	**3.7500e-003**		**152.3363**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.2632					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**33.4549**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1174	1.2130	16.6571	0.0486	5.3317	0.0322	5.3640	1.4140	0.0297	1.4437		4,841.3124	4,841.3124	0.1193		4,844.2943
Total	**2.1174**	**1.2130**	**16.6571**	**0.0486**	**5.3317**	**0.0322**	**5.3640**	**1.4140**	**0.0297**	**1.4437**		**4,841.3124**	**4,841.3124**	**0.1193**		**4,844.2943**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.2632					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**33.4549**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1174	1.2130	16.6571	0.0486	4.9146	0.0322	4.9468	1.3116	0.0297	1.3413		4,841.3124	4,841.3124	0.1193		4,844.2943
Total	**2.1174**	**1.2130**	**16.6571**	**0.0486**	**4.9146**	**0.0322**	**4.9468**	**1.3116**	**0.0297**	**1.3413**		**4,841.3124**	**4,841.3124**	**0.1193**		**4,844.2943**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.4657	251.1600	248.9328	1.8849	122.6917	2.2120	124.9037	33.3741	2.1041	35.4782		202,730.5536	202,730.5536	10.6667		202,997.2203
Unmitigated	15.4919	251.2457	251.0864	1.8927	123.6769	2.2162	125.8931	33.6353	2.1079	35.7432		203,521.1259	203,521.1259	10.6738		203,787.9710

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	34,755,263
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
Total	7,232.02	7,232.02	7,232.02	55,640,457	55,168,411

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
NaturalGas Unmitigated	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	5714.83	0.0616	0.5603	0.4706	3.3600e-003		0.0426	0.0426		0.0426	0.0426		672.3333	672.3333	0.0129	0.0123	676.3287
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47408.6	0.5113	4.6479	3.9042	0.0279		0.3532	0.3532		0.3532	0.3532		5,577.4841	5,577.4841	0.1069	0.1023	5,610.6283
Unrefrigerated Warehouse-No Rail	12443.3	0.1342	1.2199	1.0247	7.3200e-003		0.0927	0.0927		0.0927	0.0927		1,463.9143	1,463.9143	0.0281	0.0268	1,472.6136
Total		**0.7071**	**6.4281**	**5.3996**	**0.0386**		**0.4885**	**0.4885**		**0.4885**	**0.4885**		**7,713.7317**	**7,713.7317**	**0.1479**	**0.1414**	**7,759.5706**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.00038	0.0431	0.3922	0.3294	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.6333	470.6333	9.0200e-003	8.6300e-003	473.4301
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	46.5156	0.5016	4.5604	3.8307	0.0274		0.3466	0.3466		0.3466	0.3466		5,472.4214	5,472.4214	0.1049	0.1003	5,504.9412
Unrefrigerated Warehouse-No Rail	8.76546	0.0945	0.8594	0.7219	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.2303	1,031.2303	0.0198	0.0189	1,037.3584
Total		**0.6393**	**5.8119**	**4.8820**	**0.0349**		**0.4417**	**0.4417**		**0.4417**	**0.4417**		**6,974.2850**	**6,974.2850**	**0.1337**	**0.1279**	**7,015.7297**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	64.3899	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Unmitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Total	**71.7716**	**4.7200e-003**	**0.5182**	**4.0000e-005**		**1.8500e-003**	**1.8500e-003**		**1.8500e-003**	**1.8500e-003**		**1.1109**	**1.1109**	**2.9100e-003**		**1.1837**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8202					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Total	**64.3899**	**4.7200e-003**	**0.5182**	**4.0000e-005**		**1.8500e-003**	**1.8500e-003**		**1.8500e-003**	**1.8500e-003**		**1.1109**	**1.1109**	**2.9100e-003**		**1.1837**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 1 - with Mitigation

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use 5830/601.128 ksf= 9.69843361147708973795930317669 45 , truck trip rate shown under unrefrigerated w/h 1402/2237.337 ksf = 0.626637828811663151326778218927 23

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total)

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00

tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	10
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	200.00	40.00
tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00

tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.80
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	LHD2	4.9390e-003	0.04
tblFleetMix	LHD2	4.9390e-003	0.22
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00

tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	601,130.00	601,128.00
tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
tblLandUse	LandUseSquareFeet	636,411.60	616,896.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.91	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.24	6.40
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.77	3.8150e-003
tblVehicleEF	HHD	6,625.94	1,077.53
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03

tblVehicleEF	HHD	18.87	5.51
tblVehicleEF	HHD	1.27	2.53
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	5.8970e-003	2.9090e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	5.6420e-003	2.7830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	9.8880e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.68	0.50
tblVehicleEF	HHD	4.9000e-005	2.0000e-006

tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.86	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	1.63	6.31
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.66	3.6010e-003
tblVehicleEF	HHD	7,019.59	1,065.64
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	19.48	5.27
tblVehicleEF	HHD	1.19	2.38
tblVehicleEF	HHD	20.19	2.40
tblVehicleEF	HHD	4.9720e-003	2.5370e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	4.7570e-003	2.4270e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004

tblVehicleEF	HHD	0.56	0.45
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	9.7740e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.2000e-005	0.00
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.64	0.53
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.98	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.08	6.53
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.75	3.7850e-003
tblVehicleEF	HHD	6,082.32	1,093.94
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.04	5.84
tblVehicleEF	HHD	1.25	2.49
tblVehicleEF	HHD	20.20	2.40

tblVehicleEF	HHD	7.1750e-003	3.4230e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	6.8650e-003	3.2750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.64	0.39
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.74	0.46
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006

tblVehicleEF	LDA	3.7920e-003	2.2110e-003
tblVehicleEF	LDA	4.9090e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.08	2.05
tblVehicleEF	LDA	240.90	255.40
tblVehicleEF	LDA	55.00	52.15
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.5230e-003	8.2230e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.4120e-003	2.5270e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	4.3170e-003	2.4970e-003

tblVehicleEF	LDA	4.0940e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.90	1.73
tblVehicleEF	LDA	263.54	276.52
tblVehicleEF	LDA	55.00	51.54
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.1980e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05

tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35

tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003
tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93

tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24

tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21

tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07

tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27

tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004

tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64

tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
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tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
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tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003
tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
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tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96

tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003
tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90

tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13

tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75

tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08

tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34

tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01

tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
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tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40

tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
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tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.82	0.71

tblVehicleEF	MHD	153.99	65.44
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tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
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tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
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tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03

tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
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tblVehicleEF	MHD	0.23	0.15
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tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
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tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003

tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
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tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23

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tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
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tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003

tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
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tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
tblVehicleEF	OBUS	5.43	2.22
tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
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tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
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tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004

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tblVehicleEF	OBUS	0.05	0.29
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tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
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tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
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tblVehicleEF	SBUS	14.81	0.97

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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
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tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68
tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07

tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34

tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03
tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76

tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70

tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7202	38.9028	29.6644	0.0723	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	7,294.7209	7,294.7209	1.9491	0.0000	7,326.1519
2023	51.9897	98.6050	130.3848	0.5483	38.1207	1.5410	39.6616	10.2453	1.4405	11.6858	0.0000	55,812.1017	55,812.1017	3.4086	0.0000	55,897.3173
Maximum	**51.9897**	**98.6050**	**130.3848**	**0.5483**	**38.1207**	**1.6363**	**39.6616**	**10.2453**	**1.5054**	**11.6858**	**0.0000**	**55,812.1017**	**55,812.1017**	**3.4086**	**0.0000**	**55,897.3173**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7202	38.9028	29.6644	0.0723	7.2313	1.6363	8.8451	3.9225	1.5054	5.4072	0.0000	7,294.7209	7,294.7209	1.9491	0.0000	7,326.1519
2023	51.9897	98.6050	130.3848	0.5483	35.2223	1.5410	36.7633	9.5339	1.4405	10.9744	0.0000	55,812.1017	55,812.1017	3.4086	0.0000	55,897.3173
Maximum	**51.9897**	**98.6050**	**130.3848**	**0.5483**	**35.2223**	**1.6363**	**36.7633**	**9.5339**	**1.5054**	**10.9744**	**0.0000**	**55,812.1017**	**55,812.1017**	**3.4086**	**0.0000**	**55,897.3173**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**24.71**	**0.00**	**23.40**	**33.48**	**0.00**	**29.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706
Mobile	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382
Total	**87.1661**	**269.3047**	**228.8553**	**1.8789**	**123.6769**	**2.7083**	**126.3851**	**33.6353**	**2.5999**	**36.2352**		**205,952.3048**	**205,952.3048**	**10.8298**	**0.1414**	**206,265.1925**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	64.3899	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Energy	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
Mobile	14.6644	262.7814	221.2218	1.8332	122.6917	2.2137	124.9054	33.3741	2.1057	35.4798		197,518.4860	197,518.4860	10.6729		197,785.3072
Total	**79.6936**	**268.5980**	**226.6220**	**1.8681**	**122.6917**	**2.6573**	**125.3489**	**33.3741**	**2.5492**	**35.9233**		**204,493.8819**	**204,493.8819**	**10.8094**	**0.1279**	**204,802.2205**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.57**	**0.26**	**0.98**	**0.58**	**0.80**	**1.88**	**0.82**	**0.78**	**1.95**	**0.86**	**0.00**	**0.71**	**0.71**	**0.19**	**9.59**	**0.71**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 43.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)

OffRoad Equipment

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2795	0.0000	9.2795	1.4050	0.0000	1.4050			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**9.2795**	**1.2427**	**10.5221**	**1.4050**	**1.1553**	**2.5603**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2519	8.9849	1.6739	0.0321	0.7503	0.0233	0.7736	0.2057	0.0223	0.2280		3,406.0178	3,406.0178	0.2011		3,411.0460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.3234**	**9.0294**	**2.1411**	**0.0335**	**0.9180**	**0.0243**	**0.9423**	**0.2502**	**0.0232**	**0.2734**		**3,547.9397**	**3,547.9397**	**0.2048**		**3,553.0598**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6190	0.0000	3.6190	0.5480	0.0000	0.5480			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**3.6190**	**1.2427**	**4.8617**	**0.5480**	**1.1553**	**1.7032**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2519	8.9849	1.6739	0.0321	0.6993	0.0233	0.7225	0.1932	0.0223	0.2154		3,406.0178	3,406.0178	0.2011		3,411.0460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1546	1.0400e-003	0.1556	0.0413	9.6000e-004	0.0422		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.3234**	**9.0294**	**2.1411**	**0.0335**	**0.8538**	**0.0243**	**0.8781**	**0.2344**	**0.0232**	**0.2576**		**3,547.9397**	**3,547.9397**	**0.2048**		**3,553.0598**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.2012	1.2500e-003	0.2025	0.0534	1.1500e-003	0.0545		170.3063	170.3063	4.4100e-003		170.4166
Total	**0.0858**	**0.0534**	**0.5606**	**1.7100e-003**	**0.2012**	**1.2500e-003**	**0.2025**	**0.0534**	**1.1500e-003**	**0.0545**		**170.3063**	**170.3063**	**4.4100e-003**		**170.4166**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**7.0458**	**1.6126**	**8.6584**	**3.8730**	**1.4836**	**5.3565**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0534	0.5606	1.7100e-003	0.1855	1.2500e-003	0.1867	0.0495	1.1500e-003	0.0506		170.3063	170.3063	4.4100e-003		170.4166
Total	**0.0858**	**0.0534**	**0.5606**	**1.7100e-003**	**0.1855**	**1.2500e-003**	**0.1867**	**0.0495**	**1.1500e-003**	**0.0506**		**170.3063**	**170.3063**	**4.4100e-003**		**170.4166**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518
Total	**0.0954**	**0.0594**	**0.6228**	**1.9000e-003**	**0.2236**	**1.3900e-003**	**0.2249**	**0.0593**	**1.2800e-003**	**0.0606**		**189.2292**	**189.2292**	**4.9000e-003**		**189.3518**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**3.3826**	**1.6349**	**5.0175**	**1.4026**	**1.5041**	**2.9067**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2061	1.3900e-003	0.2075	0.0550	1.2800e-003	0.0563		189.2292	189.2292	4.9000e-003		189.3518
Total	**0.0954**	**0.0594**	**0.6228**	**1.9000e-003**	**0.2061**	**1.3900e-003**	**0.2075**	**0.0550**	**1.2800e-003**	**0.0563**		**189.2292**	**189.2292**	**4.9000e-003**		**189.3518**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		182.1267	182.1267	4.4000e-003		182.2366
Total	**0.0895**	**0.0534**	**0.5710**	**1.8300e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**182.1267**	**182.1267**	**4.4000e-003**		**182.2366**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		182.1267	182.1267	4.4000e-003		182.2366
Total	**0.0895**	**0.0534**	**0.5710**	**1.8300e-003**	**0.2061**	**1.3500e-003**	**0.2074**	**0.0550**	**1.2400e-003**	**0.0562**		**182.1267**	**182.1267**	**4.4000e-003**		**182.2366**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7976	65.0385	15.6055	0.2327	5.9626	0.0659	6.0285	1.7168	0.0630	1.7799		24,568.9361	24,568.9361	1.4377		24,604.8788
Worker	10.6689	6.3724	68.0931	0.2179	26.6587	0.1611	26.8197	7.0700	0.1483	7.2183		21,718.6071	21,718.6071	0.5241		21,731.7104
Total	**12.4665**	**71.4109**	**83.6986**	**0.4506**	**32.6213**	**0.2270**	**32.8483**	**8.7868**	**0.2113**	**8.9981**		**46,287.5432**	**46,287.5432**	**1.9618**		**46,336.5892**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7976	65.0385	15.6055	0.2327	5.5804	0.0659	5.6463	1.6230	0.0630	1.6860		24,568.9361	24,568.9361	1.4377		24,604.8788
Worker	10.6689	6.3724	68.0931	0.2179	24.5728	0.1611	24.7339	6.5580	0.1483	6.7063		21,718.6071	21,718.6071	0.5241		21,731.7104
Total	**12.4665**	**71.4109**	**83.6986**	**0.4506**	**30.1532**	**0.2270**	**30.3802**	**8.1810**	**0.2113**	**8.3923**		**46,287.5432**	**46,287.5432**	**1.9618**		**46,336.5892**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2947**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0671	0.0401	0.4283	1.3700e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		136.5950	136.5950	3.3000e-003		136.6774
Total	**0.0671**	**0.0401**	**0.4283**	**1.3700e-003**	**0.1677**	**1.0100e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**		**136.5950**	**136.5950**	**3.3000e-003**		**136.6774**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.2620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.2947**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0671	0.0401	0.4283	1.3700e-003	0.1546	1.0100e-003	0.1556	0.0413	9.3000e-004	0.0422		136.5950	136.5950	3.3000e-003		136.6774
Total	**0.0671**	**0.0401**	**0.4283**	**1.3700e-003**	**0.1546**	**1.0100e-003**	**0.1556**	**0.0413**	**9.3000e-004**	**0.0422**		**136.5950**	**136.5950**	**3.3000e-003**		**136.6774**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.2632					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**33.4549**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1338	1.2745	13.6186	0.0436	5.3317	0.0322	5.3640	1.4140	0.0297	1.4437		4,343.7214	4,343.7214	0.1048		4,346.3421
Total	**2.1338**	**1.2745**	**13.6186**	**0.0436**	**5.3317**	**0.0322**	**5.3640**	**1.4140**	**0.0297**	**1.4437**		**4,343.7214**	**4,343.7214**	**0.1048**		**4,346.3421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.2632					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**33.4549**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.1338	1.2745	13.6186	0.0436	4.9146	0.0322	4.9468	1.3116	0.0297	1.3413		4,343.7214	4,343.7214	0.1048		4,346.3421
Total	**2.1338**	**1.2745**	**13.6186**	**0.0436**	**4.9146**	**0.0322**	**4.9468**	**1.3116**	**0.0297**	**1.3413**		**4,343.7214**	**4,343.7214**	**0.1048**		**4,346.3421**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.6644	262.7814	221.2218	1.8332	122.6917	2.2137	124.9054	33.3741	2.1057	35.4798		197,518.4860	197,518.4860	10.6729		197,785.3072
Unmitigated	14.6874	262.8719	222.9375	1.8403	123.6769	2.2179	125.8948	33.6353	2.1095	35.7448		198,237.4622	198,237.4622	10.6790		198,504.4382

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	34,755,263
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
Total	7,232.02	7,232.02	7,232.02	55,640,457	55,168,411

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6393	5.8119	4.8820	0.0349		0.4417	0.4417		0.4417	0.4417		6,974.2850	6,974.2850	0.1337	0.1279	7,015.7297
NaturalGas Unmitigated	0.7071	6.4281	5.3996	0.0386		0.4885	0.4885		0.4885	0.4885		7,713.7317	7,713.7317	0.1479	0.1414	7,759.5706

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	5714.83	0.0616	0.5603	0.4706	3.3600e-003		0.0426	0.0426		0.0426	0.0426		672.3333	672.3333	0.0129	0.0123	676.3287
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47408.6	0.5113	4.6479	3.9042	0.0279		0.3532	0.3532		0.3532	0.3532		5,577.4841	5,577.4841	0.1069	0.1023	5,610.6283
Unrefrigerated Warehouse-No Rail	12443.3	0.1342	1.2199	1.0247	7.3200e-003		0.0927	0.0927		0.0927	0.0927		1,463.9143	1,463.9143	0.0281	0.0268	1,472.6136
Total		**0.7071**	**6.4281**	**5.3996**	**0.0386**		**0.4885**	**0.4885**		**0.4885**	**0.4885**		**7,713.7317**	**7,713.7317**	**0.1479**	**0.1414**	**7,759.5706**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.00038	0.0431	0.3922	0.3294	2.3500e-003		0.0298	0.0298		0.0298	0.0298		470.6333	470.6333	9.0200e-003	8.6300e-003	473.4301
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	46.5156	0.5016	4.5604	3.8307	0.0274		0.3466	0.3466		0.3466	0.3466		5,472.4214	5,472.4214	0.1049	0.1003	5,504.9412
Unrefrigerated Warehouse-No Rail	8.76546	0.0945	0.8594	0.7219	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.2303	1,031.2303	0.0198	0.0189	1,037.3584
Total		**0.6393**	**5.8119**	**4.8820**	**0.0349**		**0.4417**	**0.4417**		**0.4417**	**0.4417**		**6,974.2850**	**6,974.2850**	**0.1337**	**0.1279**	**7,015.7297**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	64.3899	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Unmitigated	71.7716	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.2019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Total	**71.7716**	**4.7200e-003**	**0.5182**	**4.0000e-005**		**1.8500e-003**	**1.8500e-003**		**1.8500e-003**	**1.8500e-003**		**1.1109**	**1.1109**	**2.9100e-003**		**1.1837**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8202					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	63.5217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0480	4.7200e-003	0.5182	4.0000e-005		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		1.1109	1.1109	2.9100e-003		1.1837
Total	**64.3899**	**4.7200e-003**	**0.5182**	**4.0000e-005**		**1.8500e-003**	**1.8500e-003**		**1.8500e-003**	**1.8500e-003**		**1.1109**	**1.1109**	**2.9100e-003**		**1.1837**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 2 - No Mitigation

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - Rule 1113

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use 4178/474.107 ksf= 8.81235670428827247857551143518 24 , truck trip rate shown under unrefrigerated w/h 1036/1536.163 ksf = 0.67440759867279709249604371411107

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - Rule 1113

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 forklifts, same as Phase 1. Assume 8 yard trucks, same as phase 1, 200 hp

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	50.00
tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.7940e-003	0.00
tblFleetMix	LHD2	4.7940e-003	0.12
tblFleetMix	LHD2	4.7940e-003	0.22
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00

tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.37

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.92	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.21	6.39
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.68	3.3280e-003
tblVehicleEF	HHD	6,548.54	1,061.49
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	18.65	5.46
tblVehicleEF	HHD	1.28	2.58
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	5.3430e-003	2.7890e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	5.1120e-003	2.6680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004

tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.7450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.1000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.67	0.50
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.87	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.61	6.30
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.58	3.1420e-003
tblVehicleEF	HHD	6,937.59	1,049.59
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	19.25	5.22
tblVehicleEF	HHD	1.20	2.44
tblVehicleEF	HHD	20.20	2.40

tblVehicleEF	HHD	4.5050e-003	2.4350e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	4.3100e-003	2.3300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.55	0.45
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.07	9.6320e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.9000e-005	0.00
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.64	0.52
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006

tblVehicleEF	HHD	0.99	0.03
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tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	3.05	6.52
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.66	3.3020e-003
tblVehicleEF	HHD	6,011.27	1,077.93
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	17.82	5.79
tblVehicleEF	HHD	1.26	2.55
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	6.5010e-003	3.2780e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	6.2190e-003	3.1360e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.63	0.39
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03

tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.9020e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.0000e-005	0.00
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.73	0.46
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.4870e-003	2.0140e-003
tblVehicleEF	LDA	4.3060e-003	0.04
tblVehicleEF	LDA	0.51	0.59
tblVehicleEF	LDA	0.99	1.98
tblVehicleEF	LDA	232.23	249.04
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.7420e-003	7.3480e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.3250e-003	2.4640e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.9680e-003	2.2760e-003
tblVehicleEF	LDA	3.5930e-003	0.04
tblVehicleEF	LDA	0.62	0.72
tblVehicleEF	LDA	0.82	1.67
tblVehicleEF	LDA	254.04	269.63
tblVehicleEF	LDA	52.85	49.93
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.15
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	9.9310e-003	8.2200e-003

tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.16
tblVehicleEF	LDA	2.5450e-003	2.6670e-003
tblVehicleEF	LDA	5.4200e-004	4.9400e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.3950e-003	1.9730e-003
tblVehicleEF	LDA	4.2830e-003	0.04
tblVehicleEF	LDA	0.48	0.57
tblVehicleEF	LDA	0.97	1.98
tblVehicleEF	LDA	227.08	245.20
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.5140e-003	7.1980e-003
tblVehicleEF	LDA	0.04	0.22

tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	0.01	5.7610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.27	1.22
tblVehicleEF	LDT1	2.92	2.21
tblVehicleEF	LDT1	294.54	296.17
tblVehicleEF	LDT1	66.91	61.40
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34

tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003

tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09

tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
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tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14

tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003

tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003

tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18

tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003

tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003

tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03

tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003

tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004

tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82

tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003

tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004

tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11

tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17

tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MH	0.03	9.0580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06

tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74

tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004

tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MHD	0.02	2.3960e-003
tblVehicleEF	MHD	2.6000e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.9110e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.34	0.65
tblVehicleEF	MHD	155.87	63.89
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.97
tblVehicleEF	MHD	0.42	0.35
tblVehicleEF	MHD	0.64	1.08
tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	9.9000e-005	2.7300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01

tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
tblVehicleEF	MHD	1.4970e-003	6.0600e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	0.01	2.2870e-003
tblVehicleEF	MHD	2.6390e-003	9.7500e-004
tblVehicleEF	MHD	0.04	5.6790e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.06	0.62
tblVehicleEF	MHD	165.10	63.62
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.90
tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004

tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	8.4000e-005	2.3300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
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tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
tblVehicleEF	MHD	1.5840e-003	6.0300e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7500e-004	5.8000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	0.02	2.5560e-003
tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
tblVehicleEF	MHD	0.41	0.36
tblVehicleEF	MHD	0.23	0.14

tblVehicleEF	MHD	4.27	0.65
tblVehicleEF	MHD	143.11	64.26
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.96
tblVehicleEF	MHD	0.40	0.37
tblVehicleEF	MHD	0.63	1.06
tblVehicleEF	MHD	12.04	1.86
tblVehicleEF	MHD	1.2600e-004	3.4300e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
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tblVehicleEF	MHD	1.2100e-004	3.2800e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
tblVehicleEF	MHD	1.3770e-003	6.0900e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7900e-004	5.9000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004

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tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	OBUS	0.01	8.6570e-003
tblVehicleEF	OBUS	7.2410e-003	4.7730e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
tblVehicleEF	OBUS	5.59	2.33
tblVehicleEF	OBUS	65.08	74.10
tblVehicleEF	OBUS	1,122.26	1,367.42
tblVehicleEF	OBUS	70.20	19.84
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tblVehicleEF	OBUS	0.45	1.00
tblVehicleEF	OBUS	1.81	0.74
tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
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tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29

tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.3300e-004	7.0700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.7350e-003
tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.49	0.59
tblVehicleEF	OBUS	5.12	2.17
tblVehicleEF	OBUS	67.92	73.30
tblVehicleEF	OBUS	1,122.26	1,367.44
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tblVehicleEF	OBUS	0.13	0.26
tblVehicleEF	OBUS	0.41	0.93
tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005

tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42

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tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
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tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
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tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
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tblVehicleEF	OBUS	0.05	0.31
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
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tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04

tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01
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tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
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tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003

tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
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tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
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tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
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tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
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tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
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tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
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tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
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tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
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tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
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tblVehicleEF	UBUS	0.08	8.1160e-003
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tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
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tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004

tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
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tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
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tblVehicleEF	UBUS	1,818.42	1,682.82
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tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
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tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
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tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
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tblVehicleEF	UBUS	0.02	0.02

tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003
tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
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tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
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tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003

tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.4105	34.5665	28.7496	0.0641	18.2675	1.4258	19.5347	9.9840	1.3118	11.1499	0.0000	6,214.4678	6,214.4678	1.9492	0.0000	6,263.1986
2024	130.5751	75.5410	107.9667	0.4231	26.9031	1.3367	28.2265	7.2303	1.2367	8.4670	0.0000	42,972.0462	42,972.0462	2.7143	0.0000	43,039.9042
Maximum	**130.5751**	**75.5410**	**107.9667**	**0.4231**	**26.9031**	**1.4258**	**28.2265**	**9.9840**	**1.3118**	**11.1499**	**0.0000**	**42,972.0462**	**42,972.0462**	**2.7143**	**0.0000**	**43,039.9042**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.4105	34.5665	28.7496	0.0641	7.2313	1.4258	8.4985	3.9225	1.3118	5.0883	0.0000	6,214.4678	6,214.4678	1.9492	0.0000	6,263.1986
2024	130.5751	75.5410	107.9667	0.4231	24.8575	1.3367	26.1809	6.7282	1.2367	7.9649	0.0000	42,972.0462	42,972.0462	2.7143	0.0000	43,039.9042
Maximum	**130.5751**	**75.5410**	**107.9667**	**0.4231**	**24.8575**	**1.4258**	**26.1809**	**6.7282**	**1.3118**	**7.9649**	**0.0000**	**42,972.0462**	**42,972.0462**	**2.7143**	**0.0000**	**43,039.9042**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**28.96**	**0.00**	**27.39**	**38.13**	**0.00**	**33.46**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984
Mobile	10.6303	186.5622	175.0962	1.3676	89.7465	1.5982	91.3448	24.4175	1.5202	25.9377		147,156.3018	147,156.3018	7.6013		147,346.3354
Offroad	10.8307	100.7482	121.8916	0.1980		5.4894	5.4894		5.0502	5.0502		19,168.5421	19,168.5421	6.1995		19,323.5294
Total	**69.7198**	**291.7845**	**301.1072**	**1.5924**	**89.7465**	**7.4287**	**97.1752**	**24.4175**	**6.9114**	**31.3290**		**171,690.5427**	**171,690.5427**	**13.9057**	**0.0984**	**172,067.4957**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
Mobile	10.6303	186.5622	175.0962	1.3676	89.7465	1.5982	91.3448	24.4175	1.5202	25.9377		147,156.3018	147,156.3018	7.6013		147,346.3354
Offroad	10.8307	100.7482	121.8916	0.1980		5.4894	5.4894		5.0502	5.0502		19,168.5421	19,168.5421	6.1995		19,323.5294
Total	**69.6714**	**291.3442**	**300.7374**	**1.5897**	**89.7465**	**7.3952**	**97.1417**	**24.4175**	**6.8780**	**31.2955**		**171,162.2440**	**171,162.2440**	**13.8956**	**0.0887**	**171,536.0576**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.07**	**0.15**	**0.12**	**0.17**	**0.00**	**0.45**	**0.03**	**0.00**	**0.48**	**0.11**	**0.00**	**0.31**	**0.31**	**0.07**	**9.85**	**0.31**

3.0 Construction Detail

Construction Phase

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 30.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**18.0663**	**1.2660**	**19.3323**	**9.9307**	**1.1647**	**11.0954**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0458	0.6286	1.8300e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		182.6910	182.6910	4.5000e-003		182.8036
Total	**0.0799**	**0.0458**	**0.6286**	**1.8300e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**182.6910**	**182.6910**	**4.5000e-003**		**182.8036**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**7.0458**	**1.2660**	**8.3119**	**3.8730**	**1.1647**	**5.0377**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0458	0.6286	1.8300e-003	0.1855	1.2200e-003	0.1867	0.0495	1.1200e-003	0.0506		182.6910	182.6910	4.5000e-003		182.8036
Total	**0.0799**	**0.0458**	**0.6286**	**1.8300e-003**	**0.1855**	**1.2200e-003**	**0.1867**	**0.0495**	**1.1200e-003**	**0.0506**		**182.6910**	**182.6910**	**4.5000e-003**		**182.8036**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.9900	202.9900	5.0000e-003		203.1151
Total	**0.0888**	**0.0509**	**0.6984**	**2.0400e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**202.9900**	**202.9900**	**5.0000e-003**		**203.1151**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		202.9900	202.9900	5.0000e-003		203.1151
Total	**0.0888**	**0.0509**	**0.6984**	**2.0400e-003**	**0.2061**	**1.3500e-003**	**0.2074**	**0.0550**	**1.2400e-003**	**0.0562**		**202.9900**	**202.9900**	**5.0000e-003**		**203.1151**

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**8.6733**	**1.3354**	**10.0087**	**3.5965**	**1.2286**	**4.8251**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0835	0.0461	0.6513	1.9700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		196.4072	196.4072	4.5600e-003		196.5213
Total	**0.0835**	**0.0461**	**0.6513**	**1.9700e-003**	**0.2236**	**1.3400e-003**	**0.2249**	**0.0593**	**1.2300e-003**	**0.0605**		**196.4072**	**196.4072**	**4.5600e-003**		**196.5213**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**3.3826**	**1.3354**	**4.7180**	**1.4026**	**1.2286**	**2.6312**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0835	0.0461	0.6513	1.9700e-003	0.2061	1.3400e-003	0.2074	0.0550	1.2300e-003	0.0562		196.4072	196.4072	4.5600e-003		196.5213
Total	**0.0835**	**0.0461**	**0.6513**	**1.9700e-003**	**0.2061**	**1.3400e-003**	**0.2074**	**0.0550**	**1.2300e-003**	**0.0562**		**196.4072**	**196.4072**	**4.5600e-003**		**196.5213**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1774	46.6738	9.2250	0.1703	4.2013	0.0447	4.2460	1.2097	0.0427	1.2524		17,982.2047	17,982.2047	0.9166		18,005.1194
Worker	7.0167	3.8713	54.7088	0.1656	18.7784	0.1124	18.8908	4.9801	0.1035	5.0836		16,498.2017	16,498.2017	0.3835		16,507.7880
Total	**8.1941**	**50.5450**	**63.9337**	**0.3358**	**22.9798**	**0.1571**	**23.1369**	**6.1898**	**0.1462**	**6.3360**		**34,480.4063**	**34,480.4063**	**1.3001**		**34,512.9074**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1774	46.6738	9.2250	0.1703	3.9320	0.0447	3.9767	1.1436	0.0427	1.1863		17,982.2047	17,982.2047	0.9166		18,005.1194
Worker	7.0167	3.8713	54.7088	0.1656	17.3092	0.1124	17.4216	4.6195	0.1035	4.7229		16,498.2017	16,498.2017	0.3835		16,507.7880
Total	**8.1941**	**50.5450**	**63.9337**	**0.3358**	**21.2412**	**0.1571**	**21.3983**	**5.7631**	**0.1462**	**5.9093**		**34,480.4063**	**34,480.4063**	**1.3001**		**34,512.9074**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8711**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0346	0.4885	1.4800e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		147.3054	147.3054	3.4200e-003		147.3910
Total	**0.0627**	**0.0346**	**0.4885**	**1.4800e-003**	**0.1677**	**1.0000e-003**	**0.1687**	**0.0445**	**9.2000e-004**	**0.0454**		**147.3054**	**147.3054**	**3.4200e-003**		**147.3910**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8711**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0346	0.4885	1.4800e-003	0.1546	1.0000e-003	0.1556	0.0413	9.2000e-004	0.0422		147.3054	147.3054	3.4200e-003		147.3910
Total	**0.0627**	**0.0346**	**0.4885**	**1.4800e-003**	**0.1546**	**1.0000e-003**	**0.1556**	**0.0413**	**9.2000e-004**	**0.0422**		**147.3054**	**147.3054**	**3.4200e-003**		**147.3910**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	117.3916					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**117.5723**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4034	0.7743	10.9418	0.0331	3.7557	0.0225	3.7782	0.9960	0.0207	1.0167		3,299.6403	3,299.6403	0.0767		3,301.5576
Total	**1.4034**	**0.7743**	**10.9418**	**0.0331**	**3.7557**	**0.0225**	**3.7782**	**0.9960**	**0.0207**	**1.0167**		**3,299.6403**	**3,299.6403**	**0.0767**		**3,301.5576**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	117.3916					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**117.5723**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4034	0.7743	10.9418	0.0331	3.4618	0.0225	3.4843	0.9239	0.0207	0.9446		3,299.6403	3,299.6403	0.0767		3,301.5576
Total	**1.4034**	**0.7743**	**10.9418**	**0.0331**	**3.4618**	**0.0225**	**3.4843**	**0.9239**	**0.0207**	**0.9446**		**3,299.6403**	**3,299.6403**	**0.0767**		**3,301.5576**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.6303	186.5622	175.0962	1.3676	89.7465	1.5982	91.3448	24.4175	1.5202	25.9377		147,156.3018	147,156.3018	7.6013		147,346.3354
Unmitigated	10.6303	186.5622	175.0962	1.3676	89.7465	1.5982	91.3448	24.4175	1.5202	25.9377		147,156.3018	147,156.3018	7.6013		147,346.3354

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	25,245,307	25,245,307
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	15,084,131	15,084,131
Total	5,214.02	5,214.02	5,214.02	40,329,437	40,329,437

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
NaturalGas Unmitigated	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4507.26	0.0486	0.4419	0.3712	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2663	530.2663	0.0102	9.7200e-003	533.4174
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	32550.9	0.3510	3.1913	2.6807	0.0192		0.2425	0.2425		0.2425	0.2425		3,829.5226	3,829.5226	0.0734	0.0702	3,852.2796
Unrefrigerated Warehouse-No Rail	8543.59	0.0921	0.8376	0.7036	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,005.1284	1,005.1284	0.0193	0.0184	1,011.1014
Total		**0.4918**	**4.4708**	**3.7555**	**0.0268**		**0.3398**	**0.3398**		**0.3398**	**0.3398**		**5,364.9174**	**5,364.9174**	**0.1028**	**0.0984**	**5,396.7984**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	3.15508	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.1864	371.1864	7.1100e-003	6.8100e-003	373.3922
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	31.9378	0.3444	3.1312	2.6302	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.3861	3,757.3861	0.0720	0.0689	3,779.7144
Unrefrigerated Warehouse-No Rail	6.01839	0.0649	0.5900	0.4956	3.5400e-003		0.0448	0.0448		0.0448	0.0448		708.0461	708.0461	0.0136	0.0130	712.2537
Total		**0.4434**	**4.0305**	**3.3856**	**0.0242**		**0.3063**	**0.3063**		**0.3063**	**0.3063**		**4,836.6187**	**4,836.6187**	**0.0927**	**0.0887**	**4,865.3603**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Unmitigated	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Total	**47.7671**	**3.3100e-003**	**0.3640**	**3.0000e-005**		**1.3000e-003**	**1.3000e-003**		**1.3000e-003**	**1.3000e-003**		**0.7815**	**0.7815**	**2.0400e-003**		**0.8326**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Total	**47.7671**	**3.3100e-003**	**0.3640**	**3.0000e-005**		**1.3000e-003**	**1.3000e-003**		**1.3000e-003**	**1.3000e-003**		**0.7815**	**0.7815**	**2.0400e-003**		**0.8326**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	8.00	260	200	0.37	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	9.0881	85.2423	109.9200	0.1475		4.9227	4.9227		4.5289	4.5289		14,282.0145	14,282.0145	4.6191		14,397.4919
Tractors/Loaders/Backhoes	1.7426	15.5059	11.9716	0.0505		0.5666	0.5666		0.5213	0.5213		4,886.5275	4,886.5275	1.5804		4,926.0376
Total	**10.8307**	**100.7482**	**121.8916**	**0.1980**		**5.4894**	**5.4894**		**5.0502**	**5.0502**		**19,168.5421**	**19,168.5421**	**6.1995**		**19,323.5294**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 2 - No Mitigation

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - Rule 1113

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use 4178/474.107 ksf= 8.81235670428827247857551143518 24 , truck trip rate shown under unrefrigerated w/h 1036/1536.163 ksf = 0.67440759867279709249604371411107

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - Rule 1113

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 forklifts, same as Phase 1. Assume 8 yard trucks, same as phase 1, 200 hp

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	50.00
tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.7940e-003	0.00
tblFleetMix	LHD2	4.7940e-003	0.12
tblFleetMix	LHD2	4.7940e-003	0.22
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00

tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.37

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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.92	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.21	6.39
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.68	3.3280e-003
tblVehicleEF	HHD	6,548.54	1,061.49
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	18.65	5.46
tblVehicleEF	HHD	1.28	2.58
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	5.3430e-003	2.7890e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	5.1120e-003	2.6680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004

tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.7450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.1000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.67	0.50
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.87	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.61	6.30
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.58	3.1420e-003
tblVehicleEF	HHD	6,937.59	1,049.59
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	19.25	5.22
tblVehicleEF	HHD	1.20	2.44
tblVehicleEF	HHD	20.20	2.40

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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	4.3100e-003	2.3300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.55	0.45
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
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tblVehicleEF	HHD	0.07	9.6320e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.9000e-005	0.00
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
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tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006

tblVehicleEF	HHD	0.99	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	3.05	6.52
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.66	3.3020e-003
tblVehicleEF	HHD	6,011.27	1,077.93
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	17.82	5.79
tblVehicleEF	HHD	1.26	2.55
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	6.5010e-003	3.2780e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	6.2190e-003	3.1360e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.63	0.39
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03

tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.9020e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.0000e-005	0.00
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.73	0.46
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
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tblVehicleEF	HHD	0.05	1.0000e-006
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tblVehicleEF	LDA	0.99	1.98
tblVehicleEF	LDA	232.23	249.04
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tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
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tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.7420e-003	7.3480e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.3250e-003	2.4640e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.9680e-003	2.2760e-003
tblVehicleEF	LDA	3.5930e-003	0.04
tblVehicleEF	LDA	0.62	0.72
tblVehicleEF	LDA	0.82	1.67
tblVehicleEF	LDA	254.04	269.63
tblVehicleEF	LDA	52.85	49.93
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.15
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	9.9310e-003	8.2200e-003

tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.16
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
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tblVehicleEF	LDA	0.48	0.57
tblVehicleEF	LDA	0.97	1.98
tblVehicleEF	LDA	227.08	245.20
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.5140e-003	7.1980e-003
tblVehicleEF	LDA	0.04	0.22

tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	0.01	5.7610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.27	1.22
tblVehicleEF	LDT1	2.92	2.21
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tblVehicleEF	LDT1	66.91	61.40
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
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tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34

tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003

tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09

tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14

tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003

tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003

tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18

tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003

tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003

tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03

tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003

tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004

tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82

tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003

tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004

tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11

tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17

tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MH	0.03	9.0580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
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tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06

tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74

tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
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tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004

tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
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tblVehicleEF	MHD	0.64	1.08
tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	9.9000e-005	2.7300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01

tblVehicleEF	MHD	5.6000e-004	2.0700e-004
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tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
tblVehicleEF	MHD	1.4970e-003	6.0600e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	0.01	2.2870e-003
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tblVehicleEF	MHD	0.04	5.6790e-003
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tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.06	0.62
tblVehicleEF	MHD	165.10	63.62
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.90
tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004

tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	8.4000e-005	2.3300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
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tblVehicleEF	MHD	2.0770e-003	6.8400e-004
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tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
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tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
tblVehicleEF	MHD	1.5840e-003	6.0300e-004
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tblVehicleEF	MHD	2.0770e-003	6.8400e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	0.02	2.5560e-003
tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
tblVehicleEF	MHD	0.41	0.36
tblVehicleEF	MHD	0.23	0.14

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tblVehicleEF	MHD	1.2600e-004	3.4300e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	1.2100e-004	3.2800e-004
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tblVehicleEF	MHD	1.1160e-003	3.8000e-004
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tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
tblVehicleEF	MHD	1.3770e-003	6.0900e-004
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tblVehicleEF	MHD	5.7900e-004	5.9000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004

tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
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tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
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tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
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tblVehicleEF	OBUS	0.05	0.29

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tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
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tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
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tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
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tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.49	0.59
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tblVehicleEF	OBUS	0.41	0.93
tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005

tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
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tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
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tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.48	0.58
tblVehicleEF	OBUS	5.55	2.33
tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42

tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.44	0.98
tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12

tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003
tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04

tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003

tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21

tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94
tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004

tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004

tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02

tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003
tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003

tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.4112	34.5690	28.6222	0.0639	18.2675	1.4258	19.5347	9.9840	1.3118	11.1499	0.0000	6,193.6044	6,193.6044	1.9486	0.0000	6,242.3201
2024	130.7356	75.1649	97.1800	0.3960	26.9031	1.3367	28.2279	7.2303	1.2381	8.4684	0.0000	40,236.5497	40,236.5497	2.7548	0.0000	40,305.4181
Maximum	**130.7356**	**75.1649**	**97.1800**	**0.3960**	**26.9031**	**1.4258**	**28.2279**	**9.9840**	**1.3118**	**11.1499**	**0.0000**	**40,236.5497**	**40,236.5497**	**2.7548**	**0.0000**	**40,305.4181**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.4112	34.5690	28.6222	0.0639	7.2313	1.4258	8.4985	3.9225	1.3118	5.0883	0.0000	6,193.6044	6,193.6044	1.9486	0.0000	6,242.3201
2024	130.7356	75.1649	97.1800	0.3960	24.8575	1.3367	26.1824	6.7282	1.2381	7.9663	0.0000	40,236.5497	40,236.5497	2.7548	0.0000	40,305.4181
Maximum	**130.7356**	**75.1649**	**97.1800**	**0.3960**	**24.8575**	**1.4258**	**26.1824**	**6.7282**	**1.3118**	**7.9663**	**0.0000**	**40,236.5497**	**40,236.5497**	**2.7548**	**0.0000**	**40,305.4181**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**28.96**	**0.00**	**27.39**	**38.13**	**0.00**	**33.46**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984
Mobile	10.0983	195.1810	155.9056	1.3311	89.7465	1.5994	91.3460	24.4175	1.5213	25.9388		143,464.8512	143,464.8512	7.6047		143,654.9693
Offroad	10.8307	100.7482	121.8916	0.1980		5.4894	5.4894		5.0502	5.0502		19,168.5421	19,168.5421	6.1995		19,323.5294
Total	**69.1879**	**300.4033**	**281.9166**	**1.5559**	**89.7465**	**7.4299**	**97.1764**	**24.4175**	**6.9126**	**31.3301**		**167,999.0921**	**167,999.0921**	**13.9091**	**0.0984**	**168,376.1296**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
Mobile	10.0983	195.1810	155.9056	1.3311	89.7465	1.5994	91.3460	24.4175	1.5213	25.9388		143,464.8512	143,464.8512	7.6047		143,654.9693
Offroad	10.8307	100.7482	121.8916	0.1980		5.4894	5.4894		5.0502	5.0502		19,168.5421	19,168.5421	6.1995		19,323.5294
Total	**69.1395**	**299.9630**	**281.5468**	**1.5533**	**89.7465**	**7.3964**	**97.1429**	**24.4175**	**6.8791**	**31.2966**		**167,470.7934**	**167,470.7934**	**13.8990**	**0.0887**	**167,844.6915**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.07**	**0.15**	**0.13**	**0.17**	**0.00**	**0.45**	**0.03**	**0.00**	**0.48**	**0.11**	**0.00**	**0.31**	**0.31**	**0.07**	**9.85**	**0.32**

3.0 Construction Detail

Construction Phase

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 30.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)

OffRoad Equipment

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**18.0663**	**1.2660**	**19.3323**	**9.9307**	**1.1647**	**11.0954**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0481	0.5139	1.6400e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		163.9140	163.9140	3.9600e-003		164.0129
Total	**0.0805**	**0.0481**	**0.5139**	**1.6400e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**163.9140**	**163.9140**	**3.9600e-003**		**164.0129**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**7.0458**	**1.2660**	**8.3119**	**3.8730**	**1.1647**	**5.0377**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0481	0.5139	1.6400e-003	0.1855	1.2200e-003	0.1867	0.0495	1.1200e-003	0.0506		163.9140	163.9140	3.9600e-003		164.0129
Total	**0.0805**	**0.0481**	**0.5139**	**1.6400e-003**	**0.1855**	**1.2200e-003**	**0.1867**	**0.0495**	**1.1200e-003**	**0.0506**		**163.9140**	**163.9140**	**3.9600e-003**		**164.0129**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		182.1267	182.1267	4.4000e-003		182.2366
Total	**0.0895**	**0.0534**	**0.5710**	**1.8300e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**182.1267**	**182.1267**	**4.4000e-003**		**182.2366**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		182.1267	182.1267	4.4000e-003		182.2366
Total	**0.0895**	**0.0534**	**0.5710**	**1.8300e-003**	**0.2061**	**1.3500e-003**	**0.2074**	**0.0550**	**1.2400e-003**	**0.0562**		**182.1267**	**182.1267**	**4.4000e-003**		**182.2366**

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**8.6733**	**1.3354**	**10.0087**	**3.5965**	**1.2286**	**4.8251**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0484	0.5315	1.7700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		176.2225	176.2225	4.0100e-003		176.3229
Total	**0.0844**	**0.0484**	**0.5315**	**1.7700e-003**	**0.2236**	**1.3400e-003**	**0.2249**	**0.0593**	**1.2300e-003**	**0.0605**		**176.2225**	**176.2225**	**4.0100e-003**		**176.3229**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**3.3826**	**1.3354**	**4.7180**	**1.4026**	**1.2286**	**2.6312**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0484	0.5315	1.7700e-003	0.2061	1.3400e-003	0.2074	0.0550	1.2300e-003	0.0562		176.2225	176.2225	4.0100e-003		176.3229
Total	**0.0844**	**0.0484**	**0.5315**	**1.7700e-003**	**0.2061**	**1.3400e-003**	**0.2074**	**0.0550**	**1.2300e-003**	**0.0562**		**176.2225**	**176.2225**	**4.0100e-003**		**176.3229**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2482	46.0634	10.5994	0.1638	4.2013	0.0462	4.2475	1.2097	0.0441	1.2538		17,296.4610	17,296.4610	1.0129		17,321.7838
Worker	7.0909	4.0651	44.6494	0.1485	18.7784	0.1124	18.8908	4.9801	0.1035	5.0836		14,802.6897	14,802.6897	0.3372		14,811.1199
Total	**8.3391**	**50.1284**	**55.2488**	**0.3123**	**22.9798**	**0.1586**	**23.1383**	**6.1898**	**0.1476**	**6.3374**		**32,099.1507**	**32,099.1507**	**1.3501**		**32,132.9037**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2482	46.0634	10.5994	0.1638	3.9320	0.0462	3.9782	1.1436	0.0441	1.1877		17,296.4610	17,296.4610	1.0129		17,321.7838
Worker	7.0909	4.0651	44.6494	0.1485	17.3092	0.1124	17.4216	4.6195	0.1035	4.7229		14,802.6897	14,802.6897	0.3372		14,811.1199
Total	**8.3391**	**50.1284**	**55.2488**	**0.3123**	**21.2412**	**0.1586**	**21.3997**	**5.7631**	**0.1476**	**5.9107**		**32,099.1507**	**32,099.1507**	**1.3501**		**32,132.9037**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8711**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0363	0.3987	1.3300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		132.1669	132.1669	3.0100e-003		132.2421
Total	**0.0633**	**0.0363**	**0.3987**	**1.3300e-003**	**0.1677**	**1.0000e-003**	**0.1687**	**0.0445**	**9.2000e-004**	**0.0454**		**132.1669**	**132.1669**	**3.0100e-003**		**132.2421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8711**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0363	0.3987	1.3300e-003	0.1546	1.0000e-003	0.1556	0.0413	9.2000e-004	0.0422		132.1669	132.1669	3.0100e-003		132.2421
Total	**0.0633**	**0.0363**	**0.3987**	**1.3300e-003**	**0.1546**	**1.0000e-003**	**0.1556**	**0.0413**	**9.2000e-004**	**0.0422**		**132.1669**	**132.1669**	**3.0100e-003**		**132.2421**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	117.3916					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**117.5723**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4182	0.8130	8.9299	0.0297	3.7557	0.0225	3.7782	0.9960	0.0207	1.0167		2,960.5380	2,960.5380	0.0674		2,962.2240
Total	**1.4182**	**0.8130**	**8.9299**	**0.0297**	**3.7557**	**0.0225**	**3.7782**	**0.9960**	**0.0207**	**1.0167**		**2,960.5380**	**2,960.5380**	**0.0674**		**2,962.2240**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	117.3916					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**117.5723**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4182	0.8130	8.9299	0.0297	3.4618	0.0225	3.4843	0.9239	0.0207	0.9446		2,960.5380	2,960.5380	0.0674		2,962.2240
Total	**1.4182**	**0.8130**	**8.9299**	**0.0297**	**3.4618**	**0.0225**	**3.4843**	**0.9239**	**0.0207**	**0.9446**		**2,960.5380**	**2,960.5380**	**0.0674**		**2,962.2240**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.0983	195.1810	155.9056	1.3311	89.7465	1.5994	91.3460	24.4175	1.5213	25.9388		143,464.8512	143,464.8512	7.6047		143,654.9693
Unmitigated	10.0983	195.1810	155.9056	1.3311	89.7465	1.5994	91.3460	24.4175	1.5213	25.9388		143,464.8512	143,464.8512	7.6047		143,654.9693

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	25,245,307	25,245,307
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	15,084,131	15,084,131
Total	5,214.02	5,214.02	5,214.02	40,329,437	40,329,437

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
NaturalGas Unmitigated	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4507.26	0.0486	0.4419	0.3712	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2663	530.2663	0.0102	9.7200e-003	533.4174
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	32550.9	0.3510	3.1913	2.6807	0.0192		0.2425	0.2425		0.2425	0.2425		3,829.5226	3,829.5226	0.0734	0.0702	3,852.2796
Unrefrigerated Warehouse-No Rail	8543.59	0.0921	0.8376	0.7036	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,005.1284	1,005.1284	0.0193	0.0184	1,011.1014
Total		**0.4918**	**4.4708**	**3.7555**	**0.0268**		**0.3398**	**0.3398**		**0.3398**	**0.3398**		**5,364.9174**	**5,364.9174**	**0.1028**	**0.0984**	**5,396.7984**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	3.15508	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.1864	371.1864	7.1100e-003	6.8100e-003	373.3922
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	31.9378	0.3444	3.1312	2.6302	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.3861	3,757.3861	0.0720	0.0689	3,779.7144
Unrefrigerated Warehouse-No Rail	6.01839	0.0649	0.5900	0.4956	3.5400e-003		0.0448	0.0448		0.0448	0.0448		708.0461	708.0461	0.0136	0.0130	712.2537
Total		**0.4434**	**4.0305**	**3.3856**	**0.0242**		**0.3063**	**0.3063**		**0.3063**	**0.3063**		**4,836.6187**	**4,836.6187**	**0.0927**	**0.0887**	**4,865.3603**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Unmitigated	47.7671	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Total	**47.7671**	**3.3100e-003**	**0.3640**	**3.0000e-005**		**1.3000e-003**	**1.3000e-003**		**1.3000e-003**	**1.3000e-003**		**0.7815**	**0.7815**	**2.0400e-003**		**0.8326**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Total	**47.7671**	**3.3100e-003**	**0.3640**	**3.0000e-005**		**1.3000e-003**	**1.3000e-003**		**1.3000e-003**	**1.3000e-003**		**0.7815**	**0.7815**	**2.0400e-003**		**0.8326**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	8.00	260	200	0.37	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	9.0881	85.2423	109.9200	0.1475		4.9227	4.9227		4.5289	4.5289		14,282.0145	14,282.0145	4.6191		14,397.4919
Tractors/Loaders/Backhoes	1.7426	15.5059	11.9716	0.0505		0.5666	0.5666		0.5213	0.5213		4,886.5275	4,886.5275	1.5804		4,926.0376
Total	**10.8307**	**100.7482**	**121.8916**	**0.1980**		**5.4894**	**5.4894**		**5.0502**	**5.0502**		**19,168.5421**	**19,168.5421**	**6.1995**		**19,323.5294**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 2 - With Mitigation

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use 4178/474.107 ksf= 8.81235670428827247857551143518 24 , truck trip rate shown under unrefrigerated w/h 1036/1536.163 ksf = 0.67440759867279709249604371411107

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 electric forklifts, same as Phase 1

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Summer

tblAreaCoating	Area_EF_Parking	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	50.00
tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.7940e-003	0.00
tblFleetMix	LHD2	4.7940e-003	0.12

tblFleetMix	LHD2	4.7940e-003	0.22
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00

tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.92	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.21	6.39
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.68	3.3280e-003
tblVehicleEF	HHD	6,548.54	1,061.49
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	18.65	5.46
tblVehicleEF	HHD	1.28	2.58
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	5.3430e-003	2.7890e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	5.1120e-003	2.6680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.59	0.43
tblVehicleEF	HHD	4.5000e-005	2.0000e-006

tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	9.7450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.1000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.7400e-003	1.1200e-004
tblVehicleEF	HHD	0.67	0.50
tblVehicleEF	HHD	4.5000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7500e-004	5.5500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.87	0.03
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.61	6.30
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.58	3.1420e-003
tblVehicleEF	HHD	6,937.59	1,049.59
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	19.25	5.22
tblVehicleEF	HHD	1.20	2.44
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	4.5050e-003	2.4350e-003
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	4.3100e-003	2.3300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.55	0.45
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.07	9.6320e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.9000e-005	0.00
tblVehicleEF	HHD	1.4200e-004	7.0000e-006
tblVehicleEF	HHD	3.0590e-003	1.2700e-004
tblVehicleEF	HHD	0.64	0.52
tblVehicleEF	HHD	9.8000e-005	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.7700e-004	5.6900e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.99	0.03
tblVehicleEF	HHD	0.04	0.13

tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	3.05	6.52
tblVehicleEF	HHD	0.53	0.55
tblVehicleEF	HHD	1.66	3.3020e-003
tblVehicleEF	HHD	6,011.27	1,077.93
tblVehicleEF	HHD	1,428.49	1,386.62
tblVehicleEF	HHD	5.31	0.03
tblVehicleEF	HHD	17.82	5.79
tblVehicleEF	HHD	1.26	2.55
tblVehicleEF	HHD	20.21	2.40
tblVehicleEF	HHD	6.5010e-003	3.2780e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3010e-003	0.02
tblVehicleEF	HHD	4.7000e-005	1.0000e-006
tblVehicleEF	HHD	6.2190e-003	3.1360e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8790e-003	8.8290e-003
tblVehicleEF	HHD	5.0720e-003	0.02
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.63	0.39
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.04	1.0000e-006

tblVehicleEF	HHD	0.06	9.9020e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.0000e-005	0.00
tblVehicleEF	HHD	7.1000e-005	4.0000e-006
tblVehicleEF	HHD	2.9460e-003	1.3000e-004
tblVehicleEF	HHD	0.73	0.46
tblVehicleEF	HHD	4.4000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.8900e-004	5.8300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.4870e-003	2.0140e-003
tblVehicleEF	LDA	4.3060e-003	0.04
tblVehicleEF	LDA	0.51	0.59
tblVehicleEF	LDA	0.99	1.98
tblVehicleEF	LDA	232.23	249.04
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.7420e-003	7.3480e-003
tblVehicleEF	LDA	0.03	0.20

tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.3250e-003	2.4640e-003
tblVehicleEF	LDA	5.4500e-004	5.0000e-004
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tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.9680e-003	2.2760e-003
tblVehicleEF	LDA	3.5930e-003	0.04
tblVehicleEF	LDA	0.62	0.72
tblVehicleEF	LDA	0.82	1.67
tblVehicleEF	LDA	254.04	269.63
tblVehicleEF	LDA	52.85	49.93
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.15
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	9.9310e-003	8.2200e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.16

tblVehicleEF	LDA	2.5450e-003	2.6670e-003
tblVehicleEF	LDA	5.4200e-004	4.9400e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	3.3950e-003	1.9730e-003
tblVehicleEF	LDA	4.2830e-003	0.04
tblVehicleEF	LDA	0.48	0.57
tblVehicleEF	LDA	0.97	1.98
tblVehicleEF	LDA	227.08	245.20
tblVehicleEF	LDA	52.85	50.51
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6390e-003	1.4260e-003
tblVehicleEF	LDA	2.2390e-003	1.7110e-003
tblVehicleEF	LDA	1.5090e-003	1.3120e-003
tblVehicleEF	LDA	2.0590e-003	1.5730e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.5140e-003	7.1980e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003

tblVehicleEF	LDA	5.4500e-004	5.0000e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	0.01	5.7610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.27	1.22
tblVehicleEF	LDT1	2.92	2.21
tblVehicleEF	LDT1	294.54	296.17
tblVehicleEF	LDT1	66.91	61.40
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003
tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30

tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
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tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25

tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
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tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
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tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49

tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004

tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96

tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03
tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003
tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003

tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005

tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82
tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004

tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003
tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77

tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04

tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54

tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MH	0.03	9.0580e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08

tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73

tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07

tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MHD	0.02	2.3960e-003
tblVehicleEF	MHD	2.6000e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.9110e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.34	0.65
tblVehicleEF	MHD	155.87	63.89
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.97
tblVehicleEF	MHD	0.42	0.35
tblVehicleEF	MHD	0.64	1.08
tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005
tblVehicleEF	MHD	9.9000e-005	2.7300e-004
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tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
tblVehicleEF	MHD	1.4970e-003	6.0600e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	0.01	2.2870e-003
tblVehicleEF	MHD	2.6390e-003	9.7500e-004
tblVehicleEF	MHD	0.04	5.6790e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.06	0.62
tblVehicleEF	MHD	165.10	63.62
tblVehicleEF	MHD	1,101.40	932.72
tblVehicleEF	MHD	50.42	5.90
tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
tblVehicleEF	MHD	6.8900e-004	6.8000e-005

tblVehicleEF	MHD	8.4000e-005	2.3300e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
tblVehicleEF	MHD	1.5840e-003	6.0300e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7500e-004	5.8000e-005
tblVehicleEF	MHD	2.0770e-003	6.8400e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	0.02	2.5560e-003
tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
tblVehicleEF	MHD	0.41	0.36
tblVehicleEF	MHD	0.23	0.14
tblVehicleEF	MHD	4.27	0.65
tblVehicleEF	MHD	143.11	64.26

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tblVehicleEF	MHD	0.40	0.37
tblVehicleEF	MHD	0.63	1.06
tblVehicleEF	MHD	12.04	1.86
tblVehicleEF	MHD	1.2600e-004	3.4300e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
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tblVehicleEF	MHD	1.2100e-004	3.2800e-004
tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
tblVehicleEF	MHD	1.3770e-003	6.0900e-004
tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.7900e-004	5.9000e-005
tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08

tblVehicleEF	MHD	0.29	0.03
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tblVehicleEF	OBUS	7.2410e-003	4.7730e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
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tblVehicleEF	OBUS	65.08	74.10
tblVehicleEF	OBUS	1,122.26	1,367.42
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tblVehicleEF	OBUS	1.81	0.74
tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.3300e-004	7.0700e-004

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.7350e-003
tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
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tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.49	0.59
tblVehicleEF	OBUS	5.12	2.17
tblVehicleEF	OBUS	67.92	73.30
tblVehicleEF	OBUS	1,122.26	1,367.44
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tblVehicleEF	OBUS	0.13	0.26
tblVehicleEF	OBUS	0.41	0.93
tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004

tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
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tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42
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tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
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tblVehicleEF	OBUS	0.05	0.31
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
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tblVehicleEF	SBUS	0.06	6.3240e-003
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tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
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tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
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tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	7.3880e-003	2.8050e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03

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tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
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tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
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tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
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tblVehicleEF	SBUS	0.10	0.09
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tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
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tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
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tblVehicleEF	SBUS	0.01	0.06

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tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
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tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
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tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
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tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003

tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07

tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00

tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.4105	34.5665	28.7496	0.0641	18.2675	1.4258	19.5347	9.9840	1.3118	11.1499	0.0000	6,214.4678	6,214.4678	1.9492	0.0000	6,263.1986
2024	36.6619	75.5410	107.9667	0.4231	26.9031	1.3367	28.2265	7.2303	1.2367	8.4670	0.0000	42,972.0462	42,972.0462	2.7143	0.0000	43,039.9042
Maximum	**36.6619**	**75.5410**	**107.9667**	**0.4231**	**26.9031**	**1.4258**	**28.2265**	**9.9840**	**1.3118**	**11.1499**	**0.0000**	**42,972.0462**	**42,972.0462**	**2.7143**	**0.0000**	**43,039.9042**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.4105	34.5665	28.7496	0.0641	7.2313	1.4258	8.4985	3.9225	1.3118	5.0883	0.0000	6,214.4678	6,214.4678	1.9492	0.0000	6,263.1986
2024	36.6619	75.5410	107.9667	0.4231	24.8575	1.3367	26.1809	6.7282	1.2367	7.9649	0.0000	42,972.0462	42,972.0462	2.7143	0.0000	43,039.9042
Maximum	**36.6619**	**75.5410**	**107.9667**	**0.4231**	**24.8575**	**1.4258**	**26.1809**	**6.7282**	**1.3118**	**7.9649**	**0.0000**	**42,972.0462**	**42,972.0462**	**2.7143**	**0.0000**	**43,039.9042**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**28.96**	**0.00**	**27.39**	**38.13**	**0.00**	**33.46**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984
Mobile	9.7440	128.1884	165.9157	1.0608	79.3244	1.1385	80.4629	21.4384	1.0801	22.5185		113,108.0287	113,108.0287	5.2497		113,239.2710
Total	**55.6872**	**132.6625**	**170.0351**	**1.0876**	**79.3244**	**1.4796**	**80.8040**	**21.4384**	**1.4212**	**22.8596**		**118,473.7276**	**118,473.7276**	**5.3546**	**0.0984**	**118,636.9020**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
Mobile	9.7228	127.5912	164.7069	1.0537	78.6862	1.1319	79.8181	21.2672	1.0739	22.3411		112,362.5368	112,362.5368	5.2238		112,493.1313
Total	**55.6175**	**131.6250**	**168.4566**	**1.0779**	**78.6862**	**1.4396**	**80.1257**	**21.2672**	**1.3815**	**22.6487**		**117,199.9370**	**117,199.9370**	**5.3185**	**0.0887**	**117,359.3241**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.13**	**0.78**	**0.93**	**0.89**	**0.80**	**2.71**	**0.84**	**0.80**	**2.79**	**0.92**	**0.00**	**1.08**	**1.08**	**0.67**	**9.85**	**1.08**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 30.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**18.0663**	**1.2660**	**19.3323**	**9.9307**	**1.1647**	**11.0954**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0458	0.6286	1.8300e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		182.6910	182.6910	4.5000e-003		182.8036
Total	**0.0799**	**0.0458**	**0.6286**	**1.8300e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**182.6910**	**182.6910**	**4.5000e-003**		**182.8036**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**7.0458**	**1.2660**	**8.3119**	**3.8730**	**1.1647**	**5.0377**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0458	0.6286	1.8300e-003	0.1855	1.2200e-003	0.1867	0.0495	1.1200e-003	0.0506		182.6910	182.6910	4.5000e-003		182.8036
Total	**0.0799**	**0.0458**	**0.6286**	**1.8300e-003**	**0.1855**	**1.2200e-003**	**0.1867**	**0.0495**	**1.1200e-003**	**0.0506**		**182.6910**	**182.6910**	**4.5000e-003**		**182.8036**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.9900	202.9900	5.0000e-003		203.1151
Total	**0.0888**	**0.0509**	**0.6984**	**2.0400e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**202.9900**	**202.9900**	**5.0000e-003**		**203.1151**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0509	0.6984	2.0400e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		202.9900	202.9900	5.0000e-003		203.1151
Total	**0.0888**	**0.0509**	**0.6984**	**2.0400e-003**	**0.2061**	**1.3500e-003**	**0.2074**	**0.0550**	**1.2400e-003**	**0.0562**		**202.9900**	**202.9900**	**5.0000e-003**		**203.1151**

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**8.6733**	**1.3354**	**10.0087**	**3.5965**	**1.2286**	**4.8251**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0835	0.0461	0.6513	1.9700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		196.4072	196.4072	4.5600e-003		196.5213
Total	**0.0835**	**0.0461**	**0.6513**	**1.9700e-003**	**0.2236**	**1.3400e-003**	**0.2249**	**0.0593**	**1.2300e-003**	**0.0605**		**196.4072**	**196.4072**	**4.5600e-003**		**196.5213**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**3.3826**	**1.3354**	**4.7180**	**1.4026**	**1.2286**	**2.6312**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0835	0.0461	0.6513	1.9700e-003	0.2061	1.3400e-003	0.2074	0.0550	1.2300e-003	0.0562		196.4072	196.4072	4.5600e-003		196.5213
Total	**0.0835**	**0.0461**	**0.6513**	**1.9700e-003**	**0.2061**	**1.3400e-003**	**0.2074**	**0.0550**	**1.2300e-003**	**0.0562**		**196.4072**	**196.4072**	**4.5600e-003**		**196.5213**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1774	46.6738	9.2250	0.1703	4.2013	0.0447	4.2460	1.2097	0.0427	1.2524		17,982.2047	17,982.2047	0.9166		18,005.1194
Worker	7.0167	3.8713	54.7088	0.1656	18.7784	0.1124	18.8908	4.9801	0.1035	5.0836		16,498.2017	16,498.2017	0.3835		16,507.7880
Total	**8.1941**	**50.5450**	**63.9337**	**0.3358**	**22.9798**	**0.1571**	**23.1369**	**6.1898**	**0.1462**	**6.3360**		**34,480.4063**	**34,480.4063**	**1.3001**		**34,512.9074**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1774	46.6738	9.2250	0.1703	3.9320	0.0447	3.9767	1.1436	0.0427	1.1863		17,982.2047	17,982.2047	0.9166		18,005.1194
Worker	7.0167	3.8713	54.7088	0.1656	17.3092	0.1124	17.4216	4.6195	0.1035	4.7229		16,498.2017	16,498.2017	0.3835		16,507.7880
Total	**8.1941**	**50.5450**	**63.9337**	**0.3358**	**21.2412**	**0.1571**	**21.3983**	**5.7631**	**0.1462**	**5.9093**		**34,480.4063**	**34,480.4063**	**1.3001**		**34,512.9074**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8711**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0346	0.4885	1.4800e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		147.3054	147.3054	3.4200e-003		147.3910
Total	**0.0627**	**0.0346**	**0.4885**	**1.4800e-003**	**0.1677**	**1.0000e-003**	**0.1687**	**0.0445**	**9.2000e-004**	**0.0454**		**147.3054**	**147.3054**	**3.4200e-003**		**147.3910**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8711**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0346	0.4885	1.4800e-003	0.1546	1.0000e-003	0.1556	0.0413	9.2000e-004	0.0422		147.3054	147.3054	3.4200e-003		147.3910
Total	**0.0627**	**0.0346**	**0.4885**	**1.4800e-003**	**0.1546**	**1.0000e-003**	**0.1556**	**0.0413**	**9.2000e-004**	**0.0422**		**147.3054**	**147.3054**	**3.4200e-003**		**147.3910**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4783					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**23.6591**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4034	0.7743	10.9418	0.0331	3.7557	0.0225	3.7782	0.9960	0.0207	1.0167		3,299.6403	3,299.6403	0.0767		3,301.5576
Total	**1.4034**	**0.7743**	**10.9418**	**0.0331**	**3.7557**	**0.0225**	**3.7782**	**0.9960**	**0.0207**	**1.0167**		**3,299.6403**	**3,299.6403**	**0.0767**		**3,301.5576**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4783					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**23.6591**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4034	0.7743	10.9418	0.0331	3.4618	0.0225	3.4843	0.9239	0.0207	0.9446		3,299.6403	3,299.6403	0.0767		3,301.5576
Total	**1.4034**	**0.7743**	**10.9418**	**0.0331**	**3.4618**	**0.0225**	**3.4843**	**0.9239**	**0.0207**	**0.9446**		**3,299.6403**	**3,299.6403**	**0.0767**		**3,301.5576**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.7228	127.5912	164.7069	1.0537	78.6862	1.1319	79.8181	21.2672	1.0739	22.3411		112,362.5368	112,362.5368	5.2238		112,493.1313
Unmitigated	9.7440	128.1884	165.9157	1.0608	79.3244	1.1385	80.4629	21.4384	1.0801	22.5185		113,108.0287	113,108.0287	5.2497		113,239.2710

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	26,379,825	26,132,305
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	9,877,843	9,828,352
Total	5,214.02	5,214.02	5,214.02	36,257,668	35,960,657

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	59.00	28.00	13.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
NaturalGas Unmitigated	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4507.26	0.0486	0.4419	0.3712	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2663	530.2663	0.0102	9.7200e-003	533.4174
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	32550.9	0.3510	3.1913	2.6807	0.0192		0.2425	0.2425		0.2425	0.2425		3,829.5226	3,829.5226	0.0734	0.0702	3,852.2796
Unrefrigerated Warehouse-No Rail	8543.59	0.0921	0.8376	0.7036	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,005.1284	1,005.1284	0.0193	0.0184	1,011.1014
Total		**0.4918**	**4.4708**	**3.7555**	**0.0268**		**0.3398**	**0.3398**		**0.3398**	**0.3398**		**5,364.9174**	**5,364.9174**	**0.1028**	**0.0984**	**5,396.7984**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	3.15508	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.1864	371.1864	7.1100e-003	6.8100e-003	373.3922
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	31.9378	0.3444	3.1312	2.6302	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.3861	3,757.3861	0.0720	0.0689	3,779.7144
Unrefrigerated Warehouse-No Rail	6.01839	0.0649	0.5900	0.4956	3.5400e-003		0.0448	0.0448		0.0448	0.0448		708.0461	708.0461	0.0136	0.0130	712.2537
Total		**0.4434**	**4.0305**	**3.3856**	**0.0242**		**0.3063**	**0.3063**		**0.3063**	**0.3063**		**4,836.6187**	**4,836.6187**	**0.0927**	**0.0887**	**4,865.3603**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Unmitigated	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Total	**45.4514**	**3.3100e-003**	**0.3640**	**3.0000e-005**		**1.3000e-003**	**1.3000e-003**		**1.3000e-003**	**1.3000e-003**		**0.7815**	**0.7815**	**2.0400e-003**		**0.8326**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Total	**45.4514**	**3.3100e-003**	**0.3640**	**3.0000e-005**		**1.3000e-003**	**1.3000e-003**		**1.3000e-003**	**1.3000e-003**		**0.7815**	**0.7815**	**2.0400e-003**		**0.8326**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 2 - With Mitigation

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use 4178/474.107 ksf= 8.81235670428827247857551143518 24 , truck trip rate shown under unrefrigerated w/h 1036/1536.163 ksf = 0.67440759867279709249604371411107

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 electric forklifts, same as Phase 1

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblAreaCoating	Area_EF_Parking	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	60.00	50.00
tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.7940e-003	0.00
tblFleetMix	LHD2	4.7940e-003	0.12

tblFleetMix	LHD2	4.7940e-003	0.22
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MCY	5.7250e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MH	8.3000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	SBUS	7.9900e-004	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
tblLandUse	LandUseSquareFeet	474,110.00	474,107.00
tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
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tblVehicleEF	HHD	0.04	0.13
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tblVehicleEF	HHD	8.8790e-003	8.8290e-003
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tblVehicleEF	HHD	8.8790e-003	8.8290e-003
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tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	2.2730e-003	2.4260e-003

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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
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tblVehicleEF	LDT1	2.92	2.21
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tblVehicleEF	LDT1	0.17	0.25
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tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003
tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30

tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25

tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49

tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004

tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96

tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03
tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003
tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003

tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005

tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82
tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004

tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003
tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77

tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04

tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54

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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
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tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08

tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73

tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07

tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
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tblVehicleEF	MHD	1.0400e-004	2.8500e-004
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tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
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tblVehicleEF	MHD	1.0590e-003	3.7600e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
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tblVehicleEF	MHD	0.01	0.07
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tblVehicleEF	MHD	6.3400e-004	6.3000e-005
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tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.25	0.03
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tblVehicleEF	MHD	0.03	0.02
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tblVehicleEF	MHD	0.02	2.5560e-003
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tblVehicleEF	MHD	0.02	0.01
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tblVehicleEF	MHD	0.02	0.08
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tblVehicleEF	MHD	1.1160e-003	3.8000e-004
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tblVehicleEF	MHD	0.02	0.08

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tblVehicleEF	OBUS	0.47	0.58
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tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
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tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
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tblVehicleEF	OBUS	0.03	0.05
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tblVehicleEF	OBUS	6.3300e-004	7.0700e-004

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tblVehicleEF	OBUS	0.04	0.06
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tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
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tblVehicleEF	OBUS	1.76	0.73
tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
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tblVehicleEF	OBUS	0.32	0.11
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tblVehicleEF	OBUS	0.44	0.98
tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003

tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94

tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06

tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003

tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003

tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07

tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00

tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.4112	34.5690	28.6222	0.0639	18.2675	1.4258	19.5347	9.9840	1.3118	11.1499	0.0000	6,193.6044	6,193.6044	1.9486	0.0000	6,242.3201
2024	36.8224	75.1649	97.1800	0.3960	26.9031	1.3367	28.2279	7.2303	1.2381	8.4684	0.0000	40,236.5497	40,236.5497	2.7548	0.0000	40,305.4181
Maximum	**36.8224**	**75.1649**	**97.1800**	**0.3960**	**26.9031**	**1.4258**	**28.2279**	**9.9840**	**1.3118**	**11.1499**	**0.0000**	**40,236.5497**	**40,236.5497**	**2.7548**	**0.0000**	**40,305.4181**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.4112	34.5690	28.6222	0.0639	7.2313	1.4258	8.4985	3.9225	1.3118	5.0883	0.0000	6,193.6044	6,193.6044	1.9486	0.0000	6,242.3201
2024	36.8224	75.1649	97.1800	0.3960	24.8575	1.3367	26.1824	6.7282	1.2381	7.9663	0.0000	40,236.5497	40,236.5497	2.7548	0.0000	40,305.4181
Maximum	**36.8224**	**75.1649**	**97.1800**	**0.3960**	**24.8575**	**1.4258**	**26.1824**	**6.7282**	**1.3118**	**7.9663**	**0.0000**	**40,236.5497**	**40,236.5497**	**2.7548**	**0.0000**	**40,305.4181**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**28.96**	**0.00**	**27.39**	**38.13**	**0.00**	**33.46**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984
Mobile	9.2065	134.2214	145.7571	1.0227	79.3244	1.1397	80.4641	21.4384	1.0812	22.5196		109,248.7861	109,248.7861	5.2513		109,380.0689
Total	**55.1497**	**138.6954**	**149.8766**	**1.0496**	**79.3244**	**1.4808**	**80.8052**	**21.4384**	**1.4223**	**22.8607**		**114,614.4850**	**114,614.4850**	**5.3562**	**0.0984**	**114,777.6999**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Energy	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
Mobile	9.1867	133.5972	144.7677	1.0160	78.6862	1.1331	79.8193	21.2672	1.0750	22.3422		108,539.9161	108,539.9161	5.2259		108,670.5625
Total	**55.0815**	**137.6311**	**148.5174**	**1.0402**	**78.6862**	**1.4407**	**80.1269**	**21.2672**	**1.3826**	**22.6498**		**113,377.3163**	**113,377.3163**	**5.3206**	**0.0887**	**113,536.7553**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.12**	**0.77**	**0.91**	**0.89**	**0.80**	**2.71**	**0.84**	**0.80**	**2.79**	**0.92**	**0.00**	**1.08**	**1.08**	**0.66**	**9.85**	**1.08**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 30.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)

OffRoad Equipment

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**18.0663**	**1.2660**	**19.3323**	**9.9307**	**1.1647**	**11.0954**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0481	0.5139	1.6400e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		163.9140	163.9140	3.9600e-003		164.0129
Total	**0.0805**	**0.0481**	**0.5139**	**1.6400e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**163.9140**	**163.9140**	**3.9600e-003**		**164.0129**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**7.0458**	**1.2660**	**8.3119**	**3.8730**	**1.1647**	**5.0377**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0481	0.5139	1.6400e-003	0.1855	1.2200e-003	0.1867	0.0495	1.1200e-003	0.0506		163.9140	163.9140	3.9600e-003		164.0129
Total	**0.0805**	**0.0481**	**0.5139**	**1.6400e-003**	**0.1855**	**1.2200e-003**	**0.1867**	**0.0495**	**1.1200e-003**	**0.0506**		**163.9140**	**163.9140**	**3.9600e-003**		**164.0129**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		182.1267	182.1267	4.4000e-003		182.2366
Total	**0.0895**	**0.0534**	**0.5710**	**1.8300e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**182.1267**	**182.1267**	**4.4000e-003**		**182.2366**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0895	0.0534	0.5710	1.8300e-003	0.2061	1.3500e-003	0.2074	0.0550	1.2400e-003	0.0562		182.1267	182.1267	4.4000e-003		182.2366
Total	**0.0895**	**0.0534**	**0.5710**	**1.8300e-003**	**0.2061**	**1.3500e-003**	**0.2074**	**0.0550**	**1.2400e-003**	**0.0562**		**182.1267**	**182.1267**	**4.4000e-003**		**182.2366**

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**8.6733**	**1.3354**	**10.0087**	**3.5965**	**1.2286**	**4.8251**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0484	0.5315	1.7700e-003	0.2236	1.3400e-003	0.2249	0.0593	1.2300e-003	0.0605		176.2225	176.2225	4.0100e-003		176.3229
Total	**0.0844**	**0.0484**	**0.5315**	**1.7700e-003**	**0.2236**	**1.3400e-003**	**0.2249**	**0.0593**	**1.2300e-003**	**0.0605**		**176.2225**	**176.2225**	**4.0100e-003**		**176.3229**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**3.3826**	**1.3354**	**4.7180**	**1.4026**	**1.2286**	**2.6312**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0484	0.5315	1.7700e-003	0.2061	1.3400e-003	0.2074	0.0550	1.2300e-003	0.0562		176.2225	176.2225	4.0100e-003		176.3229
Total	**0.0844**	**0.0484**	**0.5315**	**1.7700e-003**	**0.2061**	**1.3400e-003**	**0.2074**	**0.0550**	**1.2300e-003**	**0.0562**		**176.2225**	**176.2225**	**4.0100e-003**		**176.3229**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2482	46.0634	10.5994	0.1638	4.2013	0.0462	4.2475	1.2097	0.0441	1.2538		17,296.4610	17,296.4610	1.0129		17,321.7838
Worker	7.0909	4.0651	44.6494	0.1485	18.7784	0.1124	18.8908	4.9801	0.1035	5.0836		14,802.6897	14,802.6897	0.3372		14,811.1199
Total	**8.3391**	**50.1284**	**55.2488**	**0.3123**	**22.9798**	**0.1586**	**23.1383**	**6.1898**	**0.1476**	**6.3374**		**32,099.1507**	**32,099.1507**	**1.3501**		**32,132.9037**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2482	46.0634	10.5994	0.1638	3.9320	0.0462	3.9782	1.1436	0.0441	1.1877		17,296.4610	17,296.4610	1.0129		17,321.7838
Worker	7.0909	4.0651	44.6494	0.1485	17.3092	0.1124	17.4216	4.6195	0.1035	4.7229		14,802.6897	14,802.6897	0.3372		14,811.1199
Total	**8.3391**	**50.1284**	**55.2488**	**0.3123**	**21.2412**	**0.1586**	**21.3997**	**5.7631**	**0.1476**	**5.9107**		**32,099.1507**	**32,099.1507**	**1.3501**		**32,132.9037**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8711**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0363	0.3987	1.3300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		132.1669	132.1669	3.0100e-003		132.2421
Total	**0.0633**	**0.0363**	**0.3987**	**1.3300e-003**	**0.1677**	**1.0000e-003**	**0.1687**	**0.0445**	**9.2000e-004**	**0.0454**		**132.1669**	**132.1669**	**3.0100e-003**		**132.2421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.8829					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8711**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0363	0.3987	1.3300e-003	0.1546	1.0000e-003	0.1556	0.0413	9.2000e-004	0.0422		132.1669	132.1669	3.0100e-003		132.2421
Total	**0.0633**	**0.0363**	**0.3987**	**1.3300e-003**	**0.1546**	**1.0000e-003**	**0.1556**	**0.0413**	**9.2000e-004**	**0.0422**		**132.1669**	**132.1669**	**3.0100e-003**		**132.2421**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4783					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**23.6591**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4182	0.8130	8.9299	0.0297	3.7557	0.0225	3.7782	0.9960	0.0207	1.0167		2,960.5380	2,960.5380	0.0674		2,962.2240
Total	**1.4182**	**0.8130**	**8.9299**	**0.0297**	**3.7557**	**0.0225**	**3.7782**	**0.9960**	**0.0207**	**1.0167**		**2,960.5380**	**2,960.5380**	**0.0674**		**2,962.2240**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4783					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**23.6591**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4182	0.8130	8.9299	0.0297	3.4618	0.0225	3.4843	0.9239	0.0207	0.9446		2,960.5380	2,960.5380	0.0674		2,962.2240
Total	**1.4182**	**0.8130**	**8.9299**	**0.0297**	**3.4618**	**0.0225**	**3.4843**	**0.9239**	**0.0207**	**0.9446**		**2,960.5380**	**2,960.5380**	**0.0674**		**2,962.2240**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.1867	133.5972	144.7677	1.0160	78.6862	1.1331	79.8193	21.2672	1.0750	22.3422		108,539.9161	108,539.9161	5.2259		108,670.5625
Unmitigated	9.2065	134.2214	145.7571	1.0227	79.3244	1.1397	80.4641	21.4384	1.0812	22.5196		109,248.7861	109,248.7861	5.2513		109,380.0689

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	26,379,825	26,132,305
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	9,877,843	9,828,352
Total	5,214.02	5,214.02	5,214.02	36,257,668	35,960,657

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	59.00	28.00	13.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4434	4.0305	3.3856	0.0242		0.3063	0.3063		0.3063	0.3063		4,836.6187	4,836.6187	0.0927	0.0887	4,865.3603
NaturalGas Unmitigated	0.4918	4.4708	3.7554	0.0268		0.3398	0.3398		0.3398	0.3398		5,364.9174	5,364.9174	0.1028	0.0984	5,396.7984

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	4507.26	0.0486	0.4419	0.3712	2.6500e-003		0.0336	0.0336		0.0336	0.0336		530.2663	530.2663	0.0102	9.7200e-003	533.4174
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	32550.9	0.3510	3.1913	2.6807	0.0192		0.2425	0.2425		0.2425	0.2425		3,829.5226	3,829.5226	0.0734	0.0702	3,852.2796
Unrefrigerated Warehouse-No Rail	8543.59	0.0921	0.8376	0.7036	5.0300e-003		0.0637	0.0637		0.0637	0.0637		1,005.1284	1,005.1284	0.0193	0.0184	1,011.1014
Total		**0.4918**	**4.4708**	**3.7555**	**0.0268**		**0.3398**	**0.3398**		**0.3398**	**0.3398**		**5,364.9174**	**5,364.9174**	**0.1028**	**0.0984**	**5,396.7984**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	3.15508	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.1864	371.1864	7.1100e-003	6.8100e-003	373.3922
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	31.9378	0.3444	3.1312	2.6302	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.3861	3,757.3861	0.0720	0.0689	3,779.7144
Unrefrigerated Warehouse-No Rail	6.01839	0.0649	0.5900	0.4956	3.5400e-003		0.0448	0.0448		0.0448	0.0448		708.0461	708.0461	0.0136	0.0130	712.2537
Total		**0.4434**	**4.0305**	**3.3856**	**0.0242**		**0.3063**	**0.3063**		**0.3063**	**0.3063**		**4,836.6187**	**4,836.6187**	**0.0927**	**0.0887**	**4,865.3603**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Unmitigated	45.4514	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Total	**45.4514**	**3.3100e-003**	**0.3640**	**3.0000e-005**		**1.3000e-003**	**1.3000e-003**		**1.3000e-003**	**1.3000e-003**		**0.7815**	**0.7815**	**2.0400e-003**		**0.8326**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	44.8389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0336	3.3100e-003	0.3640	3.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003		0.7815	0.7815	2.0400e-003		0.8326
Total	**45.4514**	**3.3100e-003**	**0.3640**	**3.0000e-005**		**1.3000e-003**	**1.3000e-003**		**1.3000e-003**	**1.3000e-003**		**0.7815**	**0.7815**	**2.0400e-003**		**0.8326**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

OFFROAD2017 (v1.0.1) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2023
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2017 Equipment Types
Units: Emissions: tons/day, Fuel Consumption: gallons/year, Activity: hours/year, HP-Hours: HP-hours/year

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2_5_tpd	PM_tpd	SOx_tpd	NH3_tpd	Fuel_gpy	Total_Activity	Total_Popu	Horsepower_Hours_hhpy
San Bernar	2023	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.001492	0.001805	0.002148	0.028103	0.02068	0.56666	9.35E-05	8.60E-05	9.35E-05	5.23E-06	4.66E-06	359.695	216690.9	277.5524	6825763
San Bernar	2023	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.02966	0.035889	0.042711	0.43592	0.274817	6.459808	0.003907	0.003594	0.003907	5.92E-05	5.31E-05	4100.452	1641821	1239.219	55821905
San Bernar	2023	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.003729	0.004512	0.00537	0.036565	0.043788	0.877601	0.00176	0.001619	0.00176	8.06E-06	7.21E-06	557.0693	441807.2	324.6196	6229482
San Bernar	2023	TRU - Insta	Aggregatec	Aggregatec	Diesel	8.63E-05	0.000104	0.000124	0.000847	0.001014	0.020317	4.07E-05	3.75E-05	4.07E-05	1.87E-07	1.67E-07	12.89654	16024.1	11.77377	144216.9
																			1853.165	

g/hph

HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	PM	Sox	NH3	Fuel_gphr
0.072357	0.087552	0.104194	1.363321	1.003215	27.48951	0.004537	0.004174	0.004537	0.000254	0.000226	5.27E-05
0.175941	0.212889	0.253355	2.58582	1.630175	38.31871	0.023175	0.021321	0.023175	0.000351	0.000315	7.35E-05
0.198211	0.239835	0.285424	1.943617	2.327547	46.64886	0.093539	0.086056	0.093539	0.000428	0.000383	8.94E-05
0.198211	0.239835	0.285424	1.943617	2.327547	46.64886	0.093539	0.086056	0.093539	0.000428	0.000383	8.94E-05

Weighting

HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	PM	Sox	NH3	Fuel_gphr
20.08284	24.30023	28.91928	378.3928	278.4448	7629.778	1.259207	1.158471	1.259207	0.070412	0.062691	0.014626
48.83284	59.08774	70.31929	717.7005	452.4589	10635.45	6.432297	5.917713	6.432297	0.097525	0.087387	0.020388
55.01388	66.56679	79.21998	539.4554	646.0163	12947.5	25.96202	23.88506	25.96202	0.118859	0.106385	0.02482
55.01388	66.56679	79.21998	539.4554	646.0163	12947.5	25.96202	23.88506	25.96202	0.118859	0.106385	0.02482
178.9434	216.5216	257.6785	2175.004	2022.936	44160.23	59.61554	54.8463	59.61554	0.405653	0.362847	0.084654
0.096561	0.116839	0.139048	1.17367	1.091611	23.82963	0.03217	0.029596	0.03217	0.000219	0.000196	4.57E-05

Truck Trips	125	
TRU HP	50	
Idling Time	1.1	hours
1 pound =	453.5924	grams

Source	ROG	NOX	CO	SO2	PM10	PM2.5	lbs/day CO2	MT/yr CO2
Transport F	1.77	16.55	17.79	0	0.49	0.45	361.18	59.79747

Based on aggregated Instate Trailer TRU emission rates obtained from OFFROAD2017 Version 1.0.1.
Based on 125 trucks with TRUs per day.

OFFROAD2017 (v1.0.1) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2024
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2017 Equipment Types
Units: Emissions: tons/day, Fuel Consumption: gallons/year, Activity: hours/year, HP-Hours: HP-hours/year

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2_5_tpd	PM_tpd	SOx_tpd	NH3_tpd	Fuel_gpy	Total_Activity	Total_Popu	Horsepower_Hours_hhpy
San Bernar	2024	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.001558	0.001886	0.002244	0.029271	0.02149	0.588319	9.74E-05	8.96E-05	9.74E-05	5.43E-06	4.83E-06	373.4438	224973.6	288.1614	7086667
San Bernar	2024	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.031579	0.03821	0.045474	0.459149	0.280891	6.598153	0.003575	0.003289	0.003575	6.05E-05	5.42E-05	4188.268	1676982	1265.759	57017401
San Bernar	2024	TRU - Insta	Aggregatec	Aggregatec	Diesel	0.003805	0.004603	0.005479	0.037344	0.044676	0.896396	0.001781	0.001639	0.001781	8.23E-06	7.37E-06	568.9996	451269.1	331.5717	6362894
San Bernar	2024	TRU - Insta	Aggregatec	Aggregatec	Diesel	8.81E-05	0.000107	0.000127	0.000865	0.001034	0.020752	4.12E-05	3.79E-05	4.12E-05	1.91E-07	1.71E-07	13.17274	16367.27	12.02592	147305.5
																			1897.518	

g/hph

HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	PM	Sox	NH3	Fuel_gphr
0.072812	0.088103	0.10485	1.367684	1.004114	27.48951	0.004553	0.004189	0.004553	0.000254	0.000226	5.27E-05
0.183394	0.221907	0.264088	2.666505	1.631274	38.31871	0.020764	0.019103	0.020764	0.000351	0.000315	7.35E-05
0.19799	0.239568	0.285106	1.943376	2.32494	46.64886	0.092701	0.085285	0.092701	0.000428	0.000383	8.94E-05
0.19799	0.239568	0.285106	1.943376	2.32494	46.64886	0.092701	0.085285	0.092701	0.000428	0.000383	8.94E-05

Weighting

HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	PM	Sox	NH3	Fuel_gphr
20.98168	25.38783	30.21361	394.1137	289.347	7921.415	1.311992	1.207033	1.311992	0.073099	0.065087	0.015185
52.84714	63.94504	76.09988	768.3837	470.0702	11041.97	5.983478	5.5048	5.983478	0.101188	0.090728	0.021167
57.05309	69.03424	82.15645	560.006	669.9581	13442.4	26.71279	24.57577	26.71279	0.123404	0.110451	0.025769
57.05309	69.03424	82.15645	560.006	669.9581	13442.4	26.71279	24.57577	26.71279	0.123404	0.110451	0.025769
187.935	227.4013	270.6264	2282.51	2099.333	45848.19	60.72105	55.86337	60.72105	0.421094	0.376717	0.08789
0.099043	0.119841	0.142621	1.202892	1.106358	24.16219	0.032	0.02944	0.032	0.000222	0.000199	4.63E-05

Truck Trips	86	
TRU HP	50	
Idling Time	1.1	hours
1 pound =	453.5924	grams

							lbs/day	MT/yr
Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	
Transport F	1.82	16.77	18.23	0	0.49	0.45	366.22	60.632

Based on aggregated Instate Trailer TRU emission rates obtained from OFFROAD2017 Version 1.0.1.
Based on 86 trucks with TRUs per day.

APPENDIX B2

HEALTH RISK ASSESSMENT

EMFAC2017 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Idle (g/trip)	5 mph (g/mi)	15 mph (g/mi)	45 mph (g/mi)	50 mph (g/mi)	55 mph (g/mi)
0.001514147	0.013942993	0.008589017	0.010325345	0.002575214	0.004748194

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	PM10_IDLEX	
San Bernardino (SC)	2023	HHDT	Aggregated	Aggregated	GAS	5.400593394	502.1025429	108.0550726	0	0
San Bernardino (SC)	2023	HHDT	Aggregated	Aggregated	DSL	15095.86478	1827708.596	154641.5157	0.027596734	416.5965673
San Bernardino (SC)	2023	HHDT	Aggregated	Aggregated	NG	1175.154539	47935.21538	4583.102704	0.039919542	46.9116311
San Bernardino (SC)	2023	LHDT2	Aggregated	Aggregated	GAS	2533.759331	82907.19879	37749.23873	0	0
San Bernardino (SC)	2023	LHDT2	Aggregated	Aggregated	DSL	4571.554127	162996.0189	57504.3999	0.027683965	126.5587463
San Bernardino (SC)	2023	MHDT	Aggregated	Aggregated	GAS	1442.204503	79321.31417	28855.62769	0	0
San Bernardino (SC)	2023	MHDT	Aggregated	Aggregated	DSL	14412.4861	995079.2792	145435.5471	0.004115649	59.31673082

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	PM10_RUNEX	
SAN BERNARDINO	2023	HHDT	Aggregated	5	GAS	0.311920254	0.009842005	0.003069921
SAN BERNARDINO	2023	HHDT	Aggregated	5	DSL	9217.789421	0.014920313	137.5323052
SAN BERNARDINO	2023	HHDT	Aggregated	5	NG	2553.828989	0.010993844	28.0763977
SAN BERNARDINO	2023	LHDT2	Aggregated	5	GAS	52.72871763	0.006871497	0.362325249
SAN BERNARDINO	2023	LHDT2	Aggregated	5	DSL	60.22469404	0.061423572	3.699215853
SAN BERNARDINO	2023	MHDT	Aggregated	5	GAS	49.27663643	0.007094553	0.349595685
SAN BERNARDINO	2023	MHDT	Aggregated	5	DSL	448.8424723	0.005866681	2.633215741
SAN BERNARDINO	2023	HHDT	Aggregated	15	GAS	10.28290061	0.004297672	0.04419253
SAN BERNARDINO	2023	HHDT	Aggregated	15	DSL	34193.35273	0.009360193	320.0563886
SAN BERNARDINO	2023	HHDT	Aggregated	15	NG	2804.95855	0.00743257	20.84805125
SAN BERNARDINO	2023	LHDT2	Aggregated	15	GAS	1971.803644	0.00288685	5.692302251
SAN BERNARDINO	2023	LHDT2	Aggregated	15	DSL	2283.32541	0.036789147	84.00159367
SAN BERNARDINO	2023	MHDT	Aggregated	15	GAS	1624.475321	0.002974516	4.832027597
SAN BERNARDINO	2023	MHDT	Aggregated	15	DSL	14416.73905	0.003934215	56.71855032
SAN BERNARDINO	2023	HHDT	Aggregated	45	GAS	59.75575132	0.00126284	0.075461954
SAN BERNARDINO	2023	HHDT	Aggregated	45	DSL	168581.2517	0.014178459	2390.222442
SAN BERNARDINO	2023	HHDT	Aggregated	45	NG	6068.415622	0.004256423	25.82974556
SAN BERNARDINO	2023	LHDT2	Aggregated	45	GAS	8844.07871	0.000771434	6.82262644
SAN BERNARDINO	2023	LHDT2	Aggregated	45	DSL	13103.08805	0.015905084	208.4057131
SAN BERNARDINO	2023	MHDT	Aggregated	45	GAS	9440.112963	0.000790615	7.463490797
SAN BERNARDINO	2023	MHDT	Aggregated	45	DSL	113825.002	0.005837756	664.4826452
SAN BERNARDINO	2023	HHDT	Aggregated	50	GAS	48.6268821	9.30524E-08	4.52485E-06
SAN BERNARDINO	2023	HHDT	Aggregated	50	DSL	166768.7589	0.003127398	521.5522872
SAN BERNARDINO	2023	HHDT	Aggregated	50	NG	10225.22813	5.25651E-05	0.537490164
SAN BERNARDINO	2023	LHDT2	Aggregated	50	GAS	8112.609325	8.83477E-06	0.071673
SAN BERNARDINO	2023	LHDT2	Aggregated	50	DSL	12438.59783	0.000263682	3.279830733
SAN BERNARDINO	2023	MHDT	Aggregated	50	GAS	8184.157702	9.04855E-06	0.074054765
SAN BERNARDINO	2023	MHDT	Aggregated	50	DSL	84478.42557	0.002627381	221.9569841
SAN BERNARDINO	2023	HHDT	Aggregated	55	GAS	71.31347966	1.15547E-07	8.24009E-06
SAN BERNARDINO	2023	HHDT	Aggregated	55	DSL	254698.0224	0.00581459	1480.964641
SAN BERNARDINO	2023	HHDT	Aggregated	55	NG	6003.570037	2.96199E-05	0.177825356
SAN BERNARDINO	2023	LHDT2	Aggregated	55	GAS	11282.09876	9.91287E-06	0.111837984
SAN BERNARDINO	2023	LHDT2	Aggregated	55	DSL	18362.09367	0.00034256	6.290120291
SAN BERNARDINO	2023	MHDT	Aggregated	55	GAS	12331.04898	1.09078E-05	0.134504971
SAN BERNARDINO	2023	MHDT	Aggregated	55	DSL	120594.7079	0.004332157	522.4351795

Construction

PM10 Exhaust Onsite

Year	Tons/Year	g/s	Weighted Average On-Site Rate
2022	1.17E-01	0.003357	3.94E-03
2023	1.85E-01	0.005327	
2024	6.45E-02	0.001855	

PM_{10} Exhaust Off-Site

	Tons/Year	g/s	g/s per mile	Weighted Average Off-Site Rate
2022	5.50E-04	0.000016	2.29299E-06	1.19E-05
2023	5.00E-05	0.000001	2.08454E-07	
2024	1.12E-02	0.000321	4.65269E-05	

Construction Route	Length (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)
Euclid Ave - Red Bud Lane to Merrill Ave	2,220.5	1.38	1.19E-05	1.65E-05
Euclid Ave - Merrill Ave to SR-71	953.3	0.59	1.19E-05	7.07E-06
Merill Ave - Euclid Ave to Bon View Ave	1,291.7	0.80	1.19E-05	9.57E-06
Merill Ave - Archibald Ave to Grove Ave	1,887.6	1.17	1.19E-05	1.40E-05

On-Site Construction Emissions

Year	Project Phase	Construction Phase	tons/yr Exhaust PM10
2022	1	Demo	2.49E-02
2022	1	Site Prep	0.0403
2022	1	Grading	0.0515
		Total	1.17E-01
2023	1	Grading	1.21E-02
2023	1	Construct	0.0395
2023	1	Paving	0.023
2023	1	A Coating	3.19E-03
2023	1	Construct	0.0201
2023	2	Site Prep	3.17E-02
2023	2	Grading	0.0556
		Total	1.85E-01
2024	2	Grading	1.34E-03
2024	2	Construct	3.93E-02
2024	2	Paving	2.11E-02
2024	2	A Coating	2.74E-03
		Total	6.45E-02

Off-Site Construction Emissions

Year	Phase	Construction Phase	tons/yr Exhaust PM10
2022	1	Demo	4.80E-04
2022	1	Site Prep	3.00E-05
2022	1	Grading	4.00E-05
		Total	5.50E-04
2023	1	Grading	1.00E-05
2023	1	Construct	1.28E-02
2023	1	Paving	5.00E-05
2023	1	A Coating	1.45E-03
2023	1	Construct	1.86E-03
2023	2	Site Prep	3.00E-05
2023	2	Grading	5.00E-05
		Total	1.63E-02
2024	2	Grading	0.00E+00
2024	2	Construct	1.01E-02
2024	2	Paving	5.00E-05
2024	2	A Coating	1.01E-03
		Total	1.12E-02

Refrigeration Unit Emissions	Speed (mph)	Size (hp)	Load Factor	On/Off Cycle Factor	Emissions Factor (g/bhp-hr)	Daily Trucks with TRU (veh/day)	Cooling Time (hr/veh)	Emissions (g/day)	Emissions (g/sec)
Euclid Ave - Red Bud Lane to Merrill Ave	55	34	0.53	0.5	0.02	70	3.64E-04	4.58E-03	5.30E-08
Euclid Ave - Merrill Ave to SR-71	55	34	0.53	0.5	0.02	47	3.64E-04	3.05E-03	3.53E-08
Merill Ave - Euclid Ave to Bon View Ave	50	34	0.53	0.5	0.02	116	4.00E-04	8.39E-03	9.72E-08
Merill Ave - Archibald Ave to Grove Ave	50	34	0.53	0.5	0.02	116	4.00E-04	8.39E-03	9.72E-08
Merrill Ave - Campus Ave to PA 4 Driveway	50	34	0.53	0.5	0.02	92	4.00E-04	6.60E-03	7.63E-08
Merrill Ave - PA 4 Driveway to Bon View Ave	50	34	0.53	0.5	0.02	77	4.00E-04	5.58E-03	6.46E-08
Merrill Ave - Bon View Ave to Driveway 7	50	34	0.53	0.5	0.02	74	4.00E-04	5.31E-03	6.15E-08
Merrill Ave - Driveway 7 to PA 5 Driveway	50	34	0.53	0.5	0.02	57	4.00E-04	4.14E-03	4.79E-08
Merrill Ave - PA 5 Driveway to Grove Ave	50	34	0.53	0.5	0.02	39	4.00E-04	2.78E-03	3.22E-08
Bon View Ave - Merrill Ave to PA 4 Driveway	45	34	0.53	0.5	0.02	51	4.44E-04	4.06E-03	4.70E-08
Bon View Ave - PA 4 Driveway to Driveway 1	45	34	0.53	0.5	0.02	37	4.44E-04	2.93E-03	3.39E-08
Bon View Ave - Driveway 1 to Eucalyptus Ave	45	34	0.53	0.5	0.02	23	4.44E-04	1.86E-03	2.15E-08
Campus Ave - Merill Ave to PA 4 Driveway	45	34	0.53	0.5	0.02	24	4.44E-04	1.88E-03	2.18E-08
Campus Ave - PA 4 Driveway to PA 3 Driveway	45	34	0.53	0.5	0.02	9	4.44E-04	7.53E-04	8.71E-09
Campus Ave - PA 3 Driveway to Eucalyptus Ave	45	34	0.53	0.5	0.02	3	4.44E-04	2.26E-04	2.61E-09
Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)	45	34	0.53	0.5	0.02	3	4.44E-04	2.26E-04	2.61E-09
Eucalyptus Ave - PA 3 Driveway to Bon View Ave	45	34	0.53	0.5	0.02	3	4.44E-04	2.26E-04	2.61E-09
Eucalyptus Ave - Bon View Ave to Driveway #4	45	34	0.53	0.5	0.02	20	4.44E-04	1.63E-03	1.89E-08
Eucalyptus Ave - Driveway #4 to Driveway #6	45	34	0.53	0.5	0.02	22	4.44E-04	1.74E-03	2.02E-08
Eucalyptus Ave - Driveway #6 to Driveway #8	45	34	0.53	0.5	0.02	15	4.44E-04	1.20E-03	1.39E-08
Eucalyptus Ave - Driveway #8 to Driveway #9	45	34	0.53	0.5	0.02	8	4.44E-04	6.54E-04	7.56E-09
Grove Ave - Merrill Ave to Driveway #11	50	34	0.53	0.5	0.02	71	4.00E-04	5.10E-03	5.90E-08
Grove Ave - Driveway #11 to Driveway #9	50	34	0.53	0.5	0.02	14	4.00E-04	9.80E-04	1.13E-08
Driveway #1	15	34	0.53	0.5	0.02	7	1.33E-03	1.63E-03	1.89E-08
Driveway #4	15	34	0.53	0.5	0.02	7	1.33E-03	1.63E-03	1.89E-08
Driveway #6	15	34	0.53	0.5	0.02	7	1.33E-03	1.63E-03	1.89E-08
Driveway #7	15	34	0.53	0.5	0.02	38	1.33E-03	9.15E-03	1.06E-07
Driveway #8	15	34	0.53	0.5	0.02	7	1.33E-03	1.63E-03	1.89E-08
Driveway #9	15	34	0.53	0.5	0.02	14	1.33E-03	3.27E-03	3.78E-08
Driveway #11	15	34	0.53	0.5	0.02	57	1.33E-03	1.37E-02	1.59E-07
PA 3 Driveway - Campus Ave	15	34	0.53	0.5	0.02	7	1.33E-03	1.58E-03	1.83E-08
PA 3 Driveway - Eucalyptus Ave	15	34	0.53	0.5	0.02	6	1.33E-03	1.36E-03	1.57E-08
PA 3 Driveway - Bon View Ave	15	34	0.53	0.5	0.02	7	1.33E-03	1.58E-03	1.83E-08
PA 4 Driveway - Merrill Ave	15	34	0.53	0.5	0.02	33	1.33E-03	7.90E-03	9.15E-08
PA 4 Driveway - Campus Ave	15	34	0.53	0.5	0.02	14	1.33E-03	3.39E-03	3.92E-08
PA 4 Driveway - Bon View Ave	15	34	0.53	0.5	0.02	14	1.33E-03	3.39E-03	3.92E-08
PA 5 Driveway	15	34	0.53	0.5	0.02	14	1.33E-03	3.39E-03	3.92E-08
On-site Circulation - Blgs 4-8 and Bldg 2	15	34	0.53	0.5	0.02	0	1.33E-03	0.00E+00	0.00E+00
On-site Circulation - Bldg 1 WEST	15	34	0.53	0.5	0.02	0	1.33E-03	0.00E+00	0.00E+00
On-Site Circulation - Bldg 1 EAST	15	34	0.53	0.5	0.02	0	1.33E-03	0.00E+00	0.00E+00
On-Site Circulation - Driveway 11	15	34	0.53	0.5	0.02	136	1.33E-03	3.27E-02	3.78E-07
On-site Circulation - PA 3	15	34	0.53	0.5	0.02	0	1.33E-03	0.00E+00	0.00E+00
On-site Circulation - PA 4 Loading Area 1	15	34	0.53	0.5	0.02	36	1.33E-03	8.65E-03	1.00E-07
On-site Circulation - PA 4 Loading Area 2	15	34	0.53	0.5	0.02	36	1.33E-03	8.65E-03	1.00E-07
On-site Circulation - PA 5	15	34	0.53	0.5	0.02	22	1.33E-03	5.29E-03	6.12E-08
Idle - Building 1 Loading Docks - East	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 1 Loading Docks - West	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 2 Loading Docks - North	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 2 Loading Docks - South	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 3 Loading Docks	0	34	0.53	0.5	0.02	136	2.50E-01	6.13E+00	7.09E-05
Idle - Building 4 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 5 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 6 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 7 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - Building 8 Loading Docks	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - PA 3 - Loading Area	0	34	0.53	0.5	0.02	0	2.50E-01	0.00E+00	0.00E+00
Idle - PA 4 - Loading Area 1	0	34	0.53	0.5	0.02	36	2.50E-01	1.62E+00	1.88E-05
Idle - PA 4 - Loading Area 2	0	34	0.53	0.5	0.02	36	2.50E-01	1.62E+00	1.88E-05
Idle - PA 5 - Loading Area	0	34	0.53	0.5	0.02	22	2.50E-01	9.91E-01	1.15E-05

Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emissions Rate (g/sec)	TRU Emissions Rate (g/sec)	Total Emissions Rate (g/sec)
Euclid Ave - Red Bud Lane to Merrill Ave	55	440	0.00475	2220.5	1.38	2.88E+00	3.33E-05	5.30E-08	3.34E-05
Euclid Ave - Merrill Ave to SR-71	55	293	0.00475	1597.6	0.99	1.38E+00	1.60E-05	3.53E-08	1.60E-05
Merill Ave - Euclid Ave to Bon View Ave	50	733	0.00258	877.8	0.55	1.03E+00	1.19E-05	9.72E-08	1.20E-05
Merill Ave - Archibald Ave to Grove Ave	50	733	0.00258	3208.8	1.99	3.76E+00	4.36E-05	9.72E-08	4.37E-05
Merrill Ave - Campus Ave to PA 4 Driveway	50	581	0.00258	214.2	0.13	1.99E-01	2.30E-06	7.63E-08	2.38E-06
Merrill Ave - PA 4 Driveway to Bon View Ave	50	489	0.00258	198	0.12	1.55E-01	1.79E-06	6.46E-08	1.86E-06
Merrill Ave - Bon View Ave to Driveway 7	50	470	0.00258	362.5	0.23	2.73E-01	3.16E-06	6.15E-08	3.22E-06
Merrill Ave - Driveway 7 to PA 5 Driveway	50	368	0.00258	197.5	0.12	1.16E-01	1.34E-06	4.79E-08	1.39E-06
Merrill Ave - PA 5 Driveway to Grove Ave	50	246	0.00258	248.2	0.15	9.75E-02	1.13E-06	3.22E-08	1.16E-06
Bon View Ave - Merrill Ave to PA 4 Driveway	45	324	0.01033	403.6	0.25	8.38E-01	9.70E-06	4.70E-08	9.75E-06
Bon View Ave - PA 4 Driveway to Driveway 1	45	232	0.01033	269.2	0.17	4.01E-01	4.64E-06	3.39E-08	4.68E-06
Bon View Ave - Driveway 1 to Eucalyptus Ave	45	147	0.01033	127.2	0.08	1.20E-01	1.39E-06	2.15E-08	1.41E-06
Campus Ave - Merill Ave to PA 4 Driveway	45	153	0.01033	375.5	0.23	3.67E-01	4.25E-06	2.18E-08	4.27E-06
Campus Ave - PA 4 Driveway to PA 3 Driveway	45	61	0.01033	298.9	0.19	1.17E-01	1.35E-06	8.71E-09	1.36E-06
Campus Ave - PA 3 Driveway to Eucalyptus Ave	45	18	0.01033	122.7	0.08	1.44E-02	1.67E-07	2.61E-09	1.69E-07
Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)	45	18	0.01033	163.4	0.10	1.92E-02	2.22E-07	2.61E-09	2.25E-07
Eucalyptus Ave - PA 3 Driveway to Bon View Ave	45	18	0.01033	247.2	0.15	2.90E-02	3.36E-07	2.61E-09	3.39E-07
Eucalyptus Ave - Bon View Ave to Driveway #4	45	128	0.01033	181.8	0.11	1.50E-01	1.73E-06	1.89E-08	1.75E-06
Eucalyptus Ave - Driveway #4 to Driveway #6	45	137	0.01033	140.3	0.09	1.23E-01	1.43E-06	2.02E-08	1.45E-06
Eucalyptus Ave - Driveway #6 to Driveway #8	45	94	0.01033	153	0.10	9.24E-02	1.07E-06	1.39E-08	1.08E-06
Eucalyptus Ave - Driveway #8 to Driveway #9	45	51	0.01033	160.1	0.10	5.28E-02	6.11E-07	7.56E-09	6.18E-07
Grove Ave - Merrill Ave to Driveway #11	50	445	0.00258	384.6	0.24	2.74E-01	3.17E-06	5.90E-08	3.23E-06
Grove Ave - Driveway #11 to Driveway #9	50	86	0.00258	589.2	0.37	8.07E-02	9.34E-07	1.13E-08	9.45E-07
Driveway #1	15	43	0.00859	18.2	0.01	4.16E-03	4.81E-08	1.89E-08	6.70E-08
Driveway #4	15	43	0.00859	124.3	0.08	2.84E-02	3.29E-07	1.89E-08	3.48E-07
Driveway #6	15	43	0.00859	124.1	0.08	2.83E-02	3.28E-07	1.89E-08	3.47E-07
Driveway #7	15	240	0.00859	59.1	0.04	7.56E-02	8.75E-07	1.06E-07	9.81E-07
Driveway #8	15	43	0.00859	124.5	0.08	2.84E-02	3.29E-07	1.89E-08	3.48E-07
Driveway #9	15	86	0.00859	123.1	0.08	5.62E-02	6.51E-07	3.78E-08	6.89E-07
Driveway #11	15	360	0.00859	34.6	0.02	6.64E-02	7.68E-07	1.59E-07	9.27E-07
PA 3 Driveway - Campus Ave	15	43	0.00859	31.6	0.02	7.20E-03	8.33E-08	1.83E-08	1.02E-07
PA 3 Driveway - Eucalyptus Ave	15	37	0.00859	32.7	0.02	6.39E-03	7.39E-08	1.57E-08	8.96E-08
PA 3 Driveway - Bon View Ave	15	43	0.00859	52.6	0.03	1.20E-02	1.39E-07	1.83E-08	1.57E-07
PA 4 Driveway - Merrill Ave	15	214	0.00859	38.7	0.02	4.41E-02	5.10E-07	9.15E-08	6.02E-07
PA 4 Driveway - Campus Ave	15	92	0.00859	38.7	0.02	1.89E-02	2.19E-07	3.92E-08	2.58E-07
PA 4 Driveway - Bon View Ave	15	92	0.00859	52.6	0.03	2.57E-02	2.97E-07	3.92E-08	3.37E-07
PA 5 Driveway	15	92	0.00859	29	0.02	1.42E-02	1.64E-07	3.92E-08	2.03E-07
On-site Circulation - Blgs 4-8 and Bldg 2	15	222	0.00859	779.3	0.48	9.25E-01	1.07E-05	0.00E+00	1.07E-05
On-site Circulation - Bldg 1 WEST	15	192	0.00859	752.6	0.47	7.72E-01	8.94E-06	0.00E+00	8.94E-06
On-Site Circulation - Bldg 1 EAST	15	190	0.00859	783.6	0.49	7.96E-01	9.21E-06	0.00E+00	9.21E-06
On-Site Circulation - Driveway 11	15	251	0.00859	426.2	0.26	5.71E-01	6.61E-06	3.78E-07	6.99E-06
On-site Circulation - PA 3	15	150	0.00859	775.4	0.48	6.21E-01	7.18E-06	0.00E+00	7.18E-06
On-site Circulation - PA 4 Loading Area 1	15	175	0.00859	800.3	0.50	7.47E-01	8.65E-06	1.00E-07	8.75E-06
On-site Circulation - PA 4 Loading Area 2	15	175	0.00859	778.4	0.48	7.27E-01	8.41E-06	1.00E-07	8.51E-06
On-site Circulation - PA 5	15	110	0.00859	806.6	0.50	4.74E-01	5.48E-06	6.12E-08	5.54E-06

Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Emissions Rate (g/sec)	TRU Emissions Rate (g/sec)	Total Emissions Rate (g/sec)
Idle - Building 1 Loading Docks - East	Idle	190	0.001514147	0.25	7.21E-02	8.34E-07	0.00E+00	8.34E-07
Idle - Building 1 Loading Docks - West	Idle	192	0.001514147	0.25	7.28E-02	8.42E-07	0.00E+00	8.42E-07
Idle - Building 2 Loading Docks - North	Idle	113	0.001514147	0.25	4.28E-02	4.95E-07	0.00E+00	4.95E-07
Idle - Building 2 Loading Docks - South	Idle	115	0.001514147	0.25	4.35E-02	5.04E-07	0.00E+00	5.04E-07
Idle - Building 3 Loading Docks	Idle	136	0.001514147	0.25	5.15E-02	5.96E-07	7.09E-05	7.15E-05
Idle - Building 4 Loading Docks	Idle	21	0.001514147	0.25	7.85E-03	9.08E-08	0.00E+00	9.08E-08
Idle - Building 5 Loading Docks	Idle	21	0.001514147	0.25	7.85E-03	9.08E-08	0.00E+00	9.08E-08
Idle - Building 6 Loading Docks	Idle	21	0.001514147	0.25	7.85E-03	9.08E-08	0.00E+00	9.08E-08
Idle - Building 7 Loading Docks	Idle	26	0.001514147	0.25	9.99E-03	1.16E-07	0.00E+00	1.16E-07
Idle - Building 8 Loading Docks	Idle	21	0.001514147	0.25	7.85E-03	9.08E-08	0.00E+00	9.08E-08
Idle - PA 3 - Loading Area	Idle	150	0.001514147	0.25	5.68E-02	6.57E-07	0.00E+00	6.57E-07
Idle - PA 4 - Loading Area 1	Idle	175	0.001514147	0.25	6.62E-02	7.67E-07	1.88E-05	1.95E-05
Idle - PA 4 - Loading Area 2	Idle	175	0.001514147	0.25	6.62E-02	7.67E-07	1.88E-05	1.95E-05
Idle - PA 5 - Loading Area	Idle	110	0.001514147	0.25	4.16E-02	4.82E-07	1.15E-05	1.20E-05

TRUCK TRIP DISTRIBUTION		
To Site	**Total Trucks**	**Total Trucks w/TRUs**
Euclid Ave - Red Bud Lane to Merrill Ave	440	70
Euclid Ave - Merrill Ave to SR-71	293	47
Merill Ave - Euclid Ave to Bon View Ave	733	116
Merill Ave - Archibald Ave to Grove Ave	733	116
Merrill Ave - Campus Ave to PA 4 Driveway	581	92
Merrill Ave - PA 4 Driveway to Bon View Ave	489	77
Merrill Ave - Bon View Ave to Driveway 7	470	74
Merrill Ave - Driveway 7 to PA 5 Driveway	368	57
Merrill Ave - PA 5 Driveway to Grove Ave	246	39
Bon View Ave - Merrill Ave to PA 4 Driveway	324	51
Bon View Ave - PA 4 Driveway to Driveway 1	232	37
Bon View Ave - Driveway 1 to Eucalyptus Ave	147	23
Campus Ave - Merill Ave to PA 4 Driveway	153	24
Campus Ave - PA 4 Driveway to PA 3 Driveway	61	9
Campus Ave - PA 3 Driveway to Eucalyptus Ave	18	3
Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)	18	3
Eucalyptus Ave - PA 3 Driveway to Bon View Ave	18	3
Eucalyptus Ave - Bon View Ave to Driveway #4	128	20
Eucalyptus Ave - Driveway #4 to Driveway #6	137	22
Eucalyptus Ave - Driveway #6 to Driveway #8	94	15
Eucalyptus Ave - Driveway #8 to Driveway #9	51	8
Grove Ave - Merrill Ave to Driveway #11	445	71
Grove Ave - Driveway #11 to Driveway #9	86	14
Driveway #1	43	7
Driveway #4	43	7
Driveway #6	43	7
Driveway #7	240	38
Driveway #8	43	7
Driveway #9	86	14
Driveway #11	360	57
PA 3 Driveway - Campus Ave	43	7
PA 3 Driveway - Eucalyptus Ave	37	6
PA 3 Driveway - Bon View Ave	43	7
PA 4 Driveway - Merrill Ave	214	33
PA 4 Driveway - Campus Ave	92	14
PA 4 Driveway - Bon View Ave	92	14
PA 5 Driveway	92	14
On-site Circulation - Blgs 4-8 and Bldg 2	222	0
On-site Circulation - Bldg 1 WEST	192	0
On-Site Circulation - Bldg 1 EAST	190	0
On-Site Circulation - Driveway 11	251	136
On-site Circulation - PA 3	150	0
On-site Circulation - PA 4 Loading Area 1	175	36
On-site Circulation - PA 4 Loading Area 2	175	36
On-site Circulation - PA 5	110	22
Idle - Building 1 Loading Docks - East	190	0
Idle - Building 1 Loading Docks - West	192	0
Idle - Building 2 Loading Docks - North	113	0
Idle - Building 2 Loading Docks - South	115	0
Idle - Building 3 Loading Docks	136	136
Idle - Building 4 Loading Docks	21	0
Idle - Building 5 Loading Docks	21	0
Idle - Building 6 Loading Docks	21	0
Idle - Building 7 Loading Docks	26	0
Idle - Building 8 Loading Docks	21	0
Idle - PA 3 - Loading Area	150	0
Idle - PA 4 - Loading Area 1	175	36
Idle - PA 4 - Loading Area 2	175	36
Idle - PA 5 - Loading Area	110	22

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** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 3/8/2021
** File: C:\Lakes\AERMOD View\SOL_construction_r\SOL_construction_r.ADI
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**
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** AERMOD Control Pathway
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**
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CO STARTING
   TITLEONE Construction
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL SOL_construction_r.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Euclid Ave - Red Bud Lane to Merrill Ave
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.0000165
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
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** 439897.649, 3762632.423, 216.86, 3.66, 5.58
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   LOCATION L0015633     VOLUME   439897.746 3762622.094 216.69
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   LOCATION L0015635     VOLUME   439897.972 3762598.095 216.38
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LOCATION L0015704     VOLUME   439897.189 3761770.113 207.51
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LOCATION L0015707     VOLUME   439897.087 3761734.113 207.19
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LOCATION L0015724     VOLUME   439896.509 3761530.114 205.34
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LOCATION L0015731     VOLUME   439896.272 3761446.115 204.36
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LOCATION L0015739     VOLUME   439896.000 3761350.115 203.19
LOCATION L0015740     VOLUME   439895.966 3761338.115 203.06
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LOCATION L0015757     VOLUME   439895.801 3761134.115 201.10
LOCATION L0015758     VOLUME   439895.802 3761122.115 200.98
LOCATION L0015759     VOLUME   439895.802 3761110.115 200.86
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   LOCATION L0015771     VOLUME   439895.811 3760966.115 199.16
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   LOCATION L0015775     VOLUME   439895.814 3760918.115 198.56
   LOCATION L0015776     VOLUME   439895.815 3760906.115 198.41
   LOCATION L0015777     VOLUME   439895.816 3760894.115 198.25
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   LOCATION L0015781     VOLUME   439895.819 3760846.115 197.61
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   LOCATION L0015792     VOLUME   439895.827 3760714.115 195.98
   LOCATION L0015793     VOLUME   439895.828 3760702.115 195.85
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   LOCATION L0015795     VOLUME   439895.829 3760678.115 195.63
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   LOCATION L0015798     VOLUME   439895.832 3760642.115 195.31
   LOCATION L0015799     VOLUME   439895.832 3760630.115 195.21
   LOCATION L0015800     VOLUME   439895.833 3760618.115 195.11
   LOCATION L0015801     VOLUME   439895.834 3760606.115 195.01
   LOCATION L0015802     VOLUME   439895.835 3760594.115 194.90
   LOCATION L0015803     VOLUME   439895.835 3760582.115 194.79
   LOCATION L0015804     VOLUME   439895.836 3760570.115 194.68
   LOCATION L0015805     VOLUME   439895.837 3760558.115 194.57
   LOCATION L0015806     VOLUME   439895.838 3760546.115 194.46
   LOCATION L0015807     VOLUME   439895.838 3760534.115 194.34
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   LOCATION L0015809     VOLUME   439895.840 3760510.115 194.10
   LOCATION L0015810     VOLUME   439895.841 3760498.115 193.99
   LOCATION L0015811     VOLUME   439895.841 3760486.115 193.88
   LOCATION L0015812     VOLUME   439895.842 3760474.115 193.77
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Euclid Ave - Merrill Ave to SR-71
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 7.07E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439895.965, 3760471.472, 193.72, 3.66, 5.58
** 439894.002, 3760323.327, 192.76, 3.66, 5.58
** 439894.252, 3759955.407, 190.38, 3.66, 5.58
** 439889.660, 3759518.181, 186.91, 3.66, 5.58
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   LOCATION L0042703     VOLUME   439895.885 3760465.473 193.68
   LOCATION L0042704     VOLUME   439895.726 3760453.474 193.57
   LOCATION L0042705     VOLUME   439895.568 3760441.475 193.47
   LOCATION L0042706     VOLUME   439895.409 3760429.476 193.38
   LOCATION L0042707     VOLUME   439895.250 3760417.477 193.29
   LOCATION L0042708     VOLUME   439895.091 3760405.478 193.23
   LOCATION L0042709     VOLUME   439894.932 3760393.479 193.17
   LOCATION L0042710     VOLUME   439894.773 3760381.480 193.10
   LOCATION L0042711     VOLUME   439894.614 3760369.481 193.03
   LOCATION L0042712     VOLUME   439894.455 3760357.482 192.96
   LOCATION L0042713     VOLUME   439894.296 3760345.483 192.88
   LOCATION L0042714     VOLUME   439894.137 3760333.484 192.80
   LOCATION L0042715     VOLUME   439894.003 3760321.485 192.70
   LOCATION L0042716     VOLUME   439894.012 3760309.485 192.60
   LOCATION L0042717     VOLUME   439894.020 3760297.485 192.49
   LOCATION L0042718     VOLUME   439894.028 3760285.485 192.39
   LOCATION L0042719     VOLUME   439894.036 3760273.485 192.28
   LOCATION L0042720     VOLUME   439894.044 3760261.485 192.17
   LOCATION L0042721     VOLUME   439894.052 3760249.485 192.07
   LOCATION L0042722     VOLUME   439894.061 3760237.485 191.96
   LOCATION L0042723     VOLUME   439894.069 3760225.485 191.85
   LOCATION L0042724     VOLUME   439894.077 3760213.485 191.74
   LOCATION L0042725     VOLUME   439894.085 3760201.485 191.64
   LOCATION L0042726     VOLUME   439894.093 3760189.485 191.54
   LOCATION L0042727     VOLUME   439894.101 3760177.485 191.44
   LOCATION L0042728     VOLUME   439894.110 3760165.485 191.37
   LOCATION L0042729     VOLUME   439894.118 3760153.485 191.30
   LOCATION L0042730     VOLUME   439894.126 3760141.485 191.24
   LOCATION L0042731     VOLUME   439894.134 3760129.485 191.18
   LOCATION L0042732     VOLUME   439894.142 3760117.485 191.12
   LOCATION L0042733     VOLUME   439894.150 3760105.485 191.08
   LOCATION L0042734     VOLUME   439894.159 3760093.485 191.03
   LOCATION L0042735     VOLUME   439894.167 3760081.485 190.98
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   LOCATION L0042736     VOLUME   439894.175 3760069.485 190.93
   LOCATION L0042737     VOLUME   439894.183 3760057.485 190.88
   LOCATION L0042738     VOLUME   439894.191 3760045.485 190.83
   LOCATION L0042739     VOLUME   439894.199 3760033.485 190.78
   LOCATION L0042740     VOLUME   439894.208 3760021.485 190.72
   LOCATION L0042741     VOLUME   439894.216 3760009.485 190.66
   LOCATION L0042742     VOLUME   439894.224 3759997.485 190.60
   LOCATION L0042743     VOLUME   439894.232 3759985.485 190.53
   LOCATION L0042744     VOLUME   439894.240 3759973.485 190.47
   LOCATION L0042745     VOLUME   439894.248 3759961.485 190.41
   LOCATION L0042746     VOLUME   439894.190 3759949.486 190.34
   LOCATION L0042747     VOLUME   439894.064 3759937.486 190.27
   LOCATION L0042748     VOLUME   439893.938 3759925.487 190.21
   LOCATION L0042749     VOLUME   439893.812 3759913.488 190.14
   LOCATION L0042750     VOLUME   439893.686 3759901.488 190.08
   LOCATION L0042751     VOLUME   439893.560 3759889.489 190.01
   LOCATION L0042752     VOLUME   439893.434 3759877.490 189.93
   LOCATION L0042753     VOLUME   439893.308 3759865.490 189.84
   LOCATION L0042754     VOLUME   439893.182 3759853.491 189.74
   LOCATION L0042755     VOLUME   439893.056 3759841.492 189.64
   LOCATION L0042756     VOLUME   439892.930 3759829.492 189.54
   LOCATION L0042757     VOLUME   439892.804 3759817.493 189.44
   LOCATION L0042758     VOLUME   439892.678 3759805.494 189.33
   LOCATION L0042759     VOLUME   439892.552 3759793.494 189.23
   LOCATION L0042760     VOLUME   439892.426 3759781.495 189.13
   LOCATION L0042761     VOLUME   439892.300 3759769.496 189.02
   LOCATION L0042762     VOLUME   439892.174 3759757.496 188.91
   LOCATION L0042763     VOLUME   439892.048 3759745.497 188.80
   LOCATION L0042764     VOLUME   439891.922 3759733.498 188.69
   LOCATION L0042765     VOLUME   439891.795 3759721.498 188.57
   LOCATION L0042766     VOLUME   439891.669 3759709.499 188.46
   LOCATION L0042767     VOLUME   439891.543 3759697.500 188.36
   LOCATION L0042768     VOLUME   439891.417 3759685.500 188.26
   LOCATION L0042769     VOLUME   439891.291 3759673.501 188.16
   LOCATION L0042770     VOLUME   439891.165 3759661.502 188.07
   LOCATION L0042771     VOLUME   439891.039 3759649.502 187.97
   LOCATION L0042772     VOLUME   439890.913 3759637.503 187.86
   LOCATION L0042773     VOLUME   439890.787 3759625.504 187.75
   LOCATION L0042774     VOLUME   439890.661 3759613.504 187.64
   LOCATION L0042775     VOLUME   439890.535 3759601.505 187.54
   LOCATION L0042776     VOLUME   439890.409 3759589.505 187.44
   LOCATION L0042777     VOLUME   439890.283 3759577.506 187.35
   LOCATION L0042778     VOLUME   439890.157 3759565.507 187.25
   LOCATION L0042779     VOLUME   439890.031 3759553.507 187.15
   LOCATION L0042780     VOLUME   439889.905 3759541.508 187.05
   LOCATION L0042781     VOLUME   439889.779 3759529.509 186.95
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Merill Ave - Euclid Ave to Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.57E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 9
** 439898.378, 3760465.490, 193.62, 3.66, 2.33
** 439941.655, 3760464.977, 193.56, 3.66, 2.33
** 440094.749, 3760465.148, 193.70, 3.66, 2.33
** 440334.726, 3760466.319, 194.72, 3.66, 2.33
** 440497.808, 3760467.090, 195.14, 3.66, 2.33
** 440776.167, 3760467.090, 196.68, 3.66, 2.33
** 440921.305, 3760465.961, 197.49, 3.66, 2.33
** 441132.695, 3760466.945, 198.64, 3.66, 2.33
** 441190.049, 3760466.289, 198.57, 3.66, 2.33
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   LOCATION L0016325     VOLUME   439905.877 3760465.401 193.70
   LOCATION L0016326     VOLUME   439910.877 3760465.342 193.70
   LOCATION L0016327     VOLUME   439915.876 3760465.283 193.71
   LOCATION L0016328     VOLUME   439920.876 3760465.223 193.71
   LOCATION L0016329     VOLUME   439925.876 3760465.164 193.70
   LOCATION L0016330     VOLUME   439930.875 3760465.105 193.68
   LOCATION L0016331     VOLUME   439935.875 3760465.045 193.65
   LOCATION L0016332     VOLUME   439940.875 3760464.986 193.63
   LOCATION L0016333     VOLUME   439945.875 3760464.982 193.61
   LOCATION L0016334     VOLUME   439950.875 3760464.987 193.59
   LOCATION L0016335     VOLUME   439955.875 3760464.993 193.58
   LOCATION L0016336     VOLUME   439960.875 3760464.998 193.58
   LOCATION L0016337     VOLUME   439965.875 3760465.004 193.57
   LOCATION L0016338     VOLUME   439970.875 3760465.010 193.56
   LOCATION L0016339     VOLUME   439975.875 3760465.015 193.56
   LOCATION L0016340     VOLUME   439980.875 3760465.021 193.56
   LOCATION L0016341     VOLUME   439985.875 3760465.026 193.57
   LOCATION L0016342     VOLUME   439990.875 3760465.032 193.57
   LOCATION L0016343     VOLUME   439995.875 3760465.037 193.57
   LOCATION L0016344     VOLUME   440000.875 3760465.043 193.58
   LOCATION L0016345     VOLUME   440005.875 3760465.049 193.58
   LOCATION L0016346     VOLUME   440010.875 3760465.054 193.58
   LOCATION L0016347     VOLUME   440015.875 3760465.060 193.58
   LOCATION L0016348     VOLUME   440020.875 3760465.065 193.58
   LOCATION L0016349     VOLUME   440025.874 3760465.071 193.59
   LOCATION L0016350     VOLUME   440030.874 3760465.077 193.59
   LOCATION L0016351     VOLUME   440035.874 3760465.082 193.59
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LOCATION L0016352     VOLUME   440040.874 3760465.088 193.60
LOCATION L0016353     VOLUME   440045.874 3760465.093 193.60
LOCATION L0016354     VOLUME   440050.874 3760465.099 193.60
LOCATION L0016355     VOLUME   440055.874 3760465.105 193.61
LOCATION L0016356     VOLUME   440060.874 3760465.110 193.62
LOCATION L0016357     VOLUME   440065.874 3760465.116 193.63
LOCATION L0016358     VOLUME   440070.874 3760465.121 193.64
LOCATION L0016359     VOLUME   440075.874 3760465.127 193.65
LOCATION L0016360     VOLUME   440080.874 3760465.132 193.65
LOCATION L0016361     VOLUME   440085.874 3760465.138 193.66
LOCATION L0016362     VOLUME   440090.874 3760465.144 193.66
LOCATION L0016363     VOLUME   440095.874 3760465.153 193.66
LOCATION L0016364     VOLUME   440100.874 3760465.178 193.67
LOCATION L0016365     VOLUME   440105.874 3760465.202 193.68
LOCATION L0016366     VOLUME   440110.874 3760465.227 193.69
LOCATION L0016367     VOLUME   440115.874 3760465.251 193.70
LOCATION L0016368     VOLUME   440120.874 3760465.275 193.72
LOCATION L0016369     VOLUME   440125.874 3760465.300 193.73
LOCATION L0016370     VOLUME   440130.874 3760465.324 193.75
LOCATION L0016371     VOLUME   440135.874 3760465.349 193.78
LOCATION L0016372     VOLUME   440140.874 3760465.373 193.80
LOCATION L0016373     VOLUME   440145.874 3760465.397 193.83
LOCATION L0016374     VOLUME   440150.874 3760465.422 193.86
LOCATION L0016375     VOLUME   440155.874 3760465.446 193.88
LOCATION L0016376     VOLUME   440160.874 3760465.471 193.91
LOCATION L0016377     VOLUME   440165.874 3760465.495 193.94
LOCATION L0016378     VOLUME   440170.874 3760465.520 193.97
LOCATION L0016379     VOLUME   440175.873 3760465.544 194.00
LOCATION L0016380     VOLUME   440180.873 3760465.568 194.02
LOCATION L0016381     VOLUME   440185.873 3760465.593 194.05
LOCATION L0016382     VOLUME   440190.873 3760465.617 194.07
LOCATION L0016383     VOLUME   440195.873 3760465.642 194.10
LOCATION L0016384     VOLUME   440200.873 3760465.666 194.12
LOCATION L0016385     VOLUME   440205.873 3760465.690 194.14
LOCATION L0016386     VOLUME   440210.873 3760465.715 194.16
LOCATION L0016387     VOLUME   440215.873 3760465.739 194.18
LOCATION L0016388     VOLUME   440220.873 3760465.764 194.19
LOCATION L0016389     VOLUME   440225.873 3760465.788 194.21
LOCATION L0016390     VOLUME   440230.873 3760465.812 194.22
LOCATION L0016391     VOLUME   440235.873 3760465.837 194.26
LOCATION L0016392     VOLUME   440240.873 3760465.861 194.30
LOCATION L0016393     VOLUME   440245.873 3760465.886 194.33
LOCATION L0016394     VOLUME   440250.873 3760465.910 194.37
LOCATION L0016395     VOLUME   440255.873 3760465.934 194.41
LOCATION L0016396     VOLUME   440260.872 3760465.959 194.44
LOCATION L0016397     VOLUME   440265.872 3760465.983 194.47
LOCATION L0016398     VOLUME   440270.872 3760466.008 194.50
LOCATION L0016399     VOLUME   440275.872 3760466.032 194.53
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LOCATION L0016400     VOLUME   440280.872 3760466.056 194.56
LOCATION L0016401     VOLUME   440285.872 3760466.081 194.57
LOCATION L0016402     VOLUME   440290.872 3760466.105 194.59
LOCATION L0016403     VOLUME   440295.872 3760466.130 194.60
LOCATION L0016404     VOLUME   440300.872 3760466.154 194.62
LOCATION L0016405     VOLUME   440305.872 3760466.178 194.63
LOCATION L0016406     VOLUME   440310.872 3760466.203 194.65
LOCATION L0016407     VOLUME   440315.872 3760466.227 194.67
LOCATION L0016408     VOLUME   440320.872 3760466.252 194.69
LOCATION L0016409     VOLUME   440325.872 3760466.276 194.71
LOCATION L0016410     VOLUME   440330.872 3760466.300 194.73
LOCATION L0016411     VOLUME   440335.872 3760466.325 194.76
LOCATION L0016412     VOLUME   440340.872 3760466.348 194.78
LOCATION L0016413     VOLUME   440345.871 3760466.372 194.80
LOCATION L0016414     VOLUME   440350.871 3760466.396 194.82
LOCATION L0016415     VOLUME   440355.871 3760466.419 194.84
LOCATION L0016416     VOLUME   440360.871 3760466.443 194.88
LOCATION L0016417     VOLUME   440365.871 3760466.466 194.94
LOCATION L0016418     VOLUME   440370.871 3760466.490 195.00
LOCATION L0016419     VOLUME   440375.871 3760466.514 195.07
LOCATION L0016420     VOLUME   440380.871 3760466.537 195.13
LOCATION L0016421     VOLUME   440385.871 3760466.561 195.19
LOCATION L0016422     VOLUME   440390.871 3760466.585 195.21
LOCATION L0016423     VOLUME   440395.871 3760466.608 195.23
LOCATION L0016424     VOLUME   440400.871 3760466.632 195.25
LOCATION L0016425     VOLUME   440405.871 3760466.656 195.27
LOCATION L0016426     VOLUME   440410.871 3760466.679 195.29
LOCATION L0016427     VOLUME   440415.871 3760466.703 195.24
LOCATION L0016428     VOLUME   440420.871 3760466.726 195.20
LOCATION L0016429     VOLUME   440425.871 3760466.750 195.15
LOCATION L0016430     VOLUME   440430.871 3760466.774 195.11
LOCATION L0016431     VOLUME   440435.870 3760466.797 195.06
LOCATION L0016432     VOLUME   440440.870 3760466.821 195.07
LOCATION L0016433     VOLUME   440445.870 3760466.845 195.08
LOCATION L0016434     VOLUME   440450.870 3760466.868 195.09
LOCATION L0016435     VOLUME   440455.870 3760466.892 195.11
LOCATION L0016436     VOLUME   440460.870 3760466.916 195.12
LOCATION L0016437     VOLUME   440465.870 3760466.939 195.13
LOCATION L0016438     VOLUME   440470.870 3760466.963 195.14
LOCATION L0016439     VOLUME   440475.870 3760466.987 195.15
LOCATION L0016440     VOLUME   440480.870 3760467.010 195.16
LOCATION L0016441     VOLUME   440485.870 3760467.034 195.17
LOCATION L0016442     VOLUME   440490.870 3760467.057 195.18
LOCATION L0016443     VOLUME   440495.870 3760467.081 195.20
LOCATION L0016444     VOLUME   440500.870 3760467.090 195.21
LOCATION L0016445     VOLUME   440505.870 3760467.090 195.22
LOCATION L0016446     VOLUME   440510.870 3760467.090 195.23
LOCATION L0016447     VOLUME   440515.870 3760467.090 195.25
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LOCATION L0016448     VOLUME   440520.870 3760467.090 195.26
LOCATION L0016449     VOLUME   440525.870 3760467.090 195.28
LOCATION L0016450     VOLUME   440530.870 3760467.090 195.29
LOCATION L0016451     VOLUME   440535.870 3760467.090 195.31
LOCATION L0016452     VOLUME   440540.870 3760467.090 195.32
LOCATION L0016453     VOLUME   440545.870 3760467.090 195.34
LOCATION L0016454     VOLUME   440550.870 3760467.090 195.35
LOCATION L0016455     VOLUME   440555.870 3760467.090 195.37
LOCATION L0016456     VOLUME   440560.870 3760467.090 195.38
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LOCATION L0016458     VOLUME   440570.870 3760467.090 195.42
LOCATION L0016459     VOLUME   440575.870 3760467.090 195.43
LOCATION L0016460     VOLUME   440580.870 3760467.090 195.45
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LOCATION L0016467     VOLUME   440615.870 3760467.090 195.57
LOCATION L0016468     VOLUME   440620.870 3760467.090 195.58
LOCATION L0016469     VOLUME   440625.870 3760467.090 195.60
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LOCATION L0016471     VOLUME   440635.870 3760467.090 195.63
LOCATION L0016472     VOLUME   440640.870 3760467.090 195.64
LOCATION L0016473     VOLUME   440645.870 3760467.090 195.66
LOCATION L0016474     VOLUME   440650.870 3760467.090 195.68
LOCATION L0016475     VOLUME   440655.870 3760467.090 195.70
LOCATION L0016476     VOLUME   440660.870 3760467.090 195.72
LOCATION L0016477     VOLUME   440665.870 3760467.090 195.73
LOCATION L0016478     VOLUME   440670.870 3760467.090 195.76
LOCATION L0016479     VOLUME   440675.870 3760467.090 195.78
LOCATION L0016480     VOLUME   440680.870 3760467.090 195.81
LOCATION L0016481     VOLUME   440685.870 3760467.090 195.83
LOCATION L0016482     VOLUME   440690.870 3760467.090 195.85
LOCATION L0016483     VOLUME   440695.870 3760467.090 195.88
LOCATION L0016484     VOLUME   440700.870 3760467.090 195.90
LOCATION L0016485     VOLUME   440705.870 3760467.090 195.93
LOCATION L0016486     VOLUME   440710.870 3760467.090 195.95
LOCATION L0016487     VOLUME   440715.870 3760467.090 195.98
LOCATION L0016488     VOLUME   440720.870 3760467.090 196.01
LOCATION L0016489     VOLUME   440725.870 3760467.090 196.05
LOCATION L0016490     VOLUME   440730.870 3760467.090 196.09
LOCATION L0016491     VOLUME   440735.870 3760467.090 196.13
LOCATION L0016492     VOLUME   440740.870 3760467.090 196.17
LOCATION L0016493     VOLUME   440745.870 3760467.090 196.23
LOCATION L0016494     VOLUME   440750.870 3760467.090 196.31
LOCATION L0016495     VOLUME   440755.870 3760467.090 196.38
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LOCATION L0016497     VOLUME   440765.870 3760467.090 196.54
LOCATION L0016498     VOLUME   440770.870 3760467.090 196.61
LOCATION L0016499     VOLUME   440775.870 3760467.090 196.63
LOCATION L0016500     VOLUME   440780.870 3760467.054 196.65
LOCATION L0016501     VOLUME   440785.869 3760467.015 196.67
LOCATION L0016502     VOLUME   440790.869 3760466.976 196.69
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LOCATION L0016504     VOLUME   440800.869 3760466.898 196.69
LOCATION L0016505     VOLUME   440805.869 3760466.859 196.68
LOCATION L0016506     VOLUME   440810.869 3760466.820 196.66
LOCATION L0016507     VOLUME   440815.869 3760466.781 196.65
LOCATION L0016508     VOLUME   440820.868 3760466.743 196.63
LOCATION L0016509     VOLUME   440825.868 3760466.704 196.66
LOCATION L0016510     VOLUME   440830.868 3760466.665 196.69
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LOCATION L0016513     VOLUME   440845.868 3760466.548 196.78
LOCATION L0016514     VOLUME   440850.868 3760466.509 196.81
LOCATION L0016515     VOLUME   440855.867 3760466.470 196.85
LOCATION L0016516     VOLUME   440860.867 3760466.431 196.89
LOCATION L0016517     VOLUME   440865.867 3760466.393 196.93
LOCATION L0016518     VOLUME   440870.867 3760466.354 196.97
LOCATION L0016519     VOLUME   440875.867 3760466.315 197.02
LOCATION L0016520     VOLUME   440880.867 3760466.276 197.06
LOCATION L0016521     VOLUME   440885.866 3760466.237 197.11
LOCATION L0016522     VOLUME   440890.866 3760466.198 197.16
LOCATION L0016523     VOLUME   440895.866 3760466.159 197.21
LOCATION L0016524     VOLUME   440900.866 3760466.120 197.26
LOCATION L0016525     VOLUME   440905.866 3760466.081 197.31
LOCATION L0016526     VOLUME   440910.866 3760466.043 197.36
LOCATION L0016527     VOLUME   440915.866 3760466.004 197.40
LOCATION L0016528     VOLUME   440920.865 3760465.965 197.45
LOCATION L0016529     VOLUME   440925.865 3760465.983 197.49
LOCATION L0016530     VOLUME   440930.865 3760466.006 197.51
LOCATION L0016531     VOLUME   440935.865 3760466.029 197.52
LOCATION L0016532     VOLUME   440940.865 3760466.052 197.54
LOCATION L0016533     VOLUME   440945.865 3760466.076 197.56
LOCATION L0016534     VOLUME   440950.865 3760466.099 197.58
LOCATION L0016535     VOLUME   440955.865 3760466.122 197.58
LOCATION L0016536     VOLUME   440960.865 3760466.145 197.59
LOCATION L0016537     VOLUME   440965.865 3760466.169 197.60
LOCATION L0016538     VOLUME   440970.865 3760466.192 197.61
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LOCATION L0064297     VOLUME   443301.694 3760466.387 202.86
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LOCATION L0064311     VOLUME   443371.694 3760466.281 203.10
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** DESCRSRC On-Site Construction Movement
** PREFIX
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** Configuration = Adjacent
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** Vertical Dimension = 7.65
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SRCPARAM L0015672     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015675     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015676     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015679     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015680     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015681     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015682     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015683     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015684     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015685     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015686     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015687     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015688     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015690     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015691     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015692     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015693     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015694     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015695     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015696     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015697     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015698     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015699     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015700     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015701     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015702     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015703     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015704     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015705     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015706     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015707     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015708     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015709     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015710     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015711     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015712     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015713     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015714     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015715     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015716     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015720     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015721     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015722     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015723     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015724     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015725     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015726     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015727     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015728     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015729     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015730     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015731     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015733     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015734     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015736     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015737     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015738     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015739     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015740     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015741     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015742     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015743     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015744     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015745     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015746     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015747     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015748     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015749     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015750     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015751     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015752     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015754     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015759     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015760     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015761     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015762     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015763     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015764     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015765     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015766     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015767     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015768     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015769     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015770     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015771     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015772     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015773     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015774     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015775     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015776     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015777     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015778     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015779     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015780     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015781     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015782     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015783     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015784     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015785     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015786     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015787     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015788     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015789     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015790     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015791     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015792     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015793     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015794     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015795     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015796     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015797     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015798     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015799     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015800     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015801     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015802     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015803     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015804     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015805     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015806     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015807     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015808     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015809     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015810     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015811     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015812     0.00000008919      3.66      5.58      2.89
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** LINE VOLUME Source ID = SLINE3
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   SRCPARAM L0042705     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042706     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042707     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042708     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042709     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042710     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042711     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042712     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042713     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042714     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042715     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042716     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042717     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042718     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042719     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042720     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042721     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042722     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042723     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042724     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042725     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042726     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042727     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042728     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042729     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042730     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042731     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042732     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042733     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042734     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042735     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042736     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042737     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042738     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042739     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042740     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042741     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042742     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042743     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042744     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042745     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042746     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042747     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042748     0.00000008949      3.66      5.58      2.89
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   SRCPARAM L0042749     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042750     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042751     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042752     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042753     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042754     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042755     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042756     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042757     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042758     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042759     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042760     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042761     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042762     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042763     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042764     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042765     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042766     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042767     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042768     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042769     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042770     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042771     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042772     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042773     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042774     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042775     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042776     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042777     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042778     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042779     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042780     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042781     0.00000008949      3.66      5.58      2.89
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** LINE VOLUME Source ID = SLINE4
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   SRCPARAM L0016325     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016326     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016327     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016328     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016329     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016330     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016331     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016332     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016333     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016334     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016335     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016336     0.00000003709      3.66      2.33      2.89
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SRCPARAM L0016337     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016338     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016339     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016340     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016341     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016342     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016343     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016344     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016345     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016346     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016347     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016348     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016349     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016350     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016351     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016352     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016353     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016354     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016355     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016356     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016357     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016358     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016359     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016360     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016361     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016362     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016363     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016364     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016365     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016366     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016367     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016368     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016369     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016370     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016371     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016372     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016373     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016374     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016375     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016376     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016377     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016378     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016379     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016380     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016381     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016382     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016383     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016384     0.00000003709      3.66      2.33      2.89
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SRCPARAM L0016385     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016386     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016387     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016388     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016389     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016390     0.00000003709      3.66      2.33      2.89
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   SRCGROUP ALL
SO FINISHED
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** AERMOD Receptor Pathway
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**
RE STARTING
   INCLUDED SOL_construction_r.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
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ME STARTING
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   SURFFILE KCNO_V9_ADJU\KCNO_v9.SFC
** Profile File Path: C:\Lakes\AERMOD View\SOL_construction_r\KCNO_V9_ADJU\
   PROFFILE KCNO_V9_ADJU\KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
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** AERMOD Output Pathway
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   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
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View\SOL_construction_r\SOL_CONSTRUCTION_R.AD\01H1GALL.PLT" 31
   PLOTFILE 24 ALL 1ST "C:\Lakes\AERMOD
View\SOL_construction_r\SOL_CONSTRUCTION_R.AD\24H1GALL.PLT" 32
   PLOTFILE PERIOD ALL "C:\Lakes\AERMOD
View\SOL_construction_r\SOL_CONSTRUCTION_R.AD\PE00GALL.PLT" 33
   SUMMFILE "C:\Lakes\AERMOD View\SOL_construction_r\SOL_construction_r.sum"
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 3/8/2021
** File: C:\Lakes\AERMOD View\SOL_construction_r\SOL_construction_r.ADI
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** AERMOD Control Pathway
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CO STARTING
   TITLEONE Construction
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL SOL_construction_r.err
CO FINISHED
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**************************************
** AERMOD Source Pathway
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**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Euclid Ave - Red Bud Lane to Merrill Ave
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.0000165
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 439897.910, 3762688.093, 217.36, 3.66, 5.58
** 439897.649, 3762632.423, 216.86, 3.66, 5.58
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   LOCATION L0015782     VOLUME   439895.820 3760834.115 197.43
   LOCATION L0015783     VOLUME   439895.820 3760822.115 197.26
   LOCATION L0015784     VOLUME   439895.821 3760810.115 197.10
   LOCATION L0015785     VOLUME   439895.822 3760798.115 196.95
   LOCATION L0015786     VOLUME   439895.823 3760786.115 196.80
   LOCATION L0015787     VOLUME   439895.823 3760774.115 196.66
   LOCATION L0015788     VOLUME   439895.824 3760762.115 196.52
   LOCATION L0015789     VOLUME   439895.825 3760750.115 196.38
   LOCATION L0015790     VOLUME   439895.826 3760738.115 196.24
   LOCATION L0015791     VOLUME   439895.826 3760726.115 196.11
   LOCATION L0015792     VOLUME   439895.827 3760714.115 195.98
   LOCATION L0015793     VOLUME   439895.828 3760702.115 195.85
   LOCATION L0015794     VOLUME   439895.829 3760690.115 195.74
   LOCATION L0015795     VOLUME   439895.829 3760678.115 195.63
   LOCATION L0015796     VOLUME   439895.830 3760666.115 195.52
   LOCATION L0015797     VOLUME   439895.831 3760654.115 195.42
   LOCATION L0015798     VOLUME   439895.832 3760642.115 195.31
   LOCATION L0015799     VOLUME   439895.832 3760630.115 195.21
   LOCATION L0015800     VOLUME   439895.833 3760618.115 195.11
   LOCATION L0015801     VOLUME   439895.834 3760606.115 195.01
   LOCATION L0015802     VOLUME   439895.835 3760594.115 194.90
   LOCATION L0015803     VOLUME   439895.835 3760582.115 194.79
   LOCATION L0015804     VOLUME   439895.836 3760570.115 194.68
   LOCATION L0015805     VOLUME   439895.837 3760558.115 194.57
   LOCATION L0015806     VOLUME   439895.838 3760546.115 194.46
   LOCATION L0015807     VOLUME   439895.838 3760534.115 194.34
   LOCATION L0015808     VOLUME   439895.839 3760522.115 194.22
   LOCATION L0015809     VOLUME   439895.840 3760510.115 194.10
   LOCATION L0015810     VOLUME   439895.841 3760498.115 193.99
   LOCATION L0015811     VOLUME   439895.841 3760486.115 193.88
   LOCATION L0015812     VOLUME   439895.842 3760474.115 193.77
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Euclid Ave - Merrill Ave to SR-71
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 7.07E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439895.965, 3760471.472, 193.72, 3.66, 5.58
** 439894.002, 3760323.327, 192.76, 3.66, 5.58
** 439894.252, 3759955.407, 190.38, 3.66, 5.58
** 439889.660, 3759518.181, 186.91, 3.66, 5.58
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   LOCATION L0042704     VOLUME   439895.726 3760453.474 193.57
   LOCATION L0042705     VOLUME   439895.568 3760441.475 193.47
   LOCATION L0042706     VOLUME   439895.409 3760429.476 193.38
   LOCATION L0042707     VOLUME   439895.250 3760417.477 193.29
   LOCATION L0042708     VOLUME   439895.091 3760405.478 193.23
   LOCATION L0042709     VOLUME   439894.932 3760393.479 193.17
   LOCATION L0042710     VOLUME   439894.773 3760381.480 193.10
   LOCATION L0042711     VOLUME   439894.614 3760369.481 193.03
   LOCATION L0042712     VOLUME   439894.455 3760357.482 192.96
   LOCATION L0042713     VOLUME   439894.296 3760345.483 192.88
   LOCATION L0042714     VOLUME   439894.137 3760333.484 192.80
   LOCATION L0042715     VOLUME   439894.003 3760321.485 192.70
   LOCATION L0042716     VOLUME   439894.012 3760309.485 192.60
   LOCATION L0042717     VOLUME   439894.020 3760297.485 192.49
   LOCATION L0042718     VOLUME   439894.028 3760285.485 192.39
   LOCATION L0042719     VOLUME   439894.036 3760273.485 192.28
   LOCATION L0042720     VOLUME   439894.044 3760261.485 192.17
   LOCATION L0042721     VOLUME   439894.052 3760249.485 192.07
   LOCATION L0042722     VOLUME   439894.061 3760237.485 191.96
   LOCATION L0042723     VOLUME   439894.069 3760225.485 191.85
   LOCATION L0042724     VOLUME   439894.077 3760213.485 191.74
   LOCATION L0042725     VOLUME   439894.085 3760201.485 191.64
   LOCATION L0042726     VOLUME   439894.093 3760189.485 191.54
   LOCATION L0042727     VOLUME   439894.101 3760177.485 191.44
   LOCATION L0042728     VOLUME   439894.110 3760165.485 191.37
   LOCATION L0042729     VOLUME   439894.118 3760153.485 191.30
   LOCATION L0042730     VOLUME   439894.126 3760141.485 191.24
   LOCATION L0042731     VOLUME   439894.134 3760129.485 191.18
   LOCATION L0042732     VOLUME   439894.142 3760117.485 191.12
   LOCATION L0042733     VOLUME   439894.150 3760105.485 191.08
   LOCATION L0042734     VOLUME   439894.159 3760093.485 191.03
   LOCATION L0042735     VOLUME   439894.167 3760081.485 190.98
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   LOCATION L0042736     VOLUME   439894.175 3760069.485 190.93
   LOCATION L0042737     VOLUME   439894.183 3760057.485 190.88
   LOCATION L0042738     VOLUME   439894.191 3760045.485 190.83
   LOCATION L0042739     VOLUME   439894.199 3760033.485 190.78
   LOCATION L0042740     VOLUME   439894.208 3760021.485 190.72
   LOCATION L0042741     VOLUME   439894.216 3760009.485 190.66
   LOCATION L0042742     VOLUME   439894.224 3759997.485 190.60
   LOCATION L0042743     VOLUME   439894.232 3759985.485 190.53
   LOCATION L0042744     VOLUME   439894.240 3759973.485 190.47
   LOCATION L0042745     VOLUME   439894.248 3759961.485 190.41
   LOCATION L0042746     VOLUME   439894.190 3759949.486 190.34
   LOCATION L0042747     VOLUME   439894.064 3759937.486 190.27
   LOCATION L0042748     VOLUME   439893.938 3759925.487 190.21
   LOCATION L0042749     VOLUME   439893.812 3759913.488 190.14
   LOCATION L0042750     VOLUME   439893.686 3759901.488 190.08
   LOCATION L0042751     VOLUME   439893.560 3759889.489 190.01
   LOCATION L0042752     VOLUME   439893.434 3759877.490 189.93
   LOCATION L0042753     VOLUME   439893.308 3759865.490 189.84
   LOCATION L0042754     VOLUME   439893.182 3759853.491 189.74
   LOCATION L0042755     VOLUME   439893.056 3759841.492 189.64
   LOCATION L0042756     VOLUME   439892.930 3759829.492 189.54
   LOCATION L0042757     VOLUME   439892.804 3759817.493 189.44
   LOCATION L0042758     VOLUME   439892.678 3759805.494 189.33
   LOCATION L0042759     VOLUME   439892.552 3759793.494 189.23
   LOCATION L0042760     VOLUME   439892.426 3759781.495 189.13
   LOCATION L0042761     VOLUME   439892.300 3759769.496 189.02
   LOCATION L0042762     VOLUME   439892.174 3759757.496 188.91
   LOCATION L0042763     VOLUME   439892.048 3759745.497 188.80
   LOCATION L0042764     VOLUME   439891.922 3759733.498 188.69
   LOCATION L0042765     VOLUME   439891.795 3759721.498 188.57
   LOCATION L0042766     VOLUME   439891.669 3759709.499 188.46
   LOCATION L0042767     VOLUME   439891.543 3759697.500 188.36
   LOCATION L0042768     VOLUME   439891.417 3759685.500 188.26
   LOCATION L0042769     VOLUME   439891.291 3759673.501 188.16
   LOCATION L0042770     VOLUME   439891.165 3759661.502 188.07
   LOCATION L0042771     VOLUME   439891.039 3759649.502 187.97
   LOCATION L0042772     VOLUME   439890.913 3759637.503 187.86
   LOCATION L0042773     VOLUME   439890.787 3759625.504 187.75
   LOCATION L0042774     VOLUME   439890.661 3759613.504 187.64
   LOCATION L0042775     VOLUME   439890.535 3759601.505 187.54
   LOCATION L0042776     VOLUME   439890.409 3759589.505 187.44
   LOCATION L0042777     VOLUME   439890.283 3759577.506 187.35
   LOCATION L0042778     VOLUME   439890.157 3759565.507 187.25
   LOCATION L0042779     VOLUME   439890.031 3759553.507 187.15
   LOCATION L0042780     VOLUME   439889.905 3759541.508 187.05
   LOCATION L0042781     VOLUME   439889.779 3759529.509 186.95
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Merill Ave - Euclid Ave to Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.57E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 9
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** 440334.726, 3760466.319, 194.72, 3.66, 2.33
** 440497.808, 3760467.090, 195.14, 3.66, 2.33
** 440776.167, 3760467.090, 196.68, 3.66, 2.33
** 440921.305, 3760465.961, 197.49, 3.66, 2.33
** 441132.695, 3760466.945, 198.64, 3.66, 2.33
** 441190.049, 3760466.289, 198.57, 3.66, 2.33
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   LOCATION L0016326     VOLUME   439910.877 3760465.342 193.70
   LOCATION L0016327     VOLUME   439915.876 3760465.283 193.71
   LOCATION L0016328     VOLUME   439920.876 3760465.223 193.71
   LOCATION L0016329     VOLUME   439925.876 3760465.164 193.70
   LOCATION L0016330     VOLUME   439930.875 3760465.105 193.68
   LOCATION L0016331     VOLUME   439935.875 3760465.045 193.65
   LOCATION L0016332     VOLUME   439940.875 3760464.986 193.63
   LOCATION L0016333     VOLUME   439945.875 3760464.982 193.61
   LOCATION L0016334     VOLUME   439950.875 3760464.987 193.59
   LOCATION L0016335     VOLUME   439955.875 3760464.993 193.58
   LOCATION L0016336     VOLUME   439960.875 3760464.998 193.58
   LOCATION L0016337     VOLUME   439965.875 3760465.004 193.57
   LOCATION L0016338     VOLUME   439970.875 3760465.010 193.56
   LOCATION L0016339     VOLUME   439975.875 3760465.015 193.56
   LOCATION L0016340     VOLUME   439980.875 3760465.021 193.56
   LOCATION L0016341     VOLUME   439985.875 3760465.026 193.57
   LOCATION L0016342     VOLUME   439990.875 3760465.032 193.57
   LOCATION L0016343     VOLUME   439995.875 3760465.037 193.57
   LOCATION L0016344     VOLUME   440000.875 3760465.043 193.58
   LOCATION L0016345     VOLUME   440005.875 3760465.049 193.58
   LOCATION L0016346     VOLUME   440010.875 3760465.054 193.58
   LOCATION L0016347     VOLUME   440015.875 3760465.060 193.58
   LOCATION L0016348     VOLUME   440020.875 3760465.065 193.58
   LOCATION L0016349     VOLUME   440025.874 3760465.071 193.59
   LOCATION L0016350     VOLUME   440030.874 3760465.077 193.59
   LOCATION L0016351     VOLUME   440035.874 3760465.082 193.59
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LOCATION L0016352     VOLUME   440040.874 3760465.088 193.60
LOCATION L0016353     VOLUME   440045.874 3760465.093 193.60
LOCATION L0016354     VOLUME   440050.874 3760465.099 193.60
LOCATION L0016355     VOLUME   440055.874 3760465.105 193.61
LOCATION L0016356     VOLUME   440060.874 3760465.110 193.62
LOCATION L0016357     VOLUME   440065.874 3760465.116 193.63
LOCATION L0016358     VOLUME   440070.874 3760465.121 193.64
LOCATION L0016359     VOLUME   440075.874 3760465.127 193.65
LOCATION L0016360     VOLUME   440080.874 3760465.132 193.65
LOCATION L0016361     VOLUME   440085.874 3760465.138 193.66
LOCATION L0016362     VOLUME   440090.874 3760465.144 193.66
LOCATION L0016363     VOLUME   440095.874 3760465.153 193.66
LOCATION L0016364     VOLUME   440100.874 3760465.178 193.67
LOCATION L0016365     VOLUME   440105.874 3760465.202 193.68
LOCATION L0016366     VOLUME   440110.874 3760465.227 193.69
LOCATION L0016367     VOLUME   440115.874 3760465.251 193.70
LOCATION L0016368     VOLUME   440120.874 3760465.275 193.72
LOCATION L0016369     VOLUME   440125.874 3760465.300 193.73
LOCATION L0016370     VOLUME   440130.874 3760465.324 193.75
LOCATION L0016371     VOLUME   440135.874 3760465.349 193.78
LOCATION L0016372     VOLUME   440140.874 3760465.373 193.80
LOCATION L0016373     VOLUME   440145.874 3760465.397 193.83
LOCATION L0016374     VOLUME   440150.874 3760465.422 193.86
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LOCATION L0016376     VOLUME   440160.874 3760465.471 193.91
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LOCATION L0016378     VOLUME   440170.874 3760465.520 193.97
LOCATION L0016379     VOLUME   440175.873 3760465.544 194.00
LOCATION L0016380     VOLUME   440180.873 3760465.568 194.02
LOCATION L0016381     VOLUME   440185.873 3760465.593 194.05
LOCATION L0016382     VOLUME   440190.873 3760465.617 194.07
LOCATION L0016383     VOLUME   440195.873 3760465.642 194.10
LOCATION L0016384     VOLUME   440200.873 3760465.666 194.12
LOCATION L0016385     VOLUME   440205.873 3760465.690 194.14
LOCATION L0016386     VOLUME   440210.873 3760465.715 194.16
LOCATION L0016387     VOLUME   440215.873 3760465.739 194.18
LOCATION L0016388     VOLUME   440220.873 3760465.764 194.19
LOCATION L0016389     VOLUME   440225.873 3760465.788 194.21
LOCATION L0016390     VOLUME   440230.873 3760465.812 194.22
LOCATION L0016391     VOLUME   440235.873 3760465.837 194.26
LOCATION L0016392     VOLUME   440240.873 3760465.861 194.30
LOCATION L0016393     VOLUME   440245.873 3760465.886 194.33
LOCATION L0016394     VOLUME   440250.873 3760465.910 194.37
LOCATION L0016395     VOLUME   440255.873 3760465.934 194.41
LOCATION L0016396     VOLUME   440260.872 3760465.959 194.44
LOCATION L0016397     VOLUME   440265.872 3760465.983 194.47
LOCATION L0016398     VOLUME   440270.872 3760466.008 194.50
LOCATION L0016399     VOLUME   440275.872 3760466.032 194.53
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LOCATION L0016401     VOLUME   440285.872 3760466.081 194.57
LOCATION L0016402     VOLUME   440290.872 3760466.105 194.59
LOCATION L0016403     VOLUME   440295.872 3760466.130 194.60
LOCATION L0016404     VOLUME   440300.872 3760466.154 194.62
LOCATION L0016405     VOLUME   440305.872 3760466.178 194.63
LOCATION L0016406     VOLUME   440310.872 3760466.203 194.65
LOCATION L0016407     VOLUME   440315.872 3760466.227 194.67
LOCATION L0016408     VOLUME   440320.872 3760466.252 194.69
LOCATION L0016409     VOLUME   440325.872 3760466.276 194.71
LOCATION L0016410     VOLUME   440330.872 3760466.300 194.73
LOCATION L0016411     VOLUME   440335.872 3760466.325 194.76
LOCATION L0016412     VOLUME   440340.872 3760466.348 194.78
LOCATION L0016413     VOLUME   440345.871 3760466.372 194.80
LOCATION L0016414     VOLUME   440350.871 3760466.396 194.82
LOCATION L0016415     VOLUME   440355.871 3760466.419 194.84
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LOCATION L0016417     VOLUME   440365.871 3760466.466 194.94
LOCATION L0016418     VOLUME   440370.871 3760466.490 195.00
LOCATION L0016419     VOLUME   440375.871 3760466.514 195.07
LOCATION L0016420     VOLUME   440380.871 3760466.537 195.13
LOCATION L0016421     VOLUME   440385.871 3760466.561 195.19
LOCATION L0016422     VOLUME   440390.871 3760466.585 195.21
LOCATION L0016423     VOLUME   440395.871 3760466.608 195.23
LOCATION L0016424     VOLUME   440400.871 3760466.632 195.25
LOCATION L0016425     VOLUME   440405.871 3760466.656 195.27
LOCATION L0016426     VOLUME   440410.871 3760466.679 195.29
LOCATION L0016427     VOLUME   440415.871 3760466.703 195.24
LOCATION L0016428     VOLUME   440420.871 3760466.726 195.20
LOCATION L0016429     VOLUME   440425.871 3760466.750 195.15
LOCATION L0016430     VOLUME   440430.871 3760466.774 195.11
LOCATION L0016431     VOLUME   440435.870 3760466.797 195.06
LOCATION L0016432     VOLUME   440440.870 3760466.821 195.07
LOCATION L0016433     VOLUME   440445.870 3760466.845 195.08
LOCATION L0016434     VOLUME   440450.870 3760466.868 195.09
LOCATION L0016435     VOLUME   440455.870 3760466.892 195.11
LOCATION L0016436     VOLUME   440460.870 3760466.916 195.12
LOCATION L0016437     VOLUME   440465.870 3760466.939 195.13
LOCATION L0016438     VOLUME   440470.870 3760466.963 195.14
LOCATION L0016439     VOLUME   440475.870 3760466.987 195.15
LOCATION L0016440     VOLUME   440480.870 3760467.010 195.16
LOCATION L0016441     VOLUME   440485.870 3760467.034 195.17
LOCATION L0016442     VOLUME   440490.870 3760467.057 195.18
LOCATION L0016443     VOLUME   440495.870 3760467.081 195.20
LOCATION L0016444     VOLUME   440500.870 3760467.090 195.21
LOCATION L0016445     VOLUME   440505.870 3760467.090 195.22
LOCATION L0016446     VOLUME   440510.870 3760467.090 195.23
LOCATION L0016447     VOLUME   440515.870 3760467.090 195.25
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LOCATION L0016449     VOLUME   440525.870 3760467.090 195.28
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LOCATION L0016452     VOLUME   440540.870 3760467.090 195.32
LOCATION L0016453     VOLUME   440545.870 3760467.090 195.34
LOCATION L0016454     VOLUME   440550.870 3760467.090 195.35
LOCATION L0016455     VOLUME   440555.870 3760467.090 195.37
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LOCATION L0016459     VOLUME   440575.870 3760467.090 195.43
LOCATION L0016460     VOLUME   440580.870 3760467.090 195.45
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LOCATION L0016465     VOLUME   440605.870 3760467.090 195.54
LOCATION L0016466     VOLUME   440610.870 3760467.090 195.55
LOCATION L0016467     VOLUME   440615.870 3760467.090 195.57
LOCATION L0016468     VOLUME   440620.870 3760467.090 195.58
LOCATION L0016469     VOLUME   440625.870 3760467.090 195.60
LOCATION L0016470     VOLUME   440630.870 3760467.090 195.61
LOCATION L0016471     VOLUME   440635.870 3760467.090 195.63
LOCATION L0016472     VOLUME   440640.870 3760467.090 195.64
LOCATION L0016473     VOLUME   440645.870 3760467.090 195.66
LOCATION L0016474     VOLUME   440650.870 3760467.090 195.68
LOCATION L0016475     VOLUME   440655.870 3760467.090 195.70
LOCATION L0016476     VOLUME   440660.870 3760467.090 195.72
LOCATION L0016477     VOLUME   440665.870 3760467.090 195.73
LOCATION L0016478     VOLUME   440670.870 3760467.090 195.76
LOCATION L0016479     VOLUME   440675.870 3760467.090 195.78
LOCATION L0016480     VOLUME   440680.870 3760467.090 195.81
LOCATION L0016481     VOLUME   440685.870 3760467.090 195.83
LOCATION L0016482     VOLUME   440690.870 3760467.090 195.85
LOCATION L0016483     VOLUME   440695.870 3760467.090 195.88
LOCATION L0016484     VOLUME   440700.870 3760467.090 195.90
LOCATION L0016485     VOLUME   440705.870 3760467.090 195.93
LOCATION L0016486     VOLUME   440710.870 3760467.090 195.95
LOCATION L0016487     VOLUME   440715.870 3760467.090 195.98
LOCATION L0016488     VOLUME   440720.870 3760467.090 196.01
LOCATION L0016489     VOLUME   440725.870 3760467.090 196.05
LOCATION L0016490     VOLUME   440730.870 3760467.090 196.09
LOCATION L0016491     VOLUME   440735.870 3760467.090 196.13
LOCATION L0016492     VOLUME   440740.870 3760467.090 196.17
LOCATION L0016493     VOLUME   440745.870 3760467.090 196.23
LOCATION L0016494     VOLUME   440750.870 3760467.090 196.31
LOCATION L0016495     VOLUME   440755.870 3760467.090 196.38
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LOCATION L0016498     VOLUME   440770.870 3760467.090 196.61
LOCATION L0016499     VOLUME   440775.870 3760467.090 196.63
LOCATION L0016500     VOLUME   440780.870 3760467.054 196.65
LOCATION L0016501     VOLUME   440785.869 3760467.015 196.67
LOCATION L0016502     VOLUME   440790.869 3760466.976 196.69
LOCATION L0016503     VOLUME   440795.869 3760466.937 196.71
LOCATION L0016504     VOLUME   440800.869 3760466.898 196.69
LOCATION L0016505     VOLUME   440805.869 3760466.859 196.68
LOCATION L0016506     VOLUME   440810.869 3760466.820 196.66
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LOCATION L0064263     VOLUME   443131.694 3760466.165 201.91
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LOCATION L0064267     VOLUME   443151.694 3760466.195 202.00
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** PREFIX
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** Configuration = Adjacent
** Emission Rate = 0.00394
** Vertical Dimension = 7.65
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   SRCPARAM L0015652     0.00000008919      3.66      5.58      2.89
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   SRCPARAM L0015657     0.00000008919      3.66      5.58      2.89
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   SRCPARAM L0015659     0.00000008919      3.66      5.58      2.89
   SRCPARAM L0015660     0.00000008919      3.66      5.58      2.89
   SRCPARAM L0015661     0.00000008919      3.66      5.58      2.89
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   SRCPARAM L0015664     0.00000008919      3.66      5.58      2.89
   SRCPARAM L0015665     0.00000008919      3.66      5.58      2.89
   SRCPARAM L0015666     0.00000008919      3.66      5.58      2.89
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   SRCPARAM L0015668     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015671     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015699     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015700     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015701     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015702     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015703     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015704     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015706     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015711     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015712     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015713     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015714     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015715     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015716     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015721     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015722     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015723     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015724     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015725     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015726     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015734     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015736     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015738     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015739     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015740     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015742     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015743     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015744     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015747     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015748     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015749     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015751     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015761     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015762     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015764     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015767     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015768     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015769     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015771     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015776     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015782     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015785     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015786     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015787     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015789     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015791     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015792     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015799     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015800     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015801     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015802     0.00000008919      3.66      5.58      2.89
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SRCPARAM L0015807     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015808     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015809     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015810     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015811     0.00000008919      3.66      5.58      2.89
SRCPARAM L0015812     0.00000008919      3.66      5.58      2.89
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   SRCPARAM L0042706     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042707     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042708     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042709     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042710     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042711     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042712     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042713     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042714     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042715     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042716     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042717     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042718     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042719     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042720     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042721     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042722     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042723     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042724     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042725     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042726     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042727     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042728     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042729     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042730     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042731     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042732     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042733     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042734     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042735     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042736     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042737     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042738     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042739     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042740     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042741     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042742     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042743     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042744     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042745     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042746     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042747     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042748     0.00000008949      3.66      5.58      2.89
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   SRCPARAM L0042749     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042750     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042751     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042752     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042753     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042754     0.00000008949      3.66      5.58      2.89
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   SRCPARAM L0042760     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042761     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042762     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042763     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042764     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042765     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042766     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042767     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042768     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042769     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042770     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042771     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042772     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042773     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042774     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042775     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042776     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042777     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042778     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042779     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042780     0.00000008949      3.66      5.58      2.89
   SRCPARAM L0042781     0.00000008949      3.66      5.58      2.89
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** LINE VOLUME Source ID = SLINE4
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   SRCPARAM L0016325     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016326     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016327     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016328     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016329     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016330     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016331     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016332     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016333     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016334     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016335     0.00000003709      3.66      2.33      2.89
   SRCPARAM L0016336     0.00000003709      3.66      2.33      2.89
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SRCPARAM L0016337     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016338     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016339     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016340     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016341     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016342     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016343     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016344     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016345     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016346     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016347     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016348     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016349     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016350     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016351     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016352     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016353     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016354     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016355     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016356     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016357     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016358     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016359     0.00000003709      3.66      2.33      2.89
SRCPARAM L0016360     0.00000003709      3.66      2.33      2.89
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SRCPARAM L0064396     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064397     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064398     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064399     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064400     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064401     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064402     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064403     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064404     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064405     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064406     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064407     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064408     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064409     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064410     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064411     0.00000003704      3.66      2.33      2.89
SRCPARAM L0064412     0.00000003704      3.66      2.33      2.89
```

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   SRCPARAM L0064413     0.00000003704      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0042930     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042931     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042932     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042933     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042934     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042935     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042936     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042937     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042938     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042939     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042940     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042941     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042942     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042943     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042944     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042945     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042946     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042947     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042948     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042949     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042950     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042951     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042952     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042953     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042954     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042955     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042956     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042957     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042958     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042959     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042960     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042961     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042962     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042963     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042964     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042965     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042966     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042967     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042968     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042969     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042970     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042971     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042972     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042973     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0042974     0.0000361468      3.83     34.88      3.56
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SRCPARAM L0042975     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042976     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042977     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042978     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042979     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042980     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042981     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042982     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042983     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042984     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042985     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042986     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042987     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042988     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042989     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042990     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042991     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042992     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042993     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042994     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042995     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042996     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042997     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042998     0.0000361468      3.83     34.88      3.56
SRCPARAM L0042999     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043000     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043001     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043002     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043003     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043004     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043005     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043006     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043007     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043008     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043009     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043010     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043011     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043012     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043013     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043014     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043015     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043016     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043017     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043018     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043019     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043020     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043021     0.0000361468      3.83     34.88      3.56
SRCPARAM L0043022     0.0000361468      3.83     34.88      3.56
```

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   SRCPARAM L0043023     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043024     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043025     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043026     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043027     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043028     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043029     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043030     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043031     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043032     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043033     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043034     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043035     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043036     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043037     0.0000361468      3.83     34.88      3.56
   SRCPARAM L0043038     0.0000361468      3.83     34.88      3.56
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED SOL_construction_r.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_V9_ADJU\KCNO_v9.SFC
   PROFFILE KCNO_V9_ADJU\KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
```

```
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST SOL_CONSTRUCTION_R.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST SOL_CONSTRUCTION_R.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL SOL_CONSTRUCTION_R.AD\PE00GALL.PLT 33
   SUMMFILE SOL_construction_r.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2202       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    2202       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION  19191 ***   *** Construction
                          ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                          ***       15:14:46

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
```

```
 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for  1009 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  2 Short Term Average(s) of:   1-HR  24-HR
     and Calculates PERIOD Averages

 **This Run Includes:   1009 Source(s);       1 Source Group(s); and     160
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:   1009 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216
```

```
 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing
Hours
                                                                 b for Both Calm
and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   198.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.9 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   SOL_construction_r.err

 **File for Summary of Results:   SOL_construction_r.sum

 *** AERMOD - VERSION  19191 ***   *** Construction
                          ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
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                                    PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
```

ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0015628	0	0.89190E-07	439897.9	3762682.1	217.5	3.66	5.58	2.89 YES
L0015629	0	0.89190E-07	439897.8	3762670.1	217.3	3.66	5.58	2.89 YES
L0015630	0	0.89190E-07	439897.8	3762658.1	217.2	3.66	5.58	2.89 YES
L0015631	0	0.89190E-07	439897.7	3762646.1	217.0	3.66	5.58	2.89 YES
L0015632	0	0.89190E-07	439897.7	3762634.1	216.9	3.66	5.58	2.89 YES
L0015633	0	0.89190E-07	439897.7	3762622.1	216.7	3.66	5.58	2.89 YES
L0015634	0	0.89190E-07	439897.9	3762610.1	216.5	3.66	5.58	2.89 YES
L0015635	0	0.89190E-07	439898.0	3762598.1	216.4	3.66	5.58	2.89 YES
L0015636	0	0.89190E-07	439898.1	3762586.1	216.2	3.66	5.58	2.89 YES
L0015637	0	0.89190E-07	439898.2	3762574.1	216.1	3.66	5.58	2.89 YES
L0015638	0	0.89190E-07	439898.3	3762562.1	216.0	3.66	5.58	2.89 YES
L0015639	0	0.89190E-07	439898.4	3762550.1	215.8	3.66	5.58	2.89 YES
L0015640	0	0.89190E-07	439898.5	3762538.1	215.7	3.66	5.58	2.89 YES
L0015641	0	0.89190E-07	439898.6	3762526.1	215.5	3.66	5.58	2.89 YES
L0015642	0	0.89190E-07	439898.8	3762514.1	215.4	3.66	5.58	2.89 YES
L0015643	0	0.89190E-07	439898.9	3762502.1	215.3	3.66	5.58	2.89 YES
L0015644	0	0.89190E-07	439899.0	3762490.1	215.2	3.66	5.58	2.89 YES
L0015645	0	0.89190E-07	439899.1	3762478.1	215.0	3.66	5.58	2.89 YES
L0015646	0	0.89190E-07	439899.2	3762466.1	214.9	3.66	5.58	2.89 YES
L0015647	0	0.89190E-07	439899.3	3762454.1	214.8	3.66	5.58	2.89 YES
L0015648	0	0.89190E-07	439899.4	3762442.1	214.6	3.66	5.58	2.89 YES
L0015649	0	0.89190E-07	439899.5	3762430.1	214.4	3.66	5.58	

```
2.89     YES
 L0015650         0   0.89190E-07  439899.7 3762418.1   214.3     3.66     5.58
2.89     YES
 L0015651         0   0.89190E-07  439899.8 3762406.1   214.1     3.66     5.58
2.89     YES
 L0015652         0   0.89190E-07  439899.9 3762394.1   214.0     3.66     5.58
2.89     YES
 L0015653         0   0.89190E-07  439900.0 3762382.1   213.8     3.66     5.58
2.89     YES
 L0015654         0   0.89190E-07  439900.1 3762370.1   213.7     3.66     5.58
2.89     YES
 L0015655         0   0.89190E-07  439900.0 3762358.1   213.5     3.66     5.58
2.89     YES
 L0015656         0   0.89190E-07  439899.9 3762346.1   213.3     3.66     5.58
2.89     YES
 L0015657         0   0.89190E-07  439899.9 3762334.1   213.2     3.66     5.58
2.89     YES
 L0015658         0   0.89190E-07  439899.8 3762322.1   213.0     3.66     5.58
2.89     YES
 L0015659         0   0.89190E-07  439899.7 3762310.1   212.8     3.66     5.58
2.89     YES
 L0015660         0   0.89190E-07  439899.6 3762298.1   212.6     3.66     5.58
2.89     YES
 L0015661         0   0.89190E-07  439899.5 3762286.1   212.4     3.66     5.58
2.89     YES
 L0015662         0   0.89190E-07  439899.4 3762274.1   212.2     3.66     5.58
2.89     YES
 L0015663         0   0.89190E-07  439899.4 3762262.1   212.0     3.66     5.58
2.89     YES
 L0015664         0   0.89190E-07  439899.3 3762250.1   211.8     3.66     5.58
2.89     YES
 L0015665         0   0.89190E-07  439899.2 3762238.1   211.6     3.66     5.58
2.89     YES
 L0015666         0   0.89190E-07  439899.1 3762226.1   211.5     3.66     5.58
2.89     YES
 L0015667         0   0.89190E-07  439899.0 3762214.1   211.3     3.66     5.58
2.89     YES
↑ *** AERMOD - VERSION  19191 ***   *** Construction
                          ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                         ***       15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***
```

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0015668	0	0.89190E-07	439898.9	3762202.1	211.1	3.66	5.58	2.89	YES
L0015669	0	0.89190E-07	439898.9	3762190.1	211.0	3.66	5.58	2.89	YES
L0015670	0	0.89190E-07	439898.8	3762178.1	210.9	3.66	5.58	2.89	YES
L0015671	0	0.89190E-07	439898.7	3762166.1	210.8	3.66	5.58	2.89	YES
L0015672	0	0.89190E-07	439898.6	3762154.1	210.7	3.66	5.58	2.89	YES
L0015673	0	0.89190E-07	439898.5	3762142.1	210.6	3.66	5.58	2.89	YES
L0015674	0	0.89190E-07	439898.4	3762130.1	210.5	3.66	5.58	2.89	YES
L0015675	0	0.89190E-07	439898.4	3762118.1	210.4	3.66	5.58	2.89	YES
L0015676	0	0.89190E-07	439898.3	3762106.1	210.3	3.66	5.58	2.89	YES
L0015677	0	0.89190E-07	439898.2	3762094.1	210.2	3.66	5.58	2.89	YES
L0015678	0	0.89190E-07	439898.1	3762082.1	210.1	3.66	5.58	2.89	YES
L0015679	0	0.89190E-07	439898.0	3762070.1	210.0	3.66	5.58	2.89	YES
L0015680	0	0.89190E-07	439898.0	3762058.1	210.0	3.66	5.58	2.89	YES
L0015681	0	0.89190E-07	439898.0	3762046.1	209.9	3.66	5.58	2.89	YES
L0015682	0	0.89190E-07	439897.9	3762034.1	209.8	3.66	5.58	2.89	YES
L0015683	0	0.89190E-07	439897.9	3762022.1	209.7	3.66	5.58	2.89	YES
L0015684	0	0.89190E-07	439897.9	3762010.1	209.6	3.66	5.58	2.89	YES
L0015685	0	0.89190E-07	439897.8	3761998.1	209.5	3.66	5.58	2.89	YES
L0015686	0	0.89190E-07	439897.8	3761986.1	209.4	3.66	5.58	2.89	YES
L0015687	0	0.89190E-07	439897.8	3761974.1	209.3	3.66	5.58		

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2.89     YES
 L0015688         0   0.89190E-07  439897.7 3761962.1   209.2     3.66     5.58
2.89     YES
 L0015689         0   0.89190E-07  439897.7 3761950.1   209.1     3.66     5.58
2.89     YES
 L0015690         0   0.89190E-07  439897.7 3761938.1   209.0     3.66     5.58
2.89     YES
 L0015691         0   0.89190E-07  439897.6 3761926.1   208.9     3.66     5.58
2.89     YES
 L0015692         0   0.89190E-07  439897.6 3761914.1   208.8     3.66     5.58
2.89     YES
 L0015693         0   0.89190E-07  439897.6 3761902.1   208.7     3.66     5.58
2.89     YES
 L0015694         0   0.89190E-07  439897.5 3761890.1   208.6     3.66     5.58
2.89     YES
 L0015695         0   0.89190E-07  439897.5 3761878.1   208.5     3.66     5.58
2.89     YES
 L0015696         0   0.89190E-07  439897.5 3761866.1   208.4     3.66     5.58
2.89     YES
 L0015697         0   0.89190E-07  439897.4 3761854.1   208.2     3.66     5.58
2.89     YES
 L0015698         0   0.89190E-07  439897.4 3761842.1   208.2     3.66     5.58
2.89     YES
 L0015699         0   0.89190E-07  439897.4 3761830.1   208.0     3.66     5.58
2.89     YES
 L0015700         0   0.89190E-07  439897.3 3761818.1   207.9     3.66     5.58
2.89     YES
 L0015701         0   0.89190E-07  439897.3 3761806.1   207.8     3.66     5.58
2.89     YES
 L0015702         0   0.89190E-07  439897.3 3761794.1   207.7     3.66     5.58
2.89     YES
 L0015703         0   0.89190E-07  439897.2 3761782.1   207.6     3.66     5.58
2.89     YES
 L0015704         0   0.89190E-07  439897.2 3761770.1   207.5     3.66     5.58
2.89     YES
 L0015705         0   0.89190E-07  439897.2 3761758.1   207.4     3.66     5.58
2.89     YES
 L0015706         0   0.89190E-07  439897.1 3761746.1   207.3     3.66     5.58
2.89     YES
 L0015707         0   0.89190E-07  439897.1 3761734.1   207.2     3.66     5.58
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                         ***       15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0015708	0	0.89190E-07	439897.1	3761722.1	207.1	3.66	5.58	2.89	YES
L0015709	0	0.89190E-07	439897.0	3761710.1	207.0	3.66	5.58	2.89	YES
L0015710	0	0.89190E-07	439897.0	3761698.1	206.9	3.66	5.58	2.89	YES
L0015711	0	0.89190E-07	439897.0	3761686.1	206.8	3.66	5.58	2.89	YES
L0015712	0	0.89190E-07	439896.9	3761674.1	206.7	3.66	5.58	2.89	YES
L0015713	0	0.89190E-07	439896.9	3761662.1	206.6	3.66	5.58	2.89	YES
L0015714	0	0.89190E-07	439896.8	3761650.1	206.5	3.66	5.58	2.89	YES
L0015715	0	0.89190E-07	439896.8	3761638.1	206.4	3.66	5.58	2.89	YES
L0015716	0	0.89190E-07	439896.8	3761626.1	206.3	3.66	5.58	2.89	YES
L0015717	0	0.89190E-07	439896.7	3761614.1	206.2	3.66	5.58	2.89	YES
L0015718	0	0.89190E-07	439896.7	3761602.1	206.1	3.66	5.58	2.89	YES
L0015719	0	0.89190E-07	439896.7	3761590.1	206.0	3.66	5.58	2.89	YES
L0015720	0	0.89190E-07	439896.6	3761578.1	205.9	3.66	5.58	2.89	YES
L0015721	0	0.89190E-07	439896.6	3761566.1	205.8	3.66	5.58	2.89	YES
L0015722	0	0.89190E-07	439896.6	3761554.1	205.6	3.66	5.58	2.89	YES
L0015723	0	0.89190E-07	439896.5	3761542.1	205.5	3.66	5.58	2.89	YES
L0015724	0	0.89190E-07	439896.5	3761530.1	205.3	3.66	5.58	2.89	YES
L0015725	0	0.89190E-07	439896.5	3761518.1	205.2	3.66	5.58		

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2.89     YES
 L0015726         0   0.89190E-07  439896.4 3761506.1   205.1     3.66     5.58
2.89     YES
 L0015727         0   0.89190E-07  439896.4 3761494.1   204.9     3.66     5.58
2.89     YES
 L0015728         0   0.89190E-07  439896.4 3761482.1   204.8     3.66     5.58
2.89     YES
 L0015729         0   0.89190E-07  439896.3 3761470.1   204.6     3.66     5.58
2.89     YES
 L0015730         0   0.89190E-07  439896.3 3761458.1   204.5     3.66     5.58
2.89     YES
 L0015731         0   0.89190E-07  439896.3 3761446.1   204.4     3.66     5.58
2.89     YES
 L0015732         0   0.89190E-07  439896.2 3761434.1   204.2     3.66     5.58
2.89     YES
 L0015733         0   0.89190E-07  439896.2 3761422.1   204.1     3.66     5.58
2.89     YES
 L0015734         0   0.89190E-07  439896.2 3761410.1   203.9     3.66     5.58
2.89     YES
 L0015735         0   0.89190E-07  439896.1 3761398.1   203.8     3.66     5.58
2.89     YES
 L0015736         0   0.89190E-07  439896.1 3761386.1   203.6     3.66     5.58
2.89     YES
 L0015737         0   0.89190E-07  439896.1 3761374.1   203.5     3.66     5.58
2.89     YES
 L0015738         0   0.89190E-07  439896.0 3761362.1   203.3     3.66     5.58
2.89     YES
 L0015739         0   0.89190E-07  439896.0 3761350.1   203.2     3.66     5.58
2.89     YES
 L0015740         0   0.89190E-07  439896.0 3761338.1   203.1     3.66     5.58
2.89     YES
 L0015741         0   0.89190E-07  439895.9 3761326.1   202.9     3.66     5.58
2.89     YES
 L0015742         0   0.89190E-07  439895.9 3761314.1   202.8     3.66     5.58
2.89     YES
 L0015743         0   0.89190E-07  439895.9 3761302.1   202.7     3.66     5.58
2.89     YES
 L0015744         0   0.89190E-07  439895.8 3761290.1   202.6     3.66     5.58
2.89     YES
 L0015745         0   0.89190E-07  439895.8 3761278.1   202.4     3.66     5.58
2.89     YES
 L0015746         0   0.89190E-07  439895.8 3761266.1   202.3     3.66     5.58
2.89     YES
 L0015747         0   0.89190E-07  439895.8 3761254.1   202.2     3.66     5.58
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                           ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0015748	0	0.89190E-07	439895.8	3761242.1	202.1	3.66	5.58	2.89	YES	
L0015749	0	0.89190E-07	439895.8	3761230.1	202.0	3.66	5.58	2.89	YES	
L0015750	0	0.89190E-07	439895.8	3761218.1	201.9	3.66	5.58	2.89	YES	
L0015751	0	0.89190E-07	439895.8	3761206.1	201.8	3.66	5.58	2.89	YES	
L0015752	0	0.89190E-07	439895.8	3761194.1	201.7	3.66	5.58	2.89	YES	
L0015753	0	0.89190E-07	439895.8	3761182.1	201.6	3.66	5.58	2.89	YES	
L0015754	0	0.89190E-07	439895.8	3761170.1	201.5	3.66	5.58	2.89	YES	
L0015755	0	0.89190E-07	439895.8	3761158.1	201.4	3.66	5.58	2.89	YES	
L0015756	0	0.89190E-07	439895.8	3761146.1	201.2	3.66	5.58	2.89	YES	
L0015757	0	0.89190E-07	439895.8	3761134.1	201.1	3.66	5.58	2.89	YES	
L0015758	0	0.89190E-07	439895.8	3761122.1	201.0	3.66	5.58	2.89	YES	
L0015759	0	0.89190E-07	439895.8	3761110.1	200.9	3.66	5.58	2.89	YES	
L0015760	0	0.89190E-07	439895.8	3761098.1	200.7	3.66	5.58	2.89	YES	
L0015761	0	0.89190E-07	439895.8	3761086.1	200.6	3.66	5.58	2.89	YES	
L0015762	0	0.89190E-07	439895.8	3761074.1	200.5	3.66	5.58	2.89	YES	
L0015763	0	0.89190E-07	439895.8	3761062.1	200.4	3.66	5.58			

2.89 YES							
L0015764	0	0.89190E-07	439895.8	3761050.1	200.2	3.66	5.58
2.89 YES							
L0015765	0	0.89190E-07	439895.8	3761038.1	200.1	3.66	5.58
2.89 YES							
L0015766	0	0.89190E-07	439895.8	3761026.1	199.9	3.66	5.58
2.89 YES							
L0015767	0	0.89190E-07	439895.8	3761014.1	199.8	3.66	5.58
2.89 YES							
L0015768	0	0.89190E-07	439895.8	3761002.1	199.6	3.66	5.58
2.89 YES							
L0015769	0	0.89190E-07	439895.8	3760990.1	199.5	3.66	5.58
2.89 YES							
L0015770	0	0.89190E-07	439895.8	3760978.1	199.3	3.66	5.58
2.89 YES							
L0015771	0	0.89190E-07	439895.8	3760966.1	199.2	3.66	5.58
2.89 YES							
L0015772	0	0.89190E-07	439895.8	3760954.1	199.0	3.66	5.58
2.89 YES							
L0015773	0	0.89190E-07	439895.8	3760942.1	198.9	3.66	5.58
2.89 YES							
L0015774	0	0.89190E-07	439895.8	3760930.1	198.7	3.66	5.58
2.89 YES							
L0015775	0	0.89190E-07	439895.8	3760918.1	198.6	3.66	5.58
2.89 YES							
L0015776	0	0.89190E-07	439895.8	3760906.1	198.4	3.66	5.58
2.89 YES							
L0015777	0	0.89190E-07	439895.8	3760894.1	198.2	3.66	5.58
2.89 YES							
L0015778	0	0.89190E-07	439895.8	3760882.1	198.1	3.66	5.58
2.89 YES							
L0015779	0	0.89190E-07	439895.8	3760870.1	197.9	3.66	5.58
2.89 YES							
L0015780	0	0.89190E-07	439895.8	3760858.1	197.8	3.66	5.58
2.89 YES							
L0015781	0	0.89190E-07	439895.8	3760846.1	197.6	3.66	5.58
2.89 YES							
L0015782	0	0.89190E-07	439895.8	3760834.1	197.4	3.66	5.58
2.89 YES							
L0015783	0	0.89190E-07	439895.8	3760822.1	197.3	3.66	5.58
2.89 YES							
L0015784	0	0.89190E-07	439895.8	3760810.1	197.1	3.66	5.58
2.89 YES							
L0015785	0	0.89190E-07	439895.8	3760798.1	197.0	3.66	5.58
2.89 YES							
L0015786	0	0.89190E-07	439895.8	3760786.1	196.8	3.66	5.58
2.89 YES							
L0015787	0	0.89190E-07	439895.8	3760774.1	196.7	3.66	5.58

2.89 YES
↑ *** AERMOD - VERSION 19191 *** *** Construction
*** 03/08/21
*** AERMET - VERSION 16216 *** ***
*** 15:14:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0015788	0	0.89190E-07	439895.8	3760762.1	196.5	3.66	5.58	2.89	YES	
L0015789	0	0.89190E-07	439895.8	3760750.1	196.4	3.66	5.58	2.89	YES	
L0015790	0	0.89190E-07	439895.8	3760738.1	196.2	3.66	5.58	2.89	YES	
L0015791	0	0.89190E-07	439895.8	3760726.1	196.1	3.66	5.58	2.89	YES	
L0015792	0	0.89190E-07	439895.8	3760714.1	196.0	3.66	5.58	2.89	YES	
L0015793	0	0.89190E-07	439895.8	3760702.1	195.9	3.66	5.58	2.89	YES	
L0015794	0	0.89190E-07	439895.8	3760690.1	195.7	3.66	5.58	2.89	YES	
L0015795	0	0.89190E-07	439895.8	3760678.1	195.6	3.66	5.58	2.89	YES	
L0015796	0	0.89190E-07	439895.8	3760666.1	195.5	3.66	5.58	2.89	YES	
L0015797	0	0.89190E-07	439895.8	3760654.1	195.4	3.66	5.58	2.89	YES	
L0015798	0	0.89190E-07	439895.8	3760642.1	195.3	3.66	5.58	2.89	YES	
L0015799	0	0.89190E-07	439895.8	3760630.1	195.2	3.66	5.58	2.89	YES	
L0015800	0	0.89190E-07	439895.8	3760618.1	195.1	3.66	5.58	2.89	YES	
L0015801	0	0.89190E-07	439895.8	3760606.1	195.0	3.66	5.58			

2.89	YES							
L0015802		0	0.89190E-07	439895.8	3760594.1	194.9	3.66	5.58
2.89	YES							
L0015803		0	0.89190E-07	439895.8	3760582.1	194.8	3.66	5.58
2.89	YES							
L0015804		0	0.89190E-07	439895.8	3760570.1	194.7	3.66	5.58
2.89	YES							
L0015805		0	0.89190E-07	439895.8	3760558.1	194.6	3.66	5.58
2.89	YES							
L0015806		0	0.89190E-07	439895.8	3760546.1	194.5	3.66	5.58
2.89	YES							
L0015807		0	0.89190E-07	439895.8	3760534.1	194.3	3.66	5.58
2.89	YES							
L0015808		0	0.89190E-07	439895.8	3760522.1	194.2	3.66	5.58
2.89	YES							
L0015809		0	0.89190E-07	439895.8	3760510.1	194.1	3.66	5.58
2.89	YES							
L0015810		0	0.89190E-07	439895.8	3760498.1	194.0	3.66	5.58
2.89	YES							
L0015811		0	0.89190E-07	439895.8	3760486.1	193.9	3.66	5.58
2.89	YES							
L0015812		0	0.89190E-07	439895.8	3760474.1	193.8	3.66	5.58
2.89	YES							
L0042703		0	0.89490E-07	439895.9	3760465.5	193.7	3.66	5.58
2.89	YES							
L0042704		0	0.89490E-07	439895.7	3760453.5	193.6	3.66	5.58
2.89	YES							
L0042705		0	0.89490E-07	439895.6	3760441.5	193.5	3.66	5.58
2.89	YES							
L0042706		0	0.89490E-07	439895.4	3760429.5	193.4	3.66	5.58
2.89	YES							
L0042707		0	0.89490E-07	439895.2	3760417.5	193.3	3.66	5.58
2.89	YES							
L0042708		0	0.89490E-07	439895.1	3760405.5	193.2	3.66	5.58
2.89	YES							
L0042709		0	0.89490E-07	439894.9	3760393.5	193.2	3.66	5.58
2.89	YES							
L0042710		0	0.89490E-07	439894.8	3760381.5	193.1	3.66	5.58
2.89	YES							
L0042711		0	0.89490E-07	439894.6	3760369.5	193.0	3.66	5.58
2.89	YES							
L0042712		0	0.89490E-07	439894.5	3760357.5	193.0	3.66	5.58
2.89	YES							
L0042713		0	0.89490E-07	439894.3	3760345.5	192.9	3.66	5.58
2.89	YES							
L0042714		0	0.89490E-07	439894.1	3760333.5	192.8	3.66	5.58
2.89	YES							
L0042715		0	0.89490E-07	439894.0	3760321.5	192.7	3.66	5.58

2.89 YES
L0042716 0 0.89490E-07 439894.0 3760309.5 192.6 3.66 5.58
2.89 YES
L0042717 0 0.89490E-07 439894.0 3760297.5 192.5 3.66 5.58
2.89 YES
*** AERMOD - VERSION 19191 *** *** Construction
*** 03/08/21
*** AERMET - VERSION 16216 *** ***
*** 15:14:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0042718	0	0.89490E-07	439894.0	3760285.5	192.4	3.66	5.58	2.89	YES	
L0042719	0	0.89490E-07	439894.0	3760273.5	192.3	3.66	5.58	2.89	YES	
L0042720	0	0.89490E-07	439894.0	3760261.5	192.2	3.66	5.58	2.89	YES	
L0042721	0	0.89490E-07	439894.1	3760249.5	192.1	3.66	5.58	2.89	YES	
L0042722	0	0.89490E-07	439894.1	3760237.5	192.0	3.66	5.58	2.89	YES	
L0042723	0	0.89490E-07	439894.1	3760225.5	191.9	3.66	5.58	2.89	YES	
L0042724	0	0.89490E-07	439894.1	3760213.5	191.7	3.66	5.58	2.89	YES	
L0042725	0	0.89490E-07	439894.1	3760201.5	191.6	3.66	5.58	2.89	YES	
L0042726	0	0.89490E-07	439894.1	3760189.5	191.5	3.66	5.58	2.89	YES	
L0042727	0	0.89490E-07	439894.1	3760177.5	191.4	3.66	5.58	2.89	YES	
L0042728	0	0.89490E-07	439894.1	3760165.5	191.4	3.66	5.58	2.89	YES	
L0042729	0	0.89490E-07	439894.1	3760153.5	191.3	3.66	5.58			

2.89 YES							
L0042730	0	0.89490E-07	439894.1	3760141.5	191.2	3.66	5.58
2.89 YES							
L0042731	0	0.89490E-07	439894.1	3760129.5	191.2	3.66	5.58
2.89 YES							
L0042732	0	0.89490E-07	439894.1	3760117.5	191.1	3.66	5.58
2.89 YES							
L0042733	0	0.89490E-07	439894.1	3760105.5	191.1	3.66	5.58
2.89 YES							
L0042734	0	0.89490E-07	439894.2	3760093.5	191.0	3.66	5.58
2.89 YES							
L0042735	0	0.89490E-07	439894.2	3760081.5	191.0	3.66	5.58
2.89 YES							
L0042736	0	0.89490E-07	439894.2	3760069.5	190.9	3.66	5.58
2.89 YES							
L0042737	0	0.89490E-07	439894.2	3760057.5	190.9	3.66	5.58
2.89 YES							
L0042738	0	0.89490E-07	439894.2	3760045.5	190.8	3.66	5.58
2.89 YES							
L0042739	0	0.89490E-07	439894.2	3760033.5	190.8	3.66	5.58
2.89 YES							
L0042740	0	0.89490E-07	439894.2	3760021.5	190.7	3.66	5.58
2.89 YES							
L0042741	0	0.89490E-07	439894.2	3760009.5	190.7	3.66	5.58
2.89 YES							
L0042742	0	0.89490E-07	439894.2	3759997.5	190.6	3.66	5.58
2.89 YES							
L0042743	0	0.89490E-07	439894.2	3759985.5	190.5	3.66	5.58
2.89 YES							
L0042744	0	0.89490E-07	439894.2	3759973.5	190.5	3.66	5.58
2.89 YES							
L0042745	0	0.89490E-07	439894.2	3759961.5	190.4	3.66	5.58
2.89 YES							
L0042746	0	0.89490E-07	439894.2	3759949.5	190.3	3.66	5.58
2.89 YES							
L0042747	0	0.89490E-07	439894.1	3759937.5	190.3	3.66	5.58
2.89 YES							
L0042748	0	0.89490E-07	439893.9	3759925.5	190.2	3.66	5.58
2.89 YES							
L0042749	0	0.89490E-07	439893.8	3759913.5	190.1	3.66	5.58
2.89 YES							
L0042750	0	0.89490E-07	439893.7	3759901.5	190.1	3.66	5.58
2.89 YES							
L0042751	0	0.89490E-07	439893.6	3759889.5	190.0	3.66	5.58
2.89 YES							
L0042752	0	0.89490E-07	439893.4	3759877.5	189.9	3.66	5.58
2.89 YES							
L0042753	0	0.89490E-07	439893.3	3759865.5	189.8	3.66	5.58

2.89 YES
L0042754 0 0.89490E-07 439893.2 3759853.5 189.7 3.66 5.58
2.89 YES
L0042755 0 0.89490E-07 439893.1 3759841.5 189.6 3.66 5.58
2.89 YES
L0042756 0 0.89490E-07 439892.9 3759829.5 189.5 3.66 5.58
2.89 YES
L0042757 0 0.89490E-07 439892.8 3759817.5 189.4 3.66 5.58
2.89 YES
*** AERMOD - VERSION 19191 *** *** Construction
*** 03/08/21
*** AERMET - VERSION 16216 *** ***
*** 15:14:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0042758	0	0.89490E-07	439892.7	3759805.5	189.3	3.66	5.58	2.89	YES	
L0042759	0	0.89490E-07	439892.6	3759793.5	189.2	3.66	5.58	2.89	YES	
L0042760	0	0.89490E-07	439892.4	3759781.5	189.1	3.66	5.58	2.89	YES	
L0042761	0	0.89490E-07	439892.3	3759769.5	189.0	3.66	5.58	2.89	YES	
L0042762	0	0.89490E-07	439892.2	3759757.5	188.9	3.66	5.58	2.89	YES	
L0042763	0	0.89490E-07	439892.0	3759745.5	188.8	3.66	5.58	2.89	YES	
L0042764	0	0.89490E-07	439891.9	3759733.5	188.7	3.66	5.58	2.89	YES	
L0042765	0	0.89490E-07	439891.8	3759721.5	188.6	3.66	5.58	2.89	YES	
L0042766	0	0.89490E-07	439891.7	3759709.5	188.5	3.66	5.58	2.89	YES	
L0042767	0	0.89490E-07	439891.5	3759697.5	188.4	3.66	5.58			

2.89 YES							
L0042768	0	0.89490E-07	439891.4	3759685.5	188.3	3.66	5.58
2.89 YES							
L0042769	0	0.89490E-07	439891.3	3759673.5	188.2	3.66	5.58
2.89 YES							
L0042770	0	0.89490E-07	439891.2	3759661.5	188.1	3.66	5.58
2.89 YES							
L0042771	0	0.89490E-07	439891.0	3759649.5	188.0	3.66	5.58
2.89 YES							
L0042772	0	0.89490E-07	439890.9	3759637.5	187.9	3.66	5.58
2.89 YES							
L0042773	0	0.89490E-07	439890.8	3759625.5	187.8	3.66	5.58
2.89 YES							
L0042774	0	0.89490E-07	439890.7	3759613.5	187.6	3.66	5.58
2.89 YES							
L0042775	0	0.89490E-07	439890.5	3759601.5	187.5	3.66	5.58
2.89 YES							
L0042776	0	0.89490E-07	439890.4	3759589.5	187.4	3.66	5.58
2.89 YES							
L0042777	0	0.89490E-07	439890.3	3759577.5	187.4	3.66	5.58
2.89 YES							
L0042778	0	0.89490E-07	439890.2	3759565.5	187.2	3.66	5.58
2.89 YES							
L0042779	0	0.89490E-07	439890.0	3759553.5	187.2	3.66	5.58
2.89 YES							
L0042780	0	0.89490E-07	439889.9	3759541.5	187.1	3.66	5.58
2.89 YES							
L0042781	0	0.89490E-07	439889.8	3759529.5	187.0	3.66	5.58
2.89 YES							
L0016324	0	0.37090E-07	439900.9	3760465.5	193.7	3.66	2.33
2.89 YES							
L0016325	0	0.37090E-07	439905.9	3760465.4	193.7	3.66	2.33
2.89 YES							
L0016326	0	0.37090E-07	439910.9	3760465.3	193.7	3.66	2.33
2.89 YES							
L0016327	0	0.37090E-07	439915.9	3760465.3	193.7	3.66	2.33
2.89 YES							
L0016328	0	0.37090E-07	439920.9	3760465.2	193.7	3.66	2.33
2.89 YES							
L0016329	0	0.37090E-07	439925.9	3760465.2	193.7	3.66	2.33
2.89 YES							
L0016330	0	0.37090E-07	439930.9	3760465.1	193.7	3.66	2.33
2.89 YES							
L0016331	0	0.37090E-07	439935.9	3760465.0	193.7	3.66	2.33
2.89 YES							
L0016332	0	0.37090E-07	439940.9	3760465.0	193.6	3.66	2.33
2.89 YES							
L0016333	0	0.37090E-07	439945.9	3760465.0	193.6	3.66	2.33

```
2.89     YES
 L0016334         0   0.37090E-07  439950.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016335         0   0.37090E-07  439955.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016336         0   0.37090E-07  439960.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016337         0   0.37090E-07  439965.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016338         0   0.37090E-07  439970.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016339         0   0.37090E-07  439975.9 3760465.0   193.6     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0016340         0   0.37090E-07  439980.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016341         0   0.37090E-07  439985.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016342         0   0.37090E-07  439990.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016343         0   0.37090E-07  439995.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016344         0   0.37090E-07  440000.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016345         0   0.37090E-07  440005.9 3760465.0   193.6     3.66     2.33
2.89     YES
 L0016346         0   0.37090E-07  440010.9 3760465.1   193.6     3.66     2.33
2.89     YES
 L0016347         0   0.37090E-07  440015.9 3760465.1   193.6     3.66     2.33
```

2.89 YES							
L0016348	0	0.37090E-07	440020.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016349	0	0.37090E-07	440025.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016350	0	0.37090E-07	440030.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016351	0	0.37090E-07	440035.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016352	0	0.37090E-07	440040.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016353	0	0.37090E-07	440045.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016354	0	0.37090E-07	440050.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016355	0	0.37090E-07	440055.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016356	0	0.37090E-07	440060.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016357	0	0.37090E-07	440065.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016358	0	0.37090E-07	440070.9	3760465.1	193.6	3.66	2.33
2.89 YES							
L0016359	0	0.37090E-07	440075.9	3760465.1	193.7	3.66	2.33
2.89 YES							
L0016360	0	0.37090E-07	440080.9	3760465.1	193.7	3.66	2.33
2.89 YES							
L0016361	0	0.37090E-07	440085.9	3760465.1	193.7	3.66	2.33
2.89 YES							
L0016362	0	0.37090E-07	440090.9	3760465.1	193.7	3.66	2.33
2.89 YES							
L0016363	0	0.37090E-07	440095.9	3760465.2	193.7	3.66	2.33
2.89 YES							
L0016364	0	0.37090E-07	440100.9	3760465.2	193.7	3.66	2.33
2.89 YES							
L0016365	0	0.37090E-07	440105.9	3760465.2	193.7	3.66	2.33
2.89 YES							
L0016366	0	0.37090E-07	440110.9	3760465.2	193.7	3.66	2.33
2.89 YES							
L0016367	0	0.37090E-07	440115.9	3760465.3	193.7	3.66	2.33
2.89 YES							
L0016368	0	0.37090E-07	440120.9	3760465.3	193.7	3.66	2.33
2.89 YES							
L0016369	0	0.37090E-07	440125.9	3760465.3	193.7	3.66	2.33
2.89 YES							
L0016370	0	0.37090E-07	440130.9	3760465.3	193.8	3.66	2.33
2.89 YES							
L0016371	0	0.37090E-07	440135.9	3760465.3	193.8	3.66	2.33

2.89 YES
L0016372 0 0.37090E-07 440140.9 3760465.4 193.8 3.66 2.33
2.89 YES
L0016373 0 0.37090E-07 440145.9 3760465.4 193.8 3.66 2.33
2.89 YES
L0016374 0 0.37090E-07 440150.9 3760465.4 193.9 3.66 2.33
2.89 YES
L0016375 0 0.37090E-07 440155.9 3760465.4 193.9 3.66 2.33
2.89 YES
L0016376 0 0.37090E-07 440160.9 3760465.5 193.9 3.66 2.33
2.89 YES
L0016377 0 0.37090E-07 440165.9 3760465.5 193.9 3.66 2.33
2.89 YES
L0016378 0 0.37090E-07 440170.9 3760465.5 194.0 3.66 2.33
2.89 YES
L0016379 0 0.37090E-07 440175.9 3760465.5 194.0 3.66 2.33
2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0016380	0	0.37090E-07	440180.9	3760465.6	194.0	3.66	2.33	2.89	YES	
L0016381	0	0.37090E-07	440185.9	3760465.6	194.1	3.66	2.33	2.89	YES	
L0016382	0	0.37090E-07	440190.9	3760465.6	194.1	3.66	2.33	2.89	YES	
L0016383	0	0.37090E-07	440195.9	3760465.6	194.1	3.66	2.33	2.89	YES	
L0016384	0	0.37090E-07	440200.9	3760465.7	194.1	3.66	2.33	2.89	YES	
L0016385	0	0.37090E-07	440205.9	3760465.7	194.1	3.66	2.33			

2.89	YES							
L0016386		0	0.37090E-07	440210.9	3760465.7	194.2	3.66	2.33
2.89	YES							
L0016387		0	0.37090E-07	440215.9	3760465.7	194.2	3.66	2.33
2.89	YES							
L0016388		0	0.37090E-07	440220.9	3760465.8	194.2	3.66	2.33
2.89	YES							
L0016389		0	0.37090E-07	440225.9	3760465.8	194.2	3.66	2.33
2.89	YES							
L0016390		0	0.37090E-07	440230.9	3760465.8	194.2	3.66	2.33
2.89	YES							
L0016391		0	0.37090E-07	440235.9	3760465.8	194.3	3.66	2.33
2.89	YES							
L0016392		0	0.37090E-07	440240.9	3760465.9	194.3	3.66	2.33
2.89	YES							
L0016393		0	0.37090E-07	440245.9	3760465.9	194.3	3.66	2.33
2.89	YES							
L0016394		0	0.37090E-07	440250.9	3760465.9	194.4	3.66	2.33
2.89	YES							
L0016395		0	0.37090E-07	440255.9	3760465.9	194.4	3.66	2.33
2.89	YES							
L0016396		0	0.37090E-07	440260.9	3760466.0	194.4	3.66	2.33
2.89	YES							
L0016397		0	0.37090E-07	440265.9	3760466.0	194.5	3.66	2.33
2.89	YES							
L0016398		0	0.37090E-07	440270.9	3760466.0	194.5	3.66	2.33
2.89	YES							
L0016399		0	0.37090E-07	440275.9	3760466.0	194.5	3.66	2.33
2.89	YES							
L0016400		0	0.37090E-07	440280.9	3760466.1	194.6	3.66	2.33
2.89	YES							
L0016401		0	0.37090E-07	440285.9	3760466.1	194.6	3.66	2.33
2.89	YES							
L0016402		0	0.37090E-07	440290.9	3760466.1	194.6	3.66	2.33
2.89	YES							
L0016403		0	0.37090E-07	440295.9	3760466.1	194.6	3.66	2.33
2.89	YES							
L0016404		0	0.37090E-07	440300.9	3760466.2	194.6	3.66	2.33
2.89	YES							
L0016405		0	0.37090E-07	440305.9	3760466.2	194.6	3.66	2.33
2.89	YES							
L0016406		0	0.37090E-07	440310.9	3760466.2	194.7	3.66	2.33
2.89	YES							
L0016407		0	0.37090E-07	440315.9	3760466.2	194.7	3.66	2.33
2.89	YES							
L0016408		0	0.37090E-07	440320.9	3760466.3	194.7	3.66	2.33
2.89	YES							
L0016409		0	0.37090E-07	440325.9	3760466.3	194.7	3.66	2.33

```
2.89     YES
 L0016410         0   0.37090E-07  440330.9 3760466.3   194.7     3.66     2.33
2.89     YES
 L0016411         0   0.37090E-07  440335.9 3760466.3   194.8     3.66     2.33
2.89     YES
 L0016412         0   0.37090E-07  440340.9 3760466.3   194.8     3.66     2.33
2.89     YES
 L0016413         0   0.37090E-07  440345.9 3760466.4   194.8     3.66     2.33
2.89     YES
 L0016414         0   0.37090E-07  440350.9 3760466.4   194.8     3.66     2.33
2.89     YES
 L0016415         0   0.37090E-07  440355.9 3760466.4   194.8     3.66     2.33
2.89     YES
 L0016416         0   0.37090E-07  440360.9 3760466.4   194.9     3.66     2.33
2.89     YES
 L0016417         0   0.37090E-07  440365.9 3760466.5   194.9     3.66     2.33
2.89     YES
 L0016418         0   0.37090E-07  440370.9 3760466.5   195.0     3.66     2.33
2.89     YES
 L0016419         0   0.37090E-07  440375.9 3760466.5   195.1     3.66     2.33
2.89     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE VARY BY
L0016420	0	0.37090E-07	440380.9	3760466.5	195.1	3.66	2.33	2.89	YES	
L0016421	0	0.37090E-07	440385.9	3760466.6	195.2	3.66	2.33	2.89	YES	
L0016422	0	0.37090E-07	440390.9	3760466.6	195.2	3.66	2.33	2.89	YES	
L0016423	0	0.37090E-07	440395.9	3760466.6	195.2	3.66	2.33			

2.89 YES							
L0016424	0	0.37090E-07	440400.9	3760466.6	195.2	3.66	2.33
2.89 YES							
L0016425	0	0.37090E-07	440405.9	3760466.7	195.3	3.66	2.33
2.89 YES							
L0016426	0	0.37090E-07	440410.9	3760466.7	195.3	3.66	2.33
2.89 YES							
L0016427	0	0.37090E-07	440415.9	3760466.7	195.2	3.66	2.33
2.89 YES							
L0016428	0	0.37090E-07	440420.9	3760466.7	195.2	3.66	2.33
2.89 YES							
L0016429	0	0.37090E-07	440425.9	3760466.8	195.2	3.66	2.33
2.89 YES							
L0016430	0	0.37090E-07	440430.9	3760466.8	195.1	3.66	2.33
2.89 YES							
L0016431	0	0.37090E-07	440435.9	3760466.8	195.1	3.66	2.33
2.89 YES							
L0016432	0	0.37090E-07	440440.9	3760466.8	195.1	3.66	2.33
2.89 YES							
L0016433	0	0.37090E-07	440445.9	3760466.8	195.1	3.66	2.33
2.89 YES							
L0016434	0	0.37090E-07	440450.9	3760466.9	195.1	3.66	2.33
2.89 YES							
L0016435	0	0.37090E-07	440455.9	3760466.9	195.1	3.66	2.33
2.89 YES							
L0016436	0	0.37090E-07	440460.9	3760466.9	195.1	3.66	2.33
2.89 YES							
L0016437	0	0.37090E-07	440465.9	3760466.9	195.1	3.66	2.33
2.89 YES							
L0016438	0	0.37090E-07	440470.9	3760467.0	195.1	3.66	2.33
2.89 YES							
L0016439	0	0.37090E-07	440475.9	3760467.0	195.2	3.66	2.33
2.89 YES							
L0016440	0	0.37090E-07	440480.9	3760467.0	195.2	3.66	2.33
2.89 YES							
L0016441	0	0.37090E-07	440485.9	3760467.0	195.2	3.66	2.33
2.89 YES							
L0016442	0	0.37090E-07	440490.9	3760467.1	195.2	3.66	2.33
2.89 YES							
L0016443	0	0.37090E-07	440495.9	3760467.1	195.2	3.66	2.33
2.89 YES							
L0016444	0	0.37090E-07	440500.9	3760467.1	195.2	3.66	2.33
2.89 YES							
L0016445	0	0.37090E-07	440505.9	3760467.1	195.2	3.66	2.33
2.89 YES							
L0016446	0	0.37090E-07	440510.9	3760467.1	195.2	3.66	2.33
2.89 YES							
L0016447	0	0.37090E-07	440515.9	3760467.1	195.2	3.66	2.33

```
2.89     YES
 L0016448         0   0.37090E-07  440520.9 3760467.1   195.3     3.66     2.33
2.89     YES
 L0016449         0   0.37090E-07  440525.9 3760467.1   195.3     3.66     2.33
2.89     YES
 L0016450         0   0.37090E-07  440530.9 3760467.1   195.3     3.66     2.33
2.89     YES
 L0016451         0   0.37090E-07  440535.9 3760467.1   195.3     3.66     2.33
2.89     YES
 L0016452         0   0.37090E-07  440540.9 3760467.1   195.3     3.66     2.33
2.89     YES
 L0016453         0   0.37090E-07  440545.9 3760467.1   195.3     3.66     2.33
2.89     YES
 L0016454         0   0.37090E-07  440550.9 3760467.1   195.4     3.66     2.33
2.89     YES
 L0016455         0   0.37090E-07  440555.9 3760467.1   195.4     3.66     2.33
2.89     YES
 L0016456         0   0.37090E-07  440560.9 3760467.1   195.4     3.66     2.33
2.89     YES
 L0016457         0   0.37090E-07  440565.9 3760467.1   195.4     3.66     2.33
2.89     YES
 L0016458         0   0.37090E-07  440570.9 3760467.1   195.4     3.66     2.33
2.89     YES
 L0016459         0   0.37090E-07  440575.9 3760467.1   195.4     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        15:14:46

                                   PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0016460         0   0.37090E-07  440580.9 3760467.1   195.5     3.66     2.33
2.89     YES
 L0016461         0   0.37090E-07  440585.9 3760467.1   195.5     3.66     2.33
```

2.89 YES							
L0016462	0	0.37090E-07	440590.9	3760467.1	195.5	3.66	2.33
2.89 YES							
L0016463	0	0.37090E-07	440595.9	3760467.1	195.5	3.66	2.33
2.89 YES							
L0016464	0	0.37090E-07	440600.9	3760467.1	195.5	3.66	2.33
2.89 YES							
L0016465	0	0.37090E-07	440605.9	3760467.1	195.5	3.66	2.33
2.89 YES							
L0016466	0	0.37090E-07	440610.9	3760467.1	195.6	3.66	2.33
2.89 YES							
L0016467	0	0.37090E-07	440615.9	3760467.1	195.6	3.66	2.33
2.89 YES							
L0016468	0	0.37090E-07	440620.9	3760467.1	195.6	3.66	2.33
2.89 YES							
L0016469	0	0.37090E-07	440625.9	3760467.1	195.6	3.66	2.33
2.89 YES							
L0016470	0	0.37090E-07	440630.9	3760467.1	195.6	3.66	2.33
2.89 YES							
L0016471	0	0.37090E-07	440635.9	3760467.1	195.6	3.66	2.33
2.89 YES							
L0016472	0	0.37090E-07	440640.9	3760467.1	195.6	3.66	2.33
2.89 YES							
L0016473	0	0.37090E-07	440645.9	3760467.1	195.7	3.66	2.33
2.89 YES							
L0016474	0	0.37090E-07	440650.9	3760467.1	195.7	3.66	2.33
2.89 YES							
L0016475	0	0.37090E-07	440655.9	3760467.1	195.7	3.66	2.33
2.89 YES							
L0016476	0	0.37090E-07	440660.9	3760467.1	195.7	3.66	2.33
2.89 YES							
L0016477	0	0.37090E-07	440665.9	3760467.1	195.7	3.66	2.33
2.89 YES							
L0016478	0	0.37090E-07	440670.9	3760467.1	195.8	3.66	2.33
2.89 YES							
L0016479	0	0.37090E-07	440675.9	3760467.1	195.8	3.66	2.33
2.89 YES							
L0016480	0	0.37090E-07	440680.9	3760467.1	195.8	3.66	2.33
2.89 YES							
L0016481	0	0.37090E-07	440685.9	3760467.1	195.8	3.66	2.33
2.89 YES							
L0016482	0	0.37090E-07	440690.9	3760467.1	195.9	3.66	2.33
2.89 YES							
L0016483	0	0.37090E-07	440695.9	3760467.1	195.9	3.66	2.33
2.89 YES							
L0016484	0	0.37090E-07	440700.9	3760467.1	195.9	3.66	2.33
2.89 YES							
L0016485	0	0.37090E-07	440705.9	3760467.1	195.9	3.66	2.33

2.89 YES
L0016486 0 0.37090E-07 440710.9 3760467.1 196.0 3.66 2.33
2.89 YES
L0016487 0 0.37090E-07 440715.9 3760467.1 196.0 3.66 2.33
2.89 YES
L0016488 0 0.37090E-07 440720.9 3760467.1 196.0 3.66 2.33
2.89 YES
L0016489 0 0.37090E-07 440725.9 3760467.1 196.1 3.66 2.33
2.89 YES
L0016490 0 0.37090E-07 440730.9 3760467.1 196.1 3.66 2.33
2.89 YES
L0016491 0 0.37090E-07 440735.9 3760467.1 196.1 3.66 2.33
2.89 YES
L0016492 0 0.37090E-07 440740.9 3760467.1 196.2 3.66 2.33
2.89 YES
L0016493 0 0.37090E-07 440745.9 3760467.1 196.2 3.66 2.33
2.89 YES
L0016494 0 0.37090E-07 440750.9 3760467.1 196.3 3.66 2.33
2.89 YES
L0016495 0 0.37090E-07 440755.9 3760467.1 196.4 3.66 2.33
2.89 YES
L0016496 0 0.37090E-07 440760.9 3760467.1 196.5 3.66 2.33
2.89 YES
L0016497 0 0.37090E-07 440765.9 3760467.1 196.5 3.66 2.33
2.89 YES
L0016498 0 0.37090E-07 440770.9 3760467.1 196.6 3.66 2.33
2.89 YES
L0016499 0 0.37090E-07 440775.9 3760467.1 196.6 3.66 2.33
2.89 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0016500	0	0.37090E-07	440780.9	3760467.1	196.7	3.66	2.33	2.89 YES
L0016501	0	0.37090E-07	440785.9	3760467.0	196.7	3.66	2.33	2.89 YES
L0016502	0	0.37090E-07	440790.9	3760467.0	196.7	3.66	2.33	2.89 YES
L0016503	0	0.37090E-07	440795.9	3760466.9	196.7	3.66	2.33	2.89 YES
L0016504	0	0.37090E-07	440800.9	3760466.9	196.7	3.66	2.33	2.89 YES
L0016505	0	0.37090E-07	440805.9	3760466.9	196.7	3.66	2.33	2.89 YES
L0016506	0	0.37090E-07	440810.9	3760466.8	196.7	3.66	2.33	2.89 YES
L0016507	0	0.37090E-07	440815.9	3760466.8	196.7	3.66	2.33	2.89 YES
L0016508	0	0.37090E-07	440820.9	3760466.7	196.6	3.66	2.33	2.89 YES
L0016509	0	0.37090E-07	440825.9	3760466.7	196.7	3.66	2.33	2.89 YES
L0016510	0	0.37090E-07	440830.9	3760466.7	196.7	3.66	2.33	2.89 YES
L0016511	0	0.37090E-07	440835.9	3760466.6	196.7	3.66	2.33	2.89 YES
L0016512	0	0.37090E-07	440840.9	3760466.6	196.8	3.66	2.33	2.89 YES
L0016513	0	0.37090E-07	440845.9	3760466.5	196.8	3.66	2.33	2.89 YES
L0016514	0	0.37090E-07	440850.9	3760466.5	196.8	3.66	2.33	2.89 YES
L0016515	0	0.37090E-07	440855.9	3760466.5	196.9	3.66	2.33	2.89 YES
L0016516	0	0.37090E-07	440860.9	3760466.4	196.9	3.66	2.33	2.89 YES
L0016517	0	0.37090E-07	440865.9	3760466.4	196.9	3.66	2.33	2.89 YES
L0016518	0	0.37090E-07	440870.9	3760466.4	197.0	3.66	2.33	2.89 YES
L0016519	0	0.37090E-07	440875.9	3760466.3	197.0	3.66	2.33	2.89 YES
L0016520	0	0.37090E-07	440880.9	3760466.3	197.1	3.66	2.33	2.89 YES
L0016521	0	0.37090E-07	440885.9	3760466.2	197.1	3.66	2.33	2.89 YES
L0016522	0	0.37090E-07	440890.9	3760466.2	197.2	3.66	2.33	2.89 YES
L0016523	0	0.37090E-07	440895.9	3760466.2	197.2	3.66	2.33	

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2.89     YES
 L0016524         0   0.37090E-07  440900.9 3760466.1   197.3     3.66     2.33
2.89     YES
 L0016525         0   0.37090E-07  440905.9 3760466.1   197.3     3.66     2.33
2.89     YES
 L0016526         0   0.37090E-07  440910.9 3760466.0   197.4     3.66     2.33
2.89     YES
 L0016527         0   0.37090E-07  440915.9 3760466.0   197.4     3.66     2.33
2.89     YES
 L0016528         0   0.37090E-07  440920.9 3760466.0   197.5     3.66     2.33
2.89     YES
 L0016529         0   0.37090E-07  440925.9 3760466.0   197.5     3.66     2.33
2.89     YES
 L0016530         0   0.37090E-07  440930.9 3760466.0   197.5     3.66     2.33
2.89     YES
 L0016531         0   0.37090E-07  440935.9 3760466.0   197.5     3.66     2.33
2.89     YES
 L0016532         0   0.37090E-07  440940.9 3760466.1   197.5     3.66     2.33
2.89     YES
 L0016533         0   0.37090E-07  440945.9 3760466.1   197.6     3.66     2.33
2.89     YES
 L0016534         0   0.37090E-07  440950.9 3760466.1   197.6     3.66     2.33
2.89     YES
 L0016535         0   0.37090E-07  440955.9 3760466.1   197.6     3.66     2.33
2.89     YES
 L0016536         0   0.37090E-07  440960.9 3760466.1   197.6     3.66     2.33
2.89     YES
 L0016537         0   0.37090E-07  440965.9 3760466.2   197.6     3.66     2.33
2.89     YES
 L0016538         0   0.37090E-07  440970.9 3760466.2   197.6     3.66     2.33
2.89     YES
 L0016539         0   0.37090E-07  440975.9 3760466.2   197.6     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
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ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0016540	0	0.37090E-07	440980.9	3760466.2	197.7	3.66	2.33	2.89 YES
L0016541	0	0.37090E-07	440985.9	3760466.3	197.7	3.66	2.33	2.89 YES
L0016542	0	0.37090E-07	440990.9	3760466.3	197.7	3.66	2.33	2.89 YES
L0016543	0	0.37090E-07	440995.9	3760466.3	197.7	3.66	2.33	2.89 YES
L0016544	0	0.37090E-07	441000.9	3760466.3	197.8	3.66	2.33	2.89 YES
L0016545	0	0.37090E-07	441005.9	3760466.4	197.8	3.66	2.33	2.89 YES
L0016546	0	0.37090E-07	441010.9	3760466.4	197.8	3.66	2.33	2.89 YES
L0016547	0	0.37090E-07	441015.9	3760466.4	197.9	3.66	2.33	2.89 YES
L0016548	0	0.37090E-07	441020.9	3760466.4	197.9	3.66	2.33	2.89 YES
L0016549	0	0.37090E-07	441025.9	3760466.4	197.9	3.66	2.33	2.89 YES
L0016550	0	0.37090E-07	441030.9	3760466.5	197.9	3.66	2.33	2.89 YES
L0016551	0	0.37090E-07	441035.9	3760466.5	198.0	3.66	2.33	2.89 YES
L0016552	0	0.37090E-07	441040.9	3760466.5	198.0	3.66	2.33	2.89 YES
L0016553	0	0.37090E-07	441045.9	3760466.5	198.0	3.66	2.33	2.89 YES
L0016554	0	0.37090E-07	441050.9	3760466.6	198.1	3.66	2.33	2.89 YES
L0016555	0	0.37090E-07	441055.9	3760466.6	198.1	3.66	2.33	2.89 YES
L0016556	0	0.37090E-07	441060.9	3760466.6	198.1	3.66	2.33	2.89 YES
L0016557	0	0.37090E-07	441065.9	3760466.6	198.2	3.66	2.33	2.89 YES
L0016558	0	0.37090E-07	441070.9	3760466.7	198.2	3.66	2.33	2.89 YES
L0016559	0	0.37090E-07	441075.9	3760466.7	198.2	3.66	2.33	2.89 YES
L0016560	0	0.37090E-07	441080.9	3760466.7	198.3	3.66	2.33	2.89 YES
L0016561	0	0.37090E-07	441085.9	3760466.7	198.3	3.66	2.33	

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2.89     YES
 L0016562         0   0.37090E-07  441090.9 3760466.8   198.4     3.66     2.33
2.89     YES
 L0016563         0   0.37090E-07  441095.9 3760466.8   198.4     3.66     2.33
2.89     YES
 L0016564         0   0.37090E-07  441100.9 3760466.8   198.4     3.66     2.33
2.89     YES
 L0016565         0   0.37090E-07  441105.9 3760466.8   198.5     3.66     2.33
2.89     YES
 L0016566         0   0.37090E-07  441110.9 3760466.8   198.5     3.66     2.33
2.89     YES
 L0016567         0   0.37090E-07  441115.9 3760466.9   198.5     3.66     2.33
2.89     YES
 L0016568         0   0.37090E-07  441120.9 3760466.9   198.5     3.66     2.33
2.89     YES
 L0016569         0   0.37090E-07  441125.9 3760466.9   198.5     3.66     2.33
2.89     YES
 L0016570         0   0.37090E-07  441130.9 3760466.9   198.5     3.66     2.33
2.89     YES
 L0016571         0   0.37090E-07  441135.9 3760466.9   198.5     3.66     2.33
2.89     YES
 L0016572         0   0.37090E-07  441140.9 3760466.9   198.5     3.66     2.33
2.89     YES
 L0016573         0   0.37090E-07  441145.9 3760466.8   198.6     3.66     2.33
2.89     YES
 L0016574         0   0.37090E-07  441150.9 3760466.7   198.6     3.66     2.33
2.89     YES
 L0016575         0   0.37090E-07  441155.9 3760466.7   198.6     3.66     2.33
2.89     YES
 L0016576         0   0.37090E-07  441160.9 3760466.6   198.6     3.66     2.33
2.89     YES
 L0016577         0   0.37090E-07  441165.9 3760466.6   198.6     3.66     2.33
2.89     YES
 L0016578         0   0.37090E-07  441170.9 3760466.5   198.6     3.66     2.33
2.89     YES
 L0016579         0   0.37090E-07  441175.9 3760466.5   198.6     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                         ***       15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE
L0016580	0	0.37090E-07	441180.9	3760466.4	198.6	3.66	2.33	2.89	YES	
L0016581	0	0.37090E-07	441185.9	3760466.3	198.7	3.66	2.33	2.89	YES	
L0064036	0	0.37040E-07	441996.7	3760466.5	199.9	3.66	2.33	2.89	YES	
L0064037	0	0.37040E-07	442001.7	3760466.5	199.8	3.66	2.33	2.89	YES	
L0064038	0	0.37040E-07	442006.7	3760466.6	199.9	3.66	2.33	2.89	YES	
L0064039	0	0.37040E-07	442011.7	3760466.6	200.0	3.66	2.33	2.89	YES	
L0064040	0	0.37040E-07	442016.7	3760466.6	200.1	3.66	2.33	2.89	YES	
L0064041	0	0.37040E-07	442021.7	3760466.6	200.2	3.66	2.33	2.89	YES	
L0064042	0	0.37040E-07	442026.7	3760466.6	200.3	3.66	2.33	2.89	YES	
L0064043	0	0.37040E-07	442031.7	3760466.6	200.3	3.66	2.33	2.89	YES	
L0064044	0	0.37040E-07	442036.7	3760466.6	200.3	3.66	2.33	2.89	YES	
L0064045	0	0.37040E-07	442041.7	3760466.6	200.3	3.66	2.33	2.89	YES	
L0064046	0	0.37040E-07	442046.7	3760466.7	200.3	3.66	2.33	2.89	YES	
L0064047	0	0.37040E-07	442051.7	3760466.7	200.4	3.66	2.33	2.89	YES	
L0064048	0	0.37040E-07	442056.7	3760466.7	200.4	3.66	2.33	2.89	YES	
L0064049	0	0.37040E-07	442061.7	3760466.7	200.4	3.66	2.33	2.89	YES	
L0064050	0	0.37040E-07	442066.7	3760466.7	200.4	3.66	2.33	2.89	YES	
L0064051	0	0.37040E-07	442071.7	3760466.7	200.4	3.66	2.33	2.89	YES	
L0064052	0	0.37040E-07	442076.7	3760466.7	200.4	3.66	2.33	2.89	YES	
L0064053	0	0.37040E-07	442081.7	3760466.7	200.4	3.66	2.33			

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2.89     YES
 L0064054         0   0.37040E-07  442086.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0064055         0   0.37040E-07  442091.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0064056         0   0.37040E-07  442096.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0064057         0   0.37040E-07  442101.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0064058         0   0.37040E-07  442106.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0064059         0   0.37040E-07  442111.7 3760466.8   200.3     3.66     2.33
2.89     YES
 L0064060         0   0.37040E-07  442116.7 3760466.8   200.3     3.66     2.33
2.89     YES
 L0064061         0   0.37040E-07  442121.7 3760466.8   200.3     3.66     2.33
2.89     YES
 L0064062         0   0.37040E-07  442126.7 3760466.9   200.3     3.66     2.33
2.89     YES
 L0064063         0   0.37040E-07  442131.7 3760466.9   200.3     3.66     2.33
2.89     YES
 L0064064         0   0.37040E-07  442136.7 3760466.9   200.3     3.66     2.33
2.89     YES
 L0064065         0   0.37040E-07  442141.7 3760466.9   200.3     3.66     2.33
2.89     YES
 L0064066         0   0.37040E-07  442146.7 3760466.9   200.3     3.66     2.33
2.89     YES
 L0064067         0   0.37040E-07  442151.7 3760466.9   200.4     3.66     2.33
2.89     YES
 L0064068         0   0.37040E-07  442156.7 3760466.9   200.4     3.66     2.33
2.89     YES
 L0064069         0   0.37040E-07  442161.7 3760466.9   200.4     3.66     2.33
2.89     YES
 L0064070         0   0.37040E-07  442166.7 3760467.0   200.4     3.66     2.33
2.89     YES
 L0064071         0   0.37040E-07  442171.7 3760467.0   200.4     3.66     2.33
2.89     YES
 L0064072         0   0.37040E-07  442176.7 3760467.0   200.4     3.66     2.33
2.89     YES
 L0064073         0   0.37040E-07  442181.7 3760467.0   200.4     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0064074	0	0.37040E-07	442186.7	3760467.0	200.4	3.66	2.33	2.89	YES
L0064075	0	0.37040E-07	442191.7	3760467.0	200.4	3.66	2.33	2.89	YES
L0064076	0	0.37040E-07	442196.7	3760467.0	200.4	3.66	2.33	2.89	YES
L0064077	0	0.37040E-07	442201.7	3760467.0	200.4	3.66	2.33	2.89	YES
L0064078	0	0.37040E-07	442206.7	3760467.1	200.4	3.66	2.33	2.89	YES
L0064079	0	0.37040E-07	442211.7	3760467.1	200.4	3.66	2.33	2.89	YES
L0064080	0	0.37040E-07	442216.7	3760467.1	200.4	3.66	2.33	2.89	YES
L0064081	0	0.37040E-07	442221.7	3760467.1	200.4	3.66	2.33	2.89	YES
L0064082	0	0.37040E-07	442226.7	3760467.1	200.4	3.66	2.33	2.89	YES
L0064083	0	0.37040E-07	442231.7	3760467.1	200.4	3.66	2.33	2.89	YES
L0064084	0	0.37040E-07	442236.7	3760467.1	200.5	3.66	2.33	2.89	YES
L0064085	0	0.37040E-07	442241.7	3760467.1	200.5	3.66	2.33	2.89	YES
L0064086	0	0.37040E-07	442246.7	3760467.2	200.5	3.66	2.33	2.89	YES
L0064087	0	0.37040E-07	442251.7	3760467.2	200.5	3.66	2.33	2.89	YES
L0064088	0	0.37040E-07	442256.7	3760467.2	200.5	3.66	2.33	2.89	YES
L0064089	0	0.37040E-07	442261.7	3760467.2	200.6	3.66	2.33	2.89	YES
L0064090	0	0.37040E-07	442266.7	3760467.2	200.6	3.66	2.33	2.89	YES
L0064091	0	0.37040E-07	442271.7	3760467.2	200.6	3.66	2.33		

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2.89     YES
 L0064092         0   0.37040E-07  442276.7 3760467.2   200.6     3.66     2.33
2.89     YES
 L0064093         0   0.37040E-07  442281.7 3760467.2   200.6     3.66     2.33
2.89     YES
 L0064094         0   0.37040E-07  442286.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0064095         0   0.37040E-07  442291.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0064096         0   0.37040E-07  442296.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0064097         0   0.37040E-07  442301.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0064098         0   0.37040E-07  442306.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0064099         0   0.37040E-07  442311.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0064100         0   0.37040E-07  442316.7 3760467.3   200.8     3.66     2.33
2.89     YES
 L0064101         0   0.37040E-07  442321.7 3760467.3   200.8     3.66     2.33
2.89     YES
 L0064102         0   0.37040E-07  442326.7 3760467.4   200.8     3.66     2.33
2.89     YES
 L0064103         0   0.37040E-07  442331.7 3760467.4   200.9     3.66     2.33
2.89     YES
 L0064104         0   0.37040E-07  442336.7 3760467.4   200.9     3.66     2.33
2.89     YES
 L0064105         0   0.37040E-07  442341.7 3760467.4   200.9     3.66     2.33
2.89     YES
 L0064106         0   0.37040E-07  442346.7 3760467.5   200.9     3.66     2.33
2.89     YES
 L0064107         0   0.37040E-07  442351.7 3760467.6   201.0     3.66     2.33
2.89     YES
 L0064108         0   0.37040E-07  442356.7 3760467.7   201.0     3.66     2.33
2.89     YES
 L0064109         0   0.37040E-07  442361.7 3760467.7   201.0     3.66     2.33
2.89     YES
 L0064110         0   0.37040E-07  442366.7 3760467.8   201.0     3.66     2.33
2.89     YES
 L0064111         0   0.37040E-07  442371.7 3760467.9   201.0     3.66     2.33
2.89     YES
 L0064112         0   0.37040E-07  442376.7 3760468.0   201.0     3.66     2.33
2.89     YES
 L0064113         0   0.37040E-07  442381.7 3760468.1   201.0     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                           ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0064114	0	0.37040E-07	442386.7	3760468.1	201.0	3.66	2.33	2.89	YES	
L0064115	0	0.37040E-07	442391.7	3760468.2	201.0	3.66	2.33	2.89	YES	
L0064116	0	0.37040E-07	442396.7	3760468.3	201.0	3.66	2.33	2.89	YES	
L0064117	0	0.37040E-07	442401.7	3760468.4	201.1	3.66	2.33	2.89	YES	
L0064118	0	0.37040E-07	442406.7	3760468.4	201.1	3.66	2.33	2.89	YES	
L0064119	0	0.37040E-07	442411.7	3760468.5	201.1	3.66	2.33	2.89	YES	
L0064120	0	0.37040E-07	442416.7	3760468.6	201.1	3.66	2.33	2.89	YES	
L0064121	0	0.37040E-07	442421.7	3760468.7	201.1	3.66	2.33	2.89	YES	
L0064122	0	0.37040E-07	442426.7	3760468.7	201.2	3.66	2.33	2.89	YES	
L0064123	0	0.37040E-07	442431.7	3760468.8	201.2	3.66	2.33	2.89	YES	
L0064124	0	0.37040E-07	442436.7	3760468.9	201.2	3.66	2.33	2.89	YES	
L0064125	0	0.37040E-07	442441.7	3760469.0	201.2	3.66	2.33	2.89	YES	
L0064126	0	0.37040E-07	442446.7	3760469.0	201.2	3.66	2.33	2.89	YES	
L0064127	0	0.37040E-07	442451.7	3760469.1	201.2	3.66	2.33	2.89	YES	
L0064128	0	0.37040E-07	442456.7	3760469.2	201.2	3.66	2.33	2.89	YES	
L0064129	0	0.37040E-07	442461.7	3760469.3	201.2	3.66	2.33			

2.89 YES							
L0064130	0	0.37040E-07	442466.7	3760469.3	201.2	3.66	2.33
2.89 YES							
L0064131	0	0.37040E-07	442471.7	3760469.4	201.2	3.66	2.33
2.89 YES							
L0064132	0	0.37040E-07	442476.7	3760469.5	201.2	3.66	2.33
2.89 YES							
L0064133	0	0.37040E-07	442481.7	3760469.6	201.1	3.66	2.33
2.89 YES							
L0064134	0	0.37040E-07	442486.7	3760469.6	201.1	3.66	2.33
2.89 YES							
L0064135	0	0.37040E-07	442491.7	3760469.7	201.1	3.66	2.33
2.89 YES							
L0064136	0	0.37040E-07	442496.7	3760469.8	201.1	3.66	2.33
2.89 YES							
L0064137	0	0.37040E-07	442501.7	3760469.9	201.1	3.66	2.33
2.89 YES							
L0064138	0	0.37040E-07	442506.7	3760469.9	201.1	3.66	2.33
2.89 YES							
L0064139	0	0.37040E-07	442511.7	3760469.8	201.1	3.66	2.33
2.89 YES							
L0064140	0	0.37040E-07	442516.7	3760469.8	201.1	3.66	2.33
2.89 YES							
L0064141	0	0.37040E-07	442521.7	3760469.7	201.1	3.66	2.33
2.89 YES							
L0064142	0	0.37040E-07	442526.7	3760469.7	201.1	3.66	2.33
2.89 YES							
L0064143	0	0.37040E-07	442531.7	3760469.6	201.1	3.66	2.33
2.89 YES							
L0064144	0	0.37040E-07	442536.7	3760469.6	201.1	3.66	2.33
2.89 YES							
L0064145	0	0.37040E-07	442541.7	3760469.5	201.0	3.66	2.33
2.89 YES							
L0064146	0	0.37040E-07	442546.7	3760469.5	201.0	3.66	2.33
2.89 YES							
L0064147	0	0.37040E-07	442551.7	3760469.4	201.0	3.66	2.33
2.89 YES							
L0064148	0	0.37040E-07	442556.7	3760469.4	201.0	3.66	2.33
2.89 YES							
L0064149	0	0.37040E-07	442561.7	3760469.3	201.0	3.66	2.33
2.89 YES							
L0064150	0	0.37040E-07	442566.7	3760469.3	201.0	3.66	2.33
2.89 YES							
L0064151	0	0.37040E-07	442571.7	3760469.2	201.0	3.66	2.33
2.89 YES							
L0064152	0	0.37040E-07	442576.7	3760469.2	201.0	3.66	2.33
2.89 YES							
L0064153	0	0.37040E-07	442581.7	3760469.1	200.9	3.66	2.33

2.89 YES
↑ *** AERMOD - VERSION 19191 *** *** Construction
*** 03/08/21
*** AERMET - VERSION 16216 *** ***
*** 15:14:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0064154	0	0.37040E-07	442586.7	3760469.1	200.9	3.66	2.33	2.89	YES	
L0064155	0	0.37040E-07	442591.7	3760469.0	200.9	3.66	2.33	2.89	YES	
L0064156	0	0.37040E-07	442596.7	3760469.0	200.9	3.66	2.33	2.89	YES	
L0064157	0	0.37040E-07	442601.7	3760468.9	200.9	3.66	2.33	2.89	YES	
L0064158	0	0.37040E-07	442606.7	3760468.9	200.9	3.66	2.33	2.89	YES	
L0064159	0	0.37040E-07	442611.7	3760468.8	200.9	3.66	2.33	2.89	YES	
L0064160	0	0.37040E-07	442616.7	3760468.8	200.9	3.66	2.33	2.89	YES	
L0064161	0	0.37040E-07	442621.7	3760468.7	200.9	3.66	2.33	2.89	YES	
L0064162	0	0.37040E-07	442626.7	3760468.7	200.9	3.66	2.33	2.89	YES	
L0064163	0	0.37040E-07	442631.7	3760468.6	200.9	3.66	2.33	2.89	YES	
L0064164	0	0.37040E-07	442636.7	3760468.6	200.9	3.66	2.33	2.89	YES	
L0064165	0	0.37040E-07	442641.7	3760468.5	200.9	3.66	2.33	2.89	YES	
L0064166	0	0.37040E-07	442646.7	3760468.5	200.9	3.66	2.33	2.89	YES	
L0064167	0	0.37040E-07	442651.7	3760468.4	200.9	3.66	2.33			

2.89	YES							
L0064168		0	0.37040E-07	442656.7	3760468.4	200.9	3.66	2.33
2.89	YES							
L0064169		0	0.37040E-07	442661.7	3760468.3	200.9	3.66	2.33
2.89	YES							
L0064170		0	0.37040E-07	442666.7	3760468.3	200.9	3.66	2.33
2.89	YES							
L0064171		0	0.37040E-07	442671.7	3760468.2	200.9	3.66	2.33
2.89	YES							
L0064172		0	0.37040E-07	442676.7	3760468.2	200.8	3.66	2.33
2.89	YES							
L0064173		0	0.37040E-07	442681.7	3760468.1	200.8	3.66	2.33
2.89	YES							
L0064174		0	0.37040E-07	442686.7	3760468.1	200.8	3.66	2.33
2.89	YES							
L0064175		0	0.37040E-07	442691.7	3760468.0	200.8	3.66	2.33
2.89	YES							
L0064176		0	0.37040E-07	442696.7	3760468.0	200.8	3.66	2.33
2.89	YES							
L0064177		0	0.37040E-07	442701.7	3760467.9	200.8	3.66	2.33
2.89	YES							
L0064178		0	0.37040E-07	442706.7	3760467.9	200.8	3.66	2.33
2.89	YES							
L0064179		0	0.37040E-07	442711.7	3760467.8	200.8	3.66	2.33
2.89	YES							
L0064180		0	0.37040E-07	442716.7	3760467.8	200.8	3.66	2.33
2.89	YES							
L0064181		0	0.37040E-07	442721.7	3760467.7	200.8	3.66	2.33
2.89	YES							
L0064182		0	0.37040E-07	442726.7	3760467.7	200.9	3.66	2.33
2.89	YES							
L0064183		0	0.37040E-07	442731.7	3760467.6	200.9	3.66	2.33
2.89	YES							
L0064184		0	0.37040E-07	442736.7	3760467.6	200.9	3.66	2.33
2.89	YES							
L0064185		0	0.37040E-07	442741.7	3760467.5	200.9	3.66	2.33
2.89	YES							
L0064186		0	0.37040E-07	442746.7	3760467.5	200.9	3.66	2.33
2.89	YES							
L0064187		0	0.37040E-07	442751.7	3760467.4	200.9	3.66	2.33
2.89	YES							
L0064188		0	0.37040E-07	442756.7	3760467.4	200.9	3.66	2.33
2.89	YES							
L0064189		0	0.37040E-07	442761.7	3760467.3	200.9	3.66	2.33
2.89	YES							
L0064190		0	0.37040E-07	442766.7	3760467.3	200.8	3.66	2.33
2.89	YES							
L0064191		0	0.37040E-07	442771.7	3760467.2	200.8	3.66	2.33

2.89 YES
L0064192 0 0.37040E-07 442776.7 3760467.2 200.8 3.66 2.33
2.89 YES
L0064193 0 0.37040E-07 442781.7 3760467.1 200.8 3.66 2.33
2.89 YES
*** AERMOD - VERSION 19191 *** *** Construction
*** 03/08/21
*** AERMET - VERSION 16216 *** ***
*** 15:14:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0064194	0	0.37040E-07	442786.7	3760467.1	200.8	3.66	2.33	2.89	YES	
L0064195	0	0.37040E-07	442791.7	3760467.0	200.8	3.66	2.33	2.89	YES	
L0064196	0	0.37040E-07	442796.7	3760467.0	200.8	3.66	2.33	2.89	YES	
L0064197	0	0.37040E-07	442801.7	3760466.9	200.8	3.66	2.33	2.89	YES	
L0064198	0	0.37040E-07	442806.7	3760466.9	200.8	3.66	2.33	2.89	YES	
L0064199	0	0.37040E-07	442811.7	3760466.8	200.8	3.66	2.33	2.89	YES	
L0064200	0	0.37040E-07	442816.7	3760466.8	200.8	3.66	2.33	2.89	YES	
L0064201	0	0.37040E-07	442821.7	3760466.7	200.8	3.66	2.33	2.89	YES	
L0064202	0	0.37040E-07	442826.7	3760466.7	200.8	3.66	2.33	2.89	YES	
L0064203	0	0.37040E-07	442831.7	3760466.6	200.8	3.66	2.33	2.89	YES	
L0064204	0	0.37040E-07	442836.7	3760466.6	200.9	3.66	2.33	2.89	YES	
L0064205	0	0.37040E-07	442841.7	3760466.5	200.9	3.66	2.33			

2.89	YES							
L0064206		0	0.37040E-07	442846.7	3760466.5	200.9	3.66	2.33
2.89	YES							
L0064207		0	0.37040E-07	442851.7	3760466.4	200.9	3.66	2.33
2.89	YES							
L0064208		0	0.37040E-07	442856.7	3760466.4	201.0	3.66	2.33
2.89	YES							
L0064209		0	0.37040E-07	442861.7	3760466.4	201.0	3.66	2.33
2.89	YES							
L0064210		0	0.37040E-07	442866.7	3760466.4	201.0	3.66	2.33
2.89	YES							
L0064211		0	0.37040E-07	442871.7	3760466.3	201.0	3.66	2.33
2.89	YES							
L0064212		0	0.37040E-07	442876.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064213		0	0.37040E-07	442881.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064214		0	0.37040E-07	442886.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064215		0	0.37040E-07	442891.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064216		0	0.37040E-07	442896.7	3760466.3	201.1	3.66	2.33
2.89	YES							
L0064217		0	0.37040E-07	442901.7	3760466.2	201.1	3.66	2.33
2.89	YES							
L0064218		0	0.37040E-07	442906.7	3760466.2	201.1	3.66	2.33
2.89	YES							
L0064219		0	0.37040E-07	442911.7	3760466.2	201.2	3.66	2.33
2.89	YES							
L0064220		0	0.37040E-07	442916.7	3760466.2	201.2	3.66	2.33
2.89	YES							
L0064221		0	0.37040E-07	442921.7	3760466.2	201.2	3.66	2.33
2.89	YES							
L0064222		0	0.37040E-07	442926.7	3760466.1	201.2	3.66	2.33
2.89	YES							
L0064223		0	0.37040E-07	442931.7	3760466.1	201.2	3.66	2.33
2.89	YES							
L0064224		0	0.37040E-07	442936.7	3760466.1	201.3	3.66	2.33
2.89	YES							
L0064225		0	0.37040E-07	442941.7	3760466.1	201.3	3.66	2.33
2.89	YES							
L0064226		0	0.37040E-07	442946.7	3760466.1	201.3	3.66	2.33
2.89	YES							
L0064227		0	0.37040E-07	442951.7	3760466.1	201.3	3.66	2.33
2.89	YES							
L0064228		0	0.37040E-07	442956.7	3760466.0	201.4	3.66	2.33
2.89	YES							
L0064229		0	0.37040E-07	442961.7	3760466.0	201.4	3.66	2.33

```
2.89     YES
 L0064230         0   0.37040E-07  442966.7 3760466.0   201.4     3.66     2.33
2.89     YES
 L0064231         0   0.37040E-07  442971.7 3760466.0   201.4     3.66     2.33
2.89     YES
 L0064232         0   0.37040E-07  442976.7 3760466.0   201.4     3.66     2.33
2.89     YES
 L0064233         0   0.37040E-07  442981.7 3760466.0   201.5     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0064234         0   0.37040E-07  442986.7 3760466.0   201.6     3.66     2.33
2.89     YES
 L0064235         0   0.37040E-07  442991.7 3760466.0   201.6     3.66     2.33
2.89     YES
 L0064236         0   0.37040E-07  442996.7 3760466.0   201.7     3.66     2.33
2.89     YES
 L0064237         0   0.37040E-07  443001.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0064238         0   0.37040E-07  443006.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0064239         0   0.37040E-07  443011.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0064240         0   0.37040E-07  443016.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0064241         0   0.37040E-07  443021.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0064242         0   0.37040E-07  443026.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0064243         0   0.37040E-07  443031.7 3760466.0   201.8     3.66     2.33
```

2.89	YES							
L0064244		0	0.37040E-07	443036.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064245		0	0.37040E-07	443041.7	3760466.0	201.8	3.66	2.33
2.89	YES							
L0064246		0	0.37040E-07	443046.7	3760466.0	201.7	3.66	2.33
2.89	YES							
L0064247		0	0.37040E-07	443051.7	3760466.0	201.7	3.66	2.33
2.89	YES							
L0064248		0	0.37040E-07	443056.7	3760466.1	201.7	3.66	2.33
2.89	YES							
L0064249		0	0.37040E-07	443061.7	3760466.1	201.7	3.66	2.33
2.89	YES							
L0064250		0	0.37040E-07	443066.7	3760466.1	201.7	3.66	2.33
2.89	YES							
L0064251		0	0.37040E-07	443071.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064252		0	0.37040E-07	443076.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064253		0	0.37040E-07	443081.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064254		0	0.37040E-07	443086.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064255		0	0.37040E-07	443091.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064256		0	0.37040E-07	443096.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064257		0	0.37040E-07	443101.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064258		0	0.37040E-07	443106.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064259		0	0.37040E-07	443111.7	3760466.1	201.8	3.66	2.33
2.89	YES							
L0064260		0	0.37040E-07	443116.7	3760466.1	201.9	3.66	2.33
2.89	YES							
L0064261		0	0.37040E-07	443121.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0064262		0	0.37040E-07	443126.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0064263		0	0.37040E-07	443131.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0064264		0	0.37040E-07	443136.7	3760466.2	201.9	3.66	2.33
2.89	YES							
L0064265		0	0.37040E-07	443141.7	3760466.2	202.0	3.66	2.33
2.89	YES							
L0064266		0	0.37040E-07	443146.7	3760466.2	202.0	3.66	2.33
2.89	YES							
L0064267		0	0.37040E-07	443151.7	3760466.2	202.0	3.66	2.33

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2.89     YES
 L0064268         0   0.37040E-07  443156.7 3760466.2   202.0     3.66     2.33
2.89     YES
 L0064269         0   0.37040E-07  443161.7 3760466.2   202.1     3.66     2.33
2.89     YES
 L0064270         0   0.37040E-07  443166.7 3760466.2   202.1     3.66     2.33
2.89     YES
 L0064271         0   0.37040E-07  443171.7 3760466.2   202.2     3.66     2.33
2.89     YES
 L0064272         0   0.37040E-07  443176.7 3760466.2   202.2     3.66     2.33
2.89     YES
 L0064273         0   0.37040E-07  443181.7 3760466.2   202.3     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0064274         0   0.37040E-07  443186.7 3760466.2   202.3     3.66     2.33
2.89     YES
 L0064275         0   0.37040E-07  443191.7 3760466.3   202.4     3.66     2.33
2.89     YES
 L0064276         0   0.37040E-07  443196.7 3760466.3   202.5     3.66     2.33
2.89     YES
 L0064277         0   0.37040E-07  443201.7 3760466.3   202.6     3.66     2.33
2.89     YES
 L0064278         0   0.37040E-07  443206.7 3760466.3   202.7     3.66     2.33
2.89     YES
 L0064279         0   0.37040E-07  443211.7 3760466.3   202.7     3.66     2.33
2.89     YES
 L0064280         0   0.37040E-07  443216.7 3760466.3   202.7     3.66     2.33
2.89     YES
 L0064281         0   0.37040E-07  443221.7 3760466.3   202.7     3.66     2.33
```

2.89	YES							
L0064282		0	0.37040E-07	443226.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064283		0	0.37040E-07	443231.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064284		0	0.37040E-07	443236.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064285		0	0.37040E-07	443241.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064286		0	0.37040E-07	443246.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064287		0	0.37040E-07	443251.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064288		0	0.37040E-07	443256.7	3760466.3	202.8	3.66	2.33
2.89	YES							
L0064289		0	0.37040E-07	443261.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064290		0	0.37040E-07	443266.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064291		0	0.37040E-07	443271.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064292		0	0.37040E-07	443276.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064293		0	0.37040E-07	443281.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064294		0	0.37040E-07	443286.7	3760466.4	202.8	3.66	2.33
2.89	YES							
L0064295		0	0.37040E-07	443291.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064296		0	0.37040E-07	443296.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064297		0	0.37040E-07	443301.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064298		0	0.37040E-07	443306.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064299		0	0.37040E-07	443311.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064300		0	0.37040E-07	443316.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064301		0	0.37040E-07	443321.7	3760466.4	202.9	3.66	2.33
2.89	YES							
L0064302		0	0.37040E-07	443326.7	3760466.3	203.0	3.66	2.33
2.89	YES							
L0064303		0	0.37040E-07	443331.7	3760466.3	203.0	3.66	2.33
2.89	YES							
L0064304		0	0.37040E-07	443336.7	3760466.3	203.0	3.66	2.33
2.89	YES							
L0064305		0	0.37040E-07	443341.7	3760466.3	203.0	3.66	2.33

```
2.89     YES
 L0064306         0   0.37040E-07  443346.7 3760466.3   203.0     3.66     2.33
2.89     YES
 L0064307         0   0.37040E-07  443351.7 3760466.3   203.0     3.66     2.33
2.89     YES
 L0064308         0   0.37040E-07  443356.7 3760466.3   203.1     3.66     2.33
2.89     YES
 L0064309         0   0.37040E-07  443361.7 3760466.3   203.1     3.66     2.33
2.89     YES
 L0064310         0   0.37040E-07  443366.7 3760466.3   203.1     3.66     2.33
2.89     YES
 L0064311         0   0.37040E-07  443371.7 3760466.3   203.1     3.66     2.33
2.89     YES
 L0064312         0   0.37040E-07  443376.7 3760466.3   203.1     3.66     2.33
2.89     YES
 L0064313         0   0.37040E-07  443381.7 3760466.3   203.1     3.66     2.33
2.89     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0064314	0	0.37040E-07	443386.7	3760466.3	203.2	3.66	2.33	2.89	YES	
L0064315	0	0.37040E-07	443391.7	3760466.3	203.2	3.66	2.33	2.89	YES	
L0064316	0	0.37040E-07	443396.7	3760466.2	203.2	3.66	2.33	2.89	YES	
L0064317	0	0.37040E-07	443401.7	3760466.2	203.2	3.66	2.33	2.89	YES	
L0064318	0	0.37040E-07	443406.7	3760466.2	203.2	3.66	2.33	2.89	YES	
L0064319	0	0.37040E-07	443411.7	3760466.2	203.2	3.66	2.33	2.89	YES	

2.89 YES							
L0064320	0	0.37040E-07	443416.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0064321	0	0.37040E-07	443421.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0064322	0	0.37040E-07	443426.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0064323	0	0.37040E-07	443431.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0064324	0	0.37040E-07	443436.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0064325	0	0.37040E-07	443441.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0064326	0	0.37040E-07	443446.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0064327	0	0.37040E-07	443451.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0064328	0	0.37040E-07	443456.7	3760466.2	203.2	3.66	2.33
2.89 YES							
L0064329	0	0.37040E-07	443461.7	3760466.1	203.2	3.66	2.33
2.89 YES							
L0064330	0	0.37040E-07	443466.7	3760466.1	203.2	3.66	2.33
2.89 YES							
L0064331	0	0.37040E-07	443471.7	3760466.1	203.2	3.66	2.33
2.89 YES							
L0064332	0	0.37040E-07	443476.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0064333	0	0.37040E-07	443481.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0064334	0	0.37040E-07	443486.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0064335	0	0.37040E-07	443491.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0064336	0	0.37040E-07	443496.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0064337	0	0.37040E-07	443501.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0064338	0	0.37040E-07	443506.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0064339	0	0.37040E-07	443511.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0064340	0	0.37040E-07	443516.7	3760466.1	203.3	3.66	2.33
2.89 YES							
L0064341	0	0.37040E-07	443521.7	3760466.1	203.2	3.66	2.33
2.89 YES							
L0064342	0	0.37040E-07	443526.7	3760466.0	203.2	3.66	2.33
2.89 YES							
L0064343	0	0.37040E-07	443531.7	3760466.0	203.2	3.66	2.33

```
2.89     YES
 L0064344         0   0.37040E-07  443536.7 3760466.0   203.2     3.66     2.33
2.89     YES
 L0064345         0   0.37040E-07  443541.7 3760466.0   203.2     3.66     2.33
2.89     YES
 L0064346         0   0.37040E-07  443546.7 3760466.0   203.2     3.66     2.33
2.89     YES
 L0064347         0   0.37040E-07  443551.7 3760466.0   203.2     3.66     2.33
2.89     YES
 L0064348         0   0.37040E-07  443556.7 3760466.0   203.2     3.66     2.33
2.89     YES
 L0064349         0   0.37040E-07  443561.7 3760466.0   203.2     3.66     2.33
2.89     YES
 L0064350         0   0.37040E-07  443566.7 3760466.0   203.2     3.66     2.33
2.89     YES
 L0064351         0   0.37040E-07  443571.7 3760466.0   203.3     3.66     2.33
2.89     YES
 L0064352         0   0.37040E-07  443576.7 3760466.0   203.3     3.66     2.33
2.89     YES
 L0064353         0   0.37040E-07  443581.7 3760466.0   203.3     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

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

 L0064354         0   0.37040E-07  443586.7 3760466.0   203.3     3.66     2.33
2.89     YES
 L0064355         0   0.37040E-07  443591.7 3760465.9   203.3     3.66     2.33
2.89     YES
 L0064356         0   0.37040E-07  443596.7 3760465.9   203.3     3.66     2.33
2.89     YES
 L0064357         0   0.37040E-07  443601.7 3760465.9   203.3     3.66     2.33
```

2.89	YES							
L0064358		0	0.37040E-07	443606.7	3760465.9	203.3	3.66	2.33
2.89	YES							
L0064359		0	0.37040E-07	443611.7	3760465.9	203.3	3.66	2.33
2.89	YES							
L0064360		0	0.37040E-07	443616.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064361		0	0.37040E-07	443621.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064362		0	0.37040E-07	443626.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064363		0	0.37040E-07	443631.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064364		0	0.37040E-07	443636.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064365		0	0.37040E-07	443641.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064366		0	0.37040E-07	443646.7	3760465.9	203.4	3.66	2.33
2.89	YES							
L0064367		0	0.37040E-07	443651.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064368		0	0.37040E-07	443656.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064369		0	0.37040E-07	443661.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064370		0	0.37040E-07	443666.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064371		0	0.37040E-07	443671.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064372		0	0.37040E-07	443676.7	3760465.9	203.5	3.66	2.33
2.89	YES							
L0064373		0	0.37040E-07	443681.7	3760466.0	203.5	3.66	2.33
2.89	YES							
L0064374		0	0.37040E-07	443686.7	3760466.0	203.5	3.66	2.33
2.89	YES							
L0064375		0	0.37040E-07	443691.7	3760466.0	203.5	3.66	2.33
2.89	YES							
L0064376		0	0.37040E-07	443696.7	3760466.1	203.5	3.66	2.33
2.89	YES							
L0064377		0	0.37040E-07	443701.7	3760466.1	203.6	3.66	2.33
2.89	YES							
L0064378		0	0.37040E-07	443706.7	3760466.1	203.6	3.66	2.33
2.89	YES							
L0064379		0	0.37040E-07	443711.7	3760466.2	203.6	3.66	2.33
2.89	YES							
L0064380		0	0.37040E-07	443716.7	3760466.2	203.6	3.66	2.33
2.89	YES							
L0064381		0	0.37040E-07	443721.7	3760466.2	203.6	3.66	2.33

```
2.89     YES
 L0064382         0   0.37040E-07  443726.7 3760466.3   203.6     3.66     2.33
2.89     YES
 L0064383         0   0.37040E-07  443731.7 3760466.3   203.6     3.66     2.33
2.89     YES
 L0064384         0   0.37040E-07  443736.7 3760466.3   203.6     3.66     2.33
2.89     YES
 L0064385         0   0.37040E-07  443741.7 3760466.4   203.6     3.66     2.33
2.89     YES
 L0064386         0   0.37040E-07  443746.7 3760466.4   203.7     3.66     2.33
2.89     YES
 L0064387         0   0.37040E-07  443751.7 3760466.4   203.7     3.66     2.33
2.89     YES
 L0064388         0   0.37040E-07  443756.7 3760466.5   203.7     3.66     2.33
2.89     YES
 L0064389         0   0.37040E-07  443761.7 3760466.5   203.7     3.66     2.33
2.89     YES
 L0064390         0   0.37040E-07  443766.7 3760466.5   203.7     3.66     2.33
2.89     YES
 L0064391         0   0.37040E-07  443771.7 3760466.6   203.7     3.66     2.33
2.89     YES
 L0064392         0   0.37040E-07  443776.7 3760466.6   203.8     3.66     2.33
2.89     YES
 L0064393         0   0.37040E-07  443781.7 3760466.6   203.8     3.66     2.33
2.89     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0064394	0	0.37040E-07	443786.7	3760466.7	203.8	3.66	2.33	2.89	YES	
L0064395	0	0.37040E-07	443791.7	3760466.7	203.8	3.66	2.33			

2.89	YES							
L0064396		0	0.37040E-07	443796.7	3760466.7	203.9	3.66	2.33
2.89	YES							
L0064397		0	0.37040E-07	443801.7	3760466.8	203.9	3.66	2.33
2.89	YES							
L0064398		0	0.37040E-07	443806.7	3760466.8	203.9	3.66	2.33
2.89	YES							
L0064399		0	0.37040E-07	443811.7	3760466.8	203.9	3.66	2.33
2.89	YES							
L0064400		0	0.37040E-07	443816.7	3760466.9	204.0	3.66	2.33
2.89	YES							
L0064401		0	0.37040E-07	443821.7	3760466.9	204.0	3.66	2.33
2.89	YES							
L0064402		0	0.37040E-07	443826.7	3760466.9	204.0	3.66	2.33
2.89	YES							
L0064403		0	0.37040E-07	443831.7	3760467.0	204.0	3.66	2.33
2.89	YES							
L0064404		0	0.37040E-07	443836.7	3760467.0	204.0	3.66	2.33
2.89	YES							
L0064405		0	0.37040E-07	443841.7	3760467.0	204.1	3.66	2.33
2.89	YES							
L0064406		0	0.37040E-07	443846.7	3760467.1	204.1	3.66	2.33
2.89	YES							
L0064407		0	0.37040E-07	443851.7	3760467.1	204.1	3.66	2.33
2.89	YES							
L0064408		0	0.37040E-07	443856.7	3760467.1	204.2	3.66	2.33
2.89	YES							
L0064409		0	0.37040E-07	443861.7	3760467.2	204.2	3.66	2.33
2.89	YES							
L0064410		0	0.37040E-07	443866.7	3760467.2	204.2	3.66	2.33
2.89	YES							
L0064411		0	0.37040E-07	443871.7	3760467.2	204.3	3.66	2.33
2.89	YES							
L0064412		0	0.37040E-07	443876.7	3760467.3	204.3	3.66	2.33
2.89	YES							
L0064413		0	0.37040E-07	443881.7	3760467.3	204.3	3.66	2.33
2.89	YES							
L0042930		0	0.36147E-04	440839.7	3761204.0	203.0	3.83	34.88
3.56	YES							
L0042931		0	0.36147E-04	440840.1	3761129.0	202.3	3.83	34.88
3.56	YES							
L0042932		0	0.36147E-04	440840.6	3761054.0	201.6	3.83	34.88
3.56	YES							
L0042933		0	0.36147E-04	440841.0	3760979.0	200.7	3.83	34.88
3.56	YES							
L0042934		0	0.36147E-04	440841.4	3760904.0	200.2	3.83	34.88
3.56	YES							
L0042935		0	0.36147E-04	440841.9	3760829.0	199.8	3.83	34.88

```
3.56     YES
 L0042936         0   0.36147E-04  440842.3 3760754.0   199.3     3.83    34.88
3.56     YES
 L0042937         0   0.36147E-04  440842.7 3760679.0   198.6     3.83    34.88
3.56     YES
 L0042938         0   0.36147E-04  440843.2 3760604.0   197.9     3.83    34.88
3.56     YES
 L0042939         0   0.36147E-04  440843.6 3760529.0   197.1     3.83    34.88
3.56     YES
 L0042940         0   0.36147E-04  440891.8 3760503.6   197.6     3.83    34.88
3.56     YES
 L0042941         0   0.36147E-04  440962.0 3760510.6   198.1     3.83    34.88
3.56     YES
 L0042942         0   0.36147E-04  440962.6 3760585.6   198.8     3.83    34.88
3.56     YES
 L0042943         0   0.36147E-04  440963.1 3760660.6   199.2     3.83    34.88
3.56     YES
 L0042944         0   0.36147E-04  440963.7 3760735.6   199.7     3.83    34.88
3.56     YES
 L0042945         0   0.36147E-04  440964.2 3760810.6   199.5     3.83    34.88
3.56     YES
 L0042946         0   0.36147E-04  440964.7 3760885.6   201.3     3.83    34.88
3.56     YES
 L0042947         0   0.36147E-04  440965.3 3760960.6   202.0     3.83    34.88
3.56     YES
 L0042948         0   0.36147E-04  440965.8 3761035.6   202.9     3.83    34.88
3.56     YES
 L0042949         0   0.36147E-04  440966.4 3761110.6   203.7     3.83    34.88
3.56     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
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L0042950	0	0.36147E-04	440966.9	3761185.6	204.4	3.83	34.88	3.56 YES
L0042951	0	0.36147E-04	441023.0	3761203.7	203.5	3.83	34.88	3.56 YES
L0042952	0	0.36147E-04	441098.0	3761202.5	203.6	3.83	34.88	3.56 YES
L0042953	0	0.36147E-04	441101.5	3761132.0	203.3	3.83	34.88	3.56 YES
L0042954	0	0.36147E-04	441100.3	3761057.1	202.8	3.83	34.88	3.56 YES
L0042955	0	0.36147E-04	441099.1	3760982.1	202.1	3.83	34.88	3.56 YES
L0042956	0	0.36147E-04	441097.9	3760907.1	201.5	3.83	34.88	3.56 YES
L0042957	0	0.36147E-04	441096.7	3760832.1	201.1	3.83	34.88	3.56 YES
L0042958	0	0.36147E-04	441095.6	3760757.1	200.5	3.83	34.88	3.56 YES
L0042959	0	0.36147E-04	441094.4	3760682.1	200.5	3.83	34.88	3.56 YES
L0042960	0	0.36147E-04	441093.2	3760607.1	200.0	3.83	34.88	3.56 YES
L0042961	0	0.36147E-04	441092.0	3760532.1	199.4	3.83	34.88	3.56 YES
L0042962	0	0.36147E-04	441153.8	3760518.7	199.5	3.83	34.88	3.56 YES
L0042963	0	0.36147E-04	441224.2	3760522.9	199.3	3.83	34.88	3.56 YES
L0042964	0	0.36147E-04	441224.3	3760597.9	200.2	3.83	34.88	3.56 YES
L0042965	0	0.36147E-04	441224.3	3760672.9	200.6	3.83	34.88	3.56 YES
L0042966	0	0.36147E-04	441224.4	3760747.9	201.1	3.83	34.88	3.56 YES
L0042967	0	0.36147E-04	441224.4	3760822.9	201.5	3.83	34.88	3.56 YES
L0042968	0	0.36147E-04	441224.5	3760897.9	202.0	3.83	34.88	3.56 YES
L0042969	0	0.36147E-04	441224.5	3760972.9	202.4	3.83	34.88	3.56 YES
L0042970	0	0.36147E-04	441224.6	3761047.9	202.9	3.83	34.88	3.56 YES
L0042971	0	0.36147E-04	441224.6	3761122.9	203.4	3.83	34.88	3.56 YES
L0042972	0	0.36147E-04	441224.7	3761197.9	203.8	3.83	34.88	3.56 YES
L0042973	0	0.36147E-04	441275.3	3761221.5	204.1	3.83	34.88	

3.56 YES
L0042974 0 0.36147E-04 441350.3 3761220.4 204.1 3.83 34.88
3.56 YES
L0042975 0 0.36147E-04 441350.9 3761147.0 203.7 3.83 34.88
3.56 YES
L0042976 0 0.36147E-04 441349.9 3761072.0 203.2 3.83 34.88
3.56 YES
L0042977 0 0.36147E-04 441348.9 3760997.0 202.7 3.83 34.88
3.56 YES
L0042978 0 0.36147E-04 441347.9 3760922.0 202.2 3.83 34.88
3.56 YES
L0042979 0 0.36147E-04 441346.9 3760847.0 201.8 3.83 34.88
3.56 YES
L0042980 0 0.36147E-04 441345.9 3760772.0 201.2 3.83 34.88
3.56 YES
L0042981 0 0.36147E-04 441345.0 3760697.0 200.8 3.83 34.88
3.56 YES
L0042982 0 0.36147E-04 441344.0 3760622.0 200.4 3.83 34.88
3.56 YES
L0042983 0 0.36147E-04 441343.0 3760547.0 200.2 3.83 34.88
3.56 YES
L0042984 0 0.36147E-04 441399.1 3760525.2 199.6 3.83 34.88
3.56 YES
L0042985 0 0.36147E-04 441474.0 3760520.8 199.7 3.83 34.88
3.56 YES
L0042986 0 0.36147E-04 441477.7 3760591.4 200.2 3.83 34.88
3.56 YES
L0042987 0 0.36147E-04 441477.3 3760666.4 200.6 3.83 34.88
3.56 YES
L0042988 0 0.36147E-04 441476.8 3760741.4 201.0 3.83 34.88
3.56 YES
L0042989 0 0.36147E-04 441476.3 3760816.4 201.8 3.83 34.88
3.56 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0042990	0	0.36147E-04	441475.8	3760891.4	202.0	3.83	34.88	3.56 YES
L0042991	0	0.36147E-04	441475.4	3760966.4	202.2	3.83	34.88	3.56 YES
L0042992	0	0.36147E-04	441474.9	3761041.4	202.9	3.83	34.88	3.56 YES
L0042993	0	0.36147E-04	441474.4	3761116.4	203.5	3.83	34.88	3.56 YES
L0042994	0	0.36147E-04	441473.9	3761191.4	203.9	3.83	34.88	3.56 YES
L0042995	0	0.36147E-04	441525.5	3761213.3	204.2	3.83	34.88	3.56 YES
L0042996	0	0.36147E-04	441600.5	3761211.4	204.7	3.83	34.88	3.56 YES
L0042997	0	0.36147E-04	441610.9	3761149.0	204.5	3.83	34.88	3.56 YES
L0042998	0	0.36147E-04	441608.0	3761074.0	203.7	3.83	34.88	3.56 YES
L0042999	0	0.36147E-04	441605.1	3760999.1	203.0	3.83	34.88	3.56 YES
L0043000	0	0.36147E-04	441602.1	3760924.1	202.5	3.83	34.88	3.56 YES
L0043001	0	0.36147E-04	441599.2	3760849.2	201.9	3.83	34.88	3.56 YES
L0043002	0	0.36147E-04	441596.3	3760774.2	201.2	3.83	34.88	3.56 YES
L0043003	0	0.36147E-04	441593.4	3760699.3	200.2	3.83	34.88	3.56 YES
L0043004	0	0.36147E-04	441590.5	3760624.4	200.7	3.83	34.88	3.56 YES
L0043005	0	0.36147E-04	441587.6	3760549.4	200.1	3.83	34.88	3.56 YES
L0043006	0	0.36147E-04	441634.0	3760522.7	200.2	3.83	34.88	3.56 YES
L0043007	0	0.36147E-04	441709.0	3760523.8	200.2	3.83	34.88	3.56 YES
L0043008	0	0.36147E-04	441709.3	3760598.0	200.8	3.83	34.88	3.56 YES
L0043009	0	0.36147E-04	441708.8	3760673.0	199.7	3.83	34.88	3.56 YES
L0043010	0	0.36147E-04	441708.3	3760748.0	200.6	3.83	34.88	3.56 YES
L0043011	0	0.36147E-04	441707.8	3760823.0	201.9	3.83	34.88	

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3.56     YES
 L0043012         0   0.36147E-04  441707.2 3760898.0   202.2     3.83    34.88
3.56     YES
 L0043013         0   0.36147E-04  441706.7 3760973.0   202.7     3.83    34.88
3.56     YES
 L0043014         0   0.36147E-04  441706.2 3761048.0   203.2     3.83    34.88
3.56     YES
 L0043015         0   0.36147E-04  441705.7 3761123.0   203.6     3.83    34.88
3.56     YES
 L0043016         0   0.36147E-04  441705.2 3761198.0   204.8     3.83    34.88
3.56     YES
 L0043017         0   0.36147E-04  441749.2 3761227.4   205.0     3.83    34.88
3.56     YES
 L0043018         0   0.36147E-04  441803.6 3761205.3   205.1     3.83    34.88
3.56     YES
 L0043019         0   0.36147E-04  441803.7 3761130.3   204.4     3.83    34.88
3.56     YES
 L0043020         0   0.36147E-04  441803.7 3761055.3   203.9     3.83    34.88
3.56     YES
 L0043021         0   0.36147E-04  441803.8 3760980.3   203.2     3.83    34.88
3.56     YES
 L0043022         0   0.36147E-04  441803.8 3760905.3   202.7     3.83    34.88
3.56     YES
 L0043023         0   0.36147E-04  441803.9 3760830.3   202.1     3.83    34.88
3.56     YES
 L0043024         0   0.36147E-04  441804.0 3760755.3   201.5     3.83    34.88
3.56     YES
 L0043025         0   0.36147E-04  441804.0 3760680.3   201.6     3.83    34.88
3.56     YES
 L0043026         0   0.36147E-04  441804.1 3760605.3   200.9     3.83    34.88
3.56     YES
 L0043027         0   0.36147E-04  441804.1 3760530.3   200.1     3.83    34.88
3.56     YES
 L0043028         0   0.36147E-04  441862.8 3760512.6   199.9     3.83    34.88
3.56     YES
 L0043029         0   0.36147E-04  441912.1 3760537.0   200.1     3.83    34.88
3.56     YES
 *** AERMOD - VERSION  19191 ***   *** Construction
                         ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                         ***       15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE ID	EMISSION RATE SCALAR VARY BY
L0043030	0	0.36147E-04	441912.0	3760612.0	200.9	3.83	34.88	3.56	YES	
L0043031	0	0.36147E-04	441911.9	3760687.0	201.8	3.83	34.88	3.56	YES	
L0043032	0	0.36147E-04	441911.8	3760762.0	201.9	3.83	34.88	3.56	YES	
L0043033	0	0.36147E-04	441911.7	3760837.0	202.5	3.83	34.88	3.56	YES	
L0043034	0	0.36147E-04	441911.6	3760912.0	202.9	3.83	34.88	3.56	YES	
L0043035	0	0.36147E-04	441911.5	3760987.0	203.3	3.83	34.88	3.56	YES	
L0043036	0	0.36147E-04	441911.4	3761062.0	203.7	3.83	34.88	3.56	YES	
L0043037	0	0.36147E-04	441911.4	3761137.0	204.3	3.83	34.88	3.56	YES	
L0043038	0	0.36147E-04	441911.3	3761212.0	204.9	3.83	34.88	3.56	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0015628 , L0015629 , L0015630 , L0015631 , L0015632 , L0015633 , L0015634 , L0015635 ,
	L0015636 , L0015637 , L0015638 , L0015639 , L0015640 , L0015641 , L0015642 , L0015643 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS
***

SRCGROUP ID	SOURCE IDs

L0015788 , L0015789 , L0015790 , L0015791 , L0015792 ,
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** SOURCE IDs DEFINING SOURCE GROUPS
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 *** AERMOD - VERSION  19191 ***   *** Construction
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
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 *** AERMOD - VERSION  19191 ***   *** Construction
                          ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0064170 , L0064171 , L0064172 , L0064173 , L0064174 , L0064175 , L0064176 , L0064177 ,
	L0064178 , L0064179 , L0064180 , L0064181 , L0064182 , L0064183 , L0064184 , L0064185 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS
***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION  19191 ***   *** Construction
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 *** AERMET - VERSION  16216 ***   ***
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES
***

URBAN ID	URBAN POP	SOURCE IDs

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L0016337    , L0016338    , L0016339    ,

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L0016377    , L0016378    , L0016379    ,
 *** AERMOD - VERSION  19191 ***   *** Construction
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                          ***       15:14:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0016380 , L0016381 , L0016382 , L0016383 , L0016384 , L0016385 , L0016386 , L0016387 ,
		L0016388 , L0016389 , L0016390 , L0016391 , L0016392 , L0016393 , L0016394 , L0016395 ,
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		L0016404 , L0016405 , L0016406 , L0016407 , L0016408 , L0016409 , L0016410 , L0016411 ,
		L0016412 , L0016413 , L0016414 , L0016415 , L0016416 , L0016417 , L0016418 , L0016419 ,
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		L0016428 , L0016429 , L0016430 , L0016431 , L0016432 , L0016433 , L0016434 , L0016435 ,
		L0016436 , L0016437 , L0016438 , L0016439 , L0016440 , L0016441 , L0016442 , L0016443 ,
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		L0016460 , L0016461 , L0016462 , L0016463 , L0016464 , L0016465 , L0016466 , L0016467 ,
		L0016468 , L0016469 , L0016470 , L0016471 , L0016472 , L0016473 , L0016474 , L0016475 ,
		L0016476 , L0016477 , L0016478 , L0016479 , L0016480 , L0016481 , L0016482 , L0016483 ,
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L0016532 , L0016533 , L0016534 , L0016535 , L0016536 , L0016537 , L0016538 , L0016539 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0016556 , L0016557 , L0016558 , L0016559 , L0016560 , L0016561 , L0016562 , L0016563 ,

L0016564 , L0016565 , L0016566 , L0016567 , L0016568 , L0016569 , L0016570 , L0016571 ,

L0016572 , L0016573 , L0016574 , L0016575 , L0016576 , L0016577 , L0016578 , L0016579 ,

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L0064151    , L0064152    , L0064153    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0064154 , L0064155 , L0064156 , L0064157 , L0064158 , L0064159 , L0064160 , L0064161 ,
		L0064162 , L0064163 , L0064164 , L0064165 , L0064166 , L0064167 , L0064168 , L0064169 ,
		L0064170 , L0064171 , L0064172 , L0064173 , L0064174 , L0064175 , L0064176 , L0064177 ,
		L0064178 , L0064179 , L0064180 , L0064181 , L0064182 , L0064183 , L0064184 , L0064185 ,
		L0064186 , L0064187 , L0064188 , L0064189 , L0064190 , L0064191 , L0064192 , L0064193 ,
		L0064194 , L0064195 , L0064196 , L0064197 , L0064198 , L0064199 , L0064200 , L0064201 ,
		L0064202 , L0064203 , L0064204 , L0064205 , L0064206 , L0064207 , L0064208 , L0064209 ,
		L0064210 , L0064211 , L0064212 , L0064213 , L0064214 , L0064215 , L0064216 , L0064217 ,
		L0064218 , L0064219 , L0064220 , L0064221 , L0064222 , L0064223 , L0064224 , L0064225 ,
		L0064226 , L0064227 , L0064228 , L0064229 , L0064230 , L0064231 , L0064232 , L0064233 ,
		L0064234 , L0064235 , L0064236 , L0064237 , L0064238 , L0064239 , L0064240 , L0064241 ,
		L0064242 , L0064243 , L0064244 , L0064245 , L0064246 , L0064247 , L0064248 , L0064249 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0064330 , L0064331 , L0064332 , L0064333 , L0064334 , L0064335 , L0064336 , L0064337 ,

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L0064391    , L0064392    , L0064393    ,

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L0064399    , L0064400    , L0064401    ,

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L0042987 , L0042988 , L0042989 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES
***

URBAN ID	URBAN POP	SOURCE IDs

L0042990 , L0042991 , L0042992 , L0042993 , L0042994 ,
L0042995 , L0042996 , L0042997 ,

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L0043011 , L0043012 , L0043013 ,

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L0043035 , L0043036 , L0043037 ,

L0043038 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** X-COORDINATES OF GRID ***
(METERS)

439452.6, 439552.6, 439652.6, 439752.6, 439852.6,

*** Y-COORDINATES OF GRID ***
(METERS)

3760842.0, 3760942.0, 3761042.0, 3761142.0, 3761242.0, 3761342.0, 3761442.0,
3761542.0, 3761642.0, 3761742.0,
3761842.0, 3761942.0, 3762042.0, 3762142.0, 3762242.0, 3762342.0, 3762442.0,
3762542.0, 3762642.0, 3762742.0,

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 439452.62	439552.62	439652.62	439752.62	439852.62
3762741.97	216.10	216.80	217.40	217.70	218.20
3762641.97	214.90	215.60	215.90	216.20	216.70
3762541.97	214.30	214.80	215.00	215.30	215.40
3762441.97	213.50	213.40	213.60	213.80	214.30
3762341.97	211.70	212.00	212.40	212.90	213.10
3762241.97	210.50	210.80	211.50	212.00	211.60
3762141.97	209.80	210.30	211.00	211.70	210.70
3762041.97	208.90	209.30	209.00	209.40	209.40
3761941.97	208.20	208.80	207.70	207.60	208.30
3761841.97	206.20	206.30	207.10	206.80	207.40
3761741.97	205.00	205.50	206.40	205.90	206.50
3761641.97	204.30	204.70	204.90	205.30	205.70
3761541.97	202.90	203.40	203.80	204.60	205.00
3761441.97	202.60	203.00	203.20	203.70	203.90

3761341.97	201.40	201.90	202.80	202.60	203.20
3761241.97	200.80	201.30	201.80	202.20	202.40
3761141.97	200.00	200.50	200.90	201.30	201.50
3761041.97	199.90	199.60	200.00	200.90	200.50
3760941.97	198.70	199.00	199.30	200.00	199.70
3760841.97	197.00	197.00	197.20	198.00	198.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 439452.62	439552.62	439652.62	439752.62	439852.62
3762741.97	216.10	216.80	217.40	217.70	218.20
3762641.97	214.90	215.60	215.90	216.20	216.70
3762541.97	214.30	214.80	215.00	215.30	215.40
3762441.97	213.50	213.40	213.60	213.80	214.30
3762341.97	211.70	212.00	212.40	212.90	213.10
3762241.97	210.50	210.80	211.50	212.00	211.60
3762141.97	209.80	210.30	211.00	211.70	210.70
3762041.97	208.90	209.30	209.00	209.40	209.40
3761941.97	208.20	208.80	207.70	207.60	208.30
3761841.97	206.20	206.30	207.10	206.80	207.40
3761741.97	205.00	205.50	206.40	205.90	206.50
3761641.97	204.30	204.70	204.90	205.30	205.70
3761541.97	202.90	203.40	203.80	204.60	205.00
3761441.97	202.60	203.00	203.20	203.70	203.90
3761341.97	201.40	201.90	202.80	202.60	203.20
3761241.97	200.80	201.30	201.80	202.20	202.40
3761141.97	200.00	200.50	200.90	201.30	201.50
3761041.97	199.90	199.60	200.00	200.90	200.50
3760941.97	198.70	199.00	199.30	200.00	199.70
3760841.97	197.00	197.00	197.20	198.00	198.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439915.2, 3757928.3, 174.6, 174.6, 0.0); (440215.2, 3758078.3, 175.7, 175.7, 0.0);
(439815.2, 3759928.3, 189.9, 189.9, 0.0); (439815.2, 3759978.3, 190.2, 190.2, 0.0);
(439815.2, 3760028.3, 190.6, 190.6, 0.0); (439815.2, 3760078.3, 190.9, 190.9, 0.0);
(439815.2, 3760128.3, 191.2, 191.2, 0.0); (439815.2, 3760178.3, 191.6, 191.6, 0.0);
(443434.9, 3760505.4, 203.8, 203.8, 0.0); (443519.0, 3760505.4, 203.5, 203.5, 0.0);
(443548.3, 3760505.4, 203.5, 203.5, 0.0); (443736.5, 3760500.5, 203.9, 203.9, 0.0);
(443823.4, 3760503.2, 204.4, 204.4, 0.0); (442026.2, 3761011.9, 203.5, 203.5, 0.0);
(440165.2, 3761228.3, 203.2, 203.2, 0.0); (440215.2, 3761228.3, 203.4, 203.4, 0.0);
(440265.2, 3761228.3, 203.2, 203.2, 0.0); (440615.2, 3761228.3, 203.2, 203.2, 0.0);
(440665.2, 3761228.3, 203.4, 203.4, 0.0); (440715.2, 3761228.3, 203.3, 203.3, 0.0);
(442027.4, 3761229.6, 205.0, 205.0, 0.0); (442665.2, 3761228.3, 206.3, 206.3, 0.0);
(442865.2, 3761228.3, 206.6, 206.6, 0.0); (442965.2, 3761228.3, 206.5, 206.5, 0.0);
(443065.2, 3761228.3, 207.1, 207.1, 0.0); (443265.2, 3761228.3, 207.8, 207.8, 0.0);
(440263.7, 3761292.1, 203.3, 203.3, 0.0); (440322.1, 3761293.7, 203.4, 203.4, 0.0);
(440565.2, 3761299.8, 203.9, 203.9, 0.0); (440756.0, 3761299.0, 204.0, 204.0, 0.0);
(440968.3, 3761294.4, 204.2, 204.2, 0.0); (440862.1, 3761300.7, 204.2, 204.2, 0.0);
(442015.2, 3761328.3, 206.2, 206.2, 0.0); (441165.2, 3761378.3, 205.0, 205.0, 0.0);
(439948.6, 3761395.7, 203.7, 203.7, 0.0); (441215.2, 3761428.3, 205.5, 205.5, 0.0);
(442015.2, 3761428.3, 206.9, 206.9, 0.0); (440415.2, 3761478.3, 205.1, 205.1, 0.0);
(441965.2, 3761478.3, 207.7, 207.7, 0.0); (439933.9, 3761525.3, 205.2, 205.2, 0.0);

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     ( 441965.2, 3761528.3,     207.7,     207.7,       0.0);         ( 442015.2,
3761528.3,     207.6,     207.6,       0.0);
     ( 442065.2, 3761528.3,     207.9,     207.9,       0.0);         ( 439948.3,
3761730.3,     206.9,     206.9,       0.0);
     ( 439937.2, 3761960.1,     209.4,     209.4,       0.0);         ( 439938.5,
3762030.3,     209.8,     209.8,       0.0);
     ( 439942.0, 3762097.7,     210.5,     210.5,       0.0);         ( 440115.2,
3762128.3,     210.9,     210.9,       0.0);
     ( 440165.2, 3762128.3,     211.2,     211.2,       0.0);         ( 440215.2,
3762128.3,     211.5,     211.5,       0.0);
     ( 439965.2, 3762528.3,     215.5,     215.5,       0.0);         ( 439965.2,
3762578.3,     216.4,     216.4,       0.0);
     ( 439965.2, 3762628.3,     217.1,     217.1,       0.0);         ( 439965.2,
3762678.3,     218.0,     218.0,       0.0);
     ( 439965.2, 3763678.3,     229.4,     229.4,       0.0);         ( 440065.2,
3763728.3,     229.9,     229.9,       0.0);
     ( 440115.2, 3763728.3,     229.4,     229.4,       0.0);         ( 440165.2,
3763728.3,     229.4,     229.4,       0.0);
     ( 440215.2, 3763728.3,     229.2,     229.2,       0.0);         ( 442023.5,
3761048.7,     203.7,     203.7,       0.0);
 *** AERMOD - VERSION  19191 ***   *** Construction
                           ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                          ***       15:14:46

                                    PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                    (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_V9_ADJU\KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_V9_ADJU\KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0

```
 12 01 01   1 05   -8.4  0.119 -9.000 -9.000 -999.   99.     18.1  0.09   0.74
1.00    1.45  353.    7.9  279.9    2.0
 12 01 01   1 06   -7.6  0.113 -9.000 -9.000 -999.   91.     17.0  0.09   0.74
1.00    1.38  325.    7.9  277.5    2.0
 12 01 01   1 07   -8.0  0.117 -9.000 -9.000 -999.   96.     17.7  0.09   0.74
1.00    1.42  313.    7.9  281.4    2.0
 12 01 01   1 08   -5.2  0.101 -9.000 -9.000 -999.   77.     17.5  0.09   0.74
0.53    1.23   19.    7.9  280.9    2.0
 12 01 01   1 09   23.2  0.117  0.267  0.012   29.   97.     -6.2  0.09   0.74
0.31    0.96  318.    7.9  287.5    2.0
 12 01 01   1 10   65.2  0.101  0.531  0.014   82.   77.     -1.4  0.09   0.74
0.24    0.63  244.    7.9  291.4    2.0
 12 01 01   1 11   95.5  0.162  0.778  0.008  176.  156.     -4.0  0.09   0.74
0.21    1.23   91.    7.9  296.4    2.0
 12 01 01   1 12  110.8  0.197  1.018  0.005  338.  209.     -6.1  0.09   0.74
0.20    1.60   90.    7.9  299.9    2.0
 12 01 01   1 13  110.5  0.229  1.184  0.005  534.  262.     -9.6  0.09   0.74
0.20    1.98   92.    7.9  302.0    2.0
 12 01 01   1 14   94.6  0.185  1.215  0.005  674.  191.     -5.9  0.09   0.74
0.21    1.50   73.    7.9  303.1    2.0
 12 01 01   1 15   68.6  0.187  1.184  0.005  858.  194.     -8.4  0.09   0.74
0.25    1.59   64.    7.9  303.1    2.0
 12 01 01   1 16   24.9  0.255  0.862  0.005  911.  308.    -58.8  0.09   0.74
0.34    2.61   92.    7.9  300.4    2.0
 12 01 01   1 17  -13.7  0.168 -9.000 -9.000 -999.  168.     31.1  0.09   0.74
0.62    1.98  107.    7.9  295.4    2.0
 12 01 01   1 18  -26.7  0.279 -9.000 -9.000 -999.  354.     85.6  0.09   0.74
1.00    3.22  134.    7.9  291.4    2.0
 12 01 01   1 19   -8.0  0.118 -9.000 -9.000 -999.  120.     18.2  0.09   0.74
1.00    1.43   37.    7.9  290.4    2.0
 12 01 01   1 20   -7.7  0.115 -9.000 -9.000 -999.   94.     17.6  0.09   0.74
1.00    1.40   49.    7.9  287.0    2.0
 12 01 01   1 21   -9.7  0.130 -9.000 -9.000 -999.  113.     20.2  0.09   0.74
1.00    1.57   26.    7.9  288.8    2.0
 12 01 01   1 22   -4.8  0.090 -9.000 -9.000 -999.   65.     13.6  0.09   0.74
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0015628 , L0015629 , L0015630 , L0015631 , L0015632 , L0015633 , L0015634 , L0015635 , L0015636 , L0015637 , L0015638 , L0015639 , L0015640 , L0015641 , L0015642 , L0015643 , L0015644 , L0015645 , L0015646 , L0015647 , L0015648 , L0015649 , L0015650 , L0015651 , L0015652 , L0015653 , L0015654 , L0015655 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 439452.62	439552.62	439652.62	439752.62	439852.62
3762741.97	0.00064	0.00065	0.00067	0.00070	0.00074
3762641.97	0.00068	0.00071	0.00074	0.00078	0.00093
3762541.97	0.00073	0.00076	0.00080	0.00086	0.00104
3762441.97	0.00078	0.00082	0.00086	0.00093	0.00112
3762341.97	0.00084	0.00088	0.00093	0.00101	0.00120
3762241.97	0.00090	0.00095	0.00100	0.00108	0.00130
3762141.97	0.00096	0.00101	0.00107	0.00115	0.00139
3762041.97	0.00103	0.00109	0.00118	0.00128	0.00151
3761941.97	0.00110	0.00116	0.00130	0.00143	0.00165
3761841.97	0.00122	0.00131	0.00139	0.00154	0.00178
3761741.97	0.00130	0.00139	0.00148	0.00165	0.00193
3761641.97	0.00137	0.00147	0.00161	0.00176	0.00206
3761541.97	0.00143	0.00155	0.00170	0.00187	0.00219
3761441.97	0.00148	0.00161	0.00177	0.00197	0.00232
3761341.97	0.00152	0.00167	0.00183	0.00206	0.00243
3761241.97	0.00156	0.00171	0.00190	0.00213	0.00253
3761141.97	0.00160	0.00176	0.00195	0.00219	0.00261
3761041.97	0.00163	0.00179	0.00199	0.00224	0.00267
3760941.97	0.00165	0.00182	0.00202	0.00228	0.00272

3760841.97 | 0.00166 0.00183 0.00204 0.00231 0.00275
*** AERMOD - VERSION 19191 *** *** Construction ***
*** AERMET - VERSION 16216 *** *** 03/08/21 15:14:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0015628 , L0015629 , L0015630 , L0015631 , L0015632 , L0015633 , L0015634 , L0015635 , L0015636 , L0015637 , L0015638 , L0015639 , L0015640 , L0015641 , L0015642 , L0015643 , L0015644 , L0015645 , L0015646 , L0015647 , L0015648 , L0015649 , L0015650 , L0015651 , L0015652 , L0015653 , L0015654 , L0015655 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439915.21	3757928.34	0.00068	440215.21	3758078.34	0.00078
439815.21	3759928.34	0.00204	439815.21	3759978.34	0.00209
439815.21	3760028.34	0.00214	439815.21	3760078.34	0.00218
439815.21	3760128.34	0.00223	439815.21	3760178.34	0.00227
443434.87	3760505.41	0.00319	443519.04	3760505.41	0.00302
443548.29	3760505.41	0.00296	443736.51	3760500.50	0.00267
443823.40	3760503.23	0.00250	442026.18	3761011.86	0.03026
440165.21	3761228.34	0.00340	440215.21	3761228.34	0.00364
440265.21	3761228.34	0.00392	440615.21	3761228.34	0.00790

```
         440665.21    3761228.34        0.00921                    440715.21
3761228.34        0.01115
         442027.40    3761229.63        0.02277                    442665.21
3761228.34        0.00677
         442865.21    3761228.34        0.00542                    442965.21
3761228.34        0.00489
         443065.21    3761228.34        0.00448                    443265.21
3761228.34        0.00377
         440263.68    3761292.14        0.00374                    440322.11
3761293.68        0.00407
         440565.21    3761299.81        0.00624                    440756.01
3761299.04        0.01031
         440968.28    3761294.45        0.01781                    440862.15
3761300.73        0.01397
         442015.21    3761328.34        0.01561                    441165.21
3761378.34        0.01390
         439948.61    3761395.68        0.00264                    441215.21
3761428.34        0.01165
         442015.21    3761428.34        0.01070                    440415.21
3761478.34        0.00381
         441965.21    3761478.34        0.00938                    439933.91
3761525.28        0.00249
         441965.21    3761528.34        0.00807                    442015.21
3761528.34        0.00784
         442065.21    3761528.34        0.00756                    439948.29
3761730.30        0.00211
         439937.22    3761960.11        0.00178                    439938.52
3762030.30        0.00169
         439941.98    3762097.71        0.00159                    440115.21
3762128.34        0.00142
         440165.21    3762128.34        0.00142                    440215.21
3762128.34        0.00144
         439965.21    3762528.34        0.00109                    439965.21
3762578.34        0.00104
         439965.21    3762628.34        0.00098                    439965.21
3762678.34        0.00090
         439965.21    3763678.34        0.00037                    440065.21
3763728.34        0.00036
         440115.21    3763728.34        0.00037                    440165.21
3763728.34        0.00037
         440215.21    3763728.34        0.00037                    442023.45
3761048.68        0.03014
 *** AERMOD - VERSION  19191 ***   *** Construction
                          ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                          ***       15:14:46
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0015628 , L0015629 , L0015630 , L0015631 , L0015632 ,
L0015633 , L0015634 , L0015635 , L0015636 , L0015637 , L0015638 , L0015639 , L0015640 ,
L0015641 , L0015642 , L0015643 , L0015644 , L0015645 , L0015646 , L0015647 , L0015648 ,
L0015649 , L0015650 , L0015651 , L0015652 , L0015653 , L0015654 , L0015655 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	439452.62	439552.62	439652.62	439752.62	439852.62
3762742.0	0.02472 (12081704)	0.02542 (12081704)	0.02609 (15091923)	0.02648 (15062721)	0.02710 (12080924)
3762642.0	0.02447 (15082702)	0.02575 (12081704)	0.02630 (12081704)	0.02692 (15062721)	0.02767 (15062721)
3762542.0	0.02499 (15031022)	0.02577 (15082702)	0.02683 (12081704)	0.02748 (12081704)	0.02832 (15062721)
3762442.0	0.02571 (12071302)	0.02586 (15031022)	0.02668 (15082702)	0.02768 (12081704)	0.02877 (12081704)
3762342.0	0.02551 (15101220)	0.02615 (12071302)	0.02675 (14120303)	0.02798 (15082702)	0.02919 (12081704)
3762242.0	0.02506 (15101220)	0.02648 (15101220)	0.02766 (15101220)	0.02834 (12071302)	0.02924 (15082702)
3762142.0	0.02548 (15091002)	0.02638 (16072304)	0.02833 (15101220)	0.02984 (15101220)	0.02966 (15101220)
3762042.0	0.02535 (15091002)	0.02673 (15091002)	0.02692 (16102806)	0.02881 (15101220)	0.03021 (15101220)
3761942.0	0.02481 (15072001)	0.02697 (15072001)	0.02561 (15072001)	0.02648 (15010620)	0.02915 (15101220)
3761842.0	0.02194 (15090919)	0.02307 (16122818)	0.02583 (15072001)	0.02600 (15072001)	0.02859 (15010620)
3761742.0	0.02148 (15090919)	0.02309 (15090919)	0.02494 (15090919)	0.02551 (16122818)	0.02783 (15072001)
3761642.0	0.02166 (15112017)	0.02288 (15112017)	0.02417		

(15090919)   0.02617 (15090919)   0.02773 (15090919)
 3761542.0 | 0.02255 (15063019)   0.02348 (15063019)   0.02450
(15112017)   0.02611 (15112017)   0.02794 (15090919)
 3761442.0 | 0.02301 (15063019)   0.02439 (15063019)   0.02581
(15063019)   0.02725 (15063019)   0.02881 (15063019)
 3761342.0 | 0.02309 (15031224)   0.02440 (15031224)   0.02589
(15031223)   0.02782 (15063019)   0.02992 (15063019)
 3761242.0 | 0.02319 (15110717)   0.02454 (15110717)   0.02607
(15031224)   0.02790 (15031224)   0.02997 (15031224)
 3761142.0 | 0.02331 (16022406)   0.02469 (16022406)   0.02623
(16032301)   0.02804 (15110717)   0.03019 (15110717)
 3761042.0 | 0.02345 (16122920)   0.02480 (16122920)   0.02632
(16122920)   0.02811 (12121001)   0.03019 (12121001)
 3760942.0 | 0.02403 (16102417)   0.02546 (16102417)   0.02706
(16102417)   0.02887 (16102417)   0.03093 (16102417)
 3760842.0 | 0.02395 (16102417)   0.02538 (16102417)   0.02698
(16102417)   0.02883 (16102417)   0.03094 (16102417)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0015628   , L0015629
 , L0015630   , L0015631   , L0015632   ,
                 L0015633   , L0015634   , L0015635   , L0015636   , L0015637
 , L0015638   , L0015639   , L0015640   ,
                 L0015641   , L0015642   , L0015643   , L0015644   , L0015645
 , L0015646   , L0015647   , L0015648   ,
                 L0015649   , L0015650   , L0015651   , L0015652   , L0015653
 , L0015654   , L0015655   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439915.21   3757928.34   0.01059 (16112918)   440215.21
 3758078.34   0.01158 (13101419)

```
       439815.21   3759928.34        0.02446  (16101918)              439815.21
3759978.34        0.02461  (16101918)
       439815.21   3760028.34        0.02536  (15071822)              439815.21
3760078.34        0.02610  (14051322)
       439815.21   3760128.34        0.02653  (14051322)              439815.21
3760178.34        0.02687  (15031321)
       443434.87   3760505.41        0.02309  (15082519)              443519.04
3760505.41        0.02207  (15082519)
       443548.29   3760505.41        0.02173  (15082519)              443736.51
3760500.50        0.01979  (15082519)
       443823.40   3760503.23        0.01907  (13090520)              442026.18
3761011.86        0.08237  (15101507)
       440165.21   3761228.34        0.03752  (15063019)              440215.21
3761228.34        0.03924  (15063019)
       440265.21   3761228.34        0.04109  (15063019)              440615.21
3761228.34        0.06066  (15063019)
       440665.21   3761228.34        0.06562  (15090919)              440715.21
3761228.34        0.07276  (15090919)
       442027.40   3761229.63        0.08097  (15062719)              442665.21
3761228.34        0.03885  (13090620)
       442865.21   3761228.34        0.03419  (15101304)              442965.21
3761228.34        0.03213  (15101304)
       443065.21   3761228.34        0.03152  (15101304)              443265.21
3761228.34        0.02963  (15082922)
       440263.68   3761292.14        0.04030  (15063019)              440322.11
3761293.68        0.04219  (15063019)
       440565.21   3761299.81        0.05400  (15090919)              440756.01
3761299.04        0.06723  (15031221)
       440968.28   3761294.45        0.07556  (13101421)              440862.15
3761300.73        0.06935  (15031221)
       442015.21   3761328.34        0.07167  (16061306)              441165.21
3761378.34        0.06206  (16102019)
       439948.61   3761395.68        0.03083  (15063019)              441215.21
3761428.34        0.05650  (13030120)
       442015.21   3761428.34        0.05999  (15070606)              440415.21
3761478.34        0.04018  (15031221)
       441965.21   3761478.34        0.05718  (16102717)              439933.91
3761525.28        0.02941  (15090919)
       441965.21   3761528.34        0.05283  (16102717)              442015.21
3761528.34        0.05242  (16102717)
       442065.21   3761528.34        0.05203  (15072106)              439948.29
3761730.30        0.02953  (15072001)
       439937.22   3761960.11        0.03178  (15101220)              439938.52
3762030.30        0.03116  (15101220)
       439941.98   3762097.71        0.03024  (15082702)              440115.21
3762128.34        0.03109  (12081704)
       440165.21   3762128.34        0.03159  (12081704)              440215.21
3762128.34        0.03221  (15062721)
```

```
       439965.21   3762528.34        0.02840  (15062721)               439965.21
 3762578.34        0.02823  (12080924)
       439965.21   3762628.34        0.02814  (12080924)               439965.21
 3762678.34        0.02798  (12080924)
       439965.21   3763678.34        0.02269  (15091824)               440065.21
 3763728.34        0.02265  (12081106)
       440115.21   3763728.34        0.02269  (12081106)               440165.21
 3763728.34        0.02267  (12081106)
       440215.21   3763728.34        0.02249  (12081106)               442023.45
 3761048.68        0.08320  (15101507)
```



```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0015628    , L0015629
 , L0015630    , L0015631    , L0015632    ,
                  L0015633    , L0015634    , L0015635    , L0015636    , L0015637
 , L0015638    , L0015639    , L0015640    ,
                  L0015641    , L0015642    , L0015643    , L0015644    , L0015645
 , L0015646    , L0015647    , L0015648    ,
                  L0015649    , L0015650    , L0015651    , L0015652    , L0015653
 , L0015654    , L0015655    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       439452.62              439552.62              439652.62
       439752.62              439852.62
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3762742.0 |      0.00577 (12020424)      0.00566 (12020424)      0.00544
(12020424)      0.00513 (12020424)      0.00471m(15011124)
 3762642.0 |      0.00610 (12020424)      0.00613 (12020424)      0.00604
(12020424)      0.00584 (12020424)      0.00568 (12020424)
 3762542.0 |      0.00634 (12020424)      0.00651 (12020424)      0.00655
(12020424)      0.00649 (12020424)      0.00646 (12020424)
 3762442.0 |      0.00644 (12020424)      0.00675 (12020424)      0.00696
```

(12020424)   0.00706 (12020424)   0.00716 (12020424)
 3762342.0 | 0.00640 (12020424)   0.00686 (12020424)   0.00724
(12020424)   0.00751 (12020424)   0.00777 (12020424)
 3762242.0 | 0.00624 (12020424)   0.00684 (12020424)   0.00738
(12020424)   0.00784 (12020424)   0.00827 (12020424)
 3762142.0 | 0.00633 (12011324)   0.00670 (12020424)   0.00738
(12020424)   0.00802 (12020424)   0.00864 (12020424)
 3762042.0 | 0.00670 (12011324)   0.00695 (12011324)   0.00715
(12020424)   0.00795 (12020424)   0.00878 (12020424)
 3761942.0 | 0.00688 (12011324)   0.00740 (12011324)   0.00711
(12011324)   0.00762 (12020424)   0.00871 (12020424)
 3761842.0 | 0.00643 (12011324)   0.00684 (12011324)   0.00748
(12011324)   0.00765 (12011324)   0.00847 (12020424)
 3761742.0 | 0.00610 (12011324)   0.00676 (12011324)   0.00756
(12011324)   0.00789 (12011324)   0.00864 (12011324)
 3761642.0 | 0.00617 (12122024)   0.00651 (12011324)   0.00713
(12011324)   0.00797 (12011324)   0.00886 (12011324)
 3761542.0 | 0.00662 (12122024)   0.00702 (12122024)   0.00746
(12122024)   0.00794 (12122024)   0.00876 (12011324)
 3761442.0 | 0.00691 (12122024)   0.00741 (12122024)   0.00797
(12122024)   0.00860 (12122024)   0.00945 (12122024)
 3761342.0 | 0.00701 (12122024)   0.00760 (12122024)   0.00826
(12122024)   0.00902 (12122024)   0.01003 (12122024)
 3761242.0 | 0.00691 (12122024)   0.00755 (12122024)   0.00829
(12122024)   0.00914 (12122024)   0.01028 (12122024)
 3761142.0 | 0.00664 (12122024)   0.00731 (12122024)   0.00808
(12122024)   0.00899 (12122024)   0.01020 (12122024)
 3761042.0 | 0.00625 (12122024)   0.00690 (12122024)   0.00768
(12122024)   0.00861 (12122024)   0.00986 (12122024)
 3760942.0 | 0.00577 (12122024)   0.00640 (12122024)   0.00714
(12122024)   0.00806 (12122024)   0.00929 (12122024)
 3760842.0 | 0.00531 (12020624)   0.00583 (12122024)   0.00652
(12122024)   0.00738 (12122024)   0.00857 (12122024)
 *** AERMOD - VERSION 19191 ***   *** Construction
                          ***   03/08/21
 *** AERMET - VERSION 16216 ***   ***
                         ***   15:14:46

                                    PAGE 53
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0015628   , L0015629
 , L0015630   , L0015631   , L0015632   ,
                 L0015633   , L0015634   , L0015635   , L0015636   , L0015637
 , L0015638   , L0015639   , L0015640   ,
                 L0015641   , L0015642   , L0015643   , L0015644   , L0015645

, L0015646 , L0015647 , L0015648 ,
L0015649 , L0015650 , L0015651 , L0015652 , L0015653
, L0015654 , L0015655 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439915.21	3757928.34	0.00234	(15010624)	440215.21	3758078.34	0.00253	(13121424)
439815.21	3759928.34	0.00806	(16122724)	439815.21	3759978.34	0.00821	(16122724)
439815.21	3760028.34	0.00842	(14122624)	439815.21	3760078.34	0.00860	(14122624)
439815.21	3760128.34	0.00873	(14122624)	439815.21	3760178.34	0.00880	(14122624)
443434.87	3760505.41	0.00890	(13050124)	443519.04	3760505.41	0.00845	(13050124)
443548.29	3760505.41	0.00830	(13050124)	443736.51	3760500.50	0.00749	(13050124)
443823.40	3760503.23	0.00717	(13050124)	442026.18	3761011.86	0.04849	(13020624)
440165.21	3761228.34	0.01368	(12122024)	440215.21	3761228.34	0.01449	(12122024)
440265.21	3761228.34	0.01537	(12122024)	440615.21	3761228.34	0.02606	(12122024)
440665.21	3761228.34	0.02914	(12122024)	440715.21	3761228.34	0.03342	(12122024)
442027.40	3761229.63	0.04631	(12120224)	442665.21	3761228.34	0.01805m	(12050224)
442865.21	3761228.34	0.01574m	(12050224)	442965.21	3761228.34	0.01474m	(12050224)
443065.21	3761228.34	0.01409m	(12050224)	443265.21	3761228.34	0.01283m	(12050224)
440263.68	3761292.14	0.01464	(12122024)	440322.11	3761293.68	0.01557	(12122024)
440565.21	3761299.81	0.02094	(12011324)	440756.01	3761299.04	0.02908	(12020424)
440968.28	3761294.45	0.03696	(13012524)	440862.15	3761300.73	0.03212	(13012524)
442015.21	3761328.34	0.03696	(12120224)	441165.21	3761378.34	0.02633	(13012524)

```
       439948.61   3761395.68        0.01021  (12122024)               441215.21
 3761428.34        0.02240  (12120624)
       442015.21   3761428.34        0.02831m (16031424)               440415.21
 3761478.34        0.01440  (12020424)
       441965.21   3761478.34        0.02603m (16031424)               439933.91
 3761525.28        0.00923  (12011324)
       441965.21   3761528.34        0.02303m (16031424)               442015.21
 3761528.34        0.02279m (16031424)
       442065.21   3761528.34        0.02268m (16031424)               439948.29
 3761730.30        0.00898  (12011324)
       439937.22   3761960.11        0.00918  (12020424)               439938.52
 3762030.30        0.00905  (12020424)
       439941.98   3762097.71        0.00884  (12020424)               440115.21
 3762128.34        0.00871  (12020424)
       440165.21   3762128.34        0.00863  (12020424)               440215.21
 3762128.34        0.00850  (12020424)
       439965.21   3762528.34        0.00585  (12020424)               439965.21
 3762578.34        0.00543  (12020424)
       439965.21   3762628.34        0.00517m (15011124)               439965.21
 3762678.34        0.00511m (15011124)
       439965.21   3763678.34        0.00304m (15011124)               440065.21
 3763728.34        0.00275m (15011124)
       440115.21   3763728.34        0.00265m (15011124)               440165.21
 3763728.34        0.00267  (12052224)
       440215.21   3763728.34        0.00267  (12052224)               442023.45
 3761048.68        0.04894  (12120224)
 *** AERMOD - VERSION  19191 ***   *** Construction
                        ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        15:14:46

                                  PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **


                        NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
```

```
ALL       1ST HIGHEST VALUE IS       0.03026 AT (  442026.18,  3761011.86,
203.50,   203.50,    0.00)  DC
          2ND HIGHEST VALUE IS       0.03014 AT (  442023.45,  3761048.68,
203.71,   203.71,    0.00)  DC
          3RD HIGHEST VALUE IS       0.02277 AT (  442027.40,  3761229.63,
205.04,   205.04,    0.00)  DC
          4TH HIGHEST VALUE IS       0.01781 AT (  440968.28,  3761294.45,
204.23,   204.23,    0.00)  DC
          5TH HIGHEST VALUE IS       0.01561 AT (  442015.21,  3761328.34,
206.15,   206.15,    0.00)  DC
          6TH HIGHEST VALUE IS       0.01397 AT (  440862.15,  3761300.73,
204.20,   204.20,    0.00)  DC
          7TH HIGHEST VALUE IS       0.01390 AT (  441165.21,  3761378.34,
205.00,   205.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.01165 AT (  441215.21,  3761428.34,
205.47,   205.47,    0.00)  DC
          9TH HIGHEST VALUE IS       0.01115 AT (  440715.21,  3761228.34,
203.33,   203.33,    0.00)  DC
         10TH HIGHEST VALUE IS       0.01070 AT (  442015.21,  3761428.34,
206.90,   206.90,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION  19191 ***   *** Construction
                          ***        03/08/21
 *** AERMET - VERSION  16216 ***   ***
                         ***       15:14:46

                                   PAGE  55
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                 *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **

                                                        DATE
                                          NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
```

ALL HIGH 1ST HIGH VALUE IS 0.08320 ON 15101507: AT (442023.45, 3761048.68, 203.71, 203.71, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	DATE (YYMMDDHH)	NETWORK GRID-ID	RECEPTOR
ALL	HIGH	1ST HIGH VALUE IS 0.04894	ON	12120224:	AT (	442023.45, 3761048.68, 203.71, 203.71, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1279 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 917 Calm Hours Identified

A Total of 362 Missing Hours Identified (0.83 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186 2202 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 2202 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** AERMOD Finishes Successfully ***
****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.8.3
** Lakes Environmental Software Inc.
** Date: 3/9/2021
** File: C:\Lakes\AERMOD View\SOL_operations_rev2\SOL_operations_rev2.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\SOL_operations_rev2\SOL_operations_rev2.isc
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL SOL_operations_rev2.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Euclid Ave - Red Bud Lane to Merrill Ave
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.0000334
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 439897.910, 3762688.093, 217.36, 3.66, 5.58
** 439897.649, 3762632.423, 216.86, 3.66, 5.58
```

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** 439900.113, 3762370.124, 213.55, 3.66, 5.58
** 439898.053, 3762075.508, 210.11, 3.66, 5.58
** 439895.792, 3761276.665, 202.47, 3.66, 5.58
** 439895.843, 3760467.600, 193.65, 3.66, 5.58
** ----------------------------------------------------------------
   LOCATION L0040784     VOLUME   439897.882 3762682.093 217.46
   LOCATION L0040785     VOLUME   439897.826 3762670.093 217.29
   LOCATION L0040786     VOLUME   439897.770 3762658.093 217.15
   LOCATION L0040787     VOLUME   439897.713 3762646.093 217.01
   LOCATION L0040788     VOLUME   439897.657 3762634.093 216.85
   LOCATION L0040789     VOLUME   439897.746 3762622.094 216.69
   LOCATION L0040790     VOLUME   439897.859 3762610.094 216.53
   LOCATION L0040791     VOLUME   439897.972 3762598.095 216.38
   LOCATION L0040792     VOLUME   439898.084 3762586.095 216.23
   LOCATION L0040793     VOLUME   439898.197 3762574.096 216.09
   LOCATION L0040794     VOLUME   439898.310 3762562.096 215.96
   LOCATION L0040795     VOLUME   439898.423 3762550.097 215.83
   LOCATION L0040796     VOLUME   439898.535 3762538.097 215.68
   LOCATION L0040797     VOLUME   439898.648 3762526.098 215.54
   LOCATION L0040798     VOLUME   439898.761 3762514.098 215.40
   LOCATION L0040799     VOLUME   439898.873 3762502.099 215.28
   LOCATION L0040800     VOLUME   439898.986 3762490.100 215.15
   LOCATION L0040801     VOLUME   439899.099 3762478.100 215.02
   LOCATION L0040802     VOLUME   439899.212 3762466.101 214.89
   LOCATION L0040803     VOLUME   439899.324 3762454.101 214.75
   LOCATION L0040804     VOLUME   439899.437 3762442.102 214.59
   LOCATION L0040805     VOLUME   439899.550 3762430.102 214.43
   LOCATION L0040806     VOLUME   439899.663 3762418.103 214.28
   LOCATION L0040807     VOLUME   439899.775 3762406.103 214.12
   LOCATION L0040808     VOLUME   439899.888 3762394.104 213.97
   LOCATION L0040809     VOLUME   439900.001 3762382.104 213.81
   LOCATION L0040810     VOLUME   439900.113 3762370.105 213.66
   LOCATION L0040811     VOLUME   439900.029 3762358.105 213.50
   LOCATION L0040812     VOLUME   439899.945 3762346.105 213.33
   LOCATION L0040813     VOLUME   439899.861 3762334.106 213.16
   LOCATION L0040814     VOLUME   439899.778 3762322.106 212.98
   LOCATION L0040815     VOLUME   439899.694 3762310.106 212.80
   LOCATION L0040816     VOLUME   439899.610 3762298.107 212.61
   LOCATION L0040817     VOLUME   439899.526 3762286.107 212.40
   LOCATION L0040818     VOLUME   439899.442 3762274.107 212.20
   LOCATION L0040819     VOLUME   439899.358 3762262.107 212.00
   LOCATION L0040820     VOLUME   439899.274 3762250.108 211.81
   LOCATION L0040821     VOLUME   439899.190 3762238.108 211.62
   LOCATION L0040822     VOLUME   439899.106 3762226.108 211.45
   LOCATION L0040823     VOLUME   439899.022 3762214.109 211.29
   LOCATION L0040824     VOLUME   439898.938 3762202.109 211.14
   LOCATION L0040825     VOLUME   439898.854 3762190.109 211.00
   LOCATION L0040826     VOLUME   439898.771 3762178.110 210.87
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LOCATION L0040827     VOLUME   439898.687 3762166.110 210.76
LOCATION L0040828     VOLUME   439898.603 3762154.110 210.65
LOCATION L0040829     VOLUME   439898.519 3762142.110 210.56
LOCATION L0040830     VOLUME   439898.435 3762130.111 210.48
LOCATION L0040831     VOLUME   439898.351 3762118.111 210.40
LOCATION L0040832     VOLUME   439898.267 3762106.111 210.32
LOCATION L0040833     VOLUME   439898.183 3762094.112 210.23
LOCATION L0040834     VOLUME   439898.099 3762082.112 210.14
LOCATION L0040835     VOLUME   439898.038 3762070.112 210.04
LOCATION L0040836     VOLUME   439898.004 3762058.112 209.95
LOCATION L0040837     VOLUME   439897.970 3762046.112 209.86
LOCATION L0040838     VOLUME   439897.936 3762034.112 209.77
LOCATION L0040839     VOLUME   439897.902 3762022.112 209.68
LOCATION L0040840     VOLUME   439897.868 3762010.112 209.59
LOCATION L0040841     VOLUME   439897.834 3761998.112 209.50
LOCATION L0040842     VOLUME   439897.800 3761986.112 209.40
LOCATION L0040843     VOLUME   439897.766 3761974.112 209.30
LOCATION L0040844     VOLUME   439897.732 3761962.113 209.19
LOCATION L0040845     VOLUME   439897.698 3761950.113 209.08
LOCATION L0040846     VOLUME   439897.664 3761938.113 208.97
LOCATION L0040847     VOLUME   439897.630 3761926.113 208.87
LOCATION L0040848     VOLUME   439897.596 3761914.113 208.76
LOCATION L0040849     VOLUME   439897.562 3761902.113 208.66
LOCATION L0040850     VOLUME   439897.528 3761890.113 208.55
LOCATION L0040851     VOLUME   439897.494 3761878.113 208.45
LOCATION L0040852     VOLUME   439897.460 3761866.113 208.35
LOCATION L0040853     VOLUME   439897.426 3761854.113 208.25
LOCATION L0040854     VOLUME   439897.392 3761842.113 208.15
LOCATION L0040855     VOLUME   439897.358 3761830.113 208.04
LOCATION L0040856     VOLUME   439897.324 3761818.113 207.94
LOCATION L0040857     VOLUME   439897.291 3761806.113 207.83
LOCATION L0040858     VOLUME   439897.257 3761794.113 207.72
LOCATION L0040859     VOLUME   439897.223 3761782.113 207.62
LOCATION L0040860     VOLUME   439897.189 3761770.113 207.51
LOCATION L0040861     VOLUME   439897.155 3761758.113 207.40
LOCATION L0040862     VOLUME   439897.121 3761746.113 207.29
LOCATION L0040863     VOLUME   439897.087 3761734.113 207.19
LOCATION L0040864     VOLUME   439897.053 3761722.113 207.08
LOCATION L0040865     VOLUME   439897.019 3761710.114 206.99
LOCATION L0040866     VOLUME   439896.985 3761698.114 206.89
LOCATION L0040867     VOLUME   439896.951 3761686.114 206.79
LOCATION L0040868     VOLUME   439896.917 3761674.114 206.69
LOCATION L0040869     VOLUME   439896.883 3761662.114 206.58
LOCATION L0040870     VOLUME   439896.849 3761650.114 206.47
LOCATION L0040871     VOLUME   439896.815 3761638.114 206.38
LOCATION L0040872     VOLUME   439896.781 3761626.114 206.28
LOCATION L0040873     VOLUME   439896.747 3761614.114 206.19
LOCATION L0040874     VOLUME   439896.713 3761602.114 206.10
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LOCATION L0040876     VOLUME   439896.645 3761578.114 205.88
LOCATION L0040877     VOLUME   439896.611 3761566.114 205.76
LOCATION L0040878     VOLUME   439896.577 3761554.114 205.62
LOCATION L0040879     VOLUME   439896.543 3761542.114 205.48
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LOCATION L0040881     VOLUME   439896.475 3761518.114 205.20
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LOCATION L0040883     VOLUME   439896.407 3761494.114 204.92
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LOCATION L0040885     VOLUME   439896.339 3761470.114 204.64
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LOCATION L0040887     VOLUME   439896.272 3761446.115 204.36
LOCATION L0040888     VOLUME   439896.238 3761434.115 204.23
LOCATION L0040889     VOLUME   439896.204 3761422.115 204.08
LOCATION L0040890     VOLUME   439896.170 3761410.115 203.94
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LOCATION L0040892     VOLUME   439896.102 3761386.115 203.64
LOCATION L0040893     VOLUME   439896.068 3761374.115 203.48
LOCATION L0040894     VOLUME   439896.034 3761362.115 203.34
LOCATION L0040895     VOLUME   439896.000 3761350.115 203.19
LOCATION L0040896     VOLUME   439895.966 3761338.115 203.06
LOCATION L0040897     VOLUME   439895.932 3761326.115 202.93
LOCATION L0040898     VOLUME   439895.898 3761314.115 202.81
LOCATION L0040899     VOLUME   439895.864 3761302.115 202.68
LOCATION L0040900     VOLUME   439895.830 3761290.115 202.55
LOCATION L0040901     VOLUME   439895.796 3761278.115 202.42
LOCATION L0040902     VOLUME   439895.793 3761266.115 202.29
LOCATION L0040903     VOLUME   439895.793 3761254.115 202.16
LOCATION L0040904     VOLUME   439895.794 3761242.115 202.08
LOCATION L0040905     VOLUME   439895.795 3761230.115 202.00
LOCATION L0040906     VOLUME   439895.796 3761218.115 201.91
LOCATION L0040907     VOLUME   439895.796 3761206.115 201.81
LOCATION L0040908     VOLUME   439895.797 3761194.115 201.71
LOCATION L0040909     VOLUME   439895.798 3761182.115 201.59
LOCATION L0040910     VOLUME   439895.799 3761170.115 201.47
LOCATION L0040911     VOLUME   439895.799 3761158.115 201.36
LOCATION L0040912     VOLUME   439895.800 3761146.115 201.23
LOCATION L0040913     VOLUME   439895.801 3761134.115 201.10
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LOCATION L0040915     VOLUME   439895.802 3761110.115 200.86
LOCATION L0040916     VOLUME   439895.803 3761098.115 200.74
LOCATION L0040917     VOLUME   439895.804 3761086.115 200.62
LOCATION L0040918     VOLUME   439895.805 3761074.115 200.49
LOCATION L0040919     VOLUME   439895.805 3761062.115 200.37
LOCATION L0040920     VOLUME   439895.806 3761050.115 200.23
LOCATION L0040921     VOLUME   439895.807 3761038.115 200.09
LOCATION L0040922     VOLUME   439895.808 3761026.115 199.94
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   LOCATION L0040925     VOLUME   439895.810 3760990.115 199.48
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   LOCATION L0040927     VOLUME   439895.811 3760966.115 199.16
   LOCATION L0040928     VOLUME   439895.812 3760954.115 199.01
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   LOCATION L0040933     VOLUME   439895.816 3760894.115 198.25
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   LOCATION L0040936     VOLUME   439895.818 3760858.115 197.78
   LOCATION L0040937     VOLUME   439895.819 3760846.115 197.61
   LOCATION L0040938     VOLUME   439895.820 3760834.115 197.43
   LOCATION L0040939     VOLUME   439895.820 3760822.115 197.26
   LOCATION L0040940     VOLUME   439895.821 3760810.115 197.10
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   LOCATION L0040946     VOLUME   439895.826 3760738.115 196.24
   LOCATION L0040947     VOLUME   439895.826 3760726.115 196.11
   LOCATION L0040948     VOLUME   439895.827 3760714.115 195.98
   LOCATION L0040949     VOLUME   439895.828 3760702.115 195.85
   LOCATION L0040950     VOLUME   439895.829 3760690.115 195.74
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   LOCATION L0040952     VOLUME   439895.830 3760666.115 195.52
   LOCATION L0040953     VOLUME   439895.831 3760654.115 195.42
   LOCATION L0040954     VOLUME   439895.832 3760642.115 195.31
   LOCATION L0040955     VOLUME   439895.832 3760630.115 195.21
   LOCATION L0040956     VOLUME   439895.833 3760618.115 195.11
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   LOCATION L0040958     VOLUME   439895.835 3760594.115 194.90
   LOCATION L0040959     VOLUME   439895.835 3760582.115 194.79
   LOCATION L0040960     VOLUME   439895.836 3760570.115 194.68
   LOCATION L0040961     VOLUME   439895.837 3760558.115 194.57
   LOCATION L0040962     VOLUME   439895.838 3760546.115 194.46
   LOCATION L0040963     VOLUME   439895.838 3760534.115 194.34
   LOCATION L0040964     VOLUME   439895.839 3760522.115 194.22
   LOCATION L0040965     VOLUME   439895.840 3760510.115 194.10
   LOCATION L0040966     VOLUME   439895.841 3760498.115 193.99
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   LOCATION L0040968     VOLUME   439895.842 3760474.115 193.77
** End of LINE VOLUME Source ID = SLINE2
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** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.000016
** Vertical Dimension = 6.22
** SZINIT = 2.89
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   LOCATION L0040977     VOLUME   439894.614 3760369.481 193.03
   LOCATION L0040978     VOLUME   439894.455 3760357.482 192.96
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   LOCATION L0040981     VOLUME   439894.003 3760321.485 192.70
   LOCATION L0040982     VOLUME   439894.012 3760309.485 192.60
   LOCATION L0040983     VOLUME   439894.020 3760297.485 192.49
   LOCATION L0040984     VOLUME   439894.028 3760285.485 192.39
   LOCATION L0040985     VOLUME   439894.036 3760273.485 192.28
   LOCATION L0040986     VOLUME   439894.044 3760261.485 192.17
   LOCATION L0040987     VOLUME   439894.052 3760249.485 192.07
   LOCATION L0040988     VOLUME   439894.061 3760237.485 191.96
   LOCATION L0040989     VOLUME   439894.069 3760225.485 191.85
   LOCATION L0040990     VOLUME   439894.077 3760213.485 191.74
   LOCATION L0040991     VOLUME   439894.085 3760201.485 191.64
   LOCATION L0040992     VOLUME   439894.093 3760189.485 191.54
   LOCATION L0040993     VOLUME   439894.101 3760177.485 191.44
   LOCATION L0040994     VOLUME   439894.110 3760165.485 191.37
   LOCATION L0040995     VOLUME   439894.118 3760153.485 191.30
   LOCATION L0040996     VOLUME   439894.126 3760141.485 191.24
   LOCATION L0040997     VOLUME   439894.134 3760129.485 191.18
   LOCATION L0040998     VOLUME   439894.142 3760117.485 191.12
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LOCATION L0041002     VOLUME   439894.175 3760069.485 190.93
LOCATION L0041003     VOLUME   439894.183 3760057.485 190.88
LOCATION L0041004     VOLUME   439894.191 3760045.485 190.83
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LOCATION L0041012     VOLUME   439894.190 3759949.486 190.34
LOCATION L0041013     VOLUME   439894.064 3759937.486 190.27
LOCATION L0041014     VOLUME   439893.938 3759925.487 190.21
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LOCATION L0041018     VOLUME   439893.434 3759877.490 189.93
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LOCATION L0041078     VOLUME   439888.926 3759157.512 184.22
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LOCATION L0041080     VOLUME   439889.022 3759133.512 184.00
LOCATION L0041081     VOLUME   439889.070 3759121.512 183.89
LOCATION L0041082     VOLUME   439889.118 3759109.512 183.80
LOCATION L0041083     VOLUME   439889.166 3759097.512 183.70
LOCATION L0041084     VOLUME   439889.214 3759085.512 183.63
LOCATION L0041085     VOLUME   439889.262 3759073.512 183.55
LOCATION L0041086     VOLUME   439889.169 3759061.513 183.48
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LOCATION L0041094     VOLUME   439888.359 3758965.516 182.95
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** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Merill Ave - Euclid Ave to Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 0.000012
** Vertical Dimension = 6.22
** SZINIT = 2.89
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** 440334.726, 3760466.319, 194.72, 3.66, 2.33
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   LOCATION L0041107     VOLUME   439925.876 3760465.164 193.70
   LOCATION L0041108     VOLUME   439930.875 3760465.105 193.68
   LOCATION L0041109     VOLUME   439935.875 3760465.045 193.65
   LOCATION L0041110     VOLUME   439940.875 3760464.986 193.63
   LOCATION L0041111     VOLUME   439945.875 3760464.982 193.61
   LOCATION L0041112     VOLUME   439950.875 3760464.987 193.59
   LOCATION L0041113     VOLUME   439955.875 3760464.993 193.58
   LOCATION L0041114     VOLUME   439960.875 3760464.998 193.58
   LOCATION L0041115     VOLUME   439965.875 3760465.004 193.57
   LOCATION L0041116     VOLUME   439970.875 3760465.010 193.56
   LOCATION L0041117     VOLUME   439975.875 3760465.015 193.56
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   LOCATION L0041123     VOLUME   440005.875 3760465.049 193.58
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LOCATION L0041171     VOLUME   440245.873 3760465.886 194.33
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** DESCRSRC Merill Ave - Archibald Ave to Grove Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 0.0000437
** Vertical Dimension = 6.22
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LOCATION L0041755     VOLUME   444373.188 3760410.515 201.96
LOCATION L0041756     VOLUME   444378.188 3760410.451 201.95
LOCATION L0041757     VOLUME   444383.187 3760410.386 201.94
LOCATION L0041758     VOLUME   444388.187 3760410.322 201.93
LOCATION L0041759     VOLUME   444393.186 3760410.257 201.89
LOCATION L0041760     VOLUME   444398.186 3760410.193 201.85
LOCATION L0041761     VOLUME   444403.186 3760410.128 201.81
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LOCATION L0041762     VOLUME   444408.185 3760410.064 201.77
LOCATION L0041763     VOLUME   444413.185 3760409.999 201.73
LOCATION L0041764     VOLUME   444418.184 3760409.935 201.73
LOCATION L0041765     VOLUME   444423.184 3760409.871 201.72
LOCATION L0041766     VOLUME   444428.184 3760409.806 201.71
LOCATION L0041767     VOLUME   444433.183 3760409.742 201.70
LOCATION L0041768     VOLUME   444438.183 3760409.677 201.70
LOCATION L0041769     VOLUME   444443.182 3760409.613 201.71
LOCATION L0041770     VOLUME   444448.182 3760409.548 201.72
LOCATION L0041771     VOLUME   444453.181 3760409.484 201.73
LOCATION L0041772     VOLUME   444458.181 3760409.419 201.74
LOCATION L0041773     VOLUME   444463.181 3760409.355 201.74
LOCATION L0041774     VOLUME   444468.180 3760409.290 201.76
LOCATION L0041775     VOLUME   444473.180 3760409.285 201.78
LOCATION L0041776     VOLUME   444478.180 3760409.304 201.79
LOCATION L0041777     VOLUME   444483.180 3760409.322 201.81
LOCATION L0041778     VOLUME   444488.180 3760409.340 201.83
LOCATION L0041779     VOLUME   444493.180 3760409.358 201.84
LOCATION L0041780     VOLUME   444498.180 3760409.377 201.85
LOCATION L0041781     VOLUME   444503.180 3760409.395 201.86
LOCATION L0041782     VOLUME   444508.180 3760409.413 201.87
LOCATION L0041783     VOLUME   444513.180 3760409.431 201.87
LOCATION L0041784     VOLUME   444518.180 3760409.450 201.89
LOCATION L0041785     VOLUME   444523.180 3760409.468 201.92
LOCATION L0041786     VOLUME   444528.180 3760409.486 201.94
LOCATION L0041787     VOLUME   444533.180 3760409.504 201.96
LOCATION L0041788     VOLUME   444538.180 3760409.523 201.99
LOCATION L0041789     VOLUME   444543.180 3760409.541 202.01
LOCATION L0041790     VOLUME   444548.180 3760409.559 202.04
LOCATION L0041791     VOLUME   444553.180 3760409.577 202.07
LOCATION L0041792     VOLUME   444558.180 3760409.596 202.10
LOCATION L0041793     VOLUME   444563.179 3760409.614 202.12
LOCATION L0041794     VOLUME   444568.179 3760409.632 202.14
LOCATION L0041795     VOLUME   444573.179 3760409.650 202.12
LOCATION L0041796     VOLUME   444578.179 3760409.669 202.10
LOCATION L0041797     VOLUME   444583.179 3760409.687 202.08
LOCATION L0041798     VOLUME   444588.179 3760409.705 202.06
LOCATION L0041799     VOLUME   444593.179 3760409.723 201.95
LOCATION L0041800     VOLUME   444598.179 3760409.742 201.19
LOCATION L0041801     VOLUME   444603.179 3760409.760 200.42
LOCATION L0041802     VOLUME   444608.179 3760409.778 199.65
LOCATION L0041803     VOLUME   444613.179 3760409.796 198.89
LOCATION L0041804     VOLUME   444618.179 3760409.815 198.12
LOCATION L0041805     VOLUME   444623.179 3760409.833 198.02
LOCATION L0041806     VOLUME   444628.179 3760409.851 197.92
LOCATION L0041807     VOLUME   444633.179 3760409.869 197.83
LOCATION L0041808     VOLUME   444638.179 3760409.888 197.73
LOCATION L0041809     VOLUME   444643.178 3760409.855 197.63
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LOCATION L0041810     VOLUME   444648.176 3760409.697 198.34
LOCATION L0041811     VOLUME   444653.173 3760409.539 199.19
LOCATION L0041812     VOLUME   444658.171 3760409.381 200.04
LOCATION L0041813     VOLUME   444663.168 3760409.223 200.88
LOCATION L0041814     VOLUME   444668.166 3760409.065 201.73
LOCATION L0041815     VOLUME   444673.163 3760408.907 201.98
LOCATION L0041816     VOLUME   444678.161 3760408.749 202.01
LOCATION L0041817     VOLUME   444683.158 3760408.590 202.04
LOCATION L0041818     VOLUME   444688.156 3760408.432 202.07
LOCATION L0041819     VOLUME   444693.153 3760408.274 202.09
LOCATION L0041820     VOLUME   444698.151 3760408.116 202.08
LOCATION L0041821     VOLUME   444703.148 3760407.958 202.02
LOCATION L0041822     VOLUME   444708.146 3760407.800 201.97
LOCATION L0041823     VOLUME   444713.143 3760407.642 201.92
LOCATION L0041824     VOLUME   444718.141 3760407.484 201.87
LOCATION L0041825     VOLUME   444723.138 3760407.326 201.82
LOCATION L0041826     VOLUME   444728.136 3760407.167 201.78
LOCATION L0041827     VOLUME   444733.133 3760407.009 201.74
LOCATION L0041828     VOLUME   444738.131 3760406.851 201.69
LOCATION L0041829     VOLUME   444743.128 3760406.693 201.65
LOCATION L0041830     VOLUME   444748.126 3760406.535 201.59
LOCATION L0041831     VOLUME   444753.123 3760406.377 201.49
LOCATION L0041832     VOLUME   444758.121 3760406.219 201.39
LOCATION L0041833     VOLUME   444763.118 3760406.061 201.30
LOCATION L0041834     VOLUME   444768.116 3760405.903 201.20
LOCATION L0041835     VOLUME   444773.113 3760405.745 201.11
LOCATION L0041836     VOLUME   444778.111 3760405.586 201.04
LOCATION L0041837     VOLUME   444783.108 3760405.428 200.97
LOCATION L0041838     VOLUME   444788.106 3760405.270 200.90
LOCATION L0041839     VOLUME   444793.103 3760405.112 200.83
LOCATION L0041840     VOLUME   444798.101 3760404.954 200.77
LOCATION L0041841     VOLUME   444803.098 3760404.796 200.88
LOCATION L0041842     VOLUME   444808.096 3760404.638 200.98
LOCATION L0041843     VOLUME   444813.093 3760404.480 201.09
LOCATION L0041844     VOLUME   444818.091 3760404.322 201.19
LOCATION L0041845     VOLUME   444823.088 3760404.164 201.29
LOCATION L0041846     VOLUME   444828.086 3760404.005 201.28
LOCATION L0041847     VOLUME   444833.083 3760403.847 201.28
LOCATION L0041848     VOLUME   444838.081 3760403.689 201.27
LOCATION L0041849     VOLUME   444843.078 3760403.531 201.26
LOCATION L0041850     VOLUME   444848.076 3760403.394 201.25
LOCATION L0041851     VOLUME   444853.076 3760403.308 201.22
LOCATION L0041852     VOLUME   444858.075 3760403.222 201.19
LOCATION L0041853     VOLUME   444863.074 3760403.136 201.16
LOCATION L0041854     VOLUME   444868.073 3760403.051 201.13
LOCATION L0041855     VOLUME   444873.073 3760402.965 201.09
LOCATION L0041856     VOLUME   444878.072 3760402.879 201.09
LOCATION L0041857     VOLUME   444883.071 3760402.793 201.09
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LOCATION L0041858     VOLUME   444888.070 3760402.707 201.10
LOCATION L0041859     VOLUME   444893.070 3760402.621 201.11
LOCATION L0041860     VOLUME   444898.069 3760402.535 201.11
LOCATION L0041861     VOLUME   444903.068 3760402.449 201.13
LOCATION L0041862     VOLUME   444908.067 3760402.363 201.17
LOCATION L0041863     VOLUME   444913.067 3760402.277 201.20
LOCATION L0041864     VOLUME   444918.066 3760402.191 201.23
LOCATION L0041865     VOLUME   444923.065 3760402.105 201.26
LOCATION L0041866     VOLUME   444928.064 3760402.019 201.30
LOCATION L0041867     VOLUME   444933.064 3760401.933 201.35
LOCATION L0041868     VOLUME   444938.063 3760401.847 201.40
LOCATION L0041869     VOLUME   444943.062 3760401.761 201.45
LOCATION L0041870     VOLUME   444948.061 3760401.675 201.50
LOCATION L0041871     VOLUME   444953.061 3760401.589 201.54
LOCATION L0041872     VOLUME   444958.060 3760401.503 201.57
LOCATION L0041873     VOLUME   444963.059 3760401.418 201.59
LOCATION L0041874     VOLUME   444968.059 3760401.332 201.62
LOCATION L0041875     VOLUME   444973.058 3760401.246 201.64
LOCATION L0041876     VOLUME   444978.057 3760401.160 201.66
LOCATION L0041877     VOLUME   444983.056 3760401.074 201.66
LOCATION L0041878     VOLUME   444988.056 3760400.988 201.66
LOCATION L0041879     VOLUME   444993.055 3760400.902 201.66
LOCATION L0041880     VOLUME   444998.054 3760400.816 201.66
LOCATION L0041881     VOLUME   445003.053 3760400.730 201.66
LOCATION L0041882     VOLUME   445008.053 3760400.644 201.66
LOCATION L0041883     VOLUME   445013.052 3760400.558 201.66
LOCATION L0041884     VOLUME   445018.051 3760400.472 201.66
LOCATION L0041885     VOLUME   445023.050 3760400.386 201.66
LOCATION L0041886     VOLUME   445028.050 3760400.300 201.66
LOCATION L0041887     VOLUME   445033.049 3760400.214 201.67
LOCATION L0041888     VOLUME   445038.048 3760400.128 201.67
LOCATION L0041889     VOLUME   445043.047 3760400.042 201.67
LOCATION L0041890     VOLUME   445048.047 3760399.956 201.68
LOCATION L0041891     VOLUME   445053.046 3760399.870 201.68
LOCATION L0041892     VOLUME   445058.045 3760399.785 201.67
LOCATION L0041893     VOLUME   445063.044 3760399.699 201.66
LOCATION L0041894     VOLUME   445068.044 3760399.613 201.65
LOCATION L0041895     VOLUME   445073.043 3760399.527 201.64
LOCATION L0041896     VOLUME   445078.042 3760399.441 201.63
LOCATION L0041897     VOLUME   445083.042 3760399.355 201.62
LOCATION L0041898     VOLUME   445088.041 3760399.269 201.60
LOCATION L0041899     VOLUME   445093.040 3760399.183 201.59
LOCATION L0041900     VOLUME   445098.039 3760399.097 201.57
LOCATION L0041901     VOLUME   445103.039 3760399.011 201.55
LOCATION L0041902     VOLUME   445108.038 3760398.925 201.57
LOCATION L0041903     VOLUME   445113.037 3760398.839 201.61
LOCATION L0041904     VOLUME   445118.036 3760398.753 201.66
LOCATION L0041905     VOLUME   445123.036 3760398.667 201.71
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   LOCATION L0041906     VOLUME   445128.035 3760398.581 201.75
   LOCATION L0041907     VOLUME   445133.034 3760398.495 201.78
   LOCATION L0041908     VOLUME   445138.033 3760398.409 201.76
   LOCATION L0041909     VOLUME   445143.033 3760398.323 201.75
   LOCATION L0041910     VOLUME   445148.032 3760398.237 201.73
   LOCATION L0041911     VOLUME   445153.029 3760398.316 201.72
   LOCATION L0041912     VOLUME   445158.026 3760398.511 201.70
   LOCATION L0041913     VOLUME   445163.022 3760398.707 201.64
   LOCATION L0041914     VOLUME   445168.018 3760398.902 201.58
   LOCATION L0041915     VOLUME   445173.014 3760399.097 201.52
   LOCATION L0041916     VOLUME   445178.010 3760399.293 201.45
   LOCATION L0041917     VOLUME   445183.006 3760399.488 201.39
   LOCATION L0041918     VOLUME   445188.003 3760399.684 201.37
   LOCATION L0041919     VOLUME   445192.999 3760399.879 201.35
** End of LINE VOLUME Source ID = SLINE5
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Merilll Ave - Campus Ave to PA 4 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 2.38E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440777.137, 3760467.056, 196.68, 3.66, 2.33
** 440991.318, 3760465.615, 197.60, 3.66, 2.33
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   LOCATION L0041920     VOLUME   440779.637 3760467.039 196.64
   LOCATION L0041921     VOLUME   440784.637 3760467.005 196.66
   LOCATION L0041922     VOLUME   440789.637 3760466.972 196.69
   LOCATION L0041923     VOLUME   440794.637 3760466.938 196.71
   LOCATION L0041924     VOLUME   440799.637 3760466.904 196.70
   LOCATION L0041925     VOLUME   440804.637 3760466.871 196.68
   LOCATION L0041926     VOLUME   440809.637 3760466.837 196.67
   LOCATION L0041927     VOLUME   440814.637 3760466.803 196.65
   LOCATION L0041928     VOLUME   440819.636 3760466.770 196.64
   LOCATION L0041929     VOLUME   440824.636 3760466.736 196.65
   LOCATION L0041930     VOLUME   440829.636 3760466.703 196.68
   LOCATION L0041931     VOLUME   440834.636 3760466.669 196.71
   LOCATION L0041932     VOLUME   440839.636 3760466.635 196.74
   LOCATION L0041933     VOLUME   440844.636 3760466.602 196.77
   LOCATION L0041934     VOLUME   440849.636 3760466.568 196.81
   LOCATION L0041935     VOLUME   440854.636 3760466.534 196.84
   LOCATION L0041936     VOLUME   440859.635 3760466.501 196.88
   LOCATION L0041937     VOLUME   440864.635 3760466.467 196.92
   LOCATION L0041938     VOLUME   440869.635 3760466.433 196.96
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   LOCATION L0041939     VOLUME   440874.635 3760466.400 197.00
   LOCATION L0041940     VOLUME   440879.635 3760466.366 197.05
   LOCATION L0041941     VOLUME   440884.635 3760466.333 197.10
   LOCATION L0041942     VOLUME   440889.635 3760466.299 197.15
   LOCATION L0041943     VOLUME   440894.635 3760466.265 197.20
   LOCATION L0041944     VOLUME   440899.635 3760466.232 197.25
   LOCATION L0041945     VOLUME   440904.634 3760466.198 197.30
   LOCATION L0041946     VOLUME   440909.634 3760466.164 197.35
   LOCATION L0041947     VOLUME   440914.634 3760466.131 197.39
   LOCATION L0041948     VOLUME   440919.634 3760466.097 197.44
   LOCATION L0041949     VOLUME   440924.634 3760466.063 197.48
   LOCATION L0041950     VOLUME   440929.634 3760466.030 197.50
   LOCATION L0041951     VOLUME   440934.634 3760465.996 197.52
   LOCATION L0041952     VOLUME   440939.634 3760465.963 197.54
   LOCATION L0041953     VOLUME   440944.634 3760465.929 197.55
   LOCATION L0041954     VOLUME   440949.633 3760465.895 197.57
   LOCATION L0041955     VOLUME   440954.633 3760465.862 197.58
   LOCATION L0041956     VOLUME   440959.633 3760465.828 197.59
   LOCATION L0041957     VOLUME   440964.633 3760465.794 197.60
   LOCATION L0041958     VOLUME   440969.633 3760465.761 197.61
   LOCATION L0041959     VOLUME   440974.633 3760465.727 197.61
   LOCATION L0041960     VOLUME   440979.633 3760465.693 197.64
   LOCATION L0041961     VOLUME   440984.633 3760465.660 197.67
   LOCATION L0041962     VOLUME   440989.633 3760465.626 197.69
** End of LINE VOLUME Source ID = SLINE13
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Merrill Ave - PA 4 Driveway to Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.86E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440992.011, 3760465.511, 197.60, 3.66, 2.33
** 441189.978, 3760466.341, 198.57, 3.66, 2.33
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   LOCATION L0041963     VOLUME   440994.511 3760465.522 197.72
   LOCATION L0041964     VOLUME   440999.511 3760465.543 197.74
   LOCATION L0041965     VOLUME   441004.511 3760465.564 197.77
   LOCATION L0041966     VOLUME   441009.511 3760465.585 197.80
   LOCATION L0041967     VOLUME   441014.511 3760465.606 197.83
   LOCATION L0041968     VOLUME   441019.511 3760465.627 197.86
   LOCATION L0041969     VOLUME   441024.511 3760465.647 197.89
   LOCATION L0041970     VOLUME   441029.511 3760465.668 197.91
   LOCATION L0041971     VOLUME   441034.511 3760465.689 197.94
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   LOCATION L0041972     VOLUME   441039.511 3760465.710 197.97
   LOCATION L0041973     VOLUME   441044.511 3760465.731 198.00
   LOCATION L0041974     VOLUME   441049.511 3760465.752 198.03
   LOCATION L0041975     VOLUME   441054.511 3760465.773 198.07
   LOCATION L0041976     VOLUME   441059.511 3760465.794 198.10
   LOCATION L0041977     VOLUME   441064.511 3760465.815 198.14
   LOCATION L0041978     VOLUME   441069.511 3760465.836 198.18
   LOCATION L0041979     VOLUME   441074.511 3760465.857 198.22
   LOCATION L0041980     VOLUME   441079.511 3760465.878 198.26
   LOCATION L0041981     VOLUME   441084.511 3760465.899 198.29
   LOCATION L0041982     VOLUME   441089.511 3760465.920 198.33
   LOCATION L0041983     VOLUME   441094.510 3760465.941 198.37
   LOCATION L0041984     VOLUME   441099.510 3760465.962 198.40
   LOCATION L0041985     VOLUME   441104.510 3760465.983 198.43
   LOCATION L0041986     VOLUME   441109.510 3760466.004 198.45
   LOCATION L0041987     VOLUME   441114.510 3760466.025 198.46
   LOCATION L0041988     VOLUME   441119.510 3760466.046 198.48
   LOCATION L0041989     VOLUME   441124.510 3760466.067 198.49
   LOCATION L0041990     VOLUME   441129.510 3760466.087 198.50
   LOCATION L0041991     VOLUME   441134.510 3760466.108 198.51
   LOCATION L0041992     VOLUME   441139.510 3760466.129 198.52
   LOCATION L0041993     VOLUME   441144.510 3760466.150 198.53
   LOCATION L0041994     VOLUME   441149.510 3760466.171 198.54
   LOCATION L0041995     VOLUME   441154.510 3760466.192 198.55
   LOCATION L0041996     VOLUME   441159.510 3760466.213 198.55
   LOCATION L0041997     VOLUME   441164.510 3760466.234 198.55
   LOCATION L0041998     VOLUME   441169.510 3760466.255 198.54
   LOCATION L0041999     VOLUME   441174.510 3760466.276 198.54
   LOCATION L0042000     VOLUME   441179.510 3760466.297 198.54
   LOCATION L0042001     VOLUME   441184.510 3760466.318 198.63
   LOCATION L0042002     VOLUME   441189.510 3760466.339 198.72
** End of LINE VOLUME Source ID = SLINE14
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC Merrill Ave - Bon View Ave to Driveway 7
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.22E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 441189.566, 3760466.219, 198.57, 3.66, 2.33
** 441226.937, 3760466.415, 198.66, 3.66, 2.33
** 441552.028, 3760466.314, 199.95, 3.66, 2.33
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   LOCATION L0042003     VOLUME   441192.066 3760466.232 198.77
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LOCATION L0042004     VOLUME   441197.066 3760466.259 198.87
LOCATION L0042005     VOLUME   441202.066 3760466.285 198.96
LOCATION L0042006     VOLUME   441207.066 3760466.311 199.02
LOCATION L0042007     VOLUME   441212.066 3760466.337 198.94
LOCATION L0042008     VOLUME   441217.065 3760466.364 198.86
LOCATION L0042009     VOLUME   441222.065 3760466.390 198.78
LOCATION L0042010     VOLUME   441227.065 3760466.415 198.70
LOCATION L0042011     VOLUME   441232.065 3760466.414 198.63
LOCATION L0042012     VOLUME   441237.065 3760466.412 198.63
LOCATION L0042013     VOLUME   441242.065 3760466.411 198.63
LOCATION L0042014     VOLUME   441247.065 3760466.409 198.64
LOCATION L0042015     VOLUME   441252.065 3760466.408 198.64
LOCATION L0042016     VOLUME   441257.065 3760466.406 198.64
LOCATION L0042017     VOLUME   441262.065 3760466.404 198.65
LOCATION L0042018     VOLUME   441267.065 3760466.403 198.66
LOCATION L0042019     VOLUME   441272.065 3760466.401 198.67
LOCATION L0042020     VOLUME   441277.065 3760466.400 198.68
LOCATION L0042021     VOLUME   441282.065 3760466.398 198.69
LOCATION L0042022     VOLUME   441287.065 3760466.397 198.71
LOCATION L0042023     VOLUME   441292.065 3760466.395 198.73
LOCATION L0042024     VOLUME   441297.065 3760466.394 198.75
LOCATION L0042025     VOLUME   441302.065 3760466.392 198.77
LOCATION L0042026     VOLUME   441307.065 3760466.390 198.79
LOCATION L0042027     VOLUME   441312.065 3760466.389 198.81
LOCATION L0042028     VOLUME   441317.065 3760466.387 198.84
LOCATION L0042029     VOLUME   441322.065 3760466.386 198.86
LOCATION L0042030     VOLUME   441327.065 3760466.384 198.88
LOCATION L0042031     VOLUME   441332.065 3760466.383 198.90
LOCATION L0042032     VOLUME   441337.065 3760466.381 198.92
LOCATION L0042033     VOLUME   441342.065 3760466.380 198.94
LOCATION L0042034     VOLUME   441347.065 3760466.378 198.96
LOCATION L0042035     VOLUME   441352.065 3760466.376 198.98
LOCATION L0042036     VOLUME   441357.065 3760466.375 198.99
LOCATION L0042037     VOLUME   441362.065 3760466.373 199.02
LOCATION L0042038     VOLUME   441367.065 3760466.372 199.05
LOCATION L0042039     VOLUME   441372.065 3760466.370 199.08
LOCATION L0042040     VOLUME   441377.065 3760466.369 199.11
LOCATION L0042041     VOLUME   441382.065 3760466.367 199.14
LOCATION L0042042     VOLUME   441387.065 3760466.366 199.17
LOCATION L0042043     VOLUME   441392.065 3760466.364 199.19
LOCATION L0042044     VOLUME   441397.065 3760466.362 199.21
LOCATION L0042045     VOLUME   441402.065 3760466.361 199.23
LOCATION L0042046     VOLUME   441407.065 3760466.359 199.25
LOCATION L0042047     VOLUME   441412.065 3760466.358 199.27
LOCATION L0042048     VOLUME   441417.065 3760466.356 199.28
LOCATION L0042049     VOLUME   441422.065 3760466.355 199.29
LOCATION L0042050     VOLUME   441427.065 3760466.353 199.30
LOCATION L0042051     VOLUME   441432.065 3760466.352 199.31
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   LOCATION L0042052     VOLUME   441437.065 3760466.350 199.32
   LOCATION L0042053     VOLUME   441442.065 3760466.348 199.32
   LOCATION L0042054     VOLUME   441447.065 3760466.347 199.32
   LOCATION L0042055     VOLUME   441452.065 3760466.345 199.33
   LOCATION L0042056     VOLUME   441457.065 3760466.344 199.33
   LOCATION L0042057     VOLUME   441462.065 3760466.342 199.33
   LOCATION L0042058     VOLUME   441467.065 3760466.341 199.39
   LOCATION L0042059     VOLUME   441472.065 3760466.339 199.45
   LOCATION L0042060     VOLUME   441477.065 3760466.338 199.51
   LOCATION L0042061     VOLUME   441482.065 3760466.336 199.58
   LOCATION L0042062     VOLUME   441487.065 3760466.335 199.64
   LOCATION L0042063     VOLUME   441492.065 3760466.333 199.67
   LOCATION L0042064     VOLUME   441497.065 3760466.331 199.70
   LOCATION L0042065     VOLUME   441502.065 3760466.330 199.72
   LOCATION L0042066     VOLUME   441507.065 3760466.328 199.75
   LOCATION L0042067     VOLUME   441512.065 3760466.327 199.77
   LOCATION L0042068     VOLUME   441517.065 3760466.325 199.79
   LOCATION L0042069     VOLUME   441522.065 3760466.324 199.81
   LOCATION L0042070     VOLUME   441527.065 3760466.322 199.83
   LOCATION L0042071     VOLUME   441532.065 3760466.321 199.85
   LOCATION L0042072     VOLUME   441537.065 3760466.319 199.87
   LOCATION L0042073     VOLUME   441542.065 3760466.317 199.88
   LOCATION L0042074     VOLUME   441547.065 3760466.316 199.90
** End of LINE VOLUME Source ID = SLINE15
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Merrill Ave - Driveway 7 to PA 5 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.39E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441549.056, 3760466.358, 199.93, 3.66, 2.33
** 441746.603, 3760467.302, 200.08, 3.66, 2.33
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   LOCATION L0042075     VOLUME   441551.556 3760466.370 199.91
   LOCATION L0042076     VOLUME   441556.556 3760466.394 199.92
   LOCATION L0042077     VOLUME   441561.556 3760466.418 199.93
   LOCATION L0042078     VOLUME   441566.556 3760466.442 199.94
   LOCATION L0042079     VOLUME   441571.556 3760466.466 199.95
   LOCATION L0042080     VOLUME   441576.556 3760466.490 199.95
   LOCATION L0042081     VOLUME   441581.556 3760466.514 199.96
   LOCATION L0042082     VOLUME   441586.556 3760466.538 199.96
   LOCATION L0042083     VOLUME   441591.556 3760466.561 199.97
   LOCATION L0042084     VOLUME   441596.556 3760466.585 199.98
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   LOCATION L0042085     VOLUME   441601.556 3760466.609 200.00
   LOCATION L0042086     VOLUME   441606.556 3760466.633 200.02
   LOCATION L0042087     VOLUME   441611.556 3760466.657 200.04
   LOCATION L0042088     VOLUME   441616.556 3760466.681 200.06
   LOCATION L0042089     VOLUME   441621.556 3760466.705 200.07
   LOCATION L0042090     VOLUME   441626.556 3760466.729 200.09
   LOCATION L0042091     VOLUME   441631.556 3760466.753 200.11
   LOCATION L0042092     VOLUME   441636.555 3760466.776 200.13
   LOCATION L0042093     VOLUME   441641.555 3760466.800 200.15
   LOCATION L0042094     VOLUME   441646.555 3760466.824 200.15
   LOCATION L0042095     VOLUME   441651.555 3760466.848 200.14
   LOCATION L0042096     VOLUME   441656.555 3760466.872 200.14
   LOCATION L0042097     VOLUME   441661.555 3760466.896 200.13
   LOCATION L0042098     VOLUME   441666.555 3760466.920 200.13
   LOCATION L0042099     VOLUME   441671.555 3760466.944 200.13
   LOCATION L0042100     VOLUME   441676.555 3760466.968 200.13
   LOCATION L0042101     VOLUME   441681.555 3760466.991 200.13
   LOCATION L0042102     VOLUME   441686.555 3760467.015 200.13
   LOCATION L0042103     VOLUME   441691.555 3760467.039 200.13
   LOCATION L0042104     VOLUME   441696.555 3760467.063 200.12
   LOCATION L0042105     VOLUME   441701.555 3760467.087 200.12
   LOCATION L0042106     VOLUME   441706.555 3760467.111 200.11
   LOCATION L0042107     VOLUME   441711.555 3760467.135 200.10
   LOCATION L0042108     VOLUME   441716.555 3760467.159 200.10
   LOCATION L0042109     VOLUME   441721.555 3760467.183 200.09
   LOCATION L0042110     VOLUME   441726.554 3760467.207 200.08
   LOCATION L0042111     VOLUME   441731.554 3760467.230 200.07
   LOCATION L0042112     VOLUME   441736.554 3760467.254 200.06
   LOCATION L0042113     VOLUME   441741.554 3760467.278 200.05
   LOCATION L0042114     VOLUME   441746.554 3760467.302 200.04
** End of LINE VOLUME Source ID = SLINE16
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Merrill Ave - PA 5 Driveway to Grove Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.16E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441747.949, 3760467.599, 200.08, 3.66, 2.33
** 441996.174, 3760466.514, 199.90, 3.66, 2.33
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   LOCATION L0042115     VOLUME   441750.449 3760467.588 200.04
   LOCATION L0042116     VOLUME   441755.449 3760467.566 200.04
   LOCATION L0042117     VOLUME   441760.449 3760467.544 200.04
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   LOCATION L0042118     VOLUME   441765.449 3760467.522 200.04
   LOCATION L0042119     VOLUME   441770.449 3760467.500 200.04
   LOCATION L0042120     VOLUME   441775.449 3760467.479 200.05
   LOCATION L0042121     VOLUME   441780.448 3760467.457 200.05
   LOCATION L0042122     VOLUME   441785.448 3760467.435 200.06
   LOCATION L0042123     VOLUME   441790.448 3760467.413 200.06
   LOCATION L0042124     VOLUME   441795.448 3760467.391 200.06
   LOCATION L0042125     VOLUME   441800.448 3760467.369 200.06
   LOCATION L0042126     VOLUME   441805.448 3760467.347 200.06
   LOCATION L0042127     VOLUME   441810.448 3760467.326 200.06
   LOCATION L0042128     VOLUME   441815.448 3760467.304 200.07
   LOCATION L0042129     VOLUME   441820.448 3760467.282 200.07
   LOCATION L0042130     VOLUME   441825.448 3760467.260 200.07
   LOCATION L0042131     VOLUME   441830.448 3760467.238 200.07
   LOCATION L0042132     VOLUME   441835.448 3760467.216 200.07
   LOCATION L0042133     VOLUME   441840.448 3760467.195 200.07
   LOCATION L0042134     VOLUME   441845.448 3760467.173 200.07
   LOCATION L0042135     VOLUME   441850.448 3760467.151 200.07
   LOCATION L0042136     VOLUME   441855.448 3760467.129 200.08
   LOCATION L0042137     VOLUME   441860.448 3760467.107 200.08
   LOCATION L0042138     VOLUME   441865.448 3760467.085 200.09
   LOCATION L0042139     VOLUME   441870.448 3760467.063 200.10
   LOCATION L0042140     VOLUME   441875.448 3760467.042 200.10
   LOCATION L0042141     VOLUME   441880.448 3760467.020 200.11
   LOCATION L0042142     VOLUME   441885.447 3760466.998 200.11
   LOCATION L0042143     VOLUME   441890.447 3760466.976 200.12
   LOCATION L0042144     VOLUME   441895.447 3760466.954 200.13
   LOCATION L0042145     VOLUME   441900.447 3760466.932 200.14
   LOCATION L0042146     VOLUME   441905.447 3760466.911 200.15
   LOCATION L0042147     VOLUME   441910.447 3760466.889 200.16
   LOCATION L0042148     VOLUME   441915.447 3760466.867 200.17
   LOCATION L0042149     VOLUME   441920.447 3760466.845 200.18
   LOCATION L0042150     VOLUME   441925.447 3760466.823 200.19
   LOCATION L0042151     VOLUME   441930.447 3760466.801 200.20
   LOCATION L0042152     VOLUME   441935.447 3760466.780 200.21
   LOCATION L0042153     VOLUME   441940.447 3760466.758 200.22
   LOCATION L0042154     VOLUME   441945.447 3760466.736 200.23
   LOCATION L0042155     VOLUME   441950.447 3760466.714 200.23
   LOCATION L0042156     VOLUME   441955.447 3760466.692 200.20
   LOCATION L0042157     VOLUME   441960.447 3760466.670 200.16
   LOCATION L0042158     VOLUME   441965.447 3760466.648 200.12
   LOCATION L0042159     VOLUME   441970.447 3760466.627 200.08
   LOCATION L0042160     VOLUME   441975.447 3760466.605 200.04
   LOCATION L0042161     VOLUME   441980.447 3760466.583 200.00
   LOCATION L0042162     VOLUME   441985.447 3760466.561 199.96
   LOCATION L0042163     VOLUME   441990.446 3760466.539 199.92
   LOCATION L0042164     VOLUME   441995.446 3760466.517 199.88
** End of LINE VOLUME Source ID = SLINE17
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Bon View Ave - Merrill Ave to PA 4 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.75E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 441189.788, 3760470.335, 198.63, 3.66, 2.33
** 441189.788, 3760529.541, 199.52, 3.66, 2.33
** 441190.787, 3760873.923, 201.31, 3.66, 2.33
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   LOCATION L0042165     VOLUME   441189.788 3760472.835 198.87
   LOCATION L0042166     VOLUME   441189.788 3760477.835 198.94
   LOCATION L0042167     VOLUME   441189.788 3760482.835 198.98
   LOCATION L0042168     VOLUME   441189.788 3760487.835 199.03
   LOCATION L0042169     VOLUME   441189.788 3760492.835 199.07
   LOCATION L0042170     VOLUME   441189.788 3760497.835 199.11
   LOCATION L0042171     VOLUME   441189.788 3760502.835 199.16
   LOCATION L0042172     VOLUME   441189.788 3760507.835 199.21
   LOCATION L0042173     VOLUME   441189.788 3760512.835 199.28
   LOCATION L0042174     VOLUME   441189.788 3760517.835 199.35
   LOCATION L0042175     VOLUME   441189.788 3760522.835 199.42
   LOCATION L0042176     VOLUME   441189.788 3760527.835 199.49
   LOCATION L0042177     VOLUME   441189.797 3760532.835 199.56
   LOCATION L0042178     VOLUME   441189.812 3760537.835 199.63
   LOCATION L0042179     VOLUME   441189.826 3760542.835 199.66
   LOCATION L0042180     VOLUME   441189.841 3760547.835 199.69
   LOCATION L0042181     VOLUME   441189.855 3760552.835 199.73
   LOCATION L0042182     VOLUME   441189.870 3760557.835 199.76
   LOCATION L0042183     VOLUME   441189.884 3760562.835 199.79
   LOCATION L0042184     VOLUME   441189.899 3760567.835 199.83
   LOCATION L0042185     VOLUME   441189.913 3760572.835 199.86
   LOCATION L0042186     VOLUME   441189.928 3760577.835 199.90
   LOCATION L0042187     VOLUME   441189.943 3760582.835 199.94
   LOCATION L0042188     VOLUME   441189.957 3760587.835 199.97
   LOCATION L0042189     VOLUME   441189.972 3760592.835 200.01
   LOCATION L0042190     VOLUME   441189.986 3760597.835 200.05
   LOCATION L0042191     VOLUME   441190.001 3760602.835 200.08
   LOCATION L0042192     VOLUME   441190.015 3760607.835 200.12
   LOCATION L0042193     VOLUME   441190.030 3760612.835 200.15
   LOCATION L0042194     VOLUME   441190.044 3760617.835 200.19
   LOCATION L0042195     VOLUME   441190.059 3760622.835 200.22
   LOCATION L0042196     VOLUME   441190.073 3760627.835 200.26
   LOCATION L0042197     VOLUME   441190.088 3760632.835 200.29
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LOCATION L0042198     VOLUME   441190.102 3760637.835 200.32
LOCATION L0042199     VOLUME   441190.117 3760642.835 200.35
LOCATION L0042200     VOLUME   441190.131 3760647.835 200.37
LOCATION L0042201     VOLUME   441190.146 3760652.835 200.40
LOCATION L0042202     VOLUME   441190.160 3760657.835 200.43
LOCATION L0042203     VOLUME   441190.175 3760662.835 200.46
LOCATION L0042204     VOLUME   441190.189 3760667.835 200.48
LOCATION L0042205     VOLUME   441190.204 3760672.834 200.51
LOCATION L0042206     VOLUME   441190.218 3760677.834 200.54
LOCATION L0042207     VOLUME   441190.233 3760682.834 200.56
LOCATION L0042208     VOLUME   441190.247 3760687.834 200.59
LOCATION L0042209     VOLUME   441190.262 3760692.834 200.62
LOCATION L0042210     VOLUME   441190.276 3760697.834 200.65
LOCATION L0042211     VOLUME   441190.291 3760702.834 200.68
LOCATION L0042212     VOLUME   441190.305 3760707.834 200.70
LOCATION L0042213     VOLUME   441190.320 3760712.834 200.73
LOCATION L0042214     VOLUME   441190.334 3760717.834 200.76
LOCATION L0042215     VOLUME   441190.349 3760722.834 200.79
LOCATION L0042216     VOLUME   441190.363 3760727.834 200.81
LOCATION L0042217     VOLUME   441190.378 3760732.834 200.83
LOCATION L0042218     VOLUME   441190.392 3760737.834 200.86
LOCATION L0042219     VOLUME   441190.407 3760742.834 200.88
LOCATION L0042220     VOLUME   441190.421 3760747.834 200.90
LOCATION L0042221     VOLUME   441190.436 3760752.834 200.93
LOCATION L0042222     VOLUME   441190.450 3760757.834 200.95
LOCATION L0042223     VOLUME   441190.465 3760762.834 200.98
LOCATION L0042224     VOLUME   441190.479 3760767.834 201.00
LOCATION L0042225     VOLUME   441190.494 3760772.834 201.03
LOCATION L0042226     VOLUME   441190.508 3760777.834 201.06
LOCATION L0042227     VOLUME   441190.523 3760782.834 201.08
LOCATION L0042228     VOLUME   441190.537 3760787.834 201.10
LOCATION L0042229     VOLUME   441190.552 3760792.834 201.12
LOCATION L0042230     VOLUME   441190.566 3760797.834 201.14
LOCATION L0042231     VOLUME   441190.581 3760802.834 201.16
LOCATION L0042232     VOLUME   441190.595 3760807.834 201.17
LOCATION L0042233     VOLUME   441190.610 3760812.834 201.19
LOCATION L0042234     VOLUME   441190.624 3760817.834 201.21
LOCATION L0042235     VOLUME   441190.639 3760822.834 201.23
LOCATION L0042236     VOLUME   441190.653 3760827.834 201.25
LOCATION L0042237     VOLUME   441190.668 3760832.834 201.27
LOCATION L0042238     VOLUME   441190.682 3760837.834 201.29
LOCATION L0042239     VOLUME   441190.697 3760842.834 201.32
LOCATION L0042240     VOLUME   441190.711 3760847.834 201.34
LOCATION L0042241     VOLUME   441190.726 3760852.834 201.35
LOCATION L0042242     VOLUME   441190.740 3760857.834 201.37
LOCATION L0042243     VOLUME   441190.755 3760862.834 201.39
LOCATION L0042244     VOLUME   441190.769 3760867.834 201.41
LOCATION L0042245     VOLUME   441190.784 3760872.834 201.43
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** End of LINE VOLUME Source ID = SLINE18
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE19
** DESCRSRC Bon View Ave - PA 4 Driveway to Driveway 1
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 4.68E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441190.698, 3760873.430, 201.31, 3.66, 2.33
** 441189.126, 3761142.593, 202.97, 3.66, 2.33
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   LOCATION L0042246     VOLUME   441190.683 3760875.930 201.44
   LOCATION L0042247     VOLUME   441190.654 3760880.930 201.47
   LOCATION L0042248     VOLUME   441190.625 3760885.930 201.50
   LOCATION L0042249     VOLUME   441190.596 3760890.930 201.53
   LOCATION L0042250     VOLUME   441190.567 3760895.930 201.56
   LOCATION L0042251     VOLUME   441190.537 3760900.930 201.59
   LOCATION L0042252     VOLUME   441190.508 3760905.930 201.62
   LOCATION L0042253     VOLUME   441190.479 3760910.930 201.66
   LOCATION L0042254     VOLUME   441190.450 3760915.930 201.69
   LOCATION L0042255     VOLUME   441190.421 3760920.930 201.73
   LOCATION L0042256     VOLUME   441190.391 3760925.929 201.76
   LOCATION L0042257     VOLUME   441190.362 3760930.929 201.80
   LOCATION L0042258     VOLUME   441190.333 3760935.929 201.83
   LOCATION L0042259     VOLUME   441190.304 3760940.929 201.86
   LOCATION L0042260     VOLUME   441190.274 3760945.929 201.89
   LOCATION L0042261     VOLUME   441190.245 3760950.929 201.93
   LOCATION L0042262     VOLUME   441190.216 3760955.929 201.96
   LOCATION L0042263     VOLUME   441190.187 3760960.929 201.99
   LOCATION L0042264     VOLUME   441190.158 3760965.929 202.02
   LOCATION L0042265     VOLUME   441190.128 3760970.929 202.05
   LOCATION L0042266     VOLUME   441190.099 3760975.929 202.08
   LOCATION L0042267     VOLUME   441190.070 3760980.929 202.11
   LOCATION L0042268     VOLUME   441190.041 3760985.928 202.14
   LOCATION L0042269     VOLUME   441190.012 3760990.928 202.17
   LOCATION L0042270     VOLUME   441189.982 3760995.928 202.20
   LOCATION L0042271     VOLUME   441189.953 3761000.928 202.23
   LOCATION L0042272     VOLUME   441189.924 3761005.928 202.27
   LOCATION L0042273     VOLUME   441189.895 3761010.928 202.30
   LOCATION L0042274     VOLUME   441189.866 3761015.928 202.34
   LOCATION L0042275     VOLUME   441189.836 3761020.928 202.38
   LOCATION L0042276     VOLUME   441189.807 3761025.928 202.42
   LOCATION L0042277     VOLUME   441189.778 3761030.928 202.45
   LOCATION L0042278     VOLUME   441189.749 3761035.928 202.49
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   LOCATION L0042279     VOLUME   441189.720 3761040.928 202.52
   LOCATION L0042280     VOLUME   441189.690 3761045.927 202.55
   LOCATION L0042281     VOLUME   441189.661 3761050.927 202.59
   LOCATION L0042282     VOLUME   441189.632 3761055.927 202.62
   LOCATION L0042283     VOLUME   441189.603 3761060.927 202.65
   LOCATION L0042284     VOLUME   441189.574 3761065.927 202.67
   LOCATION L0042285     VOLUME   441189.544 3761070.927 202.69
   LOCATION L0042286     VOLUME   441189.515 3761075.927 202.71
   LOCATION L0042287     VOLUME   441189.486 3761080.927 202.74
   LOCATION L0042288     VOLUME   441189.457 3761085.927 202.76
   LOCATION L0042289     VOLUME   441189.428 3761090.927 202.78
   LOCATION L0042290     VOLUME   441189.398 3761095.927 202.80
   LOCATION L0042291     VOLUME   441189.369 3761100.926 202.83
   LOCATION L0042292     VOLUME   441189.340 3761105.926 202.85
   LOCATION L0042293     VOLUME   441189.311 3761110.926 202.88
   LOCATION L0042294     VOLUME   441189.281 3761115.926 202.90
   LOCATION L0042295     VOLUME   441189.252 3761120.926 202.93
   LOCATION L0042296     VOLUME   441189.223 3761125.926 202.95
   LOCATION L0042297     VOLUME   441189.194 3761130.926 202.98
   LOCATION L0042298     VOLUME   441189.165 3761135.926 203.00
   LOCATION L0042299     VOLUME   441189.135 3761140.926 203.03
** End of LINE VOLUME Source ID = SLINE19
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE20
** DESCRSRC Bon View Ave - Driveway 1 to Eucalyptus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.41E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441189.027, 3761141.906, 202.97, 3.66, 2.33
** 441189.231, 3761269.136, 204.07, 3.66, 2.33
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   LOCATION L0042300     VOLUME   441189.031 3761144.406 203.05
   LOCATION L0042301     VOLUME   441189.039 3761149.406 203.07
   LOCATION L0042302     VOLUME   441189.047 3761154.406 203.10
   LOCATION L0042303     VOLUME   441189.055 3761159.406 203.13
   LOCATION L0042304     VOLUME   441189.063 3761164.406 203.16
   LOCATION L0042305     VOLUME   441189.071 3761169.406 203.19
   LOCATION L0042306     VOLUME   441189.079 3761174.406 203.22
   LOCATION L0042307     VOLUME   441189.087 3761179.406 203.25
   LOCATION L0042308     VOLUME   441189.095 3761184.406 203.29
   LOCATION L0042309     VOLUME   441189.103 3761189.406 203.32
   LOCATION L0042310     VOLUME   441189.111 3761194.406 203.35
   LOCATION L0042311     VOLUME   441189.119 3761199.406 203.38
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   LOCATION L0042312     VOLUME   441189.127 3761204.406 203.42
   LOCATION L0042313     VOLUME   441189.135 3761209.406 203.45
   LOCATION L0042314     VOLUME   441189.143 3761214.406 203.48
   LOCATION L0042315     VOLUME   441189.151 3761219.406 203.53
   LOCATION L0042316     VOLUME   441189.159 3761224.406 203.57
   LOCATION L0042317     VOLUME   441189.167 3761229.406 203.62
   LOCATION L0042318     VOLUME   441189.175 3761234.406 203.66
   LOCATION L0042319     VOLUME   441189.183 3761239.406 203.71
   LOCATION L0042320     VOLUME   441189.192 3761244.406 203.75
   LOCATION L0042321     VOLUME   441189.200 3761249.406 203.81
   LOCATION L0042322     VOLUME   441189.208 3761254.406 203.87
   LOCATION L0042323     VOLUME   441189.216 3761259.406 203.93
   LOCATION L0042324     VOLUME   441189.224 3761264.406 204.00
** End of LINE VOLUME Source ID = SLINE20
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE21
** DESCRSRC Grove Ave - Merrill Ave to Driveway 11
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.23E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 441995.174, 3760469.550, 199.90, 3.66, 2.33
** 441994.804, 3760521.346, 200.41, 3.66, 2.33
** 441995.215, 3760854.109, 202.59, 3.66, 2.33
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   LOCATION L0042325     VOLUME   441995.156 3760472.050 199.95
   LOCATION L0042326     VOLUME   441995.120 3760477.050 200.01
   LOCATION L0042327     VOLUME   441995.085 3760482.050 200.07
   LOCATION L0042328     VOLUME   441995.049 3760487.050 200.13
   LOCATION L0042329     VOLUME   441995.013 3760492.050 200.19
   LOCATION L0042330     VOLUME   441994.978 3760497.049 200.25
   LOCATION L0042331     VOLUME   441994.942 3760502.049 200.31
   LOCATION L0042332     VOLUME   441994.906 3760507.049 200.34
   LOCATION L0042333     VOLUME   441994.870 3760512.049 200.37
   LOCATION L0042334     VOLUME   441994.835 3760517.049 200.40
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   LOCATION L0042336     VOLUME   441994.811 3760527.049 200.47
   LOCATION L0042337     VOLUME   441994.817 3760532.049 200.50
   LOCATION L0042338     VOLUME   441994.823 3760537.049 200.52
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   LOCATION L0042340     VOLUME   441994.836 3760547.049 200.58
   LOCATION L0042341     VOLUME   441994.842 3760552.049 200.60
   LOCATION L0042342     VOLUME   441994.848 3760557.049 200.63
   LOCATION L0042343     VOLUME   441994.854 3760562.049 200.65
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LOCATION L0042346     VOLUME   441994.873 3760577.049 200.72
LOCATION L0042347     VOLUME   441994.879 3760582.049 200.75
LOCATION L0042348     VOLUME   441994.885 3760587.049 200.77
LOCATION L0042349     VOLUME   441994.891 3760592.049 200.79
LOCATION L0042350     VOLUME   441994.898 3760597.049 200.82
LOCATION L0042351     VOLUME   441994.904 3760602.049 200.85
LOCATION L0042352     VOLUME   441994.910 3760607.049 200.88
LOCATION L0042353     VOLUME   441994.916 3760612.049 200.91
LOCATION L0042354     VOLUME   441994.922 3760617.049 200.95
LOCATION L0042355     VOLUME   441994.928 3760622.049 200.98
LOCATION L0042356     VOLUME   441994.935 3760627.049 201.01
LOCATION L0042357     VOLUME   441994.941 3760632.049 201.04
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LOCATION L0042359     VOLUME   441994.953 3760642.049 201.11
LOCATION L0042360     VOLUME   441994.959 3760647.049 201.15
LOCATION L0042361     VOLUME   441994.965 3760652.049 201.18
LOCATION L0042362     VOLUME   441994.972 3760657.049 201.21
LOCATION L0042363     VOLUME   441994.978 3760662.049 201.25
LOCATION L0042364     VOLUME   441994.984 3760667.049 201.28
LOCATION L0042365     VOLUME   441994.990 3760672.049 201.32
LOCATION L0042366     VOLUME   441994.996 3760677.049 201.35
LOCATION L0042367     VOLUME   441995.002 3760682.049 201.38
LOCATION L0042368     VOLUME   441995.009 3760687.049 201.42
LOCATION L0042369     VOLUME   441995.015 3760692.049 201.46
LOCATION L0042370     VOLUME   441995.021 3760697.049 201.49
LOCATION L0042371     VOLUME   441995.027 3760702.049 201.53
LOCATION L0042372     VOLUME   441995.033 3760707.049 201.57
LOCATION L0042373     VOLUME   441995.039 3760712.049 201.61
LOCATION L0042374     VOLUME   441995.046 3760717.049 201.64
LOCATION L0042375     VOLUME   441995.052 3760722.049 201.68
LOCATION L0042376     VOLUME   441995.058 3760727.049 201.71
LOCATION L0042377     VOLUME   441995.064 3760732.049 201.75
LOCATION L0042378     VOLUME   441995.070 3760737.049 201.78
LOCATION L0042379     VOLUME   441995.077 3760742.049 201.82
LOCATION L0042380     VOLUME   441995.083 3760747.049 201.85
LOCATION L0042381     VOLUME   441995.089 3760752.049 201.89
LOCATION L0042382     VOLUME   441995.095 3760757.049 201.92
LOCATION L0042383     VOLUME   441995.101 3760762.049 201.96
LOCATION L0042384     VOLUME   441995.107 3760767.049 201.99
LOCATION L0042385     VOLUME   441995.114 3760772.049 202.03
LOCATION L0042386     VOLUME   441995.120 3760777.049 202.06
LOCATION L0042387     VOLUME   441995.126 3760782.049 202.08
LOCATION L0042388     VOLUME   441995.132 3760787.049 202.10
LOCATION L0042389     VOLUME   441995.138 3760792.049 202.13
LOCATION L0042390     VOLUME   441995.144 3760797.049 202.15
LOCATION L0042391     VOLUME   441995.151 3760802.049 202.17
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   LOCATION L0042392     VOLUME   441995.157 3760807.049 202.19
   LOCATION L0042393     VOLUME   441995.163 3760812.049 202.21
   LOCATION L0042394     VOLUME   441995.169 3760817.049 202.24
   LOCATION L0042395     VOLUME   441995.175 3760822.049 202.27
   LOCATION L0042396     VOLUME   441995.181 3760827.049 202.30
   LOCATION L0042397     VOLUME   441995.188 3760832.049 202.33
   LOCATION L0042398     VOLUME   441995.194 3760837.049 202.36
   LOCATION L0042399     VOLUME   441995.200 3760842.049 202.40
   LOCATION L0042400     VOLUME   441995.206 3760847.049 202.43
   LOCATION L0042401     VOLUME   441995.212 3760852.049 202.47
** End of LINE VOLUME Source ID = SLINE21
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE22
** DESCRSRC Grove Ave - Driveway #11 to Driveway #9
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.45E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 7
** 441994.958, 3760853.741, 202.59, 3.66, 2.33
** 441994.358, 3761106.578, 204.17, 3.66, 2.33
** 441994.358, 3761250.177, 205.36, 3.66, 2.33
** 441994.358, 3761265.018, 205.35, 3.66, 2.33
** 441992.765, 3761269.907, 205.38, 3.66, 2.33
** 441980.470, 3761269.907, 205.50, 3.66, 2.33
** 441819.956, 3761270.745, 205.64, 3.66, 2.33
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   LOCATION L0042402     VOLUME   441994.952 3760856.241 202.50
   LOCATION L0042403     VOLUME   441994.940 3760861.241 202.54
   LOCATION L0042404     VOLUME   441994.928 3760866.241 202.57
   LOCATION L0042405     VOLUME   441994.916 3760871.241 202.61
   LOCATION L0042406     VOLUME   441994.904 3760876.241 202.64
   LOCATION L0042407     VOLUME   441994.892 3760881.241 202.68
   LOCATION L0042408     VOLUME   441994.881 3760886.241 202.71
   LOCATION L0042409     VOLUME   441994.869 3760891.241 202.74
   LOCATION L0042410     VOLUME   441994.857 3760896.241 202.77
   LOCATION L0042411     VOLUME   441994.845 3760901.241 202.81
   LOCATION L0042412     VOLUME   441994.833 3760906.241 202.85
   LOCATION L0042413     VOLUME   441994.821 3760911.241 202.89
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   LOCATION L0042415     VOLUME   441994.798 3760921.241 202.97
   LOCATION L0042416     VOLUME   441994.786 3760926.241 203.01
   LOCATION L0042417     VOLUME   441994.774 3760931.241 203.05
   LOCATION L0042418     VOLUME   441994.762 3760936.241 203.09
   LOCATION L0042419     VOLUME   441994.750 3760941.241 203.12
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LOCATION L0042422     VOLUME   441994.714 3760956.241 203.23
LOCATION L0042423     VOLUME   441994.703 3760961.241 203.26
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LOCATION L0042425     VOLUME   441994.679 3760971.241 203.33
LOCATION L0042426     VOLUME   441994.667 3760976.241 203.36
LOCATION L0042427     VOLUME   441994.655 3760981.241 203.39
LOCATION L0042428     VOLUME   441994.643 3760986.241 203.42
LOCATION L0042429     VOLUME   441994.631 3760991.241 203.45
LOCATION L0042430     VOLUME   441994.619 3760996.241 203.49
LOCATION L0042431     VOLUME   441994.608 3761001.241 203.52
LOCATION L0042432     VOLUME   441994.596 3761006.241 203.56
LOCATION L0042433     VOLUME   441994.584 3761011.241 203.59
LOCATION L0042434     VOLUME   441994.572 3761016.241 203.63
LOCATION L0042435     VOLUME   441994.560 3761021.241 203.66
LOCATION L0042436     VOLUME   441994.548 3761026.241 203.69
LOCATION L0042437     VOLUME   441994.536 3761031.241 203.71
LOCATION L0042438     VOLUME   441994.525 3761036.241 203.73
LOCATION L0042439     VOLUME   441994.513 3761041.241 203.76
LOCATION L0042440     VOLUME   441994.501 3761046.241 203.78
LOCATION L0042441     VOLUME   441994.489 3761051.241 203.80
LOCATION L0042442     VOLUME   441994.477 3761056.241 203.82
LOCATION L0042443     VOLUME   441994.465 3761061.241 203.85
LOCATION L0042444     VOLUME   441994.453 3761066.241 203.88
LOCATION L0042445     VOLUME   441994.441 3761071.241 203.91
LOCATION L0042446     VOLUME   441994.430 3761076.241 203.94
LOCATION L0042447     VOLUME   441994.418 3761081.241 203.97
LOCATION L0042448     VOLUME   441994.406 3761086.241 204.00
LOCATION L0042449     VOLUME   441994.394 3761091.241 204.03
LOCATION L0042450     VOLUME   441994.382 3761096.241 204.06
LOCATION L0042451     VOLUME   441994.370 3761101.241 204.09
LOCATION L0042452     VOLUME   441994.358 3761106.241 204.12
LOCATION L0042453     VOLUME   441994.358 3761111.241 204.15
LOCATION L0042454     VOLUME   441994.358 3761116.241 204.18
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LOCATION L0042465     VOLUME   441994.358 3761171.241 204.58
LOCATION L0042466     VOLUME   441994.358 3761176.241 204.63
LOCATION L0042467     VOLUME   441994.358 3761181.241 204.68
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LOCATION L0042468     VOLUME   441994.358 3761186.241 204.73
LOCATION L0042469     VOLUME   441994.358 3761191.241 204.79
LOCATION L0042470     VOLUME   441994.358 3761196.241 204.84
LOCATION L0042471     VOLUME   441994.358 3761201.241 204.90
LOCATION L0042472     VOLUME   441994.358 3761206.241 204.95
LOCATION L0042473     VOLUME   441994.358 3761211.241 205.00
LOCATION L0042474     VOLUME   441994.358 3761216.241 205.02
LOCATION L0042475     VOLUME   441994.358 3761221.241 205.05
LOCATION L0042476     VOLUME   441994.358 3761226.241 205.08
LOCATION L0042477     VOLUME   441994.358 3761231.241 205.10
LOCATION L0042478     VOLUME   441994.358 3761236.241 205.13
LOCATION L0042479     VOLUME   441994.358 3761241.241 205.16
LOCATION L0042480     VOLUME   441994.358 3761246.241 205.19
LOCATION L0042481     VOLUME   441994.358 3761251.241 205.22
LOCATION L0042482     VOLUME   441994.358 3761256.241 205.25
LOCATION L0042483     VOLUME   441994.358 3761261.241 205.28
LOCATION L0042484     VOLUME   441993.979 3761266.180 205.31
LOCATION L0042485     VOLUME   441991.684 3761269.907 205.36
LOCATION L0042486     VOLUME   441986.684 3761269.907 205.42
LOCATION L0042487     VOLUME   441981.684 3761269.907 205.48
LOCATION L0042488     VOLUME   441976.684 3761269.927 205.53
LOCATION L0042489     VOLUME   441971.684 3761269.953 205.58
LOCATION L0042490     VOLUME   441966.685 3761269.979 205.62
LOCATION L0042491     VOLUME   441961.685 3761270.005 205.66
LOCATION L0042492     VOLUME   441956.685 3761270.031 205.71
LOCATION L0042493     VOLUME   441951.685 3761270.057 205.72
LOCATION L0042494     VOLUME   441946.685 3761270.083 205.73
LOCATION L0042495     VOLUME   441941.685 3761270.110 205.74
LOCATION L0042496     VOLUME   441936.685 3761270.136 205.74
LOCATION L0042497     VOLUME   441931.685 3761270.162 205.75
LOCATION L0042498     VOLUME   441926.685 3761270.188 205.78
LOCATION L0042499     VOLUME   441921.685 3761270.214 205.82
LOCATION L0042500     VOLUME   441916.685 3761270.240 205.87
LOCATION L0042501     VOLUME   441911.685 3761270.266 205.92
LOCATION L0042502     VOLUME   441906.685 3761270.292 205.96
LOCATION L0042503     VOLUME   441901.685 3761270.318 205.99
LOCATION L0042504     VOLUME   441896.686 3761270.345 206.00
LOCATION L0042505     VOLUME   441891.686 3761270.371 206.00
LOCATION L0042506     VOLUME   441886.686 3761270.397 206.01
LOCATION L0042507     VOLUME   441881.686 3761270.423 206.01
LOCATION L0042508     VOLUME   441876.686 3761270.449 206.01
LOCATION L0042509     VOLUME   441871.686 3761270.475 206.00
LOCATION L0042510     VOLUME   441866.686 3761270.501 206.00
LOCATION L0042511     VOLUME   441861.686 3761270.527 205.99
LOCATION L0042512     VOLUME   441856.686 3761270.554 205.98
LOCATION L0042513     VOLUME   441851.686 3761270.580 205.96
LOCATION L0042514     VOLUME   441846.686 3761270.606 205.90
LOCATION L0042515     VOLUME   441841.686 3761270.632 205.84
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   LOCATION L0042516     VOLUME   441836.686 3761270.658 205.78
   LOCATION L0042517     VOLUME   441831.686 3761270.684 205.72
   LOCATION L0042518     VOLUME   441826.686 3761270.710 205.65
   LOCATION L0042519     VOLUME   441821.687 3761270.736 205.63
** End of LINE VOLUME Source ID = SLINE22
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE23
** DESCRSRC Eucalyptus Ave - Bon View Ave to Driveway #4
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.75E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441188.940, 3761269.592, 204.07, 3.66, 2.33
** 441370.765, 3761270.242, 204.91, 3.66, 2.33
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   LOCATION L0042521     VOLUME   441196.440 3761269.618 204.13
   LOCATION L0042522     VOLUME   441201.440 3761269.636 204.19
   LOCATION L0042523     VOLUME   441206.440 3761269.654 204.24
   LOCATION L0042524     VOLUME   441211.440 3761269.672 204.29
   LOCATION L0042525     VOLUME   441216.440 3761269.690 204.30
   LOCATION L0042526     VOLUME   441221.440 3761269.708 204.32
   LOCATION L0042527     VOLUME   441226.440 3761269.726 204.34
   LOCATION L0042528     VOLUME   441231.440 3761269.744 204.36
   LOCATION L0042529     VOLUME   441236.440 3761269.762 204.38
   LOCATION L0042530     VOLUME   441241.440 3761269.780 204.40
   LOCATION L0042531     VOLUME   441246.440 3761269.797 204.42
   LOCATION L0042532     VOLUME   441251.440 3761269.815 204.44
   LOCATION L0042533     VOLUME   441256.440 3761269.833 204.46
   LOCATION L0042534     VOLUME   441261.440 3761269.851 204.48
   LOCATION L0042535     VOLUME   441266.440 3761269.869 204.49
   LOCATION L0042536     VOLUME   441271.440 3761269.887 204.51
   LOCATION L0042537     VOLUME   441276.440 3761269.905 204.52
   LOCATION L0042538     VOLUME   441281.439 3761269.923 204.53
   LOCATION L0042539     VOLUME   441286.439 3761269.941 204.55
   LOCATION L0042540     VOLUME   441291.439 3761269.959 204.56
   LOCATION L0042541     VOLUME   441296.439 3761269.976 204.58
   LOCATION L0042542     VOLUME   441301.439 3761269.994 204.59
   LOCATION L0042543     VOLUME   441306.439 3761270.012 204.61
   LOCATION L0042544     VOLUME   441311.439 3761270.030 204.62
   LOCATION L0042545     VOLUME   441316.439 3761270.048 204.64
   LOCATION L0042546     VOLUME   441321.439 3761270.066 204.67
   LOCATION L0042547     VOLUME   441326.439 3761270.084 204.69
   LOCATION L0042548     VOLUME   441331.439 3761270.102 204.71
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   LOCATION L0042549     VOLUME   441336.439 3761270.120 204.73
   LOCATION L0042550     VOLUME   441341.439 3761270.138 204.75
   LOCATION L0042551     VOLUME   441346.439 3761270.155 204.77
   LOCATION L0042552     VOLUME   441351.439 3761270.173 204.79
   LOCATION L0042553     VOLUME   441356.439 3761270.191 204.81
   LOCATION L0042554     VOLUME   441361.439 3761270.209 204.82
   LOCATION L0042555     VOLUME   441366.439 3761270.227 204.85
** End of LINE VOLUME Source ID = SLINE23
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE24
** DESCRSRC Eucalyptus Ave - Driveway #4 to Driveway #6
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.45E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441367.749, 3761270.269, 204.92, 3.66, 2.33
** 441508.074, 3761269.949, 204.72, 3.66, 2.33
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   LOCATION L0042557     VOLUME   441375.249 3761270.252 204.90
   LOCATION L0042558     VOLUME   441380.249 3761270.240 204.92
   LOCATION L0042559     VOLUME   441385.249 3761270.229 204.95
   LOCATION L0042560     VOLUME   441390.249 3761270.218 204.98
   LOCATION L0042561     VOLUME   441395.249 3761270.206 204.99
   LOCATION L0042562     VOLUME   441400.249 3761270.195 205.01
   LOCATION L0042563     VOLUME   441405.249 3761270.183 205.02
   LOCATION L0042564     VOLUME   441410.249 3761270.172 205.04
   LOCATION L0042565     VOLUME   441415.249 3761270.161 205.05
   LOCATION L0042566     VOLUME   441420.249 3761270.149 205.05
   LOCATION L0042567     VOLUME   441425.249 3761270.138 205.05
   LOCATION L0042568     VOLUME   441430.249 3761270.126 205.04
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   LOCATION L0042570     VOLUME   441440.249 3761270.104 205.03
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   LOCATION L0042573     VOLUME   441455.249 3761270.069 204.88
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   LOCATION L0042575     VOLUME   441465.249 3761270.046 204.76
   LOCATION L0042576     VOLUME   441470.249 3761270.035 204.69
   LOCATION L0042577     VOLUME   441475.249 3761270.024 204.62
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   LOCATION L0042579     VOLUME   441485.249 3761270.001 204.46
   LOCATION L0042580     VOLUME   441490.249 3761269.989 204.39
   LOCATION L0042581     VOLUME   441495.249 3761269.978 204.39
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   LOCATION L0042582     VOLUME   441500.249 3761269.967 204.49
   LOCATION L0042583     VOLUME   441505.249 3761269.955 204.60
** End of LINE VOLUME Source ID = SLINE24
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE25
** DESCRSRC Eucalyptus Ave - Driveway #6 to Driveway #8
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.08E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441505.917, 3761269.946, 204.64, 3.66, 2.33
** 441658.896, 3761269.990, 205.41, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042584     VOLUME   441508.417 3761269.947 204.67
   LOCATION L0042585     VOLUME   441513.417 3761269.948 204.78
   LOCATION L0042586     VOLUME   441518.417 3761269.950 204.89
   LOCATION L0042587     VOLUME   441523.417 3761269.951 204.89
   LOCATION L0042588     VOLUME   441528.417 3761269.953 204.89
   LOCATION L0042589     VOLUME   441533.417 3761269.954 204.89
   LOCATION L0042590     VOLUME   441538.417 3761269.955 204.89
   LOCATION L0042591     VOLUME   441543.417 3761269.957 204.90
   LOCATION L0042592     VOLUME   441548.417 3761269.958 204.91
   LOCATION L0042593     VOLUME   441553.417 3761269.960 204.93
   LOCATION L0042594     VOLUME   441558.417 3761269.961 204.95
   LOCATION L0042595     VOLUME   441563.417 3761269.963 204.97
   LOCATION L0042596     VOLUME   441568.417 3761269.964 204.99
   LOCATION L0042597     VOLUME   441573.417 3761269.965 205.03
   LOCATION L0042598     VOLUME   441578.417 3761269.967 205.10
   LOCATION L0042599     VOLUME   441583.417 3761269.968 205.16
   LOCATION L0042600     VOLUME   441588.417 3761269.970 205.22
   LOCATION L0042601     VOLUME   441593.417 3761269.971 205.28
   LOCATION L0042602     VOLUME   441598.417 3761269.973 205.34
   LOCATION L0042603     VOLUME   441603.417 3761269.974 205.40
   LOCATION L0042604     VOLUME   441608.417 3761269.975 205.45
   LOCATION L0042605     VOLUME   441613.417 3761269.977 205.50
   LOCATION L0042606     VOLUME   441618.417 3761269.978 205.56
   LOCATION L0042607     VOLUME   441623.417 3761269.980 205.58
   LOCATION L0042608     VOLUME   441628.417 3761269.981 205.55
   LOCATION L0042609     VOLUME   441633.417 3761269.983 205.51
   LOCATION L0042610     VOLUME   441638.417 3761269.984 205.48
   LOCATION L0042611     VOLUME   441643.417 3761269.985 205.45
   LOCATION L0042612     VOLUME   441648.417 3761269.987 205.42
   LOCATION L0042613     VOLUME   441653.417 3761269.988 205.41
   LOCATION L0042614     VOLUME   441658.417 3761269.990 205.40
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** End of LINE VOLUME Source ID = SLINE25
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Eucalyptus Ave - Driveway #8 to Driveway #9
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.18E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441659.411, 3761270.258, 205.41, 3.66, 2.33
** 441819.475, 3761270.767, 205.64, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042615     VOLUME   441661.911 3761270.266 205.40
   LOCATION L0042616     VOLUME   441666.911 3761270.282 205.39
   LOCATION L0042617     VOLUME   441671.911 3761270.298 205.39
   LOCATION L0042618     VOLUME   441676.911 3761270.314 205.39
   LOCATION L0042619     VOLUME   441681.911 3761270.330 205.41
   LOCATION L0042620     VOLUME   441686.911 3761270.346 205.42
   LOCATION L0042621     VOLUME   441691.911 3761270.361 205.43
   LOCATION L0042622     VOLUME   441696.911 3761270.377 205.44
   LOCATION L0042623     VOLUME   441701.911 3761270.393 205.45
   LOCATION L0042624     VOLUME   441706.911 3761270.409 205.45
   LOCATION L0042625     VOLUME   441711.911 3761270.425 205.46
   LOCATION L0042626     VOLUME   441716.911 3761270.441 205.47
   LOCATION L0042627     VOLUME   441721.911 3761270.457 205.47
   LOCATION L0042628     VOLUME   441726.910 3761270.473 205.47
   LOCATION L0042629     VOLUME   441731.910 3761270.488 205.48
   LOCATION L0042630     VOLUME   441736.910 3761270.504 205.48
   LOCATION L0042631     VOLUME   441741.910 3761270.520 205.48
   LOCATION L0042632     VOLUME   441746.910 3761270.536 205.48
   LOCATION L0042633     VOLUME   441751.910 3761270.552 205.48
   LOCATION L0042634     VOLUME   441756.910 3761270.568 205.49
   LOCATION L0042635     VOLUME   441761.910 3761270.584 205.50
   LOCATION L0042636     VOLUME   441766.910 3761270.600 205.51
   LOCATION L0042637     VOLUME   441771.910 3761270.616 205.51
   LOCATION L0042638     VOLUME   441776.910 3761270.631 205.52
   LOCATION L0042639     VOLUME   441781.910 3761270.647 205.53
   LOCATION L0042640     VOLUME   441786.910 3761270.663 205.53
   LOCATION L0042641     VOLUME   441791.910 3761270.679 205.53
   LOCATION L0042642     VOLUME   441796.910 3761270.695 205.54
   LOCATION L0042643     VOLUME   441801.910 3761270.711 205.55
   LOCATION L0042644     VOLUME   441806.910 3761270.727 205.57
   LOCATION L0042645     VOLUME   441811.910 3761270.743 205.59
   LOCATION L0042646     VOLUME   441816.910 3761270.758 205.61
** End of LINE VOLUME Source ID = SLINE26
```

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** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Driveway 4
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.48E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441370.682, 3761269.731, 204.91, 3.66, 2.33
** 441372.563, 3761145.448, 203.68, 3.66, 2.33
** ----------------------------------------------------------------
   LOCATION L0042647     VOLUME   441370.720 3761267.231 204.81
   LOCATION L0042648     VOLUME   441370.795 3761262.232 204.71
   LOCATION L0042649     VOLUME   441370.871 3761257.232 204.61
   LOCATION L0042650     VOLUME   441370.947 3761252.233 204.51
   LOCATION L0042651     VOLUME   441371.022 3761247.234 204.41
   LOCATION L0042652     VOLUME   441371.098 3761242.234 204.33
   LOCATION L0042653     VOLUME   441371.174 3761237.235 204.28
   LOCATION L0042654     VOLUME   441371.249 3761232.235 204.23
   LOCATION L0042655     VOLUME   441371.325 3761227.236 204.18
   LOCATION L0042656     VOLUME   441371.401 3761222.236 204.13
   LOCATION L0042657     VOLUME   441371.476 3761217.237 204.08
   LOCATION L0042658     VOLUME   441371.552 3761212.238 204.04
   LOCATION L0042659     VOLUME   441371.628 3761207.238 204.01
   LOCATION L0042660     VOLUME   441371.703 3761202.239 203.99
   LOCATION L0042661     VOLUME   441371.779 3761197.239 203.96
   LOCATION L0042662     VOLUME   441371.855 3761192.240 203.94
   LOCATION L0042663     VOLUME   441371.930 3761187.240 203.92
   LOCATION L0042664     VOLUME   441372.006 3761182.241 203.89
   LOCATION L0042665     VOLUME   441372.082 3761177.242 203.86
   LOCATION L0042666     VOLUME   441372.157 3761172.242 203.83
   LOCATION L0042667     VOLUME   441372.233 3761167.243 203.80
   LOCATION L0042668     VOLUME   441372.309 3761162.243 203.77
   LOCATION L0042669     VOLUME   441372.384 3761157.244 203.74
   LOCATION L0042670     VOLUME   441372.460 3761152.245 203.71
   LOCATION L0042671     VOLUME   441372.535 3761147.245 203.68
** End of LINE VOLUME Source ID = SLINE27
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Driveway 6
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.47E-07
```

```
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441508.279, 3761268.964, 204.73, 3.66, 2.33
** 441508.879, 3761144.904, 203.69, 3.66, 2.33
** ----------------------------------------------------------------
   LOCATION L0042672     VOLUME   441508.291 3761266.464 204.65
   LOCATION L0042673     VOLUME   441508.316 3761261.464 204.61
   LOCATION L0042674     VOLUME   441508.340 3761256.464 204.58
   LOCATION L0042675     VOLUME   441508.364 3761251.464 204.55
   LOCATION L0042676     VOLUME   441508.388 3761246.464 204.52
   LOCATION L0042677     VOLUME   441508.412 3761241.464 204.47
   LOCATION L0042678     VOLUME   441508.437 3761236.464 204.42
   LOCATION L0042679     VOLUME   441508.461 3761231.464 204.36
   LOCATION L0042680     VOLUME   441508.485 3761226.464 204.30
   LOCATION L0042681     VOLUME   441508.509 3761221.464 204.25
   LOCATION L0042682     VOLUME   441508.533 3761216.464 204.19
   LOCATION L0042683     VOLUME   441508.557 3761211.464 204.14
   LOCATION L0042684     VOLUME   441508.582 3761206.464 204.10
   LOCATION L0042685     VOLUME   441508.606 3761201.464 204.06
   LOCATION L0042686     VOLUME   441508.630 3761196.465 204.03
   LOCATION L0042687     VOLUME   441508.654 3761191.465 203.99
   LOCATION L0042688     VOLUME   441508.678 3761186.465 203.96
   LOCATION L0042689     VOLUME   441508.702 3761181.465 203.92
   LOCATION L0042690     VOLUME   441508.727 3761176.465 203.89
   LOCATION L0042691     VOLUME   441508.751 3761171.465 203.85
   LOCATION L0042692     VOLUME   441508.775 3761166.465 203.82
   LOCATION L0042693     VOLUME   441508.799 3761161.465 203.78
   LOCATION L0042694     VOLUME   441508.823 3761156.465 203.75
   LOCATION L0042695     VOLUME   441508.848 3761151.465 203.71
   LOCATION L0042696     VOLUME   441508.872 3761146.465 203.68
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Driveway 8
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.48E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441659.118, 3761269.215, 205.41, 3.66, 2.33
** 441659.907, 3761144.756, 203.99, 3.66, 2.33
** ----------------------------------------------------------------
   LOCATION L0042697     VOLUME   441659.133 3761266.715 205.37
   LOCATION L0042698     VOLUME   441659.165 3761261.715 205.33
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   LOCATION L0042699     VOLUME   441659.197 3761256.715 205.28
   LOCATION L0042700     VOLUME   441659.229 3761251.715 205.24
   LOCATION L0042701     VOLUME   441659.260 3761246.715 205.19
   LOCATION L0042702     VOLUME   441659.292 3761241.715 205.14
   LOCATION L0042703     VOLUME   441659.324 3761236.715 205.09
   LOCATION L0042704     VOLUME   441659.355 3761231.715 205.04
   LOCATION L0042705     VOLUME   441659.387 3761226.716 204.98
   LOCATION L0042706     VOLUME   441659.419 3761221.716 204.93
   LOCATION L0042707     VOLUME   441659.451 3761216.716 204.88
   LOCATION L0042708     VOLUME   441659.482 3761211.716 204.82
   LOCATION L0042709     VOLUME   441659.514 3761206.716 204.77
   LOCATION L0042710     VOLUME   441659.546 3761201.716 204.72
   LOCATION L0042711     VOLUME   441659.578 3761196.716 204.66
   LOCATION L0042712     VOLUME   441659.609 3761191.716 204.61
   LOCATION L0042713     VOLUME   441659.641 3761186.716 204.55
   LOCATION L0042714     VOLUME   441659.673 3761181.716 204.50
   LOCATION L0042715     VOLUME   441659.704 3761176.717 204.45
   LOCATION L0042716     VOLUME   441659.736 3761171.717 204.40
   LOCATION L0042717     VOLUME   441659.768 3761166.717 204.35
   LOCATION L0042718     VOLUME   441659.800 3761161.717 204.30
   LOCATION L0042719     VOLUME   441659.831 3761156.717 204.25
   LOCATION L0042720     VOLUME   441659.863 3761151.717 204.20
   LOCATION L0042721     VOLUME   441659.895 3761146.717 204.16
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Driveway 9
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.89E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441819.214, 3761269.765, 205.63, 3.66, 2.33
** 441818.253, 3761146.627, 204.42, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042722     VOLUME   441819.194 3761267.265 205.60
   LOCATION L0042723     VOLUME   441819.155 3761262.266 205.57
   LOCATION L0042724     VOLUME   441819.116 3761257.266 205.55
   LOCATION L0042725     VOLUME   441819.077 3761252.266 205.52
   LOCATION L0042726     VOLUME   441819.038 3761247.266 205.49
   LOCATION L0042727     VOLUME   441818.999 3761242.266 205.46
   LOCATION L0042728     VOLUME   441818.960 3761237.266 205.41
   LOCATION L0042729     VOLUME   441818.921 3761232.267 205.35
   LOCATION L0042730     VOLUME   441818.882 3761227.267 205.29
   LOCATION L0042731     VOLUME   441818.843 3761222.267 205.22
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   LOCATION L0042732     VOLUME   441818.804 3761217.267 205.16
   LOCATION L0042733     VOLUME   441818.765 3761212.267 205.10
   LOCATION L0042734     VOLUME   441818.726 3761207.267 205.04
   LOCATION L0042735     VOLUME   441818.687 3761202.267 204.99
   LOCATION L0042736     VOLUME   441818.648 3761197.268 204.93
   LOCATION L0042737     VOLUME   441818.609 3761192.268 204.88
   LOCATION L0042738     VOLUME   441818.570 3761187.268 204.82
   LOCATION L0042739     VOLUME   441818.531 3761182.268 204.77
   LOCATION L0042740     VOLUME   441818.492 3761177.268 204.72
   LOCATION L0042741     VOLUME   441818.453 3761172.268 204.68
   LOCATION L0042742     VOLUME   441818.414 3761167.269 204.63
   LOCATION L0042743     VOLUME   441818.375 3761162.269 204.59
   LOCATION L0042744     VOLUME   441818.336 3761157.269 204.55
   LOCATION L0042745     VOLUME   441818.297 3761152.269 204.50
   LOCATION L0042746     VOLUME   441818.258 3761147.269 204.45
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC On-Site Circulation - Driveway 11
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.99E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441962.653, 3760855.742, 202.78, 3.66, 2.33
** 441536.461, 3760857.831, 202.08, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042747     VOLUME   441960.153 3760855.754 202.73
   LOCATION L0042748     VOLUME   441955.153 3760855.778 202.78
   LOCATION L0042749     VOLUME   441950.153 3760855.803 202.79
   LOCATION L0042750     VOLUME   441945.153 3760855.827 202.77
   LOCATION L0042751     VOLUME   441940.153 3760855.852 202.75
   LOCATION L0042752     VOLUME   441935.153 3760855.876 202.72
   LOCATION L0042753     VOLUME   441930.153 3760855.901 202.70
   LOCATION L0042754     VOLUME   441925.153 3760855.926 202.67
   LOCATION L0042755     VOLUME   441920.153 3760855.950 202.64
   LOCATION L0042756     VOLUME   441915.153 3760855.975 202.61
   LOCATION L0042757     VOLUME   441910.153 3760855.999 202.58
   LOCATION L0042758     VOLUME   441905.153 3760856.024 202.55
   LOCATION L0042759     VOLUME   441900.153 3760856.048 202.52
   LOCATION L0042760     VOLUME   441895.153 3760856.073 202.50
   LOCATION L0042761     VOLUME   441890.153 3760856.097 202.47
   LOCATION L0042762     VOLUME   441885.153 3760856.122 202.45
   LOCATION L0042763     VOLUME   441880.154 3760856.146 202.42
   LOCATION L0042764     VOLUME   441875.154 3760856.171 202.40
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LOCATION L0042765     VOLUME   441870.154 3760856.195 202.38
LOCATION L0042766     VOLUME   441865.154 3760856.220 202.37
LOCATION L0042767     VOLUME   441860.154 3760856.244 202.36
LOCATION L0042768     VOLUME   441855.154 3760856.269 202.34
LOCATION L0042769     VOLUME   441850.154 3760856.293 202.33
LOCATION L0042770     VOLUME   441845.154 3760856.318 202.33
LOCATION L0042771     VOLUME   441840.154 3760856.342 202.34
LOCATION L0042772     VOLUME   441835.154 3760856.367 202.34
LOCATION L0042773     VOLUME   441830.154 3760856.391 202.34
LOCATION L0042774     VOLUME   441825.154 3760856.416 202.35
LOCATION L0042775     VOLUME   441820.154 3760856.440 202.35
LOCATION L0042776     VOLUME   441815.154 3760856.465 202.35
LOCATION L0042777     VOLUME   441810.154 3760856.489 202.35
LOCATION L0042778     VOLUME   441805.154 3760856.514 202.35
LOCATION L0042779     VOLUME   441800.154 3760856.538 202.35
LOCATION L0042780     VOLUME   441795.155 3760856.563 202.34
LOCATION L0042781     VOLUME   441790.155 3760856.587 202.34
LOCATION L0042782     VOLUME   441785.155 3760856.612 202.34
LOCATION L0042783     VOLUME   441780.155 3760856.636 202.33
LOCATION L0042784     VOLUME   441775.155 3760856.661 202.33
LOCATION L0042785     VOLUME   441770.155 3760856.685 202.32
LOCATION L0042786     VOLUME   441765.155 3760856.710 202.30
LOCATION L0042787     VOLUME   441760.155 3760856.735 202.28
LOCATION L0042788     VOLUME   441755.155 3760856.759 202.26
LOCATION L0042789     VOLUME   441750.155 3760856.784 202.24
LOCATION L0042790     VOLUME   441745.155 3760856.808 202.23
LOCATION L0042791     VOLUME   441740.155 3760856.833 202.21
LOCATION L0042792     VOLUME   441735.155 3760856.857 202.20
LOCATION L0042793     VOLUME   441730.155 3760856.882 202.19
LOCATION L0042794     VOLUME   441725.155 3760856.906 202.18
LOCATION L0042795     VOLUME   441720.155 3760856.931 202.17
LOCATION L0042796     VOLUME   441715.156 3760856.955 202.16
LOCATION L0042797     VOLUME   441710.156 3760856.980 202.15
LOCATION L0042798     VOLUME   441705.156 3760857.004 202.15
LOCATION L0042799     VOLUME   441700.156 3760857.029 202.14
LOCATION L0042800     VOLUME   441695.156 3760857.053 202.13
LOCATION L0042801     VOLUME   441690.156 3760857.078 202.12
LOCATION L0042802     VOLUME   441685.156 3760857.102 202.12
LOCATION L0042803     VOLUME   441680.156 3760857.127 202.11
LOCATION L0042804     VOLUME   441675.156 3760857.151 202.10
LOCATION L0042805     VOLUME   441670.156 3760857.176 202.09
LOCATION L0042806     VOLUME   441665.156 3760857.200 202.09
LOCATION L0042807     VOLUME   441660.156 3760857.225 202.09
LOCATION L0042808     VOLUME   441655.156 3760857.249 202.09
LOCATION L0042809     VOLUME   441650.156 3760857.274 202.09
LOCATION L0042810     VOLUME   441645.156 3760857.298 202.09
LOCATION L0042811     VOLUME   441640.156 3760857.323 202.09
LOCATION L0042812     VOLUME   441635.156 3760857.347 202.09
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   LOCATION L0042813     VOLUME   441630.157 3760857.372 202.10
   LOCATION L0042814     VOLUME   441625.157 3760857.396 202.10
   LOCATION L0042815     VOLUME   441620.157 3760857.421 202.11
   LOCATION L0042816     VOLUME   441615.157 3760857.445 202.07
   LOCATION L0042817     VOLUME   441610.157 3760857.470 202.03
   LOCATION L0042818     VOLUME   441605.157 3760857.494 201.98
   LOCATION L0042819     VOLUME   441600.157 3760857.519 201.94
   LOCATION L0042820     VOLUME   441595.157 3760857.544 201.89
   LOCATION L0042821     VOLUME   441590.157 3760857.568 201.85
   LOCATION L0042822     VOLUME   441585.157 3760857.593 201.80
   LOCATION L0042823     VOLUME   441580.157 3760857.617 201.75
   LOCATION L0042824     VOLUME   441575.157 3760857.642 201.70
   LOCATION L0042825     VOLUME   441570.157 3760857.666 201.65
   LOCATION L0042826     VOLUME   441565.157 3760857.691 201.67
   LOCATION L0042827     VOLUME   441560.157 3760857.715 201.76
   LOCATION L0042828     VOLUME   441555.157 3760857.740 201.85
   LOCATION L0042829     VOLUME   441550.158 3760857.764 201.94
   LOCATION L0042830     VOLUME   441545.158 3760857.789 202.04
   LOCATION L0042831     VOLUME   441540.158 3760857.813 202.08
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Driveway 1
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.7E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441191.229, 3761142.587, 202.97, 3.66, 2.33
** 441209.470, 3761142.929, 203.44, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042832     VOLUME   441193.728 3761142.634 203.12
   LOCATION L0042833     VOLUME   441198.727 3761142.727 203.21
   LOCATION L0042834     VOLUME   441203.726 3761142.821 203.30
   LOCATION L0042835     VOLUME   441208.725 3761142.915 203.39
** End of LINE VOLUME Source ID = SLINE32
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Driveway 7
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.81E-07
** Vertical Dimension = 6.22
```

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** SZINIT = 2.89
** Nodes = 3
** 441552.117, 3760467.647, 199.96, 3.66, 2.33
** 441552.105, 3760491.622, 199.66, 3.66, 2.33
** 441529.849, 3760518.857, 199.56, 3.66, 2.33
** ----------------------------------------------------------------
   LOCATION L0042836     VOLUME   441552.116 3760470.147 199.95
   LOCATION L0042837     VOLUME   441552.113 3760475.147 199.96
   LOCATION L0042838     VOLUME   441552.111 3760480.147 199.88
   LOCATION L0042839     VOLUME   441552.108 3760485.147 199.81
   LOCATION L0042840     VOLUME   441552.106 3760490.147 199.73
   LOCATION L0042841     VOLUME   441549.874 3760494.352 199.68
   LOCATION L0042842     VOLUME   441546.710 3760498.223 199.63
   LOCATION L0042843     VOLUME   441543.546 3760502.095 199.59
   LOCATION L0042844     VOLUME   441540.383 3760505.967 199.58
   LOCATION L0042845     VOLUME   441537.219 3760509.838 199.58
   LOCATION L0042846     VOLUME   441534.055 3760513.710 199.56
   LOCATION L0042847     VOLUME   441530.891 3760517.581 199.55
** End of LINE VOLUME Source ID = SLINE33
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC PA 5 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 2.03E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441746.676, 3760470.154, 200.09, 3.66, 2.33
** 441746.703, 3760499.185, 200.01, 3.66, 2.33
** ----------------------------------------------------------------
   LOCATION L0042848     VOLUME   441746.679 3760472.654 200.09
   LOCATION L0042849     VOLUME   441746.683 3760477.654 200.08
   LOCATION L0042850     VOLUME   441746.688 3760482.654 200.07
   LOCATION L0042851     VOLUME   441746.693 3760487.654 200.05
   LOCATION L0042852     VOLUME   441746.697 3760492.654 200.04
   LOCATION L0042853     VOLUME   441746.702 3760497.654 200.02
** End of LINE VOLUME Source ID = SLINE34
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC PA 4 Driveway - Campus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 2.58E-07
```

```
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441186.518, 3760874.815, 201.31, 3.66, 2.33
** 441138.711, 3760874.733, 201.46, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042854     VOLUME   441184.018 3760874.811 201.33
   LOCATION L0042855     VOLUME   441179.018 3760874.802 201.31
   LOCATION L0042856     VOLUME   441174.018 3760874.794 201.31
   LOCATION L0042857     VOLUME   441169.018 3760874.785 201.32
   LOCATION L0042858     VOLUME   441164.018 3760874.776 201.32
   LOCATION L0042859     VOLUME   441159.018 3760874.768 201.32
   LOCATION L0042860     VOLUME   441154.018 3760874.759 201.34
   LOCATION L0042861     VOLUME   441149.018 3760874.750 201.37
   LOCATION L0042862     VOLUME   441144.018 3760874.742 201.40
   LOCATION L0042863     VOLUME   441139.018 3760874.733 201.42
** End of LINE VOLUME Source ID = SLINE35
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC PA 4 Driveway - Merrill Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.02E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440992.050, 3760468.043, 197.63, 3.66, 2.33
** 440991.934, 3760506.772, 198.71, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042864     VOLUME   440992.043 3760470.543 197.77
   LOCATION L0042865     VOLUME   440992.028 3760475.543 197.84
   LOCATION L0042866     VOLUME   440992.013 3760480.543 197.97
   LOCATION L0042867     VOLUME   440991.998 3760485.543 198.10
   LOCATION L0042868     VOLUME   440991.983 3760490.543 198.23
   LOCATION L0042869     VOLUME   440991.968 3760495.543 198.36
   LOCATION L0042870     VOLUME   440991.953 3760500.543 198.49
   LOCATION L0042871     VOLUME   440991.937 3760505.543 198.62
** End of LINE VOLUME Source ID = SLINE36
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Campus Ave - Merill Ave to PA 4 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 4.27E-06
```

```
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440778.565, 3760469.565, 196.71, 3.66, 2.33
** 440779.948, 3760845.054, 199.45, 3.66, 2.33
** ----------------------------------------------------------------
   LOCATION L0042872     VOLUME   440778.575 3760472.065 196.71
   LOCATION L0042873     VOLUME   440778.593 3760477.065 196.77
   LOCATION L0042874     VOLUME   440778.611 3760482.065 196.80
   LOCATION L0042875     VOLUME   440778.630 3760487.065 196.83
   LOCATION L0042876     VOLUME   440778.648 3760492.065 196.85
   LOCATION L0042877     VOLUME   440778.667 3760497.065 196.88
   LOCATION L0042878     VOLUME   440778.685 3760502.065 196.91
   LOCATION L0042879     VOLUME   440778.704 3760507.064 196.93
   LOCATION L0042880     VOLUME   440778.722 3760512.064 196.97
   LOCATION L0042881     VOLUME   440778.740 3760517.064 197.01
   LOCATION L0042882     VOLUME   440778.759 3760522.064 197.05
   LOCATION L0042883     VOLUME   440778.777 3760527.064 197.09
   LOCATION L0042884     VOLUME   440778.796 3760532.064 197.13
   LOCATION L0042885     VOLUME   440778.814 3760537.064 197.16
   LOCATION L0042886     VOLUME   440778.832 3760542.064 197.21
   LOCATION L0042887     VOLUME   440778.851 3760547.064 197.25
   LOCATION L0042888     VOLUME   440778.869 3760552.064 197.29
   LOCATION L0042889     VOLUME   440778.888 3760557.064 197.33
   LOCATION L0042890     VOLUME   440778.906 3760562.064 197.37
   LOCATION L0042891     VOLUME   440778.925 3760567.064 197.41
   LOCATION L0042892     VOLUME   440778.943 3760572.064 197.45
   LOCATION L0042893     VOLUME   440778.961 3760577.064 197.49
   LOCATION L0042894     VOLUME   440778.980 3760582.064 197.54
   LOCATION L0042895     VOLUME   440778.998 3760587.064 197.58
   LOCATION L0042896     VOLUME   440779.017 3760592.064 197.62
   LOCATION L0042897     VOLUME   440779.035 3760597.064 197.67
   LOCATION L0042898     VOLUME   440779.053 3760602.064 197.71
   LOCATION L0042899     VOLUME   440779.072 3760607.064 197.75
   LOCATION L0042900     VOLUME   440779.090 3760612.064 197.79
   LOCATION L0042901     VOLUME   440779.109 3760617.064 197.83
   LOCATION L0042902     VOLUME   440779.127 3760622.064 197.87
   LOCATION L0042903     VOLUME   440779.146 3760627.064 197.91
   LOCATION L0042904     VOLUME   440779.164 3760632.064 197.95
   LOCATION L0042905     VOLUME   440779.182 3760637.064 198.00
   LOCATION L0042906     VOLUME   440779.201 3760642.064 198.04
   LOCATION L0042907     VOLUME   440779.219 3760647.064 198.08
   LOCATION L0042908     VOLUME   440779.238 3760652.064 198.13
   LOCATION L0042909     VOLUME   440779.256 3760657.063 198.17
   LOCATION L0042910     VOLUME   440779.274 3760662.063 198.22
   LOCATION L0042911     VOLUME   440779.293 3760667.063 198.26
   LOCATION L0042912     VOLUME   440779.311 3760672.063 198.31
   LOCATION L0042913     VOLUME   440779.330 3760677.063 198.35
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   LOCATION L0042914     VOLUME   440779.348 3760682.063 198.40
   LOCATION L0042915     VOLUME   440779.367 3760687.063 198.44
   LOCATION L0042916     VOLUME   440779.385 3760692.063 198.49
   LOCATION L0042917     VOLUME   440779.403 3760697.063 198.53
   LOCATION L0042918     VOLUME   440779.422 3760702.063 198.57
   LOCATION L0042919     VOLUME   440779.440 3760707.063 198.60
   LOCATION L0042920     VOLUME   440779.459 3760712.063 198.64
   LOCATION L0042921     VOLUME   440779.477 3760717.063 198.68
   LOCATION L0042922     VOLUME   440779.495 3760722.063 198.71
   LOCATION L0042923     VOLUME   440779.514 3760727.063 198.75
   LOCATION L0042924     VOLUME   440779.532 3760732.063 198.78
   LOCATION L0042925     VOLUME   440779.551 3760737.063 198.81
   LOCATION L0042926     VOLUME   440779.569 3760742.063 198.84
   LOCATION L0042927     VOLUME   440779.588 3760747.063 198.87
   LOCATION L0042928     VOLUME   440779.606 3760752.063 198.91
   LOCATION L0042929     VOLUME   440779.624 3760757.063 198.96
   LOCATION L0042930     VOLUME   440779.643 3760762.063 199.05
   LOCATION L0042931     VOLUME   440779.661 3760767.063 199.13
   LOCATION L0042932     VOLUME   440779.680 3760772.063 199.22
   LOCATION L0042933     VOLUME   440779.698 3760777.063 199.31
   LOCATION L0042934     VOLUME   440779.716 3760782.063 199.39
   LOCATION L0042935     VOLUME   440779.735 3760787.063 199.46
   LOCATION L0042936     VOLUME   440779.753 3760792.063 199.47
   LOCATION L0042937     VOLUME   440779.772 3760797.063 199.49
   LOCATION L0042938     VOLUME   440779.790 3760802.062 199.50
   LOCATION L0042939     VOLUME   440779.808 3760807.062 199.51
   LOCATION L0042940     VOLUME   440779.827 3760812.062 199.53
   LOCATION L0042941     VOLUME   440779.845 3760817.062 199.54
   LOCATION L0042942     VOLUME   440779.864 3760822.062 199.52
   LOCATION L0042943     VOLUME   440779.882 3760827.062 199.51
   LOCATION L0042944     VOLUME   440779.901 3760832.062 199.50
   LOCATION L0042945     VOLUME   440779.919 3760837.062 199.49
   LOCATION L0042946     VOLUME   440779.937 3760842.062 199.47
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Campus Ave - PA 4 Driveway to PA 3 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.36E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440779.580, 3760844.831, 199.44, 3.66, 2.33
** 440779.840, 3761143.700, 202.02, 3.66, 2.33
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LOCATION L0042947     VOLUME   440779.582 3760847.331 199.46
LOCATION L0042948     VOLUME   440779.587 3760852.331 199.49
LOCATION L0042949     VOLUME   440779.591 3760857.331 199.52
LOCATION L0042950     VOLUME   440779.595 3760862.331 199.55
LOCATION L0042951     VOLUME   440779.600 3760867.331 199.58
LOCATION L0042952     VOLUME   440779.604 3760872.331 199.62
LOCATION L0042953     VOLUME   440779.609 3760877.331 199.65
LOCATION L0042954     VOLUME   440779.613 3760882.331 199.68
LOCATION L0042955     VOLUME   440779.617 3760887.331 199.72
LOCATION L0042956     VOLUME   440779.622 3760892.331 199.76
LOCATION L0042957     VOLUME   440779.626 3760897.331 199.80
LOCATION L0042958     VOLUME   440779.630 3760902.331 199.83
LOCATION L0042959     VOLUME   440779.635 3760907.331 199.87
LOCATION L0042960     VOLUME   440779.639 3760912.331 199.91
LOCATION L0042961     VOLUME   440779.643 3760917.331 199.95
LOCATION L0042962     VOLUME   440779.648 3760922.331 199.98
LOCATION L0042963     VOLUME   440779.652 3760927.331 200.02
LOCATION L0042964     VOLUME   440779.656 3760932.331 200.06
LOCATION L0042965     VOLUME   440779.661 3760937.331 200.10
LOCATION L0042966     VOLUME   440779.665 3760942.331 200.13
LOCATION L0042967     VOLUME   440779.669 3760947.331 200.17
LOCATION L0042968     VOLUME   440779.674 3760952.331 200.21
LOCATION L0042969     VOLUME   440779.678 3760957.331 200.24
LOCATION L0042970     VOLUME   440779.682 3760962.331 200.28
LOCATION L0042971     VOLUME   440779.687 3760967.331 200.32
LOCATION L0042972     VOLUME   440779.691 3760972.331 200.36
LOCATION L0042973     VOLUME   440779.695 3760977.331 200.39
LOCATION L0042974     VOLUME   440779.700 3760982.331 200.43
LOCATION L0042975     VOLUME   440779.704 3760987.331 200.47
LOCATION L0042976     VOLUME   440779.708 3760992.331 200.51
LOCATION L0042977     VOLUME   440779.713 3760997.331 200.55
LOCATION L0042978     VOLUME   440779.717 3761002.331 200.59
LOCATION L0042979     VOLUME   440779.721 3761007.331 200.63
LOCATION L0042980     VOLUME   440779.726 3761012.331 200.66
LOCATION L0042981     VOLUME   440779.730 3761017.331 200.70
LOCATION L0042982     VOLUME   440779.734 3761022.331 200.74
LOCATION L0042983     VOLUME   440779.739 3761027.331 200.78
LOCATION L0042984     VOLUME   440779.743 3761032.331 200.81
LOCATION L0042985     VOLUME   440779.747 3761037.331 200.85
LOCATION L0042986     VOLUME   440779.752 3761042.331 200.89
LOCATION L0042987     VOLUME   440779.756 3761047.331 200.93
LOCATION L0042988     VOLUME   440779.760 3761052.331 200.97
LOCATION L0042989     VOLUME   440779.765 3761057.331 201.01
LOCATION L0042990     VOLUME   440779.769 3761062.331 201.05
LOCATION L0042991     VOLUME   440779.773 3761067.331 201.09
LOCATION L0042992     VOLUME   440779.778 3761072.331 201.13
LOCATION L0042993     VOLUME   440779.782 3761077.331 201.17
LOCATION L0042994     VOLUME   440779.786 3761082.331 201.21
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   LOCATION L0042995     VOLUME   440779.791 3761087.331 201.25
   LOCATION L0042996     VOLUME   440779.795 3761092.331 201.29
   LOCATION L0042997     VOLUME   440779.799 3761097.331 201.33
   LOCATION L0042998     VOLUME   440779.804 3761102.331 201.38
   LOCATION L0042999     VOLUME   440779.808 3761107.331 201.43
   LOCATION L0043000     VOLUME   440779.812 3761112.331 201.47
   LOCATION L0043001     VOLUME   440779.817 3761117.331 201.52
   LOCATION L0043002     VOLUME   440779.821 3761122.331 201.56
   LOCATION L0043003     VOLUME   440779.825 3761127.331 201.61
   LOCATION L0043004     VOLUME   440779.830 3761132.331 201.67
   LOCATION L0043005     VOLUME   440779.834 3761137.331 201.72
   LOCATION L0043006     VOLUME   440779.838 3761142.331 201.78
** End of LINE VOLUME Source ID = SLINE38
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
** DESCRSRC Campus Ave - PA 3 Driveway to Eucalyptus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.69E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440779.648, 3761144.185, 202.03, 3.66, 2.33
** 440779.529, 3761266.902, 203.58, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043007     VOLUME   440779.645 3761146.685 201.83
   LOCATION L0043008     VOLUME   440779.641 3761151.685 201.88
   LOCATION L0043009     VOLUME   440779.636 3761156.685 201.94
   LOCATION L0043010     VOLUME   440779.631 3761161.685 201.99
   LOCATION L0043011     VOLUME   440779.626 3761166.685 202.05
   LOCATION L0043012     VOLUME   440779.621 3761171.685 202.10
   LOCATION L0043013     VOLUME   440779.616 3761176.685 202.15
   LOCATION L0043014     VOLUME   440779.611 3761181.685 202.21
   LOCATION L0043015     VOLUME   440779.607 3761186.685 202.26
   LOCATION L0043016     VOLUME   440779.602 3761191.685 202.33
   LOCATION L0043017     VOLUME   440779.597 3761196.685 202.39
   LOCATION L0043018     VOLUME   440779.592 3761201.685 202.45
   LOCATION L0043019     VOLUME   440779.587 3761206.685 202.51
   LOCATION L0043020     VOLUME   440779.582 3761211.685 202.58
   LOCATION L0043021     VOLUME   440779.577 3761216.685 202.64
   LOCATION L0043022     VOLUME   440779.573 3761221.685 202.72
   LOCATION L0043023     VOLUME   440779.568 3761226.685 202.81
   LOCATION L0043024     VOLUME   440779.563 3761231.685 202.90
   LOCATION L0043025     VOLUME   440779.558 3761236.685 202.99
   LOCATION L0043026     VOLUME   440779.553 3761241.685 203.07
   LOCATION L0043027     VOLUME   440779.548 3761246.685 203.16
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   LOCATION L0043028     VOLUME   440779.543 3761251.685 203.25
   LOCATION L0043029     VOLUME   440779.539 3761256.685 203.35
   LOCATION L0043030     VOLUME   440779.534 3761261.685 203.44
   LOCATION L0043031     VOLUME   440779.529 3761266.685 203.54
** End of LINE VOLUME Source ID = SLINE39
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 2.25E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440779.198, 3761269.224, 203.65, 3.66, 2.33
** 440942.586, 3761268.039, 204.11, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043032     VOLUME   440781.698 3761269.206 203.59
   LOCATION L0043033     VOLUME   440786.698 3761269.170 203.59
   LOCATION L0043034     VOLUME   440791.698 3761269.133 203.59
   LOCATION L0043035     VOLUME   440796.698 3761269.097 203.59
   LOCATION L0043036     VOLUME   440801.698 3761269.061 203.60
   LOCATION L0043037     VOLUME   440806.698 3761269.025 203.62
   LOCATION L0043038     VOLUME   440811.697 3761268.988 203.63
   LOCATION L0043039     VOLUME   440816.697 3761268.952 203.64
   LOCATION L0043040     VOLUME   440821.697 3761268.916 203.66
   LOCATION L0043041     VOLUME   440826.697 3761268.879 203.68
   LOCATION L0043042     VOLUME   440831.697 3761268.843 203.72
   LOCATION L0043043     VOLUME   440836.697 3761268.807 203.77
   LOCATION L0043044     VOLUME   440841.697 3761268.771 203.81
   LOCATION L0043045     VOLUME   440846.697 3761268.734 203.86
   LOCATION L0043046     VOLUME   440851.696 3761268.698 203.90
   LOCATION L0043047     VOLUME   440856.696 3761268.662 203.91
   LOCATION L0043048     VOLUME   440861.696 3761268.626 203.93
   LOCATION L0043049     VOLUME   440866.696 3761268.589 203.94
   LOCATION L0043050     VOLUME   440871.696 3761268.553 203.95
   LOCATION L0043051     VOLUME   440876.696 3761268.517 203.96
   LOCATION L0043052     VOLUME   440881.696 3761268.481 203.98
   LOCATION L0043053     VOLUME   440886.695 3761268.444 203.99
   LOCATION L0043054     VOLUME   440891.695 3761268.408 204.00
   LOCATION L0043055     VOLUME   440896.695 3761268.372 204.01
   LOCATION L0043056     VOLUME   440901.695 3761268.336 204.02
   LOCATION L0043057     VOLUME   440906.695 3761268.299 204.04
   LOCATION L0043058     VOLUME   440911.695 3761268.263 204.05
   LOCATION L0043059     VOLUME   440916.695 3761268.227 204.06
   LOCATION L0043060     VOLUME   440921.695 3761268.191 204.07
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   LOCATION L0043061     VOLUME   440926.694 3761268.154 204.08
   LOCATION L0043062     VOLUME   440931.694 3761268.118 204.09
   LOCATION L0043063     VOLUME   440936.694 3761268.082 204.09
   LOCATION L0043064     VOLUME   440941.694 3761268.045 204.09
** End of LINE VOLUME Source ID = SLINE40
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC Eucalyptus Ave - PA 3 Driveway to Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.39E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440942.599, 3761268.120, 204.11, 3.66, 2.33
** 441189.790, 3761269.451, 204.07, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043065     VOLUME   440945.099 3761268.133 204.09
   LOCATION L0043066     VOLUME   440950.099 3761268.160 204.09
   LOCATION L0043067     VOLUME   440955.099 3761268.187 204.09
   LOCATION L0043068     VOLUME   440960.098 3761268.214 204.10
   LOCATION L0043069     VOLUME   440965.098 3761268.241 204.10
   LOCATION L0043070     VOLUME   440970.098 3761268.268 204.11
   LOCATION L0043071     VOLUME   440975.098 3761268.295 204.11
   LOCATION L0043072     VOLUME   440980.098 3761268.322 204.12
   LOCATION L0043073     VOLUME   440985.098 3761268.349 204.13
   LOCATION L0043074     VOLUME   440990.098 3761268.376 204.15
   LOCATION L0043075     VOLUME   440995.098 3761268.402 204.16
   LOCATION L0043076     VOLUME   441000.098 3761268.429 204.18
   LOCATION L0043077     VOLUME   441005.098 3761268.456 204.20
   LOCATION L0043078     VOLUME   441010.098 3761268.483 204.20
   LOCATION L0043079     VOLUME   441015.098 3761268.510 204.20
   LOCATION L0043080     VOLUME   441020.098 3761268.537 204.20
   LOCATION L0043081     VOLUME   441025.098 3761268.564 204.20
   LOCATION L0043082     VOLUME   441030.097 3761268.591 204.20
   LOCATION L0043083     VOLUME   441035.097 3761268.618 204.19
   LOCATION L0043084     VOLUME   441040.097 3761268.645 204.17
   LOCATION L0043085     VOLUME   441045.097 3761268.672 204.15
   LOCATION L0043086     VOLUME   441050.097 3761268.699 204.13
   LOCATION L0043087     VOLUME   441055.097 3761268.725 204.11
   LOCATION L0043088     VOLUME   441060.097 3761268.752 204.09
   LOCATION L0043089     VOLUME   441065.097 3761268.779 204.08
   LOCATION L0043090     VOLUME   441070.097 3761268.806 204.06
   LOCATION L0043091     VOLUME   441075.097 3761268.833 204.05
   LOCATION L0043092     VOLUME   441080.097 3761268.860 204.03
   LOCATION L0043093     VOLUME   441085.097 3761268.887 204.02
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   LOCATION L0043094     VOLUME   441090.097 3761268.914 204.01
   LOCATION L0043095     VOLUME   441095.097 3761268.941 204.01
   LOCATION L0043096     VOLUME   441100.096 3761268.968 204.00
   LOCATION L0043097     VOLUME   441105.096 3761268.995 203.99
   LOCATION L0043098     VOLUME   441110.096 3761269.022 204.00
   LOCATION L0043099     VOLUME   441115.096 3761269.048 204.01
   LOCATION L0043100     VOLUME   441120.096 3761269.075 204.03
   LOCATION L0043101     VOLUME   441125.096 3761269.102 204.04
   LOCATION L0043102     VOLUME   441130.096 3761269.129 204.06
   LOCATION L0043103     VOLUME   441135.096 3761269.156 204.07
   LOCATION L0043104     VOLUME   441140.096 3761269.183 204.08
   LOCATION L0043105     VOLUME   441145.096 3761269.210 204.09
   LOCATION L0043106     VOLUME   441150.096 3761269.237 204.10
   LOCATION L0043107     VOLUME   441155.096 3761269.264 204.10
   LOCATION L0043108     VOLUME   441160.096 3761269.291 204.11
   LOCATION L0043109     VOLUME   441165.096 3761269.318 204.09
   LOCATION L0043110     VOLUME   441170.095 3761269.344 204.07
   LOCATION L0043111     VOLUME   441175.095 3761269.371 204.05
   LOCATION L0043112     VOLUME   441180.095 3761269.398 204.04
   LOCATION L0043113     VOLUME   441185.095 3761269.425 204.02
** End of LINE VOLUME Source ID = SLINE41
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE42
** DESCRSRC PA 3 Driveway - Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.83E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441186.476, 3761151.616, 203.01, 3.66, 2.33
** 441133.863, 3761152.910, 202.93, 3.66, 2.33
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   LOCATION L0043114     VOLUME   441183.977 3761151.677 203.00
   LOCATION L0043115     VOLUME   441178.979 3761151.800 202.96
   LOCATION L0043116     VOLUME   441173.980 3761151.923 202.92
   LOCATION L0043117     VOLUME   441168.982 3761152.046 202.88
   LOCATION L0043118     VOLUME   441163.983 3761152.169 202.84
   LOCATION L0043119     VOLUME   441158.985 3761152.292 202.80
   LOCATION L0043120     VOLUME   441153.986 3761152.415 202.82
   LOCATION L0043121     VOLUME   441148.988 3761152.538 202.85
   LOCATION L0043122     VOLUME   441143.989 3761152.661 202.87
   LOCATION L0043123     VOLUME   441138.991 3761152.784 202.90
   LOCATION L0043124     VOLUME   441133.992 3761152.907 202.92
** End of LINE VOLUME Source ID = SLINE42
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE43
** DESCRSRC PA 3 Driveway - Eucalyptus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 8.96E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440943.428, 3761267.210, 204.11, 3.66, 2.33
** 440943.697, 3761234.532, 204.08, 3.66, 2.33
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   LOCATION L0043125     VOLUME   440943.449 3761264.710 204.09
   LOCATION L0043126     VOLUME   440943.490 3761259.710 204.08
   LOCATION L0043127     VOLUME   440943.531 3761254.710 204.07
   LOCATION L0043128     VOLUME   440943.572 3761249.711 204.06
   LOCATION L0043129     VOLUME   440943.613 3761244.711 204.07
   LOCATION L0043130     VOLUME   440943.655 3761239.711 204.10
   LOCATION L0043131     VOLUME   440943.696 3761234.711 204.13
** End of LINE VOLUME Source ID = SLINE43
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE44
** DESCRSRC PA 3 Driveway - Campus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.02E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440782.168, 3761145.495, 202.04, 3.66, 2.33
** 440813.786, 3761145.259, 202.21, 3.66, 2.33
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   LOCATION L0043132     VOLUME   440784.668 3761145.476 201.87
   LOCATION L0043133     VOLUME   440789.668 3761145.439 201.93
   LOCATION L0043134     VOLUME   440794.668 3761145.402 201.99
   LOCATION L0043135     VOLUME   440799.667 3761145.364 202.04
   LOCATION L0043136     VOLUME   440804.667 3761145.327 202.10
   LOCATION L0043137     VOLUME   440809.667 3761145.289 202.16
** End of LINE VOLUME Source ID = SLINE44
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE45
** DESCRSRC PA 4 Driveway - Campus Ave
** PREFIX
** Length of Side = 5.00
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** Configuration = Adjacent
** Emission Rate = 2.58E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440782.053, 3760845.530, 199.47, 3.66, 2.33
** 440820.788, 3760845.246, 199.74, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043138     VOLUME   440784.553 3760845.511 199.50
   LOCATION L0043139     VOLUME   440789.553 3760845.475 199.53
   LOCATION L0043140     VOLUME   440794.553 3760845.438 199.56
   LOCATION L0043141     VOLUME   440799.553 3760845.402 199.60
   LOCATION L0043142     VOLUME   440804.553 3760845.365 199.63
   LOCATION L0043143     VOLUME   440809.552 3760845.329 199.65
   LOCATION L0043144     VOLUME   440814.552 3760845.292 199.68
   LOCATION L0043145     VOLUME   440819.552 3760845.255 199.71
** End of LINE VOLUME Source ID = SLINE45
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE46
** DESCRSRC On-site Circulation - Blgs 4-8 and Bldg 2
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 0.0000107
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441210.794, 3761143.089, 203.44, 3.66, 2.33
** 441990.105, 3761141.604, 204.38, 3.66, 2.33
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   LOCATION L0043146     VOLUME   441213.294 3761143.084 203.43
   LOCATION L0043147     VOLUME   441218.294 3761143.074 203.45
   LOCATION L0043148     VOLUME   441223.294 3761143.065 203.47
   LOCATION L0043149     VOLUME   441228.294 3761143.055 203.49
   LOCATION L0043150     VOLUME   441233.294 3761143.046 203.51
   LOCATION L0043151     VOLUME   441238.294 3761143.036 203.52
   LOCATION L0043152     VOLUME   441243.294 3761143.027 203.52
   LOCATION L0043153     VOLUME   441248.294 3761143.017 203.52
   LOCATION L0043154     VOLUME   441253.294 3761143.008 203.52
   LOCATION L0043155     VOLUME   441258.294 3761142.998 203.52
   LOCATION L0043156     VOLUME   441263.294 3761142.989 203.52
   LOCATION L0043157     VOLUME   441268.294 3761142.979 203.52
   LOCATION L0043158     VOLUME   441273.294 3761142.970 203.53
   LOCATION L0043159     VOLUME   441278.294 3761142.960 203.54
   LOCATION L0043160     VOLUME   441283.294 3761142.950 203.54
   LOCATION L0043161     VOLUME   441288.294 3761142.941 203.55
   LOCATION L0043162     VOLUME   441293.294 3761142.931 203.56
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LOCATION L0043163     VOLUME   441298.294 3761142.922 203.56
LOCATION L0043164     VOLUME   441303.294 3761142.912 203.57
LOCATION L0043165     VOLUME   441308.294 3761142.903 203.58
LOCATION L0043166     VOLUME   441313.294 3761142.893 203.59
LOCATION L0043167     VOLUME   441318.294 3761142.884 203.59
LOCATION L0043168     VOLUME   441323.294 3761142.874 203.59
LOCATION L0043169     VOLUME   441328.293 3761142.865 203.59
LOCATION L0043170     VOLUME   441333.293 3761142.855 203.60
LOCATION L0043171     VOLUME   441338.293 3761142.846 203.60
LOCATION L0043172     VOLUME   441343.293 3761142.836 203.61
LOCATION L0043173     VOLUME   441348.293 3761142.827 203.62
LOCATION L0043174     VOLUME   441353.293 3761142.817 203.63
LOCATION L0043175     VOLUME   441358.293 3761142.808 203.64
LOCATION L0043176     VOLUME   441363.293 3761142.798 203.65
LOCATION L0043177     VOLUME   441368.293 3761142.789 203.65
LOCATION L0043178     VOLUME   441373.293 3761142.779 203.65
LOCATION L0043179     VOLUME   441378.293 3761142.769 203.65
LOCATION L0043180     VOLUME   441383.293 3761142.760 203.66
LOCATION L0043181     VOLUME   441388.293 3761142.750 203.66
LOCATION L0043182     VOLUME   441393.293 3761142.741 203.65
LOCATION L0043183     VOLUME   441398.293 3761142.731 203.63
LOCATION L0043184     VOLUME   441403.293 3761142.722 203.62
LOCATION L0043185     VOLUME   441408.293 3761142.712 203.60
LOCATION L0043186     VOLUME   441413.293 3761142.703 203.59
LOCATION L0043187     VOLUME   441418.293 3761142.693 203.58
LOCATION L0043188     VOLUME   441423.293 3761142.684 203.59
LOCATION L0043189     VOLUME   441428.293 3761142.674 203.59
LOCATION L0043190     VOLUME   441433.293 3761142.665 203.59
LOCATION L0043191     VOLUME   441438.293 3761142.655 203.60
LOCATION L0043192     VOLUME   441443.293 3761142.646 203.60
LOCATION L0043193     VOLUME   441448.293 3761142.636 203.60
LOCATION L0043194     VOLUME   441453.293 3761142.627 203.61
LOCATION L0043195     VOLUME   441458.293 3761142.617 203.61
LOCATION L0043196     VOLUME   441463.293 3761142.608 203.62
LOCATION L0043197     VOLUME   441468.293 3761142.598 203.62
LOCATION L0043198     VOLUME   441473.293 3761142.589 203.62
LOCATION L0043199     VOLUME   441478.293 3761142.579 203.63
LOCATION L0043200     VOLUME   441483.293 3761142.569 203.63
LOCATION L0043201     VOLUME   441488.293 3761142.560 203.63
LOCATION L0043202     VOLUME   441493.293 3761142.550 203.64
LOCATION L0043203     VOLUME   441498.293 3761142.541 203.64
LOCATION L0043204     VOLUME   441503.293 3761142.531 203.65
LOCATION L0043205     VOLUME   441508.293 3761142.522 203.65
LOCATION L0043206     VOLUME   441513.293 3761142.512 203.65
LOCATION L0043207     VOLUME   441518.293 3761142.503 203.66
LOCATION L0043208     VOLUME   441523.293 3761142.493 203.68
LOCATION L0043209     VOLUME   441528.293 3761142.484 203.69
LOCATION L0043210     VOLUME   441533.293 3761142.474 203.71
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LOCATION L0043211     VOLUME   441538.293 3761142.465 203.72
LOCATION L0043212     VOLUME   441543.293 3761142.455 203.74
LOCATION L0043213     VOLUME   441548.293 3761142.446 203.77
LOCATION L0043214     VOLUME   441553.293 3761142.436 203.81
LOCATION L0043215     VOLUME   441558.293 3761142.427 203.85
LOCATION L0043216     VOLUME   441563.293 3761142.417 203.89
LOCATION L0043217     VOLUME   441568.293 3761142.408 203.92
LOCATION L0043218     VOLUME   441573.293 3761142.398 203.97
LOCATION L0043219     VOLUME   441578.293 3761142.388 204.02
LOCATION L0043220     VOLUME   441583.293 3761142.379 204.07
LOCATION L0043221     VOLUME   441588.293 3761142.369 204.12
LOCATION L0043222     VOLUME   441593.293 3761142.360 204.18
LOCATION L0043223     VOLUME   441598.293 3761142.350 204.24
LOCATION L0043224     VOLUME   441603.293 3761142.341 204.30
LOCATION L0043225     VOLUME   441608.293 3761142.331 204.37
LOCATION L0043226     VOLUME   441613.293 3761142.322 204.43
LOCATION L0043227     VOLUME   441618.293 3761142.312 204.50
LOCATION L0043228     VOLUME   441623.293 3761142.303 204.50
LOCATION L0043229     VOLUME   441628.293 3761142.293 204.46
LOCATION L0043230     VOLUME   441633.293 3761142.284 204.41
LOCATION L0043231     VOLUME   441638.293 3761142.274 204.37
LOCATION L0043232     VOLUME   441643.293 3761142.265 204.32
LOCATION L0043233     VOLUME   441648.293 3761142.255 204.27
LOCATION L0043234     VOLUME   441653.293 3761142.246 204.21
LOCATION L0043235     VOLUME   441658.293 3761142.236 204.16
LOCATION L0043236     VOLUME   441663.293 3761142.227 204.10
LOCATION L0043237     VOLUME   441668.293 3761142.217 204.04
LOCATION L0043238     VOLUME   441673.293 3761142.207 203.98
LOCATION L0043239     VOLUME   441678.293 3761142.198 203.93
LOCATION L0043240     VOLUME   441683.293 3761142.188 203.87
LOCATION L0043241     VOLUME   441688.293 3761142.179 203.81
LOCATION L0043242     VOLUME   441693.293 3761142.169 203.75
LOCATION L0043243     VOLUME   441698.293 3761142.160 203.70
LOCATION L0043244     VOLUME   441703.293 3761142.150 203.75
LOCATION L0043245     VOLUME   441708.293 3761142.141 203.80
LOCATION L0043246     VOLUME   441713.293 3761142.131 203.84
LOCATION L0043247     VOLUME   441718.293 3761142.122 203.89
LOCATION L0043248     VOLUME   441723.293 3761142.112 203.93
LOCATION L0043249     VOLUME   441728.293 3761142.103 204.01
LOCATION L0043250     VOLUME   441733.293 3761142.093 204.09
LOCATION L0043251     VOLUME   441738.293 3761142.084 204.17
LOCATION L0043252     VOLUME   441743.293 3761142.074 204.25
LOCATION L0043253     VOLUME   441748.293 3761142.065 204.33
LOCATION L0043254     VOLUME   441753.293 3761142.055 204.36
LOCATION L0043255     VOLUME   441758.293 3761142.046 204.39
LOCATION L0043256     VOLUME   441763.293 3761142.036 204.42
LOCATION L0043257     VOLUME   441768.293 3761142.026 204.45
LOCATION L0043258     VOLUME   441773.293 3761142.017 204.48
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   LOCATION L0043259     VOLUME   441778.293 3761142.007 204.50
   LOCATION L0043260     VOLUME   441783.293 3761141.998 204.51
   LOCATION L0043261     VOLUME   441788.293 3761141.988 204.53
   LOCATION L0043262     VOLUME   441793.293 3761141.979 204.54
   LOCATION L0043263     VOLUME   441798.293 3761141.969 204.55
   LOCATION L0043264     VOLUME   441803.293 3761141.960 204.53
   LOCATION L0043265     VOLUME   441808.293 3761141.950 204.48
   LOCATION L0043266     VOLUME   441813.293 3761141.941 204.43
   LOCATION L0043267     VOLUME   441818.293 3761141.931 204.39
   LOCATION L0043268     VOLUME   441823.293 3761141.922 204.34
   LOCATION L0043269     VOLUME   441828.293 3761141.912 204.28
   LOCATION L0043270     VOLUME   441833.293 3761141.903 204.21
   LOCATION L0043271     VOLUME   441838.293 3761141.893 204.14
   LOCATION L0043272     VOLUME   441843.293 3761141.884 204.07
   LOCATION L0043273     VOLUME   441848.293 3761141.874 204.00
   LOCATION L0043274     VOLUME   441853.293 3761141.865 203.94
   LOCATION L0043275     VOLUME   441858.293 3761141.855 203.90
   LOCATION L0043276     VOLUME   441863.293 3761141.846 203.85
   LOCATION L0043277     VOLUME   441868.293 3761141.836 203.81
   LOCATION L0043278     VOLUME   441873.293 3761141.826 203.77
   LOCATION L0043279     VOLUME   441878.292 3761141.817 203.75
   LOCATION L0043280     VOLUME   441883.292 3761141.807 203.82
   LOCATION L0043281     VOLUME   441888.292 3761141.798 203.90
   LOCATION L0043282     VOLUME   441893.292 3761141.788 203.97
   LOCATION L0043283     VOLUME   441898.292 3761141.779 204.04
   LOCATION L0043284     VOLUME   441903.292 3761141.769 204.12
   LOCATION L0043285     VOLUME   441908.292 3761141.760 204.23
   LOCATION L0043286     VOLUME   441913.292 3761141.750 204.34
   LOCATION L0043287     VOLUME   441918.292 3761141.741 204.45
   LOCATION L0043288     VOLUME   441923.292 3761141.731 204.56
   LOCATION L0043289     VOLUME   441928.292 3761141.722 204.67
   LOCATION L0043290     VOLUME   441933.292 3761141.712 204.68
   LOCATION L0043291     VOLUME   441938.292 3761141.703 204.69
   LOCATION L0043292     VOLUME   441943.292 3761141.693 204.70
   LOCATION L0043293     VOLUME   441948.292 3761141.684 204.71
   LOCATION L0043294     VOLUME   441953.292 3761141.674 204.72
   LOCATION L0043295     VOLUME   441958.292 3761141.665 204.66
   LOCATION L0043296     VOLUME   441963.292 3761141.655 204.59
   LOCATION L0043297     VOLUME   441968.292 3761141.645 204.51
   LOCATION L0043298     VOLUME   441973.292 3761141.636 204.44
   LOCATION L0043299     VOLUME   441978.292 3761141.626 204.36
   LOCATION L0043300     VOLUME   441983.292 3761141.617 204.34
   LOCATION L0043301     VOLUME   441988.292 3761141.607 204.34
** End of LINE VOLUME Source ID = SLINE46
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE47
** DESCRSRC On-site Circulation - Bldg 1 WEST
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** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 8.94E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 441236.465, 3761139.362, 203.51, 3.66, 2.33
** 441232.048, 3760579.760, 200.12, 3.66, 2.33
** 441234.134, 3760545.343, 199.82, 3.66, 2.33
** 441245.606, 3760520.313, 198.28, 3.66, 2.33
** 441268.551, 3760504.669, 198.22, 3.66, 2.33
** 441371.695, 3760501.803, 198.54, 3.66, 2.33
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   LOCATION L0043302     VOLUME   441236.445 3761136.862 203.48
   LOCATION L0043303     VOLUME   441236.406 3761131.862 203.45
   LOCATION L0043304     VOLUME   441236.367 3761126.862 203.42
   LOCATION L0043305     VOLUME   441236.327 3761121.862 203.39
   LOCATION L0043306     VOLUME   441236.288 3761116.862 203.36
   LOCATION L0043307     VOLUME   441236.248 3761111.862 203.33
   LOCATION L0043308     VOLUME   441236.209 3761106.863 203.30
   LOCATION L0043309     VOLUME   441236.169 3761101.863 203.27
   LOCATION L0043310     VOLUME   441236.130 3761096.863 203.24
   LOCATION L0043311     VOLUME   441236.090 3761091.863 203.21
   LOCATION L0043312     VOLUME   441236.051 3761086.863 203.18
   LOCATION L0043313     VOLUME   441236.011 3761081.863 203.15
   LOCATION L0043314     VOLUME   441235.972 3761076.864 203.13
   LOCATION L0043315     VOLUME   441235.932 3761071.864 203.10
   LOCATION L0043316     VOLUME   441235.893 3761066.864 203.07
   LOCATION L0043317     VOLUME   441235.853 3761061.864 203.04
   LOCATION L0043318     VOLUME   441235.814 3761056.864 203.01
   LOCATION L0043319     VOLUME   441235.775 3761051.864 202.97
   LOCATION L0043320     VOLUME   441235.735 3761046.865 202.94
   LOCATION L0043321     VOLUME   441235.696 3761041.865 202.91
   LOCATION L0043322     VOLUME   441235.656 3761036.865 202.88
   LOCATION L0043323     VOLUME   441235.617 3761031.865 202.84
   LOCATION L0043324     VOLUME   441235.577 3761026.865 202.81
   LOCATION L0043325     VOLUME   441235.538 3761021.865 202.78
   LOCATION L0043326     VOLUME   441235.498 3761016.865 202.75
   LOCATION L0043327     VOLUME   441235.459 3761011.866 202.72
   LOCATION L0043328     VOLUME   441235.419 3761006.866 202.68
   LOCATION L0043329     VOLUME   441235.380 3761001.866 202.65
   LOCATION L0043330     VOLUME   441235.340 3760996.866 202.62
   LOCATION L0043331     VOLUME   441235.301 3760991.866 202.59
   LOCATION L0043332     VOLUME   441235.261 3760986.866 202.56
   LOCATION L0043333     VOLUME   441235.222 3760981.867 202.52
   LOCATION L0043334     VOLUME   441235.183 3760976.867 202.49
   LOCATION L0043335     VOLUME   441235.143 3760971.867 202.46
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LOCATION L0043337     VOLUME   441235.064 3760961.867 202.39
LOCATION L0043338     VOLUME   441235.025 3760956.867 202.36
LOCATION L0043339     VOLUME   441234.985 3760951.867 202.33
LOCATION L0043340     VOLUME   441234.946 3760946.868 202.30
LOCATION L0043341     VOLUME   441234.906 3760941.868 202.26
LOCATION L0043342     VOLUME   441234.867 3760936.868 202.23
LOCATION L0043343     VOLUME   441234.827 3760931.868 202.20
LOCATION L0043344     VOLUME   441234.788 3760926.868 202.17
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LOCATION L0043346     VOLUME   441234.709 3760916.869 202.11
LOCATION L0043347     VOLUME   441234.670 3760911.869 202.08
LOCATION L0043348     VOLUME   441234.630 3760906.869 202.05
LOCATION L0043349     VOLUME   441234.591 3760901.869 202.02
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LOCATION L0043383     VOLUME   441233.249 3760731.874 200.98
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LOCATION L0043389     VOLUME   441233.012 3760701.875 200.79
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LOCATION L0043391     VOLUME   441232.933 3760691.876 200.73
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** Configuration = Adjacent
** Emission Rate = 9.21E-06
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** SZINIT = 2.89
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LOCATION L0043599     VOLUME   441531.060 3761088.877 203.28
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   LOCATION L0043604     VOLUME   441531.147 3761113.877 203.48
   LOCATION L0043605     VOLUME   441531.164 3761118.877 203.52
   LOCATION L0043606     VOLUME   441531.182 3761123.877 203.56
   LOCATION L0043607     VOLUME   441531.199 3761128.877 203.60
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   LOCATION L0043616     VOLUME   441276.479 3761193.989 203.88
   LOCATION L0043617     VOLUME   441279.478 3761194.016 203.88
   LOCATION L0043618     VOLUME   441282.478 3761194.044 203.88
   LOCATION L0043619     VOLUME   441285.478 3761194.072 203.89
   LOCATION L0043620     VOLUME   441288.478 3761194.100 203.89
   LOCATION L0043621     VOLUME   441291.478 3761194.128 203.89
   LOCATION L0043622     VOLUME   441294.478 3761194.156 203.89
   LOCATION L0043623     VOLUME   441297.478 3761194.184 203.89
   LOCATION L0043624     VOLUME   441300.477 3761194.212 203.89
   LOCATION L0043625     VOLUME   441303.477 3761194.239 203.89
   LOCATION L0043626     VOLUME   441306.477 3761194.267 203.89
   LOCATION L0043627     VOLUME   441309.477 3761194.295 203.89
   LOCATION L0043628     VOLUME   441312.477 3761194.323 203.89
   LOCATION L0043629     VOLUME   441315.477 3761194.351 203.89
** End of LINE VOLUME Source ID = SLINE49
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** Line Source Represented by Adjacent Volume Sources
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** LINE VOLUME Source ID = SLINE50
** DESCRSRC Idle - Building 5 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 1.01E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441416.126, 3761195.549, 203.84, 3.66, 1.40
** 441477.585, 3761195.215, 203.88, 3.66, 1.40
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   LOCATION L0043630     VOLUME   441417.626 3761195.541 203.92
   LOCATION L0043631     VOLUME   441420.626 3761195.525 203.93
   LOCATION L0043632     VOLUME   441423.626 3761195.509 203.93
   LOCATION L0043633     VOLUME   441426.626 3761195.492 203.93
   LOCATION L0043634     VOLUME   441429.626 3761195.476 203.93
   LOCATION L0043635     VOLUME   441432.626 3761195.460 203.93
   LOCATION L0043636     VOLUME   441435.626 3761195.443 203.94
   LOCATION L0043637     VOLUME   441438.626 3761195.427 203.94
   LOCATION L0043638     VOLUME   441441.626 3761195.411 203.94
   LOCATION L0043639     VOLUME   441444.626 3761195.394 203.94
   LOCATION L0043640     VOLUME   441447.626 3761195.378 203.94
   LOCATION L0043641     VOLUME   441450.626 3761195.361 203.95
   LOCATION L0043642     VOLUME   441453.626 3761195.345 203.95
   LOCATION L0043643     VOLUME   441456.626 3761195.329 203.95
   LOCATION L0043644     VOLUME   441459.626 3761195.312 203.95
   LOCATION L0043645     VOLUME   441462.625 3761195.296 203.95
   LOCATION L0043646     VOLUME   441465.625 3761195.280 203.95
   LOCATION L0043647     VOLUME   441468.625 3761195.263 203.96
   LOCATION L0043648     VOLUME   441471.625 3761195.247 203.96
   LOCATION L0043649     VOLUME   441474.625 3761195.231 203.97
** End of LINE VOLUME Source ID = SLINE50
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE51
** DESCRSRC Idle - Building 6 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 1.01E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441552.795, 3761194.592, 204.12, 3.66, 1.40
** 441618.096, 3761194.927, 204.71, 3.66, 1.40
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   LOCATION L0043650     VOLUME   441554.295 3761194.600 204.19
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   LOCATION L0043651     VOLUME   441557.295 3761194.615 204.22
   LOCATION L0043652     VOLUME   441560.295 3761194.631 204.25
   LOCATION L0043653     VOLUME   441563.295 3761194.646 204.28
   LOCATION L0043654     VOLUME   441566.295 3761194.661 204.31
   LOCATION L0043655     VOLUME   441569.295 3761194.677 204.34
   LOCATION L0043656     VOLUME   441572.295 3761194.692 204.36
   LOCATION L0043657     VOLUME   441575.294 3761194.708 204.39
   LOCATION L0043658     VOLUME   441578.294 3761194.723 204.42
   LOCATION L0043659     VOLUME   441581.294 3761194.738 204.45
   LOCATION L0043660     VOLUME   441584.294 3761194.754 204.47
   LOCATION L0043661     VOLUME   441587.294 3761194.769 204.50
   LOCATION L0043662     VOLUME   441590.294 3761194.784 204.53
   LOCATION L0043663     VOLUME   441593.294 3761194.800 204.56
   LOCATION L0043664     VOLUME   441596.294 3761194.815 204.59
   LOCATION L0043665     VOLUME   441599.294 3761194.831 204.61
   LOCATION L0043666     VOLUME   441602.294 3761194.846 204.64
   LOCATION L0043667     VOLUME   441605.294 3761194.861 204.67
   LOCATION L0043668     VOLUME   441608.294 3761194.877 204.70
   LOCATION L0043669     VOLUME   441611.294 3761194.892 204.73
   LOCATION L0043670     VOLUME   441614.294 3761194.908 204.76
   LOCATION L0043671     VOLUME   441617.294 3761194.923 204.79
** End of LINE VOLUME Source ID = SLINE51
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE52
** DESCRSRC Idle - Building 7 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 1.28E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441706.691, 3761196.147, 204.68, 3.66, 1.40
** 441772.731, 3761196.147, 204.68, 3.66, 1.40
** ----------------------------------------------------------------------
   LOCATION L0043672     VOLUME   441708.191 3761196.147 204.76
   LOCATION L0043673     VOLUME   441711.191 3761196.147 204.77
   LOCATION L0043674     VOLUME   441714.191 3761196.147 204.77
   LOCATION L0043675     VOLUME   441717.191 3761196.147 204.78
   LOCATION L0043676     VOLUME   441720.191 3761196.147 204.79
   LOCATION L0043677     VOLUME   441723.191 3761196.147 204.80
   LOCATION L0043678     VOLUME   441726.191 3761196.147 204.79
   LOCATION L0043679     VOLUME   441729.191 3761196.147 204.77
   LOCATION L0043680     VOLUME   441732.191 3761196.147 204.75
   LOCATION L0043681     VOLUME   441735.191 3761196.147 204.73
   LOCATION L0043682     VOLUME   441738.191 3761196.147 204.71
   LOCATION L0043683     VOLUME   441741.191 3761196.147 204.70
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   LOCATION L0043684     VOLUME   441744.191 3761196.147 204.68
   LOCATION L0043685     VOLUME   441747.191 3761196.147 204.66
   LOCATION L0043686     VOLUME   441750.191 3761196.147 204.65
   LOCATION L0043687     VOLUME   441753.191 3761196.147 204.67
   LOCATION L0043688     VOLUME   441756.191 3761196.147 204.69
   LOCATION L0043689     VOLUME   441759.191 3761196.147 204.71
   LOCATION L0043690     VOLUME   441762.191 3761196.147 204.73
   LOCATION L0043691     VOLUME   441765.191 3761196.147 204.74
   LOCATION L0043692     VOLUME   441768.191 3761196.147 204.76
   LOCATION L0043693     VOLUME   441771.191 3761196.147 204.78
** End of LINE VOLUME Source ID = SLINE52
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE53
** DESCRSRC Idle - Building 8 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 1.01E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441877.413, 3761193.808, 204.31, 3.66, 1.40
** 441940.039, 3761194.143, 204.98, 3.66, 1.40
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   LOCATION L0043694     VOLUME   441878.913 3761193.816 204.33
   LOCATION L0043695     VOLUME   441881.913 3761193.833 204.36
   LOCATION L0043696     VOLUME   441884.912 3761193.849 204.39
   LOCATION L0043697     VOLUME   441887.912 3761193.865 204.42
   LOCATION L0043698     VOLUME   441890.912 3761193.881 204.45
   LOCATION L0043699     VOLUME   441893.912 3761193.897 204.48
   LOCATION L0043700     VOLUME   441896.912 3761193.913 204.51
   LOCATION L0043701     VOLUME   441899.912 3761193.929 204.54
   LOCATION L0043702     VOLUME   441902.912 3761193.945 204.57
   LOCATION L0043703     VOLUME   441905.912 3761193.961 204.62
   LOCATION L0043704     VOLUME   441908.912 3761193.977 204.67
   LOCATION L0043705     VOLUME   441911.912 3761193.993 204.72
   LOCATION L0043706     VOLUME   441914.912 3761194.009 204.77
   LOCATION L0043707     VOLUME   441917.912 3761194.025 204.82
   LOCATION L0043708     VOLUME   441920.912 3761194.041 204.87
   LOCATION L0043709     VOLUME   441923.912 3761194.057 204.92
   LOCATION L0043710     VOLUME   441926.912 3761194.073 204.97
   LOCATION L0043711     VOLUME   441929.912 3761194.089 205.02
   LOCATION L0043712     VOLUME   441932.912 3761194.105 205.05
   LOCATION L0043713     VOLUME   441935.912 3761194.121 205.08
   LOCATION L0043714     VOLUME   441938.912 3761194.137 205.11
** End of LINE VOLUME Source ID = SLINE53
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE54
** DESCRSRC Idle - Building 2 Loading Docks - North
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 5.48E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441624.570, 3761087.775, 204.08, 3.66, 1.40
** 441912.354, 3761085.999, 203.81, 3.66, 1.40
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   LOCATION L0043715     VOLUME   441626.070 3761087.766 204.05
   LOCATION L0043716     VOLUME   441629.070 3761087.748 204.04
   LOCATION L0043717     VOLUME   441632.070 3761087.729 204.02
   LOCATION L0043718     VOLUME   441635.070 3761087.711 204.00
   LOCATION L0043719     VOLUME   441638.070 3761087.692 203.98
   LOCATION L0043720     VOLUME   441641.070 3761087.674 203.96
   LOCATION L0043721     VOLUME   441644.070 3761087.655 203.94
   LOCATION L0043722     VOLUME   441647.070 3761087.637 203.92
   LOCATION L0043723     VOLUME   441650.070 3761087.618 203.90
   LOCATION L0043724     VOLUME   441653.070 3761087.600 203.89
   LOCATION L0043725     VOLUME   441656.070 3761087.581 203.87
   LOCATION L0043726     VOLUME   441659.070 3761087.563 203.85
   LOCATION L0043727     VOLUME   441662.070 3761087.544 203.84
   LOCATION L0043728     VOLUME   441665.070 3761087.525 203.82
   LOCATION L0043729     VOLUME   441668.070 3761087.507 203.80
   LOCATION L0043730     VOLUME   441671.070 3761087.488 203.78
   LOCATION L0043731     VOLUME   441674.070 3761087.470 203.74
   LOCATION L0043732     VOLUME   441677.069 3761087.451 203.69
   LOCATION L0043733     VOLUME   441680.069 3761087.433 203.64
   LOCATION L0043734     VOLUME   441683.069 3761087.414 203.59
   LOCATION L0043735     VOLUME   441686.069 3761087.396 203.54
   LOCATION L0043736     VOLUME   441689.069 3761087.377 203.49
   LOCATION L0043737     VOLUME   441692.069 3761087.359 203.44
   LOCATION L0043738     VOLUME   441695.069 3761087.340 203.39
   LOCATION L0043739     VOLUME   441698.069 3761087.322 203.36
   LOCATION L0043740     VOLUME   441701.069 3761087.303 203.38
   LOCATION L0043741     VOLUME   441704.069 3761087.285 203.40
   LOCATION L0043742     VOLUME   441707.069 3761087.266 203.42
   LOCATION L0043743     VOLUME   441710.069 3761087.248 203.44
   LOCATION L0043744     VOLUME   441713.069 3761087.229 203.47
   LOCATION L0043745     VOLUME   441716.069 3761087.211 203.49
   LOCATION L0043746     VOLUME   441719.069 3761087.192 203.51
   LOCATION L0043747     VOLUME   441722.069 3761087.174 203.53
   LOCATION L0043748     VOLUME   441725.069 3761087.155 203.56
   LOCATION L0043749     VOLUME   441728.068 3761087.137 203.60
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LOCATION L0043750     VOLUME   441731.068 3761087.118 203.64
LOCATION L0043751     VOLUME   441734.068 3761087.100 203.68
LOCATION L0043752     VOLUME   441737.068 3761087.081 203.72
LOCATION L0043753     VOLUME   441740.068 3761087.063 203.77
LOCATION L0043754     VOLUME   441743.068 3761087.044 203.81
LOCATION L0043755     VOLUME   441746.068 3761087.026 203.85
LOCATION L0043756     VOLUME   441749.068 3761087.007 203.89
LOCATION L0043757     VOLUME   441752.068 3761086.988 203.91
LOCATION L0043758     VOLUME   441755.068 3761086.970 203.94
LOCATION L0043759     VOLUME   441758.068 3761086.951 203.96
LOCATION L0043760     VOLUME   441761.068 3761086.933 203.98
LOCATION L0043761     VOLUME   441764.068 3761086.914 204.01
LOCATION L0043762     VOLUME   441767.068 3761086.896 204.03
LOCATION L0043763     VOLUME   441770.068 3761086.877 204.06
LOCATION L0043764     VOLUME   441773.068 3761086.859 204.08
LOCATION L0043765     VOLUME   441776.068 3761086.840 204.09
LOCATION L0043766     VOLUME   441779.068 3761086.822 204.10
LOCATION L0043767     VOLUME   441782.067 3761086.803 204.10
LOCATION L0043768     VOLUME   441785.067 3761086.785 204.10
LOCATION L0043769     VOLUME   441788.067 3761086.766 204.10
LOCATION L0043770     VOLUME   441791.067 3761086.748 204.11
LOCATION L0043771     VOLUME   441794.067 3761086.729 204.11
LOCATION L0043772     VOLUME   441797.067 3761086.711 204.11
LOCATION L0043773     VOLUME   441800.067 3761086.692 204.11
LOCATION L0043774     VOLUME   441803.067 3761086.674 204.07
LOCATION L0043775     VOLUME   441806.067 3761086.655 204.02
LOCATION L0043776     VOLUME   441809.067 3761086.637 203.98
LOCATION L0043777     VOLUME   441812.067 3761086.618 203.93
LOCATION L0043778     VOLUME   441815.067 3761086.600 203.89
LOCATION L0043779     VOLUME   441818.067 3761086.581 203.85
LOCATION L0043780     VOLUME   441821.067 3761086.563 203.80
LOCATION L0043781     VOLUME   441824.067 3761086.544 203.76
LOCATION L0043782     VOLUME   441827.067 3761086.526 203.71
LOCATION L0043783     VOLUME   441830.067 3761086.507 203.67
LOCATION L0043784     VOLUME   441833.066 3761086.488 203.63
LOCATION L0043785     VOLUME   441836.066 3761086.470 203.58
LOCATION L0043786     VOLUME   441839.066 3761086.451 203.54
LOCATION L0043787     VOLUME   441842.066 3761086.433 203.49
LOCATION L0043788     VOLUME   441845.066 3761086.414 203.45
LOCATION L0043789     VOLUME   441848.066 3761086.396 203.41
LOCATION L0043790     VOLUME   441851.066 3761086.377 203.36
LOCATION L0043791     VOLUME   441854.066 3761086.359 203.35
LOCATION L0043792     VOLUME   441857.066 3761086.340 203.35
LOCATION L0043793     VOLUME   441860.066 3761086.322 203.34
LOCATION L0043794     VOLUME   441863.066 3761086.303 203.33
LOCATION L0043795     VOLUME   441866.066 3761086.285 203.32
LOCATION L0043796     VOLUME   441869.066 3761086.266 203.32
LOCATION L0043797     VOLUME   441872.066 3761086.248 203.31
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   LOCATION L0043798     VOLUME   441875.066 3761086.229 203.30
   LOCATION L0043799     VOLUME   441878.066 3761086.211 203.32
   LOCATION L0043800     VOLUME   441881.066 3761086.192 203.36
   LOCATION L0043801     VOLUME   441884.066 3761086.174 203.41
   LOCATION L0043802     VOLUME   441887.065 3761086.155 203.46
   LOCATION L0043803     VOLUME   441890.065 3761086.137 203.51
   LOCATION L0043804     VOLUME   441893.065 3761086.118 203.56
   LOCATION L0043805     VOLUME   441896.065 3761086.100 203.60
   LOCATION L0043806     VOLUME   441899.065 3761086.081 203.65
   LOCATION L0043807     VOLUME   441902.065 3761086.063 203.70
   LOCATION L0043808     VOLUME   441905.065 3761086.044 203.76
   LOCATION L0043809     VOLUME   441908.065 3761086.026 203.82
   LOCATION L0043810     VOLUME   441911.065 3761086.007 203.89
** End of LINE VOLUME Source ID = SLINE54
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE55
** DESCRSRC Idle - Building 2 Loading Docks - South
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 5.57E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441622.717, 3760908.828, 202.56, 3.66, 1.40
** 441910.733, 3760909.919, 202.76, 3.66, 1.40
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   LOCATION L0043812     VOLUME   441627.217 3760908.845 202.56
   LOCATION L0043813     VOLUME   441630.217 3760908.856 202.54
   LOCATION L0043814     VOLUME   441633.217 3760908.867 202.52
   LOCATION L0043815     VOLUME   441636.217 3760908.879 202.50
   LOCATION L0043816     VOLUME   441639.217 3760908.890 202.49
   LOCATION L0043817     VOLUME   441642.217 3760908.902 202.47
   LOCATION L0043818     VOLUME   441645.217 3760908.913 202.45
   LOCATION L0043819     VOLUME   441648.217 3760908.924 202.44
   LOCATION L0043820     VOLUME   441651.217 3760908.936 202.44
   LOCATION L0043821     VOLUME   441654.217 3760908.947 202.43
   LOCATION L0043822     VOLUME   441657.217 3760908.958 202.42
   LOCATION L0043823     VOLUME   441660.217 3760908.970 202.41
   LOCATION L0043824     VOLUME   441663.217 3760908.981 202.40
   LOCATION L0043825     VOLUME   441666.217 3760908.992 202.39
   LOCATION L0043826     VOLUME   441669.217 3760909.004 202.39
   LOCATION L0043827     VOLUME   441672.217 3760909.015 202.38
   LOCATION L0043828     VOLUME   441675.216 3760909.027 202.37
   LOCATION L0043829     VOLUME   441678.216 3760909.038 202.36
   LOCATION L0043830     VOLUME   441681.216 3760909.049 202.35
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LOCATION L0043831     VOLUME   441684.216 3760909.061 202.33
LOCATION L0043832     VOLUME   441687.216 3760909.072 202.32
LOCATION L0043833     VOLUME   441690.216 3760909.083 202.31
LOCATION L0043834     VOLUME   441693.216 3760909.095 202.30
LOCATION L0043835     VOLUME   441696.216 3760909.106 202.29
LOCATION L0043836     VOLUME   441699.216 3760909.117 202.30
LOCATION L0043837     VOLUME   441702.216 3760909.129 202.30
LOCATION L0043838     VOLUME   441705.216 3760909.140 202.30
LOCATION L0043839     VOLUME   441708.216 3760909.152 202.30
LOCATION L0043840     VOLUME   441711.216 3760909.163 202.31
LOCATION L0043841     VOLUME   441714.216 3760909.174 202.31
LOCATION L0043842     VOLUME   441717.216 3760909.186 202.31
LOCATION L0043843     VOLUME   441720.216 3760909.197 202.32
LOCATION L0043844     VOLUME   441723.216 3760909.208 202.33
LOCATION L0043845     VOLUME   441726.216 3760909.220 202.36
LOCATION L0043846     VOLUME   441729.216 3760909.231 202.38
LOCATION L0043847     VOLUME   441732.216 3760909.242 202.41
LOCATION L0043848     VOLUME   441735.216 3760909.254 202.44
LOCATION L0043849     VOLUME   441738.216 3760909.265 202.46
LOCATION L0043850     VOLUME   441741.216 3760909.277 202.49
LOCATION L0043851     VOLUME   441744.216 3760909.288 202.52
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LOCATION L0043853     VOLUME   441750.216 3760909.311 202.56
LOCATION L0043854     VOLUME   441753.216 3760909.322 202.59
LOCATION L0043855     VOLUME   441756.216 3760909.333 202.61
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LOCATION L0043857     VOLUME   441762.216 3760909.356 202.65
LOCATION L0043858     VOLUME   441765.216 3760909.367 202.67
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LOCATION L0043867     VOLUME   441792.216 3760909.470 202.76
LOCATION L0043868     VOLUME   441795.216 3760909.481 202.77
LOCATION L0043869     VOLUME   441798.216 3760909.492 202.77
LOCATION L0043870     VOLUME   441801.216 3760909.504 202.75
LOCATION L0043871     VOLUME   441804.216 3760909.515 202.73
LOCATION L0043872     VOLUME   441807.216 3760909.527 202.71
LOCATION L0043873     VOLUME   441810.216 3760909.538 202.69
LOCATION L0043874     VOLUME   441813.216 3760909.549 202.66
LOCATION L0043875     VOLUME   441816.215 3760909.561 202.64
LOCATION L0043876     VOLUME   441819.215 3760909.572 202.62
LOCATION L0043877     VOLUME   441822.215 3760909.583 202.60
LOCATION L0043878     VOLUME   441825.215 3760909.595 202.57
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   LOCATION L0043879     VOLUME   441828.215 3760909.606 202.54
   LOCATION L0043880     VOLUME   441831.215 3760909.617 202.51
   LOCATION L0043881     VOLUME   441834.215 3760909.629 202.47
   LOCATION L0043882     VOLUME   441837.215 3760909.640 202.44
   LOCATION L0043883     VOLUME   441840.215 3760909.652 202.41
   LOCATION L0043884     VOLUME   441843.215 3760909.663 202.38
   LOCATION L0043885     VOLUME   441846.215 3760909.674 202.35
   LOCATION L0043886     VOLUME   441849.215 3760909.686 202.31
   LOCATION L0043887     VOLUME   441852.215 3760909.697 202.31
   LOCATION L0043888     VOLUME   441855.215 3760909.708 202.31
   LOCATION L0043889     VOLUME   441858.215 3760909.720 202.32
   LOCATION L0043890     VOLUME   441861.215 3760909.731 202.32
   LOCATION L0043891     VOLUME   441864.215 3760909.742 202.33
   LOCATION L0043892     VOLUME   441867.215 3760909.754 202.33
   LOCATION L0043893     VOLUME   441870.215 3760909.765 202.34
   LOCATION L0043894     VOLUME   441873.215 3760909.777 202.35
   LOCATION L0043895     VOLUME   441876.215 3760909.788 202.36
   LOCATION L0043896     VOLUME   441879.215 3760909.799 202.40
   LOCATION L0043897     VOLUME   441882.215 3760909.811 202.44
   LOCATION L0043898     VOLUME   441885.215 3760909.822 202.48
   LOCATION L0043899     VOLUME   441888.215 3760909.833 202.52
   LOCATION L0043900     VOLUME   441891.215 3760909.845 202.56
   LOCATION L0043901     VOLUME   441894.215 3760909.856 202.60
   LOCATION L0043902     VOLUME   441897.215 3760909.867 202.64
   LOCATION L0043903     VOLUME   441900.215 3760909.879 202.69
   LOCATION L0043904     VOLUME   441903.215 3760909.890 202.73
   LOCATION L0043905     VOLUME   441906.215 3760909.902 202.78
   LOCATION L0043906     VOLUME   441909.215 3760909.913 202.82
** End of LINE VOLUME Source ID = SLINE55
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE56
** DESCRSRC Idle - Building 3 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 6.59E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 441611.217, 3760789.599, 201.29, 3.66, 1.40
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   LOCATION L0043909     VOLUME   441896.878 3760783.540 201.74
   LOCATION L0043910     VOLUME   441893.879 3760783.604 201.72
   LOCATION L0043911     VOLUME   441890.879 3760783.667 201.70
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LOCATION L0043912     VOLUME   441887.880 3760783.731 201.68
LOCATION L0043913     VOLUME   441884.881 3760783.794 201.66
LOCATION L0043914     VOLUME   441881.881 3760783.858 201.63
LOCATION L0043915     VOLUME   441878.882 3760783.922 201.61
LOCATION L0043916     VOLUME   441875.883 3760783.985 201.59
LOCATION L0043917     VOLUME   441872.883 3760784.049 201.58
LOCATION L0043918     VOLUME   441869.884 3760784.113 201.58
LOCATION L0043919     VOLUME   441866.885 3760784.176 201.57
LOCATION L0043920     VOLUME   441863.885 3760784.240 201.56
LOCATION L0043921     VOLUME   441860.886 3760784.303 201.56
LOCATION L0043922     VOLUME   441857.887 3760784.367 201.55
LOCATION L0043923     VOLUME   441854.887 3760784.431 201.55
LOCATION L0043924     VOLUME   441851.888 3760784.494 201.54
LOCATION L0043925     VOLUME   441848.889 3760784.558 201.53
LOCATION L0043926     VOLUME   441845.889 3760784.622 201.53
LOCATION L0043927     VOLUME   441842.890 3760784.685 201.53
LOCATION L0043928     VOLUME   441839.891 3760784.749 201.53
LOCATION L0043929     VOLUME   441836.892 3760784.812 201.53
LOCATION L0043930     VOLUME   441833.892 3760784.876 201.53
LOCATION L0043931     VOLUME   441830.893 3760784.940 201.53
LOCATION L0043932     VOLUME   441827.894 3760785.003 201.53
LOCATION L0043933     VOLUME   441824.894 3760785.067 201.53
LOCATION L0043934     VOLUME   441821.895 3760785.131 201.52
LOCATION L0043935     VOLUME   441818.896 3760785.194 201.51
LOCATION L0043936     VOLUME   441815.896 3760785.258 201.49
LOCATION L0043937     VOLUME   441812.897 3760785.321 201.48
LOCATION L0043938     VOLUME   441809.898 3760785.385 201.47
LOCATION L0043939     VOLUME   441806.898 3760785.449 201.45
LOCATION L0043940     VOLUME   441803.899 3760785.512 201.44
LOCATION L0043941     VOLUME   441800.900 3760785.576 201.43
LOCATION L0043942     VOLUME   441797.900 3760785.639 201.41
LOCATION L0043943     VOLUME   441794.901 3760785.703 201.43
LOCATION L0043944     VOLUME   441791.902 3760785.767 201.44
LOCATION L0043945     VOLUME   441788.902 3760785.830 201.45
LOCATION L0043946     VOLUME   441785.903 3760785.894 201.46
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LOCATION L0043948     VOLUME   441779.904 3760786.021 201.48
LOCATION L0043949     VOLUME   441776.905 3760786.085 201.50
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LOCATION L0043951     VOLUME   441770.906 3760786.212 201.50
LOCATION L0043952     VOLUME   441767.907 3760786.276 201.49
LOCATION L0043953     VOLUME   441764.908 3760786.339 201.47
LOCATION L0043954     VOLUME   441761.908 3760786.403 201.46
LOCATION L0043955     VOLUME   441758.909 3760786.467 201.44
LOCATION L0043956     VOLUME   441755.910 3760786.530 201.42
LOCATION L0043957     VOLUME   441752.910 3760786.594 201.41
LOCATION L0043958     VOLUME   441749.911 3760786.657 201.39
LOCATION L0043959     VOLUME   441746.912 3760786.721 201.38
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   LOCATION L0043960     VOLUME   441743.912 3760786.785 201.38
   LOCATION L0043961     VOLUME   441740.913 3760786.848 201.38
   LOCATION L0043962     VOLUME   441737.914 3760786.912 201.38
   LOCATION L0043963     VOLUME   441734.914 3760786.976 201.38
   LOCATION L0043964     VOLUME   441731.915 3760787.039 201.38
   LOCATION L0043965     VOLUME   441728.916 3760787.103 201.39
   LOCATION L0043966     VOLUME   441725.916 3760787.166 201.39
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   LOCATION L0043968     VOLUME   441719.918 3760787.294 201.39
   LOCATION L0043969     VOLUME   441716.919 3760787.357 201.38
   LOCATION L0043970     VOLUME   441713.919 3760787.421 201.37
   LOCATION L0043971     VOLUME   441710.920 3760787.485 201.37
   LOCATION L0043972     VOLUME   441707.921 3760787.548 201.36
   LOCATION L0043973     VOLUME   441704.921 3760787.612 201.35
   LOCATION L0043974     VOLUME   441701.922 3760787.675 201.34
   LOCATION L0043975     VOLUME   441698.923 3760787.739 201.33
   LOCATION L0043976     VOLUME   441695.923 3760787.803 201.33
   LOCATION L0043977     VOLUME   441692.924 3760787.866 201.31
   LOCATION L0043978     VOLUME   441689.925 3760787.930 201.30
   LOCATION L0043979     VOLUME   441686.925 3760787.993 201.29
   LOCATION L0043980     VOLUME   441683.926 3760788.057 201.27
   LOCATION L0043981     VOLUME   441680.927 3760788.121 201.26
   LOCATION L0043982     VOLUME   441677.927 3760788.184 201.25
   LOCATION L0043983     VOLUME   441674.928 3760788.248 201.23
   LOCATION L0043984     VOLUME   441671.929 3760788.312 201.22
   LOCATION L0043985     VOLUME   441668.929 3760788.375 201.21
   LOCATION L0043986     VOLUME   441665.930 3760788.439 201.21
   LOCATION L0043987     VOLUME   441662.931 3760788.502 201.21
   LOCATION L0043988     VOLUME   441659.931 3760788.566 201.22
   LOCATION L0043989     VOLUME   441656.932 3760788.630 201.22
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   LOCATION L0043991     VOLUME   441650.933 3760788.757 201.22
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   LOCATION L0043993     VOLUME   441644.935 3760788.884 201.22
   LOCATION L0043994     VOLUME   441641.935 3760788.948 201.24
   LOCATION L0043995     VOLUME   441638.936 3760789.011 201.25
   LOCATION L0043996     VOLUME   441635.937 3760789.075 201.26
   LOCATION L0043997     VOLUME   441632.937 3760789.139 201.28
   LOCATION L0043998     VOLUME   441629.938 3760789.202 201.29
   LOCATION L0043999     VOLUME   441626.939 3760789.266 201.31
   LOCATION L0044000     VOLUME   441623.939 3760789.330 201.32
   LOCATION L0044001     VOLUME   441620.940 3760789.393 201.34
   LOCATION L0044002     VOLUME   441617.941 3760789.457 201.35
   LOCATION L0044003     VOLUME   441614.941 3760789.520 201.36
   LOCATION L0044004     VOLUME   441611.942 3760789.584 201.36
** End of LINE VOLUME Source ID = SLINE56
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** Line Source Represented by Adjacent Volume Sources
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** LINE VOLUME Source ID = SLINE57
** DESCRSRC Idle - Building 1 Loading Docks - West
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 9.32E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 441290.629, 3760593.550, 200.22, 3.66, 1.40
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   LOCATION L0044007     VOLUME   441290.629 3761083.683 203.17
   LOCATION L0044008     VOLUME   441290.629 3761080.683 203.15
   LOCATION L0044009     VOLUME   441290.629 3761077.683 203.13
   LOCATION L0044010     VOLUME   441290.629 3761074.683 203.11
   LOCATION L0044011     VOLUME   441290.629 3761071.683 203.09
   LOCATION L0044012     VOLUME   441290.629 3761068.683 203.07
   LOCATION L0044013     VOLUME   441290.629 3761065.683 203.05
   LOCATION L0044014     VOLUME   441290.629 3761062.683 203.03
   LOCATION L0044015     VOLUME   441290.629 3761059.683 203.01
   LOCATION L0044016     VOLUME   441290.629 3761056.683 202.99
   LOCATION L0044017     VOLUME   441290.629 3761053.683 202.97
   LOCATION L0044018     VOLUME   441290.629 3761050.683 202.95
   LOCATION L0044019     VOLUME   441290.629 3761047.683 202.93
   LOCATION L0044020     VOLUME   441290.629 3761044.683 202.91
   LOCATION L0044021     VOLUME   441290.629 3761041.683 202.89
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   LOCATION L0044025     VOLUME   441290.629 3761029.683 202.81
   LOCATION L0044026     VOLUME   441290.629 3761026.683 202.79
   LOCATION L0044027     VOLUME   441290.629 3761023.683 202.77
   LOCATION L0044028     VOLUME   441290.629 3761020.683 202.75
   LOCATION L0044029     VOLUME   441290.629 3761017.683 202.73
   LOCATION L0044030     VOLUME   441290.629 3761014.683 202.71
   LOCATION L0044031     VOLUME   441290.629 3761011.683 202.69
   LOCATION L0044032     VOLUME   441290.629 3761008.683 202.68
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   LOCATION L0044034     VOLUME   441290.629 3761002.683 202.64
   LOCATION L0044035     VOLUME   441290.629 3760999.683 202.62
   LOCATION L0044036     VOLUME   441290.629 3760996.683 202.60
   LOCATION L0044037     VOLUME   441290.629 3760993.683 202.58
   LOCATION L0044038     VOLUME   441290.629 3760990.683 202.56
   LOCATION L0044039     VOLUME   441290.629 3760987.683 202.55
   LOCATION L0044040     VOLUME   441290.629 3760984.683 202.53
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LOCATION L0044042     VOLUME   441290.629 3760978.683 202.49
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LOCATION L0044044     VOLUME   441290.629 3760972.683 202.46
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LOCATION L0044046     VOLUME   441290.629 3760966.683 202.42
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LOCATION L0044051     VOLUME   441290.629 3760951.683 202.33
LOCATION L0044052     VOLUME   441290.629 3760948.683 202.31
LOCATION L0044053     VOLUME   441290.629 3760945.683 202.29
LOCATION L0044054     VOLUME   441290.629 3760942.683 202.28
LOCATION L0044055     VOLUME   441290.629 3760939.683 202.26
LOCATION L0044056     VOLUME   441290.629 3760936.683 202.24
LOCATION L0044057     VOLUME   441290.629 3760933.683 202.22
LOCATION L0044058     VOLUME   441290.629 3760930.683 202.20
LOCATION L0044059     VOLUME   441290.629 3760927.683 202.19
LOCATION L0044060     VOLUME   441290.629 3760924.683 202.17
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LOCATION L0044075     VOLUME   441290.629 3760879.683 201.88
LOCATION L0044076     VOLUME   441290.629 3760876.683 201.86
LOCATION L0044077     VOLUME   441290.629 3760873.683 201.84
LOCATION L0044078     VOLUME   441290.629 3760870.683 201.83
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LOCATION L0044095     VOLUME   441290.629 3760819.683 201.50
LOCATION L0044096     VOLUME   441290.629 3760816.683 201.48
LOCATION L0044097     VOLUME   441290.629 3760813.683 201.46
LOCATION L0044098     VOLUME   441290.629 3760810.683 201.44
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LOCATION L0044115     VOLUME   441290.629 3760759.683 201.11
LOCATION L0044116     VOLUME   441290.629 3760756.683 201.09
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LOCATION L0044121     VOLUME   441290.629 3760741.683 201.00
LOCATION L0044122     VOLUME   441290.629 3760738.683 200.98
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LOCATION L0044128     VOLUME   441290.629 3760720.683 200.87
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LOCATION L0044134     VOLUME   441290.629 3760702.683 200.77
LOCATION L0044135     VOLUME   441290.629 3760699.683 200.75
LOCATION L0044136     VOLUME   441290.629 3760696.683 200.73
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   LOCATION L0044147     VOLUME   441290.629 3760663.683 200.54
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   LOCATION L0044165     VOLUME   441290.629 3760609.683 200.29
   LOCATION L0044166     VOLUME   441290.629 3760606.683 200.27
   LOCATION L0044167     VOLUME   441290.629 3760603.683 200.26
   LOCATION L0044168     VOLUME   441290.629 3760600.683 200.24
   LOCATION L0044169     VOLUME   441290.629 3760597.683 200.23
   LOCATION L0044170     VOLUME   441290.629 3760594.683 200.22
** End of LINE VOLUME Source ID = SLINE57
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE58
** DESCRSRC Idle - Building 1 Loading Docks - East
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 9.23E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 441470.008, 3760602.229, 200.16, 3.66, 1.40
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   LOCATION L0044173     VOLUME   441471.433 3761085.129 203.24
   LOCATION L0044174     VOLUME   441471.424 3761082.129 203.22
   LOCATION L0044175     VOLUME   441471.415 3761079.129 203.20
   LOCATION L0044176     VOLUME   441471.406 3761076.129 203.18
   LOCATION L0044177     VOLUME   441471.397 3761073.129 203.15
   LOCATION L0044178     VOLUME   441471.389 3761070.129 203.13
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   LOCATION L0044180     VOLUME   441471.371 3761064.129 203.09
   LOCATION L0044181     VOLUME   441471.362 3761061.129 203.07
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   LOCATION L0044184     VOLUME   441471.335 3761052.129 203.01
   LOCATION L0044185     VOLUME   441471.327 3761049.129 202.98
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   LOCATION L0044188     VOLUME   441471.300 3761040.129 202.92
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   LOCATION L0044190     VOLUME   441471.282 3761034.129 202.88
   LOCATION L0044191     VOLUME   441471.274 3761031.129 202.86
   LOCATION L0044192     VOLUME   441471.265 3761028.129 202.84
   LOCATION L0044193     VOLUME   441471.256 3761025.129 202.81
   LOCATION L0044194     VOLUME   441471.247 3761022.129 202.78
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   LOCATION L0044198     VOLUME   441471.212 3761010.130 202.66
   LOCATION L0044199     VOLUME   441471.203 3761007.130 202.63
   LOCATION L0044200     VOLUME   441471.194 3761004.130 202.60
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   LOCATION L0044203     VOLUME   441471.167 3760995.130 202.51
   LOCATION L0044204     VOLUME   441471.158 3760992.130 202.48
   LOCATION L0044205     VOLUME   441471.150 3760989.130 202.45
   LOCATION L0044206     VOLUME   441471.141 3760986.130 202.41
   LOCATION L0044207     VOLUME   441471.132 3760983.130 202.38
   LOCATION L0044208     VOLUME   441471.123 3760980.130 202.35
   LOCATION L0044209     VOLUME   441471.114 3760977.130 202.31
   LOCATION L0044210     VOLUME   441471.105 3760974.130 202.28
   LOCATION L0044211     VOLUME   441471.097 3760971.130 202.25
   LOCATION L0044212     VOLUME   441471.088 3760968.130 202.21
   LOCATION L0044213     VOLUME   441471.079 3760965.130 202.19
   LOCATION L0044214     VOLUME   441471.070 3760962.130 202.17
   LOCATION L0044215     VOLUME   441471.061 3760959.130 202.15
   LOCATION L0044216     VOLUME   441471.052 3760956.130 202.14
   LOCATION L0044217     VOLUME   441471.043 3760953.130 202.12
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LOCATION L0044218     VOLUME   441471.035 3760950.130 202.11
LOCATION L0044219     VOLUME   441471.026 3760947.130 202.09
LOCATION L0044220     VOLUME   441471.017 3760944.130 202.07
LOCATION L0044221     VOLUME   441471.008 3760941.130 202.06
LOCATION L0044222     VOLUME   441470.999 3760938.130 202.04
LOCATION L0044223     VOLUME   441470.990 3760935.130 202.02
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LOCATION L0044227     VOLUME   441470.955 3760923.130 201.99
LOCATION L0044228     VOLUME   441470.946 3760920.130 201.98
LOCATION L0044229     VOLUME   441470.937 3760917.130 201.97
LOCATION L0044230     VOLUME   441470.928 3760914.130 201.96
LOCATION L0044231     VOLUME   441470.920 3760911.130 201.95
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LOCATION L0044233     VOLUME   441470.902 3760905.130 201.93
LOCATION L0044234     VOLUME   441470.893 3760902.130 201.94
LOCATION L0044235     VOLUME   441470.884 3760899.130 201.96
LOCATION L0044236     VOLUME   441470.875 3760896.130 201.97
LOCATION L0044237     VOLUME   441470.866 3760893.130 201.99
LOCATION L0044238     VOLUME   441470.858 3760890.130 202.00
LOCATION L0044239     VOLUME   441470.849 3760887.130 202.02
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LOCATION L0044244     VOLUME   441470.805 3760872.130 202.08
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LOCATION L0044246     VOLUME   441470.787 3760866.130 202.06
LOCATION L0044247     VOLUME   441470.778 3760863.130 202.05
LOCATION L0044248     VOLUME   441470.769 3760860.130 202.04
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LOCATION L0044253     VOLUME   441470.725 3760845.130 201.99
LOCATION L0044254     VOLUME   441470.716 3760842.130 201.98
LOCATION L0044255     VOLUME   441470.707 3760839.130 201.96
LOCATION L0044256     VOLUME   441470.698 3760836.130 201.94
LOCATION L0044257     VOLUME   441470.689 3760833.130 201.92
LOCATION L0044258     VOLUME   441470.681 3760830.130 201.90
LOCATION L0044259     VOLUME   441470.672 3760827.130 201.88
LOCATION L0044260     VOLUME   441470.663 3760824.130 201.86
LOCATION L0044261     VOLUME   441470.654 3760821.130 201.84
LOCATION L0044262     VOLUME   441470.645 3760818.130 201.82
LOCATION L0044263     VOLUME   441470.636 3760815.130 201.80
LOCATION L0044264     VOLUME   441470.628 3760812.130 201.78
LOCATION L0044265     VOLUME   441470.619 3760809.130 201.73
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LOCATION L0044267     VOLUME   441470.601 3760803.130 201.64
LOCATION L0044268     VOLUME   441470.592 3760800.130 201.59
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LOCATION L0044270     VOLUME   441470.574 3760794.130 201.50
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LOCATION L0044272     VOLUME   441470.557 3760788.130 201.41
LOCATION L0044273     VOLUME   441470.548 3760785.130 201.36
LOCATION L0044274     VOLUME   441470.539 3760782.131 201.31
LOCATION L0044275     VOLUME   441470.530 3760779.131 201.29
LOCATION L0044276     VOLUME   441470.521 3760776.131 201.26
LOCATION L0044277     VOLUME   441470.512 3760773.131 201.24
LOCATION L0044278     VOLUME   441470.504 3760770.131 201.21
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LOCATION L0044282     VOLUME   441470.468 3760758.131 201.12
LOCATION L0044283     VOLUME   441470.459 3760755.131 201.09
LOCATION L0044284     VOLUME   441470.451 3760752.131 201.07
LOCATION L0044285     VOLUME   441470.442 3760749.131 201.05
LOCATION L0044286     VOLUME   441470.433 3760746.131 201.03
LOCATION L0044287     VOLUME   441470.424 3760743.131 201.02
LOCATION L0044288     VOLUME   441470.415 3760740.131 201.00
LOCATION L0044289     VOLUME   441470.406 3760737.131 200.99
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LOCATION L0044294     VOLUME   441470.362 3760722.131 200.91
LOCATION L0044295     VOLUME   441470.353 3760719.131 200.89
LOCATION L0044296     VOLUME   441470.344 3760716.131 200.87
LOCATION L0044297     VOLUME   441470.335 3760713.131 200.85
LOCATION L0044298     VOLUME   441470.327 3760710.131 200.83
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LOCATION L0044306     VOLUME   441470.256 3760686.131 200.66
LOCATION L0044307     VOLUME   441470.247 3760683.131 200.64
LOCATION L0044308     VOLUME   441470.238 3760680.131 200.63
LOCATION L0044309     VOLUME   441470.229 3760677.131 200.62
LOCATION L0044310     VOLUME   441470.220 3760674.131 200.61
LOCATION L0044311     VOLUME   441470.212 3760671.131 200.60
LOCATION L0044312     VOLUME   441470.203 3760668.131 200.59
LOCATION L0044313     VOLUME   441470.194 3760665.131 200.58
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   LOCATION L0044315     VOLUME   441470.176 3760659.131 200.56
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   LOCATION L0044317     VOLUME   441470.158 3760653.131 200.52
   LOCATION L0044318     VOLUME   441470.150 3760650.131 200.50
   LOCATION L0044319     VOLUME   441470.141 3760647.131 200.48
   LOCATION L0044320     VOLUME   441470.132 3760644.131 200.46
   LOCATION L0044321     VOLUME   441470.123 3760641.131 200.44
   LOCATION L0044322     VOLUME   441470.114 3760638.131 200.42
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   LOCATION L0044332     VOLUME   441470.026 3760608.131 200.22
   LOCATION L0044333     VOLUME   441470.017 3760605.131 200.20
** End of LINE VOLUME Source ID = SLINE58
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE59
** DESCRSRC Idle - PA 3 - Loading Area
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 7.27E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 441107.555, 3761186.787, 203.54, 3.66, 1.40
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   LOCATION L0044335     VOLUME   440860.978 3761185.914 203.08
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   LOCATION L0044338     VOLUME   440869.978 3761185.946 203.25
   LOCATION L0044339     VOLUME   440872.978 3761185.957 203.31
   LOCATION L0044340     VOLUME   440875.978 3761185.967 203.37
   LOCATION L0044341     VOLUME   440878.978 3761185.978 203.45
   LOCATION L0044342     VOLUME   440881.978 3761185.989 203.54
   LOCATION L0044343     VOLUME   440884.978 3761185.999 203.62
   LOCATION L0044344     VOLUME   440887.978 3761186.010 203.71
   LOCATION L0044345     VOLUME   440890.978 3761186.021 203.80
   LOCATION L0044346     VOLUME   440893.978 3761186.031 203.89
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LOCATION L0044348     VOLUME   440899.978 3761186.052 204.06
LOCATION L0044349     VOLUME   440902.978 3761186.063 204.14
LOCATION L0044350     VOLUME   440905.978 3761186.074 204.19
LOCATION L0044351     VOLUME   440908.978 3761186.084 204.23
LOCATION L0044352     VOLUME   440911.978 3761186.095 204.28
LOCATION L0044353     VOLUME   440914.977 3761186.105 204.32
LOCATION L0044354     VOLUME   440917.977 3761186.116 204.37
LOCATION L0044355     VOLUME   440920.977 3761186.127 204.41
LOCATION L0044356     VOLUME   440923.977 3761186.137 204.46
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LOCATION L0044358     VOLUME   440929.977 3761186.159 204.53
LOCATION L0044359     VOLUME   440932.977 3761186.169 204.55
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LOCATION L0044362     VOLUME   440941.977 3761186.201 204.60
LOCATION L0044363     VOLUME   440944.977 3761186.212 204.62
LOCATION L0044364     VOLUME   440947.977 3761186.222 204.63
LOCATION L0044365     VOLUME   440950.977 3761186.233 204.65
LOCATION L0044366     VOLUME   440953.977 3761186.243 204.67
LOCATION L0044367     VOLUME   440956.977 3761186.254 204.61
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LOCATION L0044369     VOLUME   440962.977 3761186.275 204.51
LOCATION L0044370     VOLUME   440965.977 3761186.286 204.45
LOCATION L0044371     VOLUME   440968.977 3761186.297 204.40
LOCATION L0044372     VOLUME   440971.977 3761186.307 204.35
LOCATION L0044373     VOLUME   440974.977 3761186.318 204.30
LOCATION L0044374     VOLUME   440977.977 3761186.328 204.24
LOCATION L0044375     VOLUME   440980.977 3761186.339 204.17
LOCATION L0044376     VOLUME   440983.977 3761186.350 204.08
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LOCATION L0044378     VOLUME   440989.977 3761186.371 203.90
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   LOCATION L0044404     VOLUME   441067.977 3761186.647 203.67
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   LOCATION L0044406     VOLUME   441073.976 3761186.668 203.72
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   LOCATION L0044408     VOLUME   441079.976 3761186.689 203.77
   LOCATION L0044409     VOLUME   441082.976 3761186.700 203.78
   LOCATION L0044410     VOLUME   441085.976 3761186.711 203.75
   LOCATION L0044411     VOLUME   441088.976 3761186.721 203.72
   LOCATION L0044412     VOLUME   441091.976 3761186.732 203.69
   LOCATION L0044413     VOLUME   441094.976 3761186.742 203.66
   LOCATION L0044414     VOLUME   441097.976 3761186.753 203.63
   LOCATION L0044415     VOLUME   441100.976 3761186.764 203.60
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** End of LINE VOLUME Source ID = SLINE59
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** LINE VOLUME Source ID = SLINE60
** DESCRSRC Idle - PA 4 - Loading Area 1
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 8.49E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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   LOCATION L0044422     VOLUME   440885.116 3760989.687 201.61
   LOCATION L0044423     VOLUME   440885.116 3760986.687 201.58
   LOCATION L0044424     VOLUME   440885.116 3760983.687 201.55
   LOCATION L0044425     VOLUME   440885.116 3760980.687 201.51
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   LOCATION L0044427     VOLUME   440885.116 3760974.687 201.45
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LOCATION L0044436     VOLUME   440885.116 3760947.687 201.30
LOCATION L0044437     VOLUME   440885.116 3760944.687 201.28
LOCATION L0044438     VOLUME   440885.116 3760941.687 201.27
LOCATION L0044439     VOLUME   440885.116 3760938.687 201.25
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LOCATION L0044441     VOLUME   440885.116 3760932.687 201.19
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LOCATION L0044443     VOLUME   440885.116 3760926.687 201.13
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LOCATION L0044464     VOLUME   440885.116 3760863.687 199.68
LOCATION L0044465     VOLUME   440885.116 3760860.687 199.53
LOCATION L0044466     VOLUME   440885.116 3760857.687 199.37
LOCATION L0044467     VOLUME   440885.116 3760854.687 199.22
LOCATION L0044468     VOLUME   440885.116 3760851.687 199.07
LOCATION L0044469     VOLUME   440885.116 3760848.687 198.92
LOCATION L0044470     VOLUME   440885.116 3760845.687 198.84
LOCATION L0044471     VOLUME   440885.116 3760842.687 198.88
LOCATION L0044472     VOLUME   440885.116 3760839.687 198.93
LOCATION L0044473     VOLUME   440885.116 3760836.687 198.98
LOCATION L0044474     VOLUME   440885.116 3760833.687 199.02
LOCATION L0044475     VOLUME   440885.116 3760830.687 199.07
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LOCATION L0044476     VOLUME   440885.116 3760827.687 199.12
LOCATION L0044477     VOLUME   440885.116 3760824.687 199.16
LOCATION L0044478     VOLUME   440885.116 3760821.687 199.21
LOCATION L0044479     VOLUME   440885.116 3760818.687 199.26
LOCATION L0044480     VOLUME   440885.116 3760815.687 199.30
LOCATION L0044481     VOLUME   440885.116 3760812.687 199.34
LOCATION L0044482     VOLUME   440885.116 3760809.687 199.38
LOCATION L0044483     VOLUME   440885.116 3760806.687 199.42
LOCATION L0044484     VOLUME   440885.116 3760803.687 199.46
LOCATION L0044485     VOLUME   440885.116 3760800.687 199.50
LOCATION L0044486     VOLUME   440885.116 3760797.687 199.55
LOCATION L0044487     VOLUME   440885.116 3760794.687 199.59
LOCATION L0044488     VOLUME   440885.116 3760791.687 199.63
LOCATION L0044489     VOLUME   440885.116 3760788.687 199.67
LOCATION L0044490     VOLUME   440885.116 3760785.687 199.71
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LOCATION L0044493     VOLUME   440885.116 3760776.687 199.66
LOCATION L0044494     VOLUME   440885.116 3760773.687 199.64
LOCATION L0044495     VOLUME   440885.116 3760770.687 199.62
LOCATION L0044496     VOLUME   440885.116 3760767.687 199.60
LOCATION L0044497     VOLUME   440885.116 3760764.687 199.58
LOCATION L0044498     VOLUME   440885.116 3760761.687 199.56
LOCATION L0044499     VOLUME   440885.116 3760758.687 199.54
LOCATION L0044500     VOLUME   440885.116 3760755.687 199.52
LOCATION L0044501     VOLUME   440885.116 3760752.687 199.50
LOCATION L0044502     VOLUME   440885.116 3760749.687 199.48
LOCATION L0044503     VOLUME   440885.116 3760746.687 199.46
LOCATION L0044504     VOLUME   440885.116 3760743.687 199.44
LOCATION L0044505     VOLUME   440885.116 3760740.687 199.42
LOCATION L0044506     VOLUME   440885.116 3760737.687 199.39
LOCATION L0044507     VOLUME   440885.116 3760734.687 199.37
LOCATION L0044508     VOLUME   440885.116 3760731.687 199.35
LOCATION L0044509     VOLUME   440885.116 3760728.687 199.33
LOCATION L0044510     VOLUME   440885.116 3760725.687 199.31
LOCATION L0044511     VOLUME   440885.116 3760722.687 199.29
LOCATION L0044512     VOLUME   440885.116 3760719.687 199.27
LOCATION L0044513     VOLUME   440885.116 3760716.687 199.25
LOCATION L0044514     VOLUME   440885.116 3760713.687 199.23
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LOCATION L0044518     VOLUME   440885.116 3760701.687 199.15
LOCATION L0044519     VOLUME   440885.116 3760698.687 199.13
LOCATION L0044520     VOLUME   440885.116 3760695.687 199.11
LOCATION L0044521     VOLUME   440885.116 3760692.687 199.09
LOCATION L0044522     VOLUME   440885.116 3760689.687 199.07
LOCATION L0044523     VOLUME   440885.116 3760686.687 199.04
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   LOCATION L0044528     VOLUME   440885.116 3760671.687 198.92
   LOCATION L0044529     VOLUME   440885.116 3760668.687 198.90
   LOCATION L0044530     VOLUME   440885.116 3760665.687 198.87
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   LOCATION L0044532     VOLUME   440885.116 3760659.687 198.83
   LOCATION L0044533     VOLUME   440885.116 3760656.687 198.80
   LOCATION L0044534     VOLUME   440885.116 3760653.687 198.78
   LOCATION L0044535     VOLUME   440885.116 3760650.687 198.76
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   LOCATION L0044537     VOLUME   440885.116 3760644.687 198.71
   LOCATION L0044538     VOLUME   440885.116 3760641.687 198.69
   LOCATION L0044539     VOLUME   440885.116 3760638.687 198.67
   LOCATION L0044540     VOLUME   440885.116 3760635.687 198.64
   LOCATION L0044541     VOLUME   440885.116 3760632.687 198.62
   LOCATION L0044542     VOLUME   440885.116 3760629.687 198.60
   LOCATION L0044543     VOLUME   440885.116 3760626.687 198.57
   LOCATION L0044544     VOLUME   440885.116 3760623.687 198.55
   LOCATION L0044545     VOLUME   440885.116 3760620.687 198.53
   LOCATION L0044546     VOLUME   440885.116 3760617.687 198.50
   LOCATION L0044547     VOLUME   440885.116 3760614.687 198.48
   LOCATION L0044548     VOLUME   440885.116 3760611.687 198.45
   LOCATION L0044549     VOLUME   440885.116 3760608.687 198.43
   LOCATION L0044550     VOLUME   440885.116 3760605.687 198.41
   LOCATION L0044551     VOLUME   440885.116 3760602.687 198.38
   LOCATION L0044552     VOLUME   440885.116 3760599.687 198.36
   LOCATION L0044553     VOLUME   440885.116 3760596.687 198.33
   LOCATION L0044554     VOLUME   440885.116 3760593.687 198.31
   LOCATION L0044555     VOLUME   440885.116 3760590.687 198.29
** End of LINE VOLUME Source ID = SLINE60
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE61
** DESCRSRC Idle - PA 4 - Loading Area 2
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 8.49E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 441080.343, 3760587.051, 199.85, 3.66, 1.40
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LOCATION L0044559     VOLUME   441082.741 3760991.029 202.15
LOCATION L0044560     VOLUME   441082.723 3760988.029 202.12
LOCATION L0044561     VOLUME   441082.705 3760985.029 202.09
LOCATION L0044562     VOLUME   441082.687 3760982.029 202.06
LOCATION L0044563     VOLUME   441082.670 3760979.029 202.03
LOCATION L0044564     VOLUME   441082.652 3760976.029 202.00
LOCATION L0044565     VOLUME   441082.634 3760973.029 201.97
LOCATION L0044566     VOLUME   441082.616 3760970.030 201.94
LOCATION L0044567     VOLUME   441082.598 3760967.030 201.91
LOCATION L0044568     VOLUME   441082.581 3760964.030 201.88
LOCATION L0044569     VOLUME   441082.563 3760961.030 201.85
LOCATION L0044570     VOLUME   441082.545 3760958.030 201.82
LOCATION L0044571     VOLUME   441082.527 3760955.030 201.79
LOCATION L0044572     VOLUME   441082.509 3760952.030 201.76
LOCATION L0044573     VOLUME   441082.492 3760949.030 201.73
LOCATION L0044574     VOLUME   441082.474 3760946.030 201.70
LOCATION L0044575     VOLUME   441082.456 3760943.030 201.67
LOCATION L0044576     VOLUME   441082.438 3760940.030 201.64
LOCATION L0044577     VOLUME   441082.420 3760937.030 201.61
LOCATION L0044578     VOLUME   441082.402 3760934.030 201.58
LOCATION L0044579     VOLUME   441082.385 3760931.030 201.55
LOCATION L0044580     VOLUME   441082.367 3760928.030 201.52
LOCATION L0044581     VOLUME   441082.349 3760925.030 201.49
LOCATION L0044582     VOLUME   441082.331 3760922.030 201.46
LOCATION L0044583     VOLUME   441082.313 3760919.030 201.43
LOCATION L0044584     VOLUME   441082.296 3760916.030 201.40
LOCATION L0044585     VOLUME   441082.278 3760913.031 201.37
LOCATION L0044586     VOLUME   441082.260 3760910.031 201.34
LOCATION L0044587     VOLUME   441082.242 3760907.031 201.31
LOCATION L0044588     VOLUME   441082.224 3760904.031 201.28
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LOCATION L0044591     VOLUME   441082.171 3760895.031 201.21
LOCATION L0044592     VOLUME   441082.153 3760892.031 201.18
LOCATION L0044593     VOLUME   441082.135 3760889.031 201.16
LOCATION L0044594     VOLUME   441082.118 3760886.031 201.13
LOCATION L0044595     VOLUME   441082.100 3760883.031 201.11
LOCATION L0044596     VOLUME   441082.082 3760880.031 201.08
LOCATION L0044597     VOLUME   441082.064 3760877.031 201.06
LOCATION L0044598     VOLUME   441082.046 3760874.031 201.06
LOCATION L0044599     VOLUME   441082.029 3760871.031 201.07
LOCATION L0044600     VOLUME   441082.011 3760868.031 201.07
LOCATION L0044601     VOLUME   441081.993 3760865.031 201.08
LOCATION L0044602     VOLUME   441081.975 3760862.031 201.09
LOCATION L0044603     VOLUME   441081.957 3760859.031 201.10
LOCATION L0044604     VOLUME   441081.940 3760856.032 201.10
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LOCATION L0044606     VOLUME   441081.904 3760850.032 201.12
LOCATION L0044607     VOLUME   441081.886 3760847.032 201.13
LOCATION L0044608     VOLUME   441081.868 3760844.032 201.12
LOCATION L0044609     VOLUME   441081.851 3760841.032 201.11
LOCATION L0044610     VOLUME   441081.833 3760838.032 201.09
LOCATION L0044611     VOLUME   441081.815 3760835.032 201.07
LOCATION L0044612     VOLUME   441081.797 3760832.032 201.06
LOCATION L0044613     VOLUME   441081.779 3760829.032 201.04
LOCATION L0044614     VOLUME   441081.762 3760826.032 201.02
LOCATION L0044615     VOLUME   441081.744 3760823.032 201.01
LOCATION L0044616     VOLUME   441081.726 3760820.032 200.99
LOCATION L0044617     VOLUME   441081.708 3760817.032 200.98
LOCATION L0044618     VOLUME   441081.690 3760814.032 200.96
LOCATION L0044619     VOLUME   441081.673 3760811.032 200.92
LOCATION L0044620     VOLUME   441081.655 3760808.032 200.89
LOCATION L0044621     VOLUME   441081.637 3760805.032 200.86
LOCATION L0044622     VOLUME   441081.619 3760802.032 200.83
LOCATION L0044623     VOLUME   441081.601 3760799.033 200.80
LOCATION L0044624     VOLUME   441081.584 3760796.033 200.77
LOCATION L0044625     VOLUME   441081.566 3760793.033 200.74
LOCATION L0044626     VOLUME   441081.548 3760790.033 200.71
LOCATION L0044627     VOLUME   441081.530 3760787.033 200.68
LOCATION L0044628     VOLUME   441081.512 3760784.033 200.65
LOCATION L0044629     VOLUME   441081.494 3760781.033 200.64
LOCATION L0044630     VOLUME   441081.477 3760778.033 200.63
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LOCATION L0044637     VOLUME   441081.352 3760757.033 200.56
LOCATION L0044638     VOLUME   441081.334 3760754.033 200.55
LOCATION L0044639     VOLUME   441081.316 3760751.033 200.54
LOCATION L0044640     VOLUME   441081.299 3760748.033 200.54
LOCATION L0044641     VOLUME   441081.281 3760745.033 200.53
LOCATION L0044642     VOLUME   441081.263 3760742.034 200.53
LOCATION L0044643     VOLUME   441081.245 3760739.034 200.52
LOCATION L0044644     VOLUME   441081.227 3760736.034 200.52
LOCATION L0044645     VOLUME   441081.210 3760733.034 200.51
LOCATION L0044646     VOLUME   441081.192 3760730.034 200.51
LOCATION L0044647     VOLUME   441081.174 3760727.034 200.51
LOCATION L0044648     VOLUME   441081.156 3760724.034 200.50
LOCATION L0044649     VOLUME   441081.138 3760721.034 200.50
LOCATION L0044650     VOLUME   441081.121 3760718.034 200.49
LOCATION L0044651     VOLUME   441081.103 3760715.034 200.49
LOCATION L0044652     VOLUME   441081.085 3760712.034 200.48
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   LOCATION L0044656     VOLUME   441081.014 3760700.034 200.47
   LOCATION L0044657     VOLUME   441080.996 3760697.034 200.46
   LOCATION L0044658     VOLUME   441080.978 3760694.034 200.46
   LOCATION L0044659     VOLUME   441080.960 3760691.034 200.45
   LOCATION L0044660     VOLUME   441080.943 3760688.034 200.43
   LOCATION L0044661     VOLUME   441080.925 3760685.035 200.41
   LOCATION L0044662     VOLUME   441080.907 3760682.035 200.39
   LOCATION L0044663     VOLUME   441080.889 3760679.035 200.36
   LOCATION L0044664     VOLUME   441080.871 3760676.035 200.34
   LOCATION L0044665     VOLUME   441080.854 3760673.035 200.32
   LOCATION L0044666     VOLUME   441080.836 3760670.035 200.30
   LOCATION L0044667     VOLUME   441080.818 3760667.035 200.27
   LOCATION L0044668     VOLUME   441080.800 3760664.035 200.25
   LOCATION L0044669     VOLUME   441080.782 3760661.035 200.23
   LOCATION L0044670     VOLUME   441080.765 3760658.035 200.21
   LOCATION L0044671     VOLUME   441080.747 3760655.035 200.20
   LOCATION L0044672     VOLUME   441080.729 3760652.035 200.19
   LOCATION L0044673     VOLUME   441080.711 3760649.035 200.18
   LOCATION L0044674     VOLUME   441080.693 3760646.035 200.16
   LOCATION L0044675     VOLUME   441080.676 3760643.035 200.15
   LOCATION L0044676     VOLUME   441080.658 3760640.035 200.14
   LOCATION L0044677     VOLUME   441080.640 3760637.035 200.12
   LOCATION L0044678     VOLUME   441080.622 3760634.035 200.11
   LOCATION L0044679     VOLUME   441080.604 3760631.036 200.10
   LOCATION L0044680     VOLUME   441080.586 3760628.036 200.08
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   LOCATION L0044683     VOLUME   441080.533 3760619.036 200.03
   LOCATION L0044684     VOLUME   441080.515 3760616.036 200.01
   LOCATION L0044685     VOLUME   441080.497 3760613.036 199.99
   LOCATION L0044686     VOLUME   441080.480 3760610.036 199.98
   LOCATION L0044687     VOLUME   441080.462 3760607.036 199.96
   LOCATION L0044688     VOLUME   441080.444 3760604.036 199.94
   LOCATION L0044689     VOLUME   441080.426 3760601.036 199.92
   LOCATION L0044690     VOLUME   441080.408 3760598.036 199.91
   LOCATION L0044691     VOLUME   441080.391 3760595.036 199.89
   LOCATION L0044692     VOLUME   441080.373 3760592.036 199.87
   LOCATION L0044693     VOLUME   441080.355 3760589.036 199.85
** End of LINE VOLUME Source ID = SLINE61
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE62
** DESCRSRC On-site Circulation - PA 3
** PREFIX
** Length of Side = 5.00
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** Configuration = Adjacent
** Emission Rate = 0.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
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** 440837.878, 3761224.604, 203.09, 3.66, 2.33
** 440883.128, 3761230.972, 203.85, 3.66, 2.33
** 440973.290, 3761232.648, 204.10, 3.66, 2.33
** 441051.052, 3761232.983, 203.73, 3.66, 2.33
** 441105.016, 3761231.978, 203.62, 3.66, 2.33
** 441124.456, 3761225.610, 203.58, 3.66, 2.33
** 441135.182, 3761206.504, 203.23, 3.66, 2.33
** 441134.846, 3761173.322, 203.05, 3.66, 2.33
** 441133.171, 3761153.546, 202.93, 3.66, 2.33
** 441118.423, 3761146.507, 203.41, 3.66, 2.33
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   LOCATION L0035436     VOLUME   440810.424 3761162.734 202.34
   LOCATION L0035437     VOLUME   440808.859 3761167.483 202.38
   LOCATION L0035438     VOLUME   440807.434 3761172.239 202.41
   LOCATION L0035439     VOLUME   440808.499 3761177.124 202.48
   LOCATION L0035440     VOLUME   440809.565 3761182.009 202.54
   LOCATION L0035441     VOLUME   440810.631 3761186.895 202.60
   LOCATION L0035442     VOLUME   440811.697 3761191.780 202.67
   LOCATION L0035443     VOLUME   440812.763 3761196.665 202.73
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   LOCATION L0035445     VOLUME   440814.894 3761206.435 202.86
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   LOCATION L0035451     VOLUME   440837.973 3761224.617 203.24
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   LOCATION L0035456     VOLUME   440862.729 3761228.102 203.57
   LOCATION L0035457     VOLUME   440867.681 3761228.798 203.67
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LOCATION L0035464     VOLUME   440902.525 3761231.333 204.03
LOCATION L0035465     VOLUME   440907.524 3761231.426 204.04
LOCATION L0035466     VOLUME   440912.523 3761231.519 204.05
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LOCATION L0035492     VOLUME   441042.512 3761232.947 203.69
LOCATION L0035493     VOLUME   441047.512 3761232.968 203.68
LOCATION L0035494     VOLUME   441052.512 3761232.956 203.68
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LOCATION L0035516     VOLUME   441135.029 3761191.385 203.11
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LOCATION L0035534     VOLUME   441082.675 3761146.275 203.54
LOCATION L0035535     VOLUME   441077.675 3761146.243 203.51
LOCATION L0035536     VOLUME   441072.675 3761146.210 203.48
LOCATION L0035537     VOLUME   441067.676 3761146.178 203.44
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LOCATION L0035546     VOLUME   441022.676 3761145.886 202.97
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LOCATION L0035550     VOLUME   441002.677 3761145.777 203.08
LOCATION L0035551     VOLUME   440997.677 3761145.753 203.26
LOCATION L0035552     VOLUME   440992.677 3761145.729 203.45
LOCATION L0035553     VOLUME   440987.677 3761145.705 203.63
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   LOCATION L0035564     VOLUME   440932.678 3761145.440 204.35
   LOCATION L0035565     VOLUME   440927.678 3761145.416 204.33
   LOCATION L0035566     VOLUME   440922.678 3761145.392 204.23
   LOCATION L0035567     VOLUME   440917.678 3761145.368 204.12
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   LOCATION L0035573     VOLUME   440887.678 3761145.224 203.23
   LOCATION L0035574     VOLUME   440882.678 3761145.200 203.04
   LOCATION L0035575     VOLUME   440877.678 3761145.176 202.85
   LOCATION L0035576     VOLUME   440872.678 3761145.167 202.76
   LOCATION L0035577     VOLUME   440867.678 3761145.167 202.71
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   LOCATION L0035580     VOLUME   440852.678 3761145.167 202.54
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** End of LINE VOLUME Source ID = SLINE62
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE64
** DESCRSRC Idle - PA 5 - Loading Area
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 5.33E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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   LOCATION L0044703     VOLUME   441683.067 3760562.471 200.44
   LOCATION L0044704     VOLUME   441686.067 3760562.471 200.45
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** End of LINE VOLUME Source ID = SLINE64
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** PREFIX
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** Configuration = Adjacent
** Emission Rate = 5.54E-06
** Vertical Dimension = 6.22
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   LOCATION L0044785     VOLUME   441830.186 3760506.386 199.91
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LOCATION L0044830     VOLUME   441883.075 3760618.153 200.99
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LOCATION L0044832     VOLUME   441873.130 3760619.200 201.00
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LOCATION L0044835     VOLUME   441858.212 3760620.770 201.04
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LOCATION L0044862     VOLUME   441723.341 3760620.354 201.07
LOCATION L0044863     VOLUME   441718.342 3760620.253 201.06
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LOCATION L0044877     VOLUME   441648.731 3760615.567 200.80
LOCATION L0044878     VOLUME   441643.838 3760614.537 200.78
LOCATION L0044879     VOLUME   441638.945 3760613.507 200.77
LOCATION L0044880     VOLUME   441634.052 3760612.477 200.75
LOCATION L0044881     VOLUME   441629.160 3760611.447 200.74
LOCATION L0044882     VOLUME   441624.267 3760610.417 200.73
LOCATION L0044883     VOLUME   441619.374 3760609.387 200.71
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LOCATION L0044886     VOLUME   441610.186 3760598.986 200.59
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LOCATION L0044888     VOLUME   441605.480 3760590.163 200.47
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LOCATION L0044890     VOLUME   441600.953 3760581.279 200.36
LOCATION L0044891     VOLUME   441600.157 3760576.343 200.31
LOCATION L0044892     VOLUME   441599.360 3760571.407 200.27
LOCATION L0044893     VOLUME   441598.564 3760566.470 200.22
LOCATION L0044894     VOLUME   441597.768 3760561.534 200.19
LOCATION L0044895     VOLUME   441596.972 3760556.598 200.16
LOCATION L0044896     VOLUME   441597.517 3760551.793 200.13
LOCATION L0044897     VOLUME   441599.254 3760547.104 200.10
LOCATION L0044898     VOLUME   441600.990 3760542.415 200.08
LOCATION L0044899     VOLUME   441602.727 3760537.727 200.05
LOCATION L0044900     VOLUME   441604.463 3760533.038 200.03
LOCATION L0044901     VOLUME   441607.190 3760529.132 200.03
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   LOCATION L0044904     VOLUME   441619.671 3760520.811 200.08
   LOCATION L0044905     VOLUME   441623.831 3760518.038 200.12
   LOCATION L0044906     VOLUME   441627.991 3760515.264 200.15
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   LOCATION L0044909     VOLUME   441642.062 3760510.249 200.26
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   LOCATION L0044911     VOLUME   441651.589 3760507.208 200.21
   LOCATION L0044912     VOLUME   441656.352 3760505.688 200.18
   LOCATION L0044913     VOLUME   441661.116 3760504.168 200.16
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** LINE VOLUME Source ID = SLINE66
** DESCRSRC Driveway 11
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.27E-07
** Vertical Dimension = 6.22
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** Nodes = 2
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   LOCATION L0044932     VOLUME   441974.345 3760855.837 202.61
   LOCATION L0044933     VOLUME   441979.345 3760855.819 202.57
   LOCATION L0044934     VOLUME   441984.345 3760855.802 202.55
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** End of LINE VOLUME Source ID = SLINE66
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** LINE VOLUME Source ID = SLINE67
** DESCRSRC On-site Circulation - PA 4 Loading Area 2
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 8.51E-06
** Vertical Dimension = 6.22
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** 441130.939, 3761036.958, 202.34, 3.66, 2.33
** 441101.299, 3761059.578, 202.84, 3.66, 2.33
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   LOCATION L0044940     VOLUME   441007.722 3760510.421 199.04
   LOCATION L0044941     VOLUME   441012.690 3760510.980 199.09
   LOCATION L0044942     VOLUME   441017.659 3760511.540 199.14
   LOCATION L0044943     VOLUME   441022.628 3760512.100 199.18
   LOCATION L0044944     VOLUME   441027.596 3760512.660 199.22
   LOCATION L0044945     VOLUME   441032.498 3760513.563 199.23
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   LOCATION L0044951     VOLUME   441061.421 3760521.532 199.37
   LOCATION L0044952     VOLUME   441066.241 3760522.860 199.38
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LOCATION L0044961     VOLUME   441105.397 3760543.333 199.43
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LOCATION L0044967     VOLUME   441127.027 3760562.973 199.66
LOCATION L0044968     VOLUME   441128.166 3760567.842 199.71
LOCATION L0044969     VOLUME   441129.304 3760572.711 199.75
LOCATION L0044970     VOLUME   441130.442 3760577.579 199.80
LOCATION L0044971     VOLUME   441131.580 3760582.448 199.85
LOCATION L0044972     VOLUME   441132.718 3760587.317 199.89
LOCATION L0044973     VOLUME   441133.856 3760592.185 199.94
LOCATION L0044974     VOLUME   441134.994 3760597.054 199.99
LOCATION L0044975     VOLUME   441136.133 3760601.923 200.04
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LOCATION L0044986     VOLUME   441136.764 3760656.903 200.42
LOCATION L0044987     VOLUME   441136.809 3760661.903 200.45
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LOCATION L0044990     VOLUME   441136.941 3760676.903 200.61
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LOCATION L0044994     VOLUME   441137.118 3760696.902 200.74
LOCATION L0044995     VOLUME   441137.163 3760701.902 200.71
LOCATION L0044996     VOLUME   441137.207 3760706.901 200.69
LOCATION L0044997     VOLUME   441137.251 3760711.901 200.66
LOCATION L0044998     VOLUME   441137.295 3760716.901 200.63
LOCATION L0044999     VOLUME   441137.340 3760721.901 200.61
LOCATION L0045000     VOLUME   441137.384 3760726.901 200.61
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LOCATION L0045017     VOLUME   441137.632 3760811.895 201.13
LOCATION L0045018     VOLUME   441137.539 3760816.894 201.19
LOCATION L0045019     VOLUME   441137.445 3760821.893 201.23
LOCATION L0045020     VOLUME   441137.352 3760826.892 201.27
LOCATION L0045021     VOLUME   441137.259 3760831.891 201.31
LOCATION L0045022     VOLUME   441137.165 3760836.891 201.35
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LOCATION L0045029     VOLUME   441136.511 3760871.884 201.43
LOCATION L0045030     VOLUME   441136.418 3760876.884 201.44
LOCATION L0045031     VOLUME   441136.324 3760881.883 201.46
LOCATION L0045032     VOLUME   441136.231 3760886.882 201.48
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LOCATION L0045041     VOLUME   441135.551 3760931.876 201.63
LOCATION L0045042     VOLUME   441135.504 3760936.876 201.65
LOCATION L0045043     VOLUME   441135.456 3760941.876 201.68
LOCATION L0045044     VOLUME   441135.408 3760946.876 201.71
LOCATION L0045045     VOLUME   441135.361 3760951.875 201.75
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LOCATION L0045047     VOLUME   441135.265 3760961.875 201.82
LOCATION L0045048     VOLUME   441135.218 3760966.875 201.85
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   LOCATION L0045058     VOLUME   441133.525 3761016.789 202.20
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   LOCATION L0045061     VOLUME   441131.618 3761031.667 202.33
   LOCATION L0045062     VOLUME   441130.982 3761036.627 202.37
   LOCATION L0045063     VOLUME   441127.230 3761039.789 202.45
   LOCATION L0045064     VOLUME   441123.255 3761042.822 202.52
   LOCATION L0045065     VOLUME   441119.281 3761045.855 202.59
   LOCATION L0045066     VOLUME   441115.306 3761048.889 202.66
   LOCATION L0045067     VOLUME   441111.331 3761051.922 202.73
   LOCATION L0045068     VOLUME   441107.356 3761054.955 202.80
   LOCATION L0045069     VOLUME   441103.382 3761057.989 202.84
   LOCATION L0045070     VOLUME   441098.934 3761059.847 202.87
   LOCATION L0045071     VOLUME   441093.966 3761060.411 202.89
   LOCATION L0045072     VOLUME   441088.998 3761060.976 202.90
   LOCATION L0045073     VOLUME   441084.030 3761061.541 202.92
   LOCATION L0045074     VOLUME   441079.062 3761062.105 202.91
   LOCATION L0045075     VOLUME   441074.094 3761062.670 202.85
   LOCATION L0045076     VOLUME   441069.126 3761063.234 202.79
   LOCATION L0045077     VOLUME   441064.140 3761063.510 202.73
   LOCATION L0045078     VOLUME   441059.140 3761063.567 202.67
   LOCATION L0045079     VOLUME   441054.141 3761063.624 202.61
   LOCATION L0045080     VOLUME   441049.141 3761063.681 202.54
   LOCATION L0045081     VOLUME   441044.141 3761063.738 202.46
   LOCATION L0045082     VOLUME   441039.141 3761063.795 202.39
   LOCATION L0045083     VOLUME   441034.142 3761063.852 202.31
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   LOCATION L0045085     VOLUME   441024.142 3761063.965 202.26
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   LOCATION L0045092     VOLUME   440989.145 3761064.363 202.67
** End of LINE VOLUME Source ID = SLINE67
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE68
** DESCRSRC On-Site Circulation - PA 4 Loading Area 1
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 8.75E-06
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** 440856.406, 3761049.903, 201.74, 3.66, 2.33
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** 440824.275, 3760597.306, 197.76, 3.66, 2.33
** 440844.306, 3760553.497, 197.42, 3.66, 2.33
** 440880.275, 3760521.109, 197.53, 3.66, 2.33
** 440917.915, 3760512.846, 197.91, 3.66, 2.33
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   LOCATION L0045096     VOLUME   440970.543 3761063.528 203.07
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   LOCATION L0045098     VOLUME   440960.557 3761063.005 203.25
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   LOCATION L0045101     VOLUME   440945.577 3761062.222 203.38
   LOCATION L0045102     VOLUME   440940.584 3761061.961 203.38
   LOCATION L0045103     VOLUME   440935.591 3761061.700 203.39
   LOCATION L0045104     VOLUME   440930.598 3761061.439 203.39
   LOCATION L0045105     VOLUME   440925.605 3761061.177 203.35
   LOCATION L0045106     VOLUME   440920.611 3761060.917 203.24
   LOCATION L0045107     VOLUME   440915.617 3761060.679 203.13
   LOCATION L0045108     VOLUME   440910.623 3761060.441 203.02
   LOCATION L0045109     VOLUME   440905.628 3761060.203 202.91
   LOCATION L0045110     VOLUME   440900.634 3761059.965 202.79
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   LOCATION L0045112     VOLUME   440890.645 3761059.490 202.44
   LOCATION L0045113     VOLUME   440885.651 3761059.252 202.26
   LOCATION L0045114     VOLUME   440880.740 3761058.593 202.08
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   LOCATION L0045116     VOLUME   440871.323 3761055.230 201.86
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   LOCATION L0045119     VOLUME   440857.196 3761050.185 201.70
   LOCATION L0045120     VOLUME   440853.946 3761046.547 201.62
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   LOCATION L0045122     VOLUME   440848.032 3761038.483 201.45
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LOCATION L0045127     VOLUME   440835.568 3761017.395 201.05
LOCATION L0045128     VOLUME   440834.928 3761012.436 200.98
LOCATION L0045129     VOLUME   440834.289 3761007.477 200.91
LOCATION L0045130     VOLUME   440833.649 3761002.518 200.84
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LOCATION L0045132     VOLUME   440832.369 3760992.601 200.76
LOCATION L0045133     VOLUME   440831.729 3760987.642 200.71
LOCATION L0045134     VOLUME   440831.089 3760982.683 200.67
LOCATION L0045135     VOLUME   440830.449 3760977.724 200.63
LOCATION L0045136     VOLUME   440829.810 3760972.765 200.59
LOCATION L0045137     VOLUME   440829.170 3760967.806 200.55
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LOCATION L0045139     VOLUME   440827.890 3760957.888 200.49
LOCATION L0045140     VOLUME   440827.250 3760952.929 200.46
LOCATION L0045141     VOLUME   440826.610 3760947.971 200.42
LOCATION L0045142     VOLUME   440825.970 3760943.012 200.39
LOCATION L0045143     VOLUME   440825.331 3760938.053 200.35
LOCATION L0045144     VOLUME   440825.110 3760933.062 200.31
LOCATION L0045145     VOLUME   440825.004 3760928.064 200.26
LOCATION L0045146     VOLUME   440824.899 3760923.065 200.22
LOCATION L0045147     VOLUME   440824.793 3760918.066 200.18
LOCATION L0045148     VOLUME   440824.687 3760913.067 200.13
LOCATION L0045149     VOLUME   440824.582 3760908.068 200.09
LOCATION L0045150     VOLUME   440824.476 3760903.069 200.05
LOCATION L0045151     VOLUME   440824.370 3760898.070 200.01
LOCATION L0045152     VOLUME   440824.265 3760893.071 199.98
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LOCATION L0045155     VOLUME   440823.948 3760878.075 199.86
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LOCATION L0045158     VOLUME   440823.631 3760863.078 199.80
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LOCATION L0045163     VOLUME   440823.103 3760838.084 199.69
LOCATION L0045164     VOLUME   440822.998 3760833.085 199.66
LOCATION L0045165     VOLUME   440822.892 3760828.086 199.63
LOCATION L0045166     VOLUME   440822.786 3760823.087 199.61
LOCATION L0045167     VOLUME   440822.681 3760818.088 199.58
LOCATION L0045168     VOLUME   440822.575 3760813.089 199.55
LOCATION L0045169     VOLUME   440822.469 3760808.090 199.52
LOCATION L0045170     VOLUME   440822.469 3760803.091 199.49
LOCATION L0045171     VOLUME   440822.513 3760798.091 199.46
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LOCATION L0045173     VOLUME   440822.601 3760788.091 199.40
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LOCATION L0045175     VOLUME   440822.689 3760778.092 199.33
LOCATION L0045176     VOLUME   440822.733 3760773.092 199.29
LOCATION L0045177     VOLUME   440822.776 3760768.092 199.26
LOCATION L0045178     VOLUME   440822.820 3760763.092 199.22
LOCATION L0045179     VOLUME   440822.864 3760758.093 199.18
LOCATION L0045180     VOLUME   440822.908 3760753.093 199.14
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LOCATION L0045182     VOLUME   440822.996 3760743.093 199.06
LOCATION L0045183     VOLUME   440823.040 3760738.093 199.02
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LOCATION L0045185     VOLUME   440823.127 3760728.094 198.94
LOCATION L0045186     VOLUME   440823.171 3760723.094 198.90
LOCATION L0045187     VOLUME   440823.215 3760718.094 198.86
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LOCATION L0045189     VOLUME   440823.303 3760708.094 198.77
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LOCATION L0045191     VOLUME   440823.390 3760698.095 198.69
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LOCATION L0045199     VOLUME   440823.741 3760658.096 198.35
LOCATION L0045200     VOLUME   440823.785 3760653.097 198.31
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LOCATION L0045202     VOLUME   440823.873 3760643.097 198.22
LOCATION L0045203     VOLUME   440823.917 3760638.097 198.18
LOCATION L0045204     VOLUME   440823.961 3760633.097 198.14
LOCATION L0045205     VOLUME   440824.004 3760628.098 198.09
LOCATION L0045206     VOLUME   440824.048 3760623.098 198.03
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LOCATION L0045210     VOLUME   440824.224 3760603.099 197.81
LOCATION L0045211     VOLUME   440824.268 3760598.099 197.74
LOCATION L0045212     VOLUME   440826.024 3760593.480 197.69
LOCATION L0045213     VOLUME   440828.103 3760588.933 197.65
LOCATION L0045214     VOLUME   440830.183 3760584.385 197.60
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LOCATION L0045216     VOLUME   440834.341 3760575.291 197.52
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   LOCATION L0045231     VOLUME   440882.847 3760520.544 197.67
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   LOCATION L0045233     VOLUME   440892.615 3760518.400 197.81
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   LOCATION L0045241     VOLUME   440931.986 3760511.985 197.99
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   LOCATION L0045250     VOLUME   440976.925 3760509.792 198.28
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** Source Parameters **
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SRCPARAM L0041836     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041837     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041838     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041839     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041840     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041841     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041842     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041843     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041844     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041845     0.00000006807      3.66      2.33      2.89
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SRCPARAM L0041846     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041847     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041848     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041849     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041850     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041851     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041852     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041853     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041854     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041855     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041856     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041857     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041858     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041859     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041860     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041861     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041862     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041863     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041864     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041865     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041866     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041867     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041868     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041869     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041870     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041871     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041872     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041873     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041874     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041875     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041876     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041877     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041878     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041879     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041880     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041881     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041882     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041883     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041884     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041885     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041886     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041887     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041888     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041889     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041890     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041891     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041892     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041893     0.00000006807      3.66      2.33      2.89
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   SRCPARAM L0041894     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041895     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041896     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041897     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041898     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041899     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041900     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041901     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041902     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041903     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041904     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041905     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041906     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041907     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041908     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041909     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041910     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041911     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041912     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041913     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041914     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041915     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041916     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041917     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041918     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041919     0.00000006807      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0041920     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041921     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041922     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041923     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041924     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041925     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041926     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041927     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041928     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041929     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041930     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041931     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041932     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041933     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041934     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041935     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041936     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041937     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041938     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041939     0.00000005535      3.66      2.33      2.89
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   SRCPARAM L0041940     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041941     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041942     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041943     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041944     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041945     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041946     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041947     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041948     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041949     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041950     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041951     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041952     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041953     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041954     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041955     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041956     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041957     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041958     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041959     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041960     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041961     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041962     0.00000005535      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0041963     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041964     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041965     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041966     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041967     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041968     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041969     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041970     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041971     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041972     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041973     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041974     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041975     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041976     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041977     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041978     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041979     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041980     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041981     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041982     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041983     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041984     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041985     0.0000000465      3.66      2.33      2.89
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   SRCPARAM L0041986     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041987     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041988     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041989     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041990     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041991     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041992     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041993     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041994     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041995     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041996     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041997     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041998     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041999     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0042000     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0042001     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0042002     0.0000000465      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0042003     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042004     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042005     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042006     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042007     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042008     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042009     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042010     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042011     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042012     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042013     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042014     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042015     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042016     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042017     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042018     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042019     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042020     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042021     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042022     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042023     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042024     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042025     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042026     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042027     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042028     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042029     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042030     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042031     0.00000004472      3.66      2.33      2.89
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   SRCPARAM L0042032     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042033     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042034     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042035     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042036     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042037     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042038     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042039     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042040     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042041     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042042     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042043     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042044     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042045     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042046     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042047     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042048     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042049     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042050     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042051     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042052     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042053     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042054     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042055     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042056     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042057     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042058     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042059     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042060     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042061     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042062     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042063     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042064     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042065     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042066     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042067     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042068     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042069     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042070     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042071     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042072     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042073     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042074     0.00000004472      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0042075     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042076     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042077     0.00000003475      3.66      2.33      2.89
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   SRCPARAM L0042078     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042079     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042080     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042081     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042082     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042083     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042084     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042085     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042086     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042087     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042088     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042089     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042090     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042091     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042092     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042093     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042094     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042095     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042096     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042097     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042098     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042099     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042100     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042101     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042102     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042103     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042104     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042105     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042106     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042107     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042108     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042109     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042110     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042111     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042112     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042113     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042114     0.00000003475      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0042115     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042116     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042117     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042118     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042119     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042120     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042121     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042122     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042123     0.0000000232      3.66      2.33      2.89
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   SRCPARAM L0042124     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042125     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042126     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042127     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042128     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042129     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042130     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042131     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042132     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042133     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042134     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042135     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042136     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042137     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042138     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042139     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042140     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042141     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042142     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042143     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042144     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042145     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042146     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042147     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042148     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042149     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042150     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042151     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042152     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042153     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042154     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042155     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042156     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042157     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042158     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042159     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042160     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042161     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042162     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042163     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042164     0.0000000232      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE18
   SRCPARAM L0042165     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042166     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042167     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042168     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042169     0.0000001204      3.66      2.33      2.89
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SRCPARAM L0042170     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042171     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042172     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042173     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042174     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042175     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042176     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042177     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042178     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042179     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042180     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042181     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042182     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042183     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042184     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042185     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042186     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042187     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042188     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042189     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042190     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042191     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042192     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042193     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042194     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042195     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042196     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042197     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042198     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042199     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042200     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042201     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042202     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042203     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042204     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042205     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042206     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042207     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042208     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042209     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042210     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042211     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042212     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042213     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042214     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042215     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042216     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042217     0.0000001204      3.66      2.33      2.89
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   SRCPARAM L0042218     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042219     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042220     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042221     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042222     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042223     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042224     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042225     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042226     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042227     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042228     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042229     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042230     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042231     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042232     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042233     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042234     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042235     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042236     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042237     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042238     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042239     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042240     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042241     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042242     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042243     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042244     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042245     0.0000001204      3.66      2.33      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE19
   SRCPARAM L0042246     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042247     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042248     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042249     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042250     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042251     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042252     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042253     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042254     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042255     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042256     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042257     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042258     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042259     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042260     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042261     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042262     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042263     0.00000008667      3.66      2.33      2.89
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   SRCPARAM L0042264     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042265     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042266     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042267     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042268     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042269     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042270     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042271     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042272     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042273     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042274     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042275     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042276     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042277     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042278     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042279     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042280     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042281     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042282     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042283     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042284     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042285     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042286     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042287     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042288     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042289     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042290     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042291     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042292     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042293     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042294     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042295     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042296     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042297     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042298     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042299     0.00000008667      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE20
   SRCPARAM L0042300     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042301     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042302     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042303     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042304     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042305     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042306     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042307     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042308     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042309     0.0000000564      3.66      2.33      2.89
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   SRCPARAM L0042310     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042311     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042312     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042313     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042314     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042315     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042316     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042317     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042318     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042319     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042320     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042321     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042322     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042323     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042324     0.0000000564      3.66      2.33      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE21
   SRCPARAM L0042325     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042326     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042327     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042328     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042329     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042330     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042331     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042332     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042333     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042334     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042335     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042336     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042337     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042338     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042339     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042340     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042341     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042342     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042343     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042344     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042345     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042346     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042347     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042348     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042349     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042350     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042351     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042352     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042353     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042354     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042355     0.00000004195      3.66      2.33      2.89
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   SRCPARAM L0042356     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042357     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042358     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042359     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042360     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042361     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042362     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042363     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042364     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042365     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042366     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042367     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042368     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042369     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042370     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042371     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042372     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042373     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042374     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042375     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042376     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042377     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042378     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042379     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042380     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042381     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042382     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042383     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042384     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042385     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042386     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042387     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042388     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042389     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042390     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042391     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042392     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042393     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042394     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042395     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042396     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042397     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042398     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042399     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042400     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042401     0.00000004195      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE22
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SRCPARAM L0042402     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042403     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042404     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042405     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042406     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042407     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042408     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042409     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042410     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042411     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042412     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042413     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042414     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042415     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042416     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042417     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042418     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042419     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042420     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042421     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042422     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042423     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042424     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042425     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042426     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042427     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042428     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042429     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042430     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042431     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042432     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042433     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042434     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042435     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042436     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042437     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042438     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042439     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042440     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042441     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042442     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042443     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042444     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042445     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042446     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042447     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042448     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042449     0.000000008008      3.66      2.33      2.89
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SRCPARAM L0042450     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042451     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042452     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042453     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042454     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042455     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042456     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042457     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042458     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042459     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042460     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042461     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042462     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042463     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042464     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042465     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042466     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042467     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042468     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042469     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042470     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042471     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042472     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042473     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042474     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042475     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042476     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042477     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042478     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042479     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042480     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042481     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042482     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042483     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042484     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042485     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042486     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042487     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042488     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042489     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042490     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042491     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042492     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042493     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042494     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042495     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042496     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042497     0.000000008008      3.66      2.33      2.89
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   SRCPARAM L0042498     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042499     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042500     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042501     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042502     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042503     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042504     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042505     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042506     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042507     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042508     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042509     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042510     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042511     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042512     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042513     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042514     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042515     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042516     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042517     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042518     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042519     0.000000008008      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE23
   SRCPARAM L0042520     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042521     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042522     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042523     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042524     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042525     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042526     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042527     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042528     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042529     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042530     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042531     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042532     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042533     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042534     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042535     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042536     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042537     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042538     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042539     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042540     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042541     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042542     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042543     0.00000004861      3.66      2.33      2.89
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   SRCPARAM L0042544     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042545     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042546     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042547     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042548     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042549     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042550     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042551     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042552     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042553     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042554     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042555     0.00000004861      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE24
   SRCPARAM L0042556     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042557     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042558     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042559     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042560     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042561     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042562     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042563     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042564     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042565     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042566     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042567     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042568     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042569     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042570     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042571     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042572     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042573     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042574     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042575     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042576     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042577     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042578     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042579     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042580     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042581     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042582     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042583     0.00000005179      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE25
   SRCPARAM L0042584     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042585     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042586     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042587     0.00000003484      3.66      2.33      2.89
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   SRCPARAM L0042588     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042589     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042590     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042591     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042592     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042593     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042594     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042595     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042596     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042597     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042598     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042599     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042600     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042601     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042602     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042603     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042604     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042605     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042606     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042607     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042608     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042609     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042610     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042611     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042612     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042613     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042614     0.00000003484      3.66      2.33      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE26
   SRCPARAM L0042615     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042616     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042617     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042618     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042619     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042620     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042621     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042622     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042623     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042624     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042625     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042626     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042627     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042628     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042629     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042630     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042631     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042632     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042633     0.00000001931      3.66      2.33      2.89
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   SRCPARAM L0042634     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042635     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042636     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042637     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042638     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042639     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042640     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042641     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042642     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042643     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042644     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042645     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042646     0.00000001931      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0042647     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042648     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042649     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042650     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042651     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042652     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042653     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042654     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042655     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042656     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042657     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042658     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042659     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042660     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042661     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042662     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042663     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042664     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042665     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042666     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042667     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042668     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042669     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042670     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042671     0.00000001392      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0042672     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042673     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042674     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042675     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042676     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042677     0.00000001388      3.66      2.33      2.89
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   SRCPARAM L0042678     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042679     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042680     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042681     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042682     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042683     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042684     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042685     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042686     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042687     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042688     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042689     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042690     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042691     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042692     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042693     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042694     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042695     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042696     0.00000001388      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0042697     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042698     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042699     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042700     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042701     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042702     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042703     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042704     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042705     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042706     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042707     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042708     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042709     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042710     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042711     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042712     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042713     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042714     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042715     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042716     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042717     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042718     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042719     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042720     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042721     0.00000001392      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
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   SRCPARAM L0042722     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042723     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042724     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042725     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042726     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042727     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042728     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042729     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042730     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042731     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042732     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042733     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042734     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042735     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042736     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042737     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042738     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042739     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042740     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042741     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042742     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042743     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042744     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042745     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042746     0.00000002756      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0042747     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042748     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042749     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042750     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042751     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042752     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042753     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042754     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042755     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042756     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042757     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042758     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042759     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042760     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042761     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042762     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042763     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042764     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042765     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042766     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042767     0.00000008224      3.66      2.33      2.89
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SRCPARAM L0042768     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042769     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042770     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042771     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042772     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042773     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042774     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042775     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042776     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042777     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042778     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042779     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042780     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042781     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042782     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042783     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042784     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042785     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042786     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042787     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042788     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042789     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042790     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042791     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042792     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042793     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042794     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042795     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042796     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042797     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042798     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042799     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042800     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042801     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042802     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042803     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042804     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042805     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042806     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042807     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042808     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042809     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042810     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042811     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042812     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042813     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042814     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042815     0.00000008224      3.66      2.33      2.89
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   SRCPARAM L0042816     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042817     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042818     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042819     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042820     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042821     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042822     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042823     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042824     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042825     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042826     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042827     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042828     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042829     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042830     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042831     0.00000008224      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0042832     0.00000001675      3.66      2.33      2.89
   SRCPARAM L0042833     0.00000001675      3.66      2.33      2.89
   SRCPARAM L0042834     0.00000001675      3.66      2.33      2.89
   SRCPARAM L0042835     0.00000001675      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0042836     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042837     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042838     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042839     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042840     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042841     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042842     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042843     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042844     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042845     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042846     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042847     0.00000008175      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0042848     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042849     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042850     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042851     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042852     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042853     0.00000003383      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0042854     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042855     0.0000000258      3.66      2.33      2.89
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   SRCPARAM L0042856     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042857     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042858     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042859     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042860     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042861     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042862     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042863     0.0000000258      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0042864     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042865     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042866     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042867     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042868     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042869     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042870     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042871     0.00000007525      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0042872     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042873     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042874     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042875     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042876     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042877     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042878     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042879     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042880     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042881     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042882     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042883     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042884     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042885     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042886     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042887     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042888     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042889     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042890     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042891     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042892     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042893     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042894     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042895     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042896     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042897     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042898     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042899     0.00000005693      3.66      2.33      2.89
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   SRCPARAM L0042900     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042901     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042902     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042903     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042904     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042905     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042906     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042907     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042908     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042909     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042910     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042911     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042912     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042913     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042914     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042915     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042916     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042917     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042918     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042919     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042920     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042921     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042922     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042923     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042924     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042925     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042926     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042927     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042928     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042929     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042930     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042931     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042932     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042933     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042934     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042935     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042936     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042937     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042938     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042939     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042940     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042941     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042942     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042943     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042944     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042945     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042946     0.00000005693      3.66      2.33      2.89
** ------------------------------------------------------------------
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** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0042947     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042948     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042949     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042950     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042951     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042952     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042953     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042954     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042955     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042956     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042957     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042958     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042959     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042960     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042961     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042962     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042963     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042964     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042965     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042966     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042967     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042968     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042969     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042970     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042971     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042972     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042973     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042974     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042975     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042976     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042977     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042978     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042979     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042980     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042981     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042982     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042983     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042984     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042985     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042986     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042987     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042988     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042989     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042990     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042991     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042992     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042993     0.00000002267      3.66      2.33      2.89
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   SRCPARAM L0042994     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042995     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042996     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042997     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042998     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042999     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043000     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043001     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043002     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043003     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043004     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043005     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043006     0.00000002267      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE39
   SRCPARAM L0043007     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043008     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043009     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043010     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043011     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043012     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043013     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043014     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043015     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043016     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043017     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043018     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043019     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043020     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043021     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043022     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043023     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043024     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043025     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043026     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043027     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043028     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043029     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043030     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043031     0.00000000676      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE40
   SRCPARAM L0043032     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043033     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043034     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043035     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043036     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043037     0.000000006818      3.66      2.33      2.89
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   SRCPARAM L0043038     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043039     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043040     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043041     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043042     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043043     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043044     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043045     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043046     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043047     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043048     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043049     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043050     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043051     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043052     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043053     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043054     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043055     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043056     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043057     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043058     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043059     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043060     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043061     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043062     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043063     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043064     0.000000006818      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE41
   SRCPARAM L0043065     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043066     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043067     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043068     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043069     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043070     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043071     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043072     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043073     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043074     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043075     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043076     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043077     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043078     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043079     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043080     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043081     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043082     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043083     0.000000006918      3.66      2.33      2.89
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   SRCPARAM L0043084     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043085     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043086     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043087     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043088     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043089     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043090     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043091     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043092     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043093     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043094     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043095     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043096     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043097     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043098     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043099     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043100     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043101     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043102     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043103     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043104     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043105     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043106     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043107     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043108     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043109     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043110     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043111     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043112     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043113     0.000000006918      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE42
   SRCPARAM L0043114     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043115     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043116     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043117     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043118     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043119     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043120     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043121     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043122     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043123     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043124     0.000000001664      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE43
   SRCPARAM L0043125     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043126     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043127     0.0000000128      3.66      2.33      2.89
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   SRCPARAM L0043128     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043129     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043130     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043131     0.0000000128      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE44
   SRCPARAM L0043132     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043133     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043134     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043135     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043136     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043137     0.000000017      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE45
   SRCPARAM L0043138     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043139     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043140     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043141     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043142     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043143     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043144     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043145     0.00000003225      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE46
   SRCPARAM L0043146     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043147     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043148     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043149     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043150     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043151     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043152     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043153     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043154     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043155     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043156     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043157     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043158     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043159     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043160     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043161     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043162     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043163     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043164     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043165     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043166     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043167     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043168     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043169     0.00000006859      3.66      2.33      2.89
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SRCPARAM L0043170     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043171     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043172     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043173     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043174     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043175     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043176     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043177     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043178     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043179     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043180     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043181     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043182     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043183     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043184     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043185     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043186     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043187     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043188     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043189     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043190     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043191     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043192     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043193     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043194     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043195     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043196     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043197     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043198     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043199     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043200     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043201     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043202     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043203     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043204     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043205     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043206     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043207     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043208     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043209     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043210     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043211     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043212     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043213     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043214     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043215     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043216     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043217     0.00000006859      3.66      2.33      2.89
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SRCPARAM L0043218     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043219     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043220     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043221     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043222     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043223     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043224     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043225     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043226     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043227     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043228     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043229     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043230     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043231     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043232     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043233     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043234     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043235     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043236     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043237     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043238     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043239     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043240     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043241     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043242     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043243     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043244     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043245     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043246     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043247     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043248     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043249     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043250     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043251     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043252     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043253     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043254     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043255     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043256     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043257     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043258     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043259     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043260     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043261     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043262     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043263     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043264     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043265     0.00000006859      3.66      2.33      2.89
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   SRCPARAM L0043266     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043267     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043268     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043269     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043270     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043271     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043272     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043273     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043274     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043275     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043276     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043277     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043278     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043279     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043280     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043281     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043282     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043283     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043284     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043285     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043286     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043287     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043288     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043289     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043290     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043291     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043292     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043293     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043294     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043295     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043296     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043297     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043298     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043299     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043300     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043301     0.00000006859      3.66      2.33      2.89
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** LINE VOLUME Source ID = SLINE47
   SRCPARAM L0043302     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043303     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043304     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043305     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043306     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043307     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043308     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043309     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043310     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043311     0.00000005921      3.66      2.33      2.89
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SRCPARAM L0043312     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043313     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043314     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043315     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043316     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043317     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043318     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043319     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043320     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043321     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043322     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043323     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043324     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043325     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043326     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043327     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043328     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043329     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043330     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043331     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043332     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043333     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043334     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043335     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043336     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043337     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043338     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043339     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043340     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043341     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043342     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043343     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043344     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043345     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043346     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043347     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043348     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043349     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043350     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043351     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043352     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043353     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043354     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043355     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043356     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043357     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043358     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043359     0.00000005921      3.66      2.33      2.89
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SRCPARAM L0043360     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043361     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043362     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043363     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043364     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043365     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043366     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043367     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043368     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043369     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043370     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043371     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043372     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043373     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043374     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043375     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043376     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043377     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043378     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043379     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043380     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043381     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043382     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043383     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043384     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043385     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043386     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043387     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043388     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043389     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043390     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043391     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043392     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043393     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043394     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043395     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043396     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043397     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043398     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043399     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043400     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043401     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043402     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043403     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043404     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043405     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043406     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043407     0.00000005921      3.66      2.33      2.89
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   SRCPARAM L0043408     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043409     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043410     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043411     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043412     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043413     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043414     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043415     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043416     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043417     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043418     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043419     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043420     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043421     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043422     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043423     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043424     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043425     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043426     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043427     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043428     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043429     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043430     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043431     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043432     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043433     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043434     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043435     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043436     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043437     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043438     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043439     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043440     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043441     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043442     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043443     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043444     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043445     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043446     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043447     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043448     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043449     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043450     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043451     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043452     0.00000005921      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE48
   SRCPARAM L0043453     0.00000005866      3.66      2.33      2.89
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SRCPARAM L0043454     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043455     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043456     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043457     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043458     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043459     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043460     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043461     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043462     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043463     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043464     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043465     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043466     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043467     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043468     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043469     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043470     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043471     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043472     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043473     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043474     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043475     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043476     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043477     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043478     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043479     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043480     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043481     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043482     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043483     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043484     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043485     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043486     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043487     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043488     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043489     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043490     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043491     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043492     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043493     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043494     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043495     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043496     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043497     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043498     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043499     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043500     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043501     0.00000005866      3.66      2.33      2.89
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SRCPARAM L0043502     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043503     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043504     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043505     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043506     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043507     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043508     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043509     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043510     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043511     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043512     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043513     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043514     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043515     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043516     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043517     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043518     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043519     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043520     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043521     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043522     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043523     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043524     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043525     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043526     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043527     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043528     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043529     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043530     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043531     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043532     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043533     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043534     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043535     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043536     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043537     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043538     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043539     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043540     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043541     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043542     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043543     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043544     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043545     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043546     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043547     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043548     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043549     0.00000005866      3.66      2.33      2.89
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SRCPARAM L0043550     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043551     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043552     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043553     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043554     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043555     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043556     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043557     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043558     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043559     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043560     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043561     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043562     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043563     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043564     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043565     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043566     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043567     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043568     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043569     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043570     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043571     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043572     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043573     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043574     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043575     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043576     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043577     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043578     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043579     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043580     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043581     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043582     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043583     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043584     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043585     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043586     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043587     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043588     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043589     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043590     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043591     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043592     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043593     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043594     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043595     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043596     0.00000005866      3.66      2.33      2.89
SRCPARAM L0043597     0.00000005866      3.66      2.33      2.89
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   SRCPARAM L0043598     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043599     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043600     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043601     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043602     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043603     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043604     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043605     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043606     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043607     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043608     0.00000005866      3.66      2.33      2.89
   SRCPARAM L0043609     0.00000005866      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE49
   SRCPARAM L0043610           0.0      3.66      1.40      2.89
   SRCPARAM L0043611           0.0      3.66      1.40      2.89
   SRCPARAM L0043612           0.0      3.66      1.40      2.89
   SRCPARAM L0043613           0.0      3.66      1.40      2.89
   SRCPARAM L0043614           0.0      3.66      1.40      2.89
   SRCPARAM L0043615           0.0      3.66      1.40      2.89
   SRCPARAM L0043616           0.0      3.66      1.40      2.89
   SRCPARAM L0043617           0.0      3.66      1.40      2.89
   SRCPARAM L0043618           0.0      3.66      1.40      2.89
   SRCPARAM L0043619           0.0      3.66      1.40      2.89
   SRCPARAM L0043620           0.0      3.66      1.40      2.89
   SRCPARAM L0043621           0.0      3.66      1.40      2.89
   SRCPARAM L0043622           0.0      3.66      1.40      2.89
   SRCPARAM L0043623           0.0      3.66      1.40      2.89
   SRCPARAM L0043624           0.0      3.66      1.40      2.89
   SRCPARAM L0043625           0.0      3.66      1.40      2.89
   SRCPARAM L0043626           0.0      3.66      1.40      2.89
   SRCPARAM L0043627           0.0      3.66      1.40      2.89
   SRCPARAM L0043628           0.0      3.66      1.40      2.89
   SRCPARAM L0043629           0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE50
   SRCPARAM L0043630           0.0      3.66      1.40      2.89
   SRCPARAM L0043631           0.0      3.66      1.40      2.89
   SRCPARAM L0043632           0.0      3.66      1.40      2.89
   SRCPARAM L0043633           0.0      3.66      1.40      2.89
   SRCPARAM L0043634           0.0      3.66      1.40      2.89
   SRCPARAM L0043635           0.0      3.66      1.40      2.89
   SRCPARAM L0043636           0.0      3.66      1.40      2.89
   SRCPARAM L0043637           0.0      3.66      1.40      2.89
   SRCPARAM L0043638           0.0      3.66      1.40      2.89
   SRCPARAM L0043639           0.0      3.66      1.40      2.89
   SRCPARAM L0043640           0.0      3.66      1.40      2.89
   SRCPARAM L0043641           0.0      3.66      1.40      2.89
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   SRCPARAM L0043642          0.0      3.66      1.40      2.89
   SRCPARAM L0043643          0.0      3.66      1.40      2.89
   SRCPARAM L0043644          0.0      3.66      1.40      2.89
   SRCPARAM L0043645          0.0      3.66      1.40      2.89
   SRCPARAM L0043646          0.0      3.66      1.40      2.89
   SRCPARAM L0043647          0.0      3.66      1.40      2.89
   SRCPARAM L0043648          0.0      3.66      1.40      2.89
   SRCPARAM L0043649          0.0      3.66      1.40      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE51
   SRCPARAM L0043650          0.0      3.66      1.40      2.89
   SRCPARAM L0043651          0.0      3.66      1.40      2.89
   SRCPARAM L0043652          0.0      3.66      1.40      2.89
   SRCPARAM L0043653          0.0      3.66      1.40      2.89
   SRCPARAM L0043654          0.0      3.66      1.40      2.89
   SRCPARAM L0043655          0.0      3.66      1.40      2.89
   SRCPARAM L0043656          0.0      3.66      1.40      2.89
   SRCPARAM L0043657          0.0      3.66      1.40      2.89
   SRCPARAM L0043658          0.0      3.66      1.40      2.89
   SRCPARAM L0043659          0.0      3.66      1.40      2.89
   SRCPARAM L0043660          0.0      3.66      1.40      2.89
   SRCPARAM L0043661          0.0      3.66      1.40      2.89
   SRCPARAM L0043662          0.0      3.66      1.40      2.89
   SRCPARAM L0043663          0.0      3.66      1.40      2.89
   SRCPARAM L0043664          0.0      3.66      1.40      2.89
   SRCPARAM L0043665          0.0      3.66      1.40      2.89
   SRCPARAM L0043666          0.0      3.66      1.40      2.89
   SRCPARAM L0043667          0.0      3.66      1.40      2.89
   SRCPARAM L0043668          0.0      3.66      1.40      2.89
   SRCPARAM L0043669          0.0      3.66      1.40      2.89
   SRCPARAM L0043670          0.0      3.66      1.40      2.89
   SRCPARAM L0043671          0.0      3.66      1.40      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE52
   SRCPARAM L0043672          0.0      3.66      1.40      2.89
   SRCPARAM L0043673          0.0      3.66      1.40      2.89
   SRCPARAM L0043674          0.0      3.66      1.40      2.89
   SRCPARAM L0043675          0.0      3.66      1.40      2.89
   SRCPARAM L0043676          0.0      3.66      1.40      2.89
   SRCPARAM L0043677          0.0      3.66      1.40      2.89
   SRCPARAM L0043678          0.0      3.66      1.40      2.89
   SRCPARAM L0043679          0.0      3.66      1.40      2.89
   SRCPARAM L0043680          0.0      3.66      1.40      2.89
   SRCPARAM L0043681          0.0      3.66      1.40      2.89
   SRCPARAM L0043682          0.0      3.66      1.40      2.89
   SRCPARAM L0043683          0.0      3.66      1.40      2.89
   SRCPARAM L0043684          0.0      3.66      1.40      2.89
   SRCPARAM L0043685          0.0      3.66      1.40      2.89
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   SRCPARAM L0043686          0.0      3.66      1.40      2.89
   SRCPARAM L0043687          0.0      3.66      1.40      2.89
   SRCPARAM L0043688          0.0      3.66      1.40      2.89
   SRCPARAM L0043689          0.0      3.66      1.40      2.89
   SRCPARAM L0043690          0.0      3.66      1.40      2.89
   SRCPARAM L0043691          0.0      3.66      1.40      2.89
   SRCPARAM L0043692          0.0      3.66      1.40      2.89
   SRCPARAM L0043693          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE53
   SRCPARAM L0043694          0.0      3.66      1.40      2.89
   SRCPARAM L0043695          0.0      3.66      1.40      2.89
   SRCPARAM L0043696          0.0      3.66      1.40      2.89
   SRCPARAM L0043697          0.0      3.66      1.40      2.89
   SRCPARAM L0043698          0.0      3.66      1.40      2.89
   SRCPARAM L0043699          0.0      3.66      1.40      2.89
   SRCPARAM L0043700          0.0      3.66      1.40      2.89
   SRCPARAM L0043701          0.0      3.66      1.40      2.89
   SRCPARAM L0043702          0.0      3.66      1.40      2.89
   SRCPARAM L0043703          0.0      3.66      1.40      2.89
   SRCPARAM L0043704          0.0      3.66      1.40      2.89
   SRCPARAM L0043705          0.0      3.66      1.40      2.89
   SRCPARAM L0043706          0.0      3.66      1.40      2.89
   SRCPARAM L0043707          0.0      3.66      1.40      2.89
   SRCPARAM L0043708          0.0      3.66      1.40      2.89
   SRCPARAM L0043709          0.0      3.66      1.40      2.89
   SRCPARAM L0043710          0.0      3.66      1.40      2.89
   SRCPARAM L0043711          0.0      3.66      1.40      2.89
   SRCPARAM L0043712          0.0      3.66      1.40      2.89
   SRCPARAM L0043713          0.0      3.66      1.40      2.89
   SRCPARAM L0043714          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE54
   SRCPARAM L0043715          0.0      3.66      1.40      2.89
   SRCPARAM L0043716          0.0      3.66      1.40      2.89
   SRCPARAM L0043717          0.0      3.66      1.40      2.89
   SRCPARAM L0043718          0.0      3.66      1.40      2.89
   SRCPARAM L0043719          0.0      3.66      1.40      2.89
   SRCPARAM L0043720          0.0      3.66      1.40      2.89
   SRCPARAM L0043721          0.0      3.66      1.40      2.89
   SRCPARAM L0043722          0.0      3.66      1.40      2.89
   SRCPARAM L0043723          0.0      3.66      1.40      2.89
   SRCPARAM L0043724          0.0      3.66      1.40      2.89
   SRCPARAM L0043725          0.0      3.66      1.40      2.89
   SRCPARAM L0043726          0.0      3.66      1.40      2.89
   SRCPARAM L0043727          0.0      3.66      1.40      2.89
   SRCPARAM L0043728          0.0      3.66      1.40      2.89
   SRCPARAM L0043729          0.0      3.66      1.40      2.89
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SRCPARAM L0043730          0.0      3.66      1.40      2.89
SRCPARAM L0043731          0.0      3.66      1.40      2.89
SRCPARAM L0043732          0.0      3.66      1.40      2.89
SRCPARAM L0043733          0.0      3.66      1.40      2.89
SRCPARAM L0043734          0.0      3.66      1.40      2.89
SRCPARAM L0043735          0.0      3.66      1.40      2.89
SRCPARAM L0043736          0.0      3.66      1.40      2.89
SRCPARAM L0043737          0.0      3.66      1.40      2.89
SRCPARAM L0043738          0.0      3.66      1.40      2.89
SRCPARAM L0043739          0.0      3.66      1.40      2.89
SRCPARAM L0043740          0.0      3.66      1.40      2.89
SRCPARAM L0043741          0.0      3.66      1.40      2.89
SRCPARAM L0043742          0.0      3.66      1.40      2.89
SRCPARAM L0043743          0.0      3.66      1.40      2.89
SRCPARAM L0043744          0.0      3.66      1.40      2.89
SRCPARAM L0043745          0.0      3.66      1.40      2.89
SRCPARAM L0043746          0.0      3.66      1.40      2.89
SRCPARAM L0043747          0.0      3.66      1.40      2.89
SRCPARAM L0043748          0.0      3.66      1.40      2.89
SRCPARAM L0043749          0.0      3.66      1.40      2.89
SRCPARAM L0043750          0.0      3.66      1.40      2.89
SRCPARAM L0043751          0.0      3.66      1.40      2.89
SRCPARAM L0043752          0.0      3.66      1.40      2.89
SRCPARAM L0043753          0.0      3.66      1.40      2.89
SRCPARAM L0043754          0.0      3.66      1.40      2.89
SRCPARAM L0043755          0.0      3.66      1.40      2.89
SRCPARAM L0043756          0.0      3.66      1.40      2.89
SRCPARAM L0043757          0.0      3.66      1.40      2.89
SRCPARAM L0043758          0.0      3.66      1.40      2.89
SRCPARAM L0043759          0.0      3.66      1.40      2.89
SRCPARAM L0043760          0.0      3.66      1.40      2.89
SRCPARAM L0043761          0.0      3.66      1.40      2.89
SRCPARAM L0043762          0.0      3.66      1.40      2.89
SRCPARAM L0043763          0.0      3.66      1.40      2.89
SRCPARAM L0043764          0.0      3.66      1.40      2.89
SRCPARAM L0043765          0.0      3.66      1.40      2.89
SRCPARAM L0043766          0.0      3.66      1.40      2.89
SRCPARAM L0043767          0.0      3.66      1.40      2.89
SRCPARAM L0043768          0.0      3.66      1.40      2.89
SRCPARAM L0043769          0.0      3.66      1.40      2.89
SRCPARAM L0043770          0.0      3.66      1.40      2.89
SRCPARAM L0043771          0.0      3.66      1.40      2.89
SRCPARAM L0043772          0.0      3.66      1.40      2.89
SRCPARAM L0043773          0.0      3.66      1.40      2.89
SRCPARAM L0043774          0.0      3.66      1.40      2.89
SRCPARAM L0043775          0.0      3.66      1.40      2.89
SRCPARAM L0043776          0.0      3.66      1.40      2.89
SRCPARAM L0043777          0.0      3.66      1.40      2.89
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   SRCPARAM L0043778          0.0      3.66      1.40      2.89
   SRCPARAM L0043779          0.0      3.66      1.40      2.89
   SRCPARAM L0043780          0.0      3.66      1.40      2.89
   SRCPARAM L0043781          0.0      3.66      1.40      2.89
   SRCPARAM L0043782          0.0      3.66      1.40      2.89
   SRCPARAM L0043783          0.0      3.66      1.40      2.89
   SRCPARAM L0043784          0.0      3.66      1.40      2.89
   SRCPARAM L0043785          0.0      3.66      1.40      2.89
   SRCPARAM L0043786          0.0      3.66      1.40      2.89
   SRCPARAM L0043787          0.0      3.66      1.40      2.89
   SRCPARAM L0043788          0.0      3.66      1.40      2.89
   SRCPARAM L0043789          0.0      3.66      1.40      2.89
   SRCPARAM L0043790          0.0      3.66      1.40      2.89
   SRCPARAM L0043791          0.0      3.66      1.40      2.89
   SRCPARAM L0043792          0.0      3.66      1.40      2.89
   SRCPARAM L0043793          0.0      3.66      1.40      2.89
   SRCPARAM L0043794          0.0      3.66      1.40      2.89
   SRCPARAM L0043795          0.0      3.66      1.40      2.89
   SRCPARAM L0043796          0.0      3.66      1.40      2.89
   SRCPARAM L0043797          0.0      3.66      1.40      2.89
   SRCPARAM L0043798          0.0      3.66      1.40      2.89
   SRCPARAM L0043799          0.0      3.66      1.40      2.89
   SRCPARAM L0043800          0.0      3.66      1.40      2.89
   SRCPARAM L0043801          0.0      3.66      1.40      2.89
   SRCPARAM L0043802          0.0      3.66      1.40      2.89
   SRCPARAM L0043803          0.0      3.66      1.40      2.89
   SRCPARAM L0043804          0.0      3.66      1.40      2.89
   SRCPARAM L0043805          0.0      3.66      1.40      2.89
   SRCPARAM L0043806          0.0      3.66      1.40      2.89
   SRCPARAM L0043807          0.0      3.66      1.40      2.89
   SRCPARAM L0043808          0.0      3.66      1.40      2.89
   SRCPARAM L0043809          0.0      3.66      1.40      2.89
   SRCPARAM L0043810          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE55
   SRCPARAM L0043811          0.0      3.66      1.40      2.89
   SRCPARAM L0043812          0.0      3.66      1.40      2.89
   SRCPARAM L0043813          0.0      3.66      1.40      2.89
   SRCPARAM L0043814          0.0      3.66      1.40      2.89
   SRCPARAM L0043815          0.0      3.66      1.40      2.89
   SRCPARAM L0043816          0.0      3.66      1.40      2.89
   SRCPARAM L0043817          0.0      3.66      1.40      2.89
   SRCPARAM L0043818          0.0      3.66      1.40      2.89
   SRCPARAM L0043819          0.0      3.66      1.40      2.89
   SRCPARAM L0043820          0.0      3.66      1.40      2.89
   SRCPARAM L0043821          0.0      3.66      1.40      2.89
   SRCPARAM L0043822          0.0      3.66      1.40      2.89
   SRCPARAM L0043823          0.0      3.66      1.40      2.89
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SRCPARAM L0043824          0.0      3.66      1.40      2.89
SRCPARAM L0043825          0.0      3.66      1.40      2.89
SRCPARAM L0043826          0.0      3.66      1.40      2.89
SRCPARAM L0043827          0.0      3.66      1.40      2.89
SRCPARAM L0043828          0.0      3.66      1.40      2.89
SRCPARAM L0043829          0.0      3.66      1.40      2.89
SRCPARAM L0043830          0.0      3.66      1.40      2.89
SRCPARAM L0043831          0.0      3.66      1.40      2.89
SRCPARAM L0043832          0.0      3.66      1.40      2.89
SRCPARAM L0043833          0.0      3.66      1.40      2.89
SRCPARAM L0043834          0.0      3.66      1.40      2.89
SRCPARAM L0043835          0.0      3.66      1.40      2.89
SRCPARAM L0043836          0.0      3.66      1.40      2.89
SRCPARAM L0043837          0.0      3.66      1.40      2.89
SRCPARAM L0043838          0.0      3.66      1.40      2.89
SRCPARAM L0043839          0.0      3.66      1.40      2.89
SRCPARAM L0043840          0.0      3.66      1.40      2.89
SRCPARAM L0043841          0.0      3.66      1.40      2.89
SRCPARAM L0043842          0.0      3.66      1.40      2.89
SRCPARAM L0043843          0.0      3.66      1.40      2.89
SRCPARAM L0043844          0.0      3.66      1.40      2.89
SRCPARAM L0043845          0.0      3.66      1.40      2.89
SRCPARAM L0043846          0.0      3.66      1.40      2.89
SRCPARAM L0043847          0.0      3.66      1.40      2.89
SRCPARAM L0043848          0.0      3.66      1.40      2.89
SRCPARAM L0043849          0.0      3.66      1.40      2.89
SRCPARAM L0043850          0.0      3.66      1.40      2.89
SRCPARAM L0043851          0.0      3.66      1.40      2.89
SRCPARAM L0043852          0.0      3.66      1.40      2.89
SRCPARAM L0043853          0.0      3.66      1.40      2.89
SRCPARAM L0043854          0.0      3.66      1.40      2.89
SRCPARAM L0043855          0.0      3.66      1.40      2.89
SRCPARAM L0043856          0.0      3.66      1.40      2.89
SRCPARAM L0043857          0.0      3.66      1.40      2.89
SRCPARAM L0043858          0.0      3.66      1.40      2.89
SRCPARAM L0043859          0.0      3.66      1.40      2.89
SRCPARAM L0043860          0.0      3.66      1.40      2.89
SRCPARAM L0043861          0.0      3.66      1.40      2.89
SRCPARAM L0043862          0.0      3.66      1.40      2.89
SRCPARAM L0043863          0.0      3.66      1.40      2.89
SRCPARAM L0043864          0.0      3.66      1.40      2.89
SRCPARAM L0043865          0.0      3.66      1.40      2.89
SRCPARAM L0043866          0.0      3.66      1.40      2.89
SRCPARAM L0043867          0.0      3.66      1.40      2.89
SRCPARAM L0043868          0.0      3.66      1.40      2.89
SRCPARAM L0043869          0.0      3.66      1.40      2.89
SRCPARAM L0043870          0.0      3.66      1.40      2.89
SRCPARAM L0043871          0.0      3.66      1.40      2.89
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   SRCPARAM L0043872          0.0      3.66      1.40      2.89
   SRCPARAM L0043873          0.0      3.66      1.40      2.89
   SRCPARAM L0043874          0.0      3.66      1.40      2.89
   SRCPARAM L0043875          0.0      3.66      1.40      2.89
   SRCPARAM L0043876          0.0      3.66      1.40      2.89
   SRCPARAM L0043877          0.0      3.66      1.40      2.89
   SRCPARAM L0043878          0.0      3.66      1.40      2.89
   SRCPARAM L0043879          0.0      3.66      1.40      2.89
   SRCPARAM L0043880          0.0      3.66      1.40      2.89
   SRCPARAM L0043881          0.0      3.66      1.40      2.89
   SRCPARAM L0043882          0.0      3.66      1.40      2.89
   SRCPARAM L0043883          0.0      3.66      1.40      2.89
   SRCPARAM L0043884          0.0      3.66      1.40      2.89
   SRCPARAM L0043885          0.0      3.66      1.40      2.89
   SRCPARAM L0043886          0.0      3.66      1.40      2.89
   SRCPARAM L0043887          0.0      3.66      1.40      2.89
   SRCPARAM L0043888          0.0      3.66      1.40      2.89
   SRCPARAM L0043889          0.0      3.66      1.40      2.89
   SRCPARAM L0043890          0.0      3.66      1.40      2.89
   SRCPARAM L0043891          0.0      3.66      1.40      2.89
   SRCPARAM L0043892          0.0      3.66      1.40      2.89
   SRCPARAM L0043893          0.0      3.66      1.40      2.89
   SRCPARAM L0043894          0.0      3.66      1.40      2.89
   SRCPARAM L0043895          0.0      3.66      1.40      2.89
   SRCPARAM L0043896          0.0      3.66      1.40      2.89
   SRCPARAM L0043897          0.0      3.66      1.40      2.89
   SRCPARAM L0043898          0.0      3.66      1.40      2.89
   SRCPARAM L0043899          0.0      3.66      1.40      2.89
   SRCPARAM L0043900          0.0      3.66      1.40      2.89
   SRCPARAM L0043901          0.0      3.66      1.40      2.89
   SRCPARAM L0043902          0.0      3.66      1.40      2.89
   SRCPARAM L0043903          0.0      3.66      1.40      2.89
   SRCPARAM L0043904          0.0      3.66      1.40      2.89
   SRCPARAM L0043905          0.0      3.66      1.40      2.89
   SRCPARAM L0043906          0.0      3.66      1.40      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE56
   SRCPARAM L0043907          0.0      3.66      1.40      2.89
   SRCPARAM L0043908          0.0      3.66      1.40      2.89
   SRCPARAM L0043909          0.0      3.66      1.40      2.89
   SRCPARAM L0043910          0.0      3.66      1.40      2.89
   SRCPARAM L0043911          0.0      3.66      1.40      2.89
   SRCPARAM L0043912          0.0      3.66      1.40      2.89
   SRCPARAM L0043913          0.0      3.66      1.40      2.89
   SRCPARAM L0043914          0.0      3.66      1.40      2.89
   SRCPARAM L0043915          0.0      3.66      1.40      2.89
   SRCPARAM L0043916          0.0      3.66      1.40      2.89
   SRCPARAM L0043917          0.0      3.66      1.40      2.89
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SRCPARAM L0043918          0.0      3.66      1.40      2.89
SRCPARAM L0043919          0.0      3.66      1.40      2.89
SRCPARAM L0043920          0.0      3.66      1.40      2.89
SRCPARAM L0043921          0.0      3.66      1.40      2.89
SRCPARAM L0043922          0.0      3.66      1.40      2.89
SRCPARAM L0043923          0.0      3.66      1.40      2.89
SRCPARAM L0043924          0.0      3.66      1.40      2.89
SRCPARAM L0043925          0.0      3.66      1.40      2.89
SRCPARAM L0043926          0.0      3.66      1.40      2.89
SRCPARAM L0043927          0.0      3.66      1.40      2.89
SRCPARAM L0043928          0.0      3.66      1.40      2.89
SRCPARAM L0043929          0.0      3.66      1.40      2.89
SRCPARAM L0043930          0.0      3.66      1.40      2.89
SRCPARAM L0043931          0.0      3.66      1.40      2.89
SRCPARAM L0043932          0.0      3.66      1.40      2.89
SRCPARAM L0043933          0.0      3.66      1.40      2.89
SRCPARAM L0043934          0.0      3.66      1.40      2.89
SRCPARAM L0043935          0.0      3.66      1.40      2.89
SRCPARAM L0043936          0.0      3.66      1.40      2.89
SRCPARAM L0043937          0.0      3.66      1.40      2.89
SRCPARAM L0043938          0.0      3.66      1.40      2.89
SRCPARAM L0043939          0.0      3.66      1.40      2.89
SRCPARAM L0043940          0.0      3.66      1.40      2.89
SRCPARAM L0043941          0.0      3.66      1.40      2.89
SRCPARAM L0043942          0.0      3.66      1.40      2.89
SRCPARAM L0043943          0.0      3.66      1.40      2.89
SRCPARAM L0043944          0.0      3.66      1.40      2.89
SRCPARAM L0043945          0.0      3.66      1.40      2.89
SRCPARAM L0043946          0.0      3.66      1.40      2.89
SRCPARAM L0043947          0.0      3.66      1.40      2.89
SRCPARAM L0043948          0.0      3.66      1.40      2.89
SRCPARAM L0043949          0.0      3.66      1.40      2.89
SRCPARAM L0043950          0.0      3.66      1.40      2.89
SRCPARAM L0043951          0.0      3.66      1.40      2.89
SRCPARAM L0043952          0.0      3.66      1.40      2.89
SRCPARAM L0043953          0.0      3.66      1.40      2.89
SRCPARAM L0043954          0.0      3.66      1.40      2.89
SRCPARAM L0043955          0.0      3.66      1.40      2.89
SRCPARAM L0043956          0.0      3.66      1.40      2.89
SRCPARAM L0043957          0.0      3.66      1.40      2.89
SRCPARAM L0043958          0.0      3.66      1.40      2.89
SRCPARAM L0043959          0.0      3.66      1.40      2.89
SRCPARAM L0043960          0.0      3.66      1.40      2.89
SRCPARAM L0043961          0.0      3.66      1.40      2.89
SRCPARAM L0043962          0.0      3.66      1.40      2.89
SRCPARAM L0043963          0.0      3.66      1.40      2.89
SRCPARAM L0043964          0.0      3.66      1.40      2.89
SRCPARAM L0043965          0.0      3.66      1.40      2.89
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   SRCPARAM L0043966          0.0      3.66      1.40      2.89
   SRCPARAM L0043967          0.0      3.66      1.40      2.89
   SRCPARAM L0043968          0.0      3.66      1.40      2.89
   SRCPARAM L0043969          0.0      3.66      1.40      2.89
   SRCPARAM L0043970          0.0      3.66      1.40      2.89
   SRCPARAM L0043971          0.0      3.66      1.40      2.89
   SRCPARAM L0043972          0.0      3.66      1.40      2.89
   SRCPARAM L0043973          0.0      3.66      1.40      2.89
   SRCPARAM L0043974          0.0      3.66      1.40      2.89
   SRCPARAM L0043975          0.0      3.66      1.40      2.89
   SRCPARAM L0043976          0.0      3.66      1.40      2.89
   SRCPARAM L0043977          0.0      3.66      1.40      2.89
   SRCPARAM L0043978          0.0      3.66      1.40      2.89
   SRCPARAM L0043979          0.0      3.66      1.40      2.89
   SRCPARAM L0043980          0.0      3.66      1.40      2.89
   SRCPARAM L0043981          0.0      3.66      1.40      2.89
   SRCPARAM L0043982          0.0      3.66      1.40      2.89
   SRCPARAM L0043983          0.0      3.66      1.40      2.89
   SRCPARAM L0043984          0.0      3.66      1.40      2.89
   SRCPARAM L0043985          0.0      3.66      1.40      2.89
   SRCPARAM L0043986          0.0      3.66      1.40      2.89
   SRCPARAM L0043987          0.0      3.66      1.40      2.89
   SRCPARAM L0043988          0.0      3.66      1.40      2.89
   SRCPARAM L0043989          0.0      3.66      1.40      2.89
   SRCPARAM L0043990          0.0      3.66      1.40      2.89
   SRCPARAM L0043991          0.0      3.66      1.40      2.89
   SRCPARAM L0043992          0.0      3.66      1.40      2.89
   SRCPARAM L0043993          0.0      3.66      1.40      2.89
   SRCPARAM L0043994          0.0      3.66      1.40      2.89
   SRCPARAM L0043995          0.0      3.66      1.40      2.89
   SRCPARAM L0043996          0.0      3.66      1.40      2.89
   SRCPARAM L0043997          0.0      3.66      1.40      2.89
   SRCPARAM L0043998          0.0      3.66      1.40      2.89
   SRCPARAM L0043999          0.0      3.66      1.40      2.89
   SRCPARAM L0044000          0.0      3.66      1.40      2.89
   SRCPARAM L0044001          0.0      3.66      1.40      2.89
   SRCPARAM L0044002          0.0      3.66      1.40      2.89
   SRCPARAM L0044003          0.0      3.66      1.40      2.89
   SRCPARAM L0044004          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE57
   SRCPARAM L0044005          0.0      3.66      1.40      2.89
   SRCPARAM L0044006          0.0      3.66      1.40      2.89
   SRCPARAM L0044007          0.0      3.66      1.40      2.89
   SRCPARAM L0044008          0.0      3.66      1.40      2.89
   SRCPARAM L0044009          0.0      3.66      1.40      2.89
   SRCPARAM L0044010          0.0      3.66      1.40      2.89
   SRCPARAM L0044011          0.0      3.66      1.40      2.89
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SRCPARAM L0044012          0.0      3.66      1.40      2.89
SRCPARAM L0044013          0.0      3.66      1.40      2.89
SRCPARAM L0044014          0.0      3.66      1.40      2.89
SRCPARAM L0044015          0.0      3.66      1.40      2.89
SRCPARAM L0044016          0.0      3.66      1.40      2.89
SRCPARAM L0044017          0.0      3.66      1.40      2.89
SRCPARAM L0044018          0.0      3.66      1.40      2.89
SRCPARAM L0044019          0.0      3.66      1.40      2.89
SRCPARAM L0044020          0.0      3.66      1.40      2.89
SRCPARAM L0044021          0.0      3.66      1.40      2.89
SRCPARAM L0044022          0.0      3.66      1.40      2.89
SRCPARAM L0044023          0.0      3.66      1.40      2.89
SRCPARAM L0044024          0.0      3.66      1.40      2.89
SRCPARAM L0044025          0.0      3.66      1.40      2.89
SRCPARAM L0044026          0.0      3.66      1.40      2.89
SRCPARAM L0044027          0.0      3.66      1.40      2.89
SRCPARAM L0044028          0.0      3.66      1.40      2.89
SRCPARAM L0044029          0.0      3.66      1.40      2.89
SRCPARAM L0044030          0.0      3.66      1.40      2.89
SRCPARAM L0044031          0.0      3.66      1.40      2.89
SRCPARAM L0044032          0.0      3.66      1.40      2.89
SRCPARAM L0044033          0.0      3.66      1.40      2.89
SRCPARAM L0044034          0.0      3.66      1.40      2.89
SRCPARAM L0044035          0.0      3.66      1.40      2.89
SRCPARAM L0044036          0.0      3.66      1.40      2.89
SRCPARAM L0044037          0.0      3.66      1.40      2.89
SRCPARAM L0044038          0.0      3.66      1.40      2.89
SRCPARAM L0044039          0.0      3.66      1.40      2.89
SRCPARAM L0044040          0.0      3.66      1.40      2.89
SRCPARAM L0044041          0.0      3.66      1.40      2.89
SRCPARAM L0044042          0.0      3.66      1.40      2.89
SRCPARAM L0044043          0.0      3.66      1.40      2.89
SRCPARAM L0044044          0.0      3.66      1.40      2.89
SRCPARAM L0044045          0.0      3.66      1.40      2.89
SRCPARAM L0044046          0.0      3.66      1.40      2.89
SRCPARAM L0044047          0.0      3.66      1.40      2.89
SRCPARAM L0044048          0.0      3.66      1.40      2.89
SRCPARAM L0044049          0.0      3.66      1.40      2.89
SRCPARAM L0044050          0.0      3.66      1.40      2.89
SRCPARAM L0044051          0.0      3.66      1.40      2.89
SRCPARAM L0044052          0.0      3.66      1.40      2.89
SRCPARAM L0044053          0.0      3.66      1.40      2.89
SRCPARAM L0044054          0.0      3.66      1.40      2.89
SRCPARAM L0044055          0.0      3.66      1.40      2.89
SRCPARAM L0044056          0.0      3.66      1.40      2.89
SRCPARAM L0044057          0.0      3.66      1.40      2.89
SRCPARAM L0044058          0.0      3.66      1.40      2.89
SRCPARAM L0044059          0.0      3.66      1.40      2.89
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SRCPARAM L0044060          0.0      3.66      1.40      2.89
SRCPARAM L0044061          0.0      3.66      1.40      2.89
SRCPARAM L0044062          0.0      3.66      1.40      2.89
SRCPARAM L0044063          0.0      3.66      1.40      2.89
SRCPARAM L0044064          0.0      3.66      1.40      2.89
SRCPARAM L0044065          0.0      3.66      1.40      2.89
SRCPARAM L0044066          0.0      3.66      1.40      2.89
SRCPARAM L0044067          0.0      3.66      1.40      2.89
SRCPARAM L0044068          0.0      3.66      1.40      2.89
SRCPARAM L0044069          0.0      3.66      1.40      2.89
SRCPARAM L0044070          0.0      3.66      1.40      2.89
SRCPARAM L0044071          0.0      3.66      1.40      2.89
SRCPARAM L0044072          0.0      3.66      1.40      2.89
SRCPARAM L0044073          0.0      3.66      1.40      2.89
SRCPARAM L0044074          0.0      3.66      1.40      2.89
SRCPARAM L0044075          0.0      3.66      1.40      2.89
SRCPARAM L0044076          0.0      3.66      1.40      2.89
SRCPARAM L0044077          0.0      3.66      1.40      2.89
SRCPARAM L0044078          0.0      3.66      1.40      2.89
SRCPARAM L0044079          0.0      3.66      1.40      2.89
SRCPARAM L0044080          0.0      3.66      1.40      2.89
SRCPARAM L0044081          0.0      3.66      1.40      2.89
SRCPARAM L0044082          0.0      3.66      1.40      2.89
SRCPARAM L0044083          0.0      3.66      1.40      2.89
SRCPARAM L0044084          0.0      3.66      1.40      2.89
SRCPARAM L0044085          0.0      3.66      1.40      2.89
SRCPARAM L0044086          0.0      3.66      1.40      2.89
SRCPARAM L0044087          0.0      3.66      1.40      2.89
SRCPARAM L0044088          0.0      3.66      1.40      2.89
SRCPARAM L0044089          0.0      3.66      1.40      2.89
SRCPARAM L0044090          0.0      3.66      1.40      2.89
SRCPARAM L0044091          0.0      3.66      1.40      2.89
SRCPARAM L0044092          0.0      3.66      1.40      2.89
SRCPARAM L0044093          0.0      3.66      1.40      2.89
SRCPARAM L0044094          0.0      3.66      1.40      2.89
SRCPARAM L0044095          0.0      3.66      1.40      2.89
SRCPARAM L0044096          0.0      3.66      1.40      2.89
SRCPARAM L0044097          0.0      3.66      1.40      2.89
SRCPARAM L0044098          0.0      3.66      1.40      2.89
SRCPARAM L0044099          0.0      3.66      1.40      2.89
SRCPARAM L0044100          0.0      3.66      1.40      2.89
SRCPARAM L0044101          0.0      3.66      1.40      2.89
SRCPARAM L0044102          0.0      3.66      1.40      2.89
SRCPARAM L0044103          0.0      3.66      1.40      2.89
SRCPARAM L0044104          0.0      3.66      1.40      2.89
SRCPARAM L0044105          0.0      3.66      1.40      2.89
SRCPARAM L0044106          0.0      3.66      1.40      2.89
SRCPARAM L0044107          0.0      3.66      1.40      2.89
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SRCPARAM L0044108          0.0      3.66      1.40      2.89
SRCPARAM L0044109          0.0      3.66      1.40      2.89
SRCPARAM L0044110          0.0      3.66      1.40      2.89
SRCPARAM L0044111          0.0      3.66      1.40      2.89
SRCPARAM L0044112          0.0      3.66      1.40      2.89
SRCPARAM L0044113          0.0      3.66      1.40      2.89
SRCPARAM L0044114          0.0      3.66      1.40      2.89
SRCPARAM L0044115          0.0      3.66      1.40      2.89
SRCPARAM L0044116          0.0      3.66      1.40      2.89
SRCPARAM L0044117          0.0      3.66      1.40      2.89
SRCPARAM L0044118          0.0      3.66      1.40      2.89
SRCPARAM L0044119          0.0      3.66      1.40      2.89
SRCPARAM L0044120          0.0      3.66      1.40      2.89
SRCPARAM L0044121          0.0      3.66      1.40      2.89
SRCPARAM L0044122          0.0      3.66      1.40      2.89
SRCPARAM L0044123          0.0      3.66      1.40      2.89
SRCPARAM L0044124          0.0      3.66      1.40      2.89
SRCPARAM L0044125          0.0      3.66      1.40      2.89
SRCPARAM L0044126          0.0      3.66      1.40      2.89
SRCPARAM L0044127          0.0      3.66      1.40      2.89
SRCPARAM L0044128          0.0      3.66      1.40      2.89
SRCPARAM L0044129          0.0      3.66      1.40      2.89
SRCPARAM L0044130          0.0      3.66      1.40      2.89
SRCPARAM L0044131          0.0      3.66      1.40      2.89
SRCPARAM L0044132          0.0      3.66      1.40      2.89
SRCPARAM L0044133          0.0      3.66      1.40      2.89
SRCPARAM L0044134          0.0      3.66      1.40      2.89
SRCPARAM L0044135          0.0      3.66      1.40      2.89
SRCPARAM L0044136          0.0      3.66      1.40      2.89
SRCPARAM L0044137          0.0      3.66      1.40      2.89
SRCPARAM L0044138          0.0      3.66      1.40      2.89
SRCPARAM L0044139          0.0      3.66      1.40      2.89
SRCPARAM L0044140          0.0      3.66      1.40      2.89
SRCPARAM L0044141          0.0      3.66      1.40      2.89
SRCPARAM L0044142          0.0      3.66      1.40      2.89
SRCPARAM L0044143          0.0      3.66      1.40      2.89
SRCPARAM L0044144          0.0      3.66      1.40      2.89
SRCPARAM L0044145          0.0      3.66      1.40      2.89
SRCPARAM L0044146          0.0      3.66      1.40      2.89
SRCPARAM L0044147          0.0      3.66      1.40      2.89
SRCPARAM L0044148          0.0      3.66      1.40      2.89
SRCPARAM L0044149          0.0      3.66      1.40      2.89
SRCPARAM L0044150          0.0      3.66      1.40      2.89
SRCPARAM L0044151          0.0      3.66      1.40      2.89
SRCPARAM L0044152          0.0      3.66      1.40      2.89
SRCPARAM L0044153          0.0      3.66      1.40      2.89
SRCPARAM L0044154          0.0      3.66      1.40      2.89
SRCPARAM L0044155          0.0      3.66      1.40      2.89
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   SRCPARAM L0044156          0.0      3.66      1.40      2.89
   SRCPARAM L0044157          0.0      3.66      1.40      2.89
   SRCPARAM L0044158          0.0      3.66      1.40      2.89
   SRCPARAM L0044159          0.0      3.66      1.40      2.89
   SRCPARAM L0044160          0.0      3.66      1.40      2.89
   SRCPARAM L0044161          0.0      3.66      1.40      2.89
   SRCPARAM L0044162          0.0      3.66      1.40      2.89
   SRCPARAM L0044163          0.0      3.66      1.40      2.89
   SRCPARAM L0044164          0.0      3.66      1.40      2.89
   SRCPARAM L0044165          0.0      3.66      1.40      2.89
   SRCPARAM L0044166          0.0      3.66      1.40      2.89
   SRCPARAM L0044167          0.0      3.66      1.40      2.89
   SRCPARAM L0044168          0.0      3.66      1.40      2.89
   SRCPARAM L0044169          0.0      3.66      1.40      2.89
   SRCPARAM L0044170          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE58
   SRCPARAM L0044171          0.0      3.66      1.40      2.89
   SRCPARAM L0044172          0.0      3.66      1.40      2.89
   SRCPARAM L0044173          0.0      3.66      1.40      2.89
   SRCPARAM L0044174          0.0      3.66      1.40      2.89
   SRCPARAM L0044175          0.0      3.66      1.40      2.89
   SRCPARAM L0044176          0.0      3.66      1.40      2.89
   SRCPARAM L0044177          0.0      3.66      1.40      2.89
   SRCPARAM L0044178          0.0      3.66      1.40      2.89
   SRCPARAM L0044179          0.0      3.66      1.40      2.89
   SRCPARAM L0044180          0.0      3.66      1.40      2.89
   SRCPARAM L0044181          0.0      3.66      1.40      2.89
   SRCPARAM L0044182          0.0      3.66      1.40      2.89
   SRCPARAM L0044183          0.0      3.66      1.40      2.89
   SRCPARAM L0044184          0.0      3.66      1.40      2.89
   SRCPARAM L0044185          0.0      3.66      1.40      2.89
   SRCPARAM L0044186          0.0      3.66      1.40      2.89
   SRCPARAM L0044187          0.0      3.66      1.40      2.89
   SRCPARAM L0044188          0.0      3.66      1.40      2.89
   SRCPARAM L0044189          0.0      3.66      1.40      2.89
   SRCPARAM L0044190          0.0      3.66      1.40      2.89
   SRCPARAM L0044191          0.0      3.66      1.40      2.89
   SRCPARAM L0044192          0.0      3.66      1.40      2.89
   SRCPARAM L0044193          0.0      3.66      1.40      2.89
   SRCPARAM L0044194          0.0      3.66      1.40      2.89
   SRCPARAM L0044195          0.0      3.66      1.40      2.89
   SRCPARAM L0044196          0.0      3.66      1.40      2.89
   SRCPARAM L0044197          0.0      3.66      1.40      2.89
   SRCPARAM L0044198          0.0      3.66      1.40      2.89
   SRCPARAM L0044199          0.0      3.66      1.40      2.89
   SRCPARAM L0044200          0.0      3.66      1.40      2.89
   SRCPARAM L0044201          0.0      3.66      1.40      2.89
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SRCPARAM L0044202          0.0      3.66      1.40      2.89
SRCPARAM L0044203          0.0      3.66      1.40      2.89
SRCPARAM L0044204          0.0      3.66      1.40      2.89
SRCPARAM L0044205          0.0      3.66      1.40      2.89
SRCPARAM L0044206          0.0      3.66      1.40      2.89
SRCPARAM L0044207          0.0      3.66      1.40      2.89
SRCPARAM L0044208          0.0      3.66      1.40      2.89
SRCPARAM L0044209          0.0      3.66      1.40      2.89
SRCPARAM L0044210          0.0      3.66      1.40      2.89
SRCPARAM L0044211          0.0      3.66      1.40      2.89
SRCPARAM L0044212          0.0      3.66      1.40      2.89
SRCPARAM L0044213          0.0      3.66      1.40      2.89
SRCPARAM L0044214          0.0      3.66      1.40      2.89
SRCPARAM L0044215          0.0      3.66      1.40      2.89
SRCPARAM L0044216          0.0      3.66      1.40      2.89
SRCPARAM L0044217          0.0      3.66      1.40      2.89
SRCPARAM L0044218          0.0      3.66      1.40      2.89
SRCPARAM L0044219          0.0      3.66      1.40      2.89
SRCPARAM L0044220          0.0      3.66      1.40      2.89
SRCPARAM L0044221          0.0      3.66      1.40      2.89
SRCPARAM L0044222          0.0      3.66      1.40      2.89
SRCPARAM L0044223          0.0      3.66      1.40      2.89
SRCPARAM L0044224          0.0      3.66      1.40      2.89
SRCPARAM L0044225          0.0      3.66      1.40      2.89
SRCPARAM L0044226          0.0      3.66      1.40      2.89
SRCPARAM L0044227          0.0      3.66      1.40      2.89
SRCPARAM L0044228          0.0      3.66      1.40      2.89
SRCPARAM L0044229          0.0      3.66      1.40      2.89
SRCPARAM L0044230          0.0      3.66      1.40      2.89
SRCPARAM L0044231          0.0      3.66      1.40      2.89
SRCPARAM L0044232          0.0      3.66      1.40      2.89
SRCPARAM L0044233          0.0      3.66      1.40      2.89
SRCPARAM L0044234          0.0      3.66      1.40      2.89
SRCPARAM L0044235          0.0      3.66      1.40      2.89
SRCPARAM L0044236          0.0      3.66      1.40      2.89
SRCPARAM L0044237          0.0      3.66      1.40      2.89
SRCPARAM L0044238          0.0      3.66      1.40      2.89
SRCPARAM L0044239          0.0      3.66      1.40      2.89
SRCPARAM L0044240          0.0      3.66      1.40      2.89
SRCPARAM L0044241          0.0      3.66      1.40      2.89
SRCPARAM L0044242          0.0      3.66      1.40      2.89
SRCPARAM L0044243          0.0      3.66      1.40      2.89
SRCPARAM L0044244          0.0      3.66      1.40      2.89
SRCPARAM L0044245          0.0      3.66      1.40      2.89
SRCPARAM L0044246          0.0      3.66      1.40      2.89
SRCPARAM L0044247          0.0      3.66      1.40      2.89
SRCPARAM L0044248          0.0      3.66      1.40      2.89
SRCPARAM L0044249          0.0      3.66      1.40      2.89
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SRCPARAM L0044250          0.0      3.66      1.40      2.89
SRCPARAM L0044251          0.0      3.66      1.40      2.89
SRCPARAM L0044252          0.0      3.66      1.40      2.89
SRCPARAM L0044253          0.0      3.66      1.40      2.89
SRCPARAM L0044254          0.0      3.66      1.40      2.89
SRCPARAM L0044255          0.0      3.66      1.40      2.89
SRCPARAM L0044256          0.0      3.66      1.40      2.89
SRCPARAM L0044257          0.0      3.66      1.40      2.89
SRCPARAM L0044258          0.0      3.66      1.40      2.89
SRCPARAM L0044259          0.0      3.66      1.40      2.89
SRCPARAM L0044260          0.0      3.66      1.40      2.89
SRCPARAM L0044261          0.0      3.66      1.40      2.89
SRCPARAM L0044262          0.0      3.66      1.40      2.89
SRCPARAM L0044263          0.0      3.66      1.40      2.89
SRCPARAM L0044264          0.0      3.66      1.40      2.89
SRCPARAM L0044265          0.0      3.66      1.40      2.89
SRCPARAM L0044266          0.0      3.66      1.40      2.89
SRCPARAM L0044267          0.0      3.66      1.40      2.89
SRCPARAM L0044268          0.0      3.66      1.40      2.89
SRCPARAM L0044269          0.0      3.66      1.40      2.89
SRCPARAM L0044270          0.0      3.66      1.40      2.89
SRCPARAM L0044271          0.0      3.66      1.40      2.89
SRCPARAM L0044272          0.0      3.66      1.40      2.89
SRCPARAM L0044273          0.0      3.66      1.40      2.89
SRCPARAM L0044274          0.0      3.66      1.40      2.89
SRCPARAM L0044275          0.0      3.66      1.40      2.89
SRCPARAM L0044276          0.0      3.66      1.40      2.89
SRCPARAM L0044277          0.0      3.66      1.40      2.89
SRCPARAM L0044278          0.0      3.66      1.40      2.89
SRCPARAM L0044279          0.0      3.66      1.40      2.89
SRCPARAM L0044280          0.0      3.66      1.40      2.89
SRCPARAM L0044281          0.0      3.66      1.40      2.89
SRCPARAM L0044282          0.0      3.66      1.40      2.89
SRCPARAM L0044283          0.0      3.66      1.40      2.89
SRCPARAM L0044284          0.0      3.66      1.40      2.89
SRCPARAM L0044285          0.0      3.66      1.40      2.89
SRCPARAM L0044286          0.0      3.66      1.40      2.89
SRCPARAM L0044287          0.0      3.66      1.40      2.89
SRCPARAM L0044288          0.0      3.66      1.40      2.89
SRCPARAM L0044289          0.0      3.66      1.40      2.89
SRCPARAM L0044290          0.0      3.66      1.40      2.89
SRCPARAM L0044291          0.0      3.66      1.40      2.89
SRCPARAM L0044292          0.0      3.66      1.40      2.89
SRCPARAM L0044293          0.0      3.66      1.40      2.89
SRCPARAM L0044294          0.0      3.66      1.40      2.89
SRCPARAM L0044295          0.0      3.66      1.40      2.89
SRCPARAM L0044296          0.0      3.66      1.40      2.89
SRCPARAM L0044297          0.0      3.66      1.40      2.89
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   SRCPARAM L0044298          0.0      3.66      1.40      2.89
   SRCPARAM L0044299          0.0      3.66      1.40      2.89
   SRCPARAM L0044300          0.0      3.66      1.40      2.89
   SRCPARAM L0044301          0.0      3.66      1.40      2.89
   SRCPARAM L0044302          0.0      3.66      1.40      2.89
   SRCPARAM L0044303          0.0      3.66      1.40      2.89
   SRCPARAM L0044304          0.0      3.66      1.40      2.89
   SRCPARAM L0044305          0.0      3.66      1.40      2.89
   SRCPARAM L0044306          0.0      3.66      1.40      2.89
   SRCPARAM L0044307          0.0      3.66      1.40      2.89
   SRCPARAM L0044308          0.0      3.66      1.40      2.89
   SRCPARAM L0044309          0.0      3.66      1.40      2.89
   SRCPARAM L0044310          0.0      3.66      1.40      2.89
   SRCPARAM L0044311          0.0      3.66      1.40      2.89
   SRCPARAM L0044312          0.0      3.66      1.40      2.89
   SRCPARAM L0044313          0.0      3.66      1.40      2.89
   SRCPARAM L0044314          0.0      3.66      1.40      2.89
   SRCPARAM L0044315          0.0      3.66      1.40      2.89
   SRCPARAM L0044316          0.0      3.66      1.40      2.89
   SRCPARAM L0044317          0.0      3.66      1.40      2.89
   SRCPARAM L0044318          0.0      3.66      1.40      2.89
   SRCPARAM L0044319          0.0      3.66      1.40      2.89
   SRCPARAM L0044320          0.0      3.66      1.40      2.89
   SRCPARAM L0044321          0.0      3.66      1.40      2.89
   SRCPARAM L0044322          0.0      3.66      1.40      2.89
   SRCPARAM L0044323          0.0      3.66      1.40      2.89
   SRCPARAM L0044324          0.0      3.66      1.40      2.89
   SRCPARAM L0044325          0.0      3.66      1.40      2.89
   SRCPARAM L0044326          0.0      3.66      1.40      2.89
   SRCPARAM L0044327          0.0      3.66      1.40      2.89
   SRCPARAM L0044328          0.0      3.66      1.40      2.89
   SRCPARAM L0044329          0.0      3.66      1.40      2.89
   SRCPARAM L0044330          0.0      3.66      1.40      2.89
   SRCPARAM L0044331          0.0      3.66      1.40      2.89
   SRCPARAM L0044332          0.0      3.66      1.40      2.89
   SRCPARAM L0044333          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE59
   SRCPARAM L0044334          0.0      3.66      1.40      2.89
   SRCPARAM L0044335          0.0      3.66      1.40      2.89
   SRCPARAM L0044336          0.0      3.66      1.40      2.89
   SRCPARAM L0044337          0.0      3.66      1.40      2.89
   SRCPARAM L0044338          0.0      3.66      1.40      2.89
   SRCPARAM L0044339          0.0      3.66      1.40      2.89
   SRCPARAM L0044340          0.0      3.66      1.40      2.89
   SRCPARAM L0044341          0.0      3.66      1.40      2.89
   SRCPARAM L0044342          0.0      3.66      1.40      2.89
   SRCPARAM L0044343          0.0      3.66      1.40      2.89
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SRCPARAM L0044344          0.0      3.66      1.40      2.89
SRCPARAM L0044345          0.0      3.66      1.40      2.89
SRCPARAM L0044346          0.0      3.66      1.40      2.89
SRCPARAM L0044347          0.0      3.66      1.40      2.89
SRCPARAM L0044348          0.0      3.66      1.40      2.89
SRCPARAM L0044349          0.0      3.66      1.40      2.89
SRCPARAM L0044350          0.0      3.66      1.40      2.89
SRCPARAM L0044351          0.0      3.66      1.40      2.89
SRCPARAM L0044352          0.0      3.66      1.40      2.89
SRCPARAM L0044353          0.0      3.66      1.40      2.89
SRCPARAM L0044354          0.0      3.66      1.40      2.89
SRCPARAM L0044355          0.0      3.66      1.40      2.89
SRCPARAM L0044356          0.0      3.66      1.40      2.89
SRCPARAM L0044357          0.0      3.66      1.40      2.89
SRCPARAM L0044358          0.0      3.66      1.40      2.89
SRCPARAM L0044359          0.0      3.66      1.40      2.89
SRCPARAM L0044360          0.0      3.66      1.40      2.89
SRCPARAM L0044361          0.0      3.66      1.40      2.89
SRCPARAM L0044362          0.0      3.66      1.40      2.89
SRCPARAM L0044363          0.0      3.66      1.40      2.89
SRCPARAM L0044364          0.0      3.66      1.40      2.89
SRCPARAM L0044365          0.0      3.66      1.40      2.89
SRCPARAM L0044366          0.0      3.66      1.40      2.89
SRCPARAM L0044367          0.0      3.66      1.40      2.89
SRCPARAM L0044368          0.0      3.66      1.40      2.89
SRCPARAM L0044369          0.0      3.66      1.40      2.89
SRCPARAM L0044370          0.0      3.66      1.40      2.89
SRCPARAM L0044371          0.0      3.66      1.40      2.89
SRCPARAM L0044372          0.0      3.66      1.40      2.89
SRCPARAM L0044373          0.0      3.66      1.40      2.89
SRCPARAM L0044374          0.0      3.66      1.40      2.89
SRCPARAM L0044375          0.0      3.66      1.40      2.89
SRCPARAM L0044376          0.0      3.66      1.40      2.89
SRCPARAM L0044377          0.0      3.66      1.40      2.89
SRCPARAM L0044378          0.0      3.66      1.40      2.89
SRCPARAM L0044379          0.0      3.66      1.40      2.89
SRCPARAM L0044380          0.0      3.66      1.40      2.89
SRCPARAM L0044381          0.0      3.66      1.40      2.89
SRCPARAM L0044382          0.0      3.66      1.40      2.89
SRCPARAM L0044383          0.0      3.66      1.40      2.89
SRCPARAM L0044384          0.0      3.66      1.40      2.89
SRCPARAM L0044385          0.0      3.66      1.40      2.89
SRCPARAM L0044386          0.0      3.66      1.40      2.89
SRCPARAM L0044387          0.0      3.66      1.40      2.89
SRCPARAM L0044388          0.0      3.66      1.40      2.89
SRCPARAM L0044389          0.0      3.66      1.40      2.89
SRCPARAM L0044390          0.0      3.66      1.40      2.89
SRCPARAM L0044391          0.0      3.66      1.40      2.89
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   SRCPARAM L0044392          0.0      3.66      1.40      2.89
   SRCPARAM L0044393          0.0      3.66      1.40      2.89
   SRCPARAM L0044394          0.0      3.66      1.40      2.89
   SRCPARAM L0044395          0.0      3.66      1.40      2.89
   SRCPARAM L0044396          0.0      3.66      1.40      2.89
   SRCPARAM L0044397          0.0      3.66      1.40      2.89
   SRCPARAM L0044398          0.0      3.66      1.40      2.89
   SRCPARAM L0044399          0.0      3.66      1.40      2.89
   SRCPARAM L0044400          0.0      3.66      1.40      2.89
   SRCPARAM L0044401          0.0      3.66      1.40      2.89
   SRCPARAM L0044402          0.0      3.66      1.40      2.89
   SRCPARAM L0044403          0.0      3.66      1.40      2.89
   SRCPARAM L0044404          0.0      3.66      1.40      2.89
   SRCPARAM L0044405          0.0      3.66      1.40      2.89
   SRCPARAM L0044406          0.0      3.66      1.40      2.89
   SRCPARAM L0044407          0.0      3.66      1.40      2.89
   SRCPARAM L0044408          0.0      3.66      1.40      2.89
   SRCPARAM L0044409          0.0      3.66      1.40      2.89
   SRCPARAM L0044410          0.0      3.66      1.40      2.89
   SRCPARAM L0044411          0.0      3.66      1.40      2.89
   SRCPARAM L0044412          0.0      3.66      1.40      2.89
   SRCPARAM L0044413          0.0      3.66      1.40      2.89
   SRCPARAM L0044414          0.0      3.66      1.40      2.89
   SRCPARAM L0044415          0.0      3.66      1.40      2.89
   SRCPARAM L0044416          0.0      3.66      1.40      2.89
   SRCPARAM L0044417          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE60
   SRCPARAM L0044418          0.0      3.66      1.40      2.89
   SRCPARAM L0044419          0.0      3.66      1.40      2.89
   SRCPARAM L0044420          0.0      3.66      1.40      2.89
   SRCPARAM L0044421          0.0      3.66      1.40      2.89
   SRCPARAM L0044422          0.0      3.66      1.40      2.89
   SRCPARAM L0044423          0.0      3.66      1.40      2.89
   SRCPARAM L0044424          0.0      3.66      1.40      2.89
   SRCPARAM L0044425          0.0      3.66      1.40      2.89
   SRCPARAM L0044426          0.0      3.66      1.40      2.89
   SRCPARAM L0044427          0.0      3.66      1.40      2.89
   SRCPARAM L0044428          0.0      3.66      1.40      2.89
   SRCPARAM L0044429          0.0      3.66      1.40      2.89
   SRCPARAM L0044430          0.0      3.66      1.40      2.89
   SRCPARAM L0044431          0.0      3.66      1.40      2.89
   SRCPARAM L0044432          0.0      3.66      1.40      2.89
   SRCPARAM L0044433          0.0      3.66      1.40      2.89
   SRCPARAM L0044434          0.0      3.66      1.40      2.89
   SRCPARAM L0044435          0.0      3.66      1.40      2.89
   SRCPARAM L0044436          0.0      3.66      1.40      2.89
   SRCPARAM L0044437          0.0      3.66      1.40      2.89
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SRCPARAM L0044438          0.0      3.66      1.40      2.89
SRCPARAM L0044439          0.0      3.66      1.40      2.89
SRCPARAM L0044440          0.0      3.66      1.40      2.89
SRCPARAM L0044441          0.0      3.66      1.40      2.89
SRCPARAM L0044442          0.0      3.66      1.40      2.89
SRCPARAM L0044443          0.0      3.66      1.40      2.89
SRCPARAM L0044444          0.0      3.66      1.40      2.89
SRCPARAM L0044445          0.0      3.66      1.40      2.89
SRCPARAM L0044446          0.0      3.66      1.40      2.89
SRCPARAM L0044447          0.0      3.66      1.40      2.89
SRCPARAM L0044448          0.0      3.66      1.40      2.89
SRCPARAM L0044449          0.0      3.66      1.40      2.89
SRCPARAM L0044450          0.0      3.66      1.40      2.89
SRCPARAM L0044451          0.0      3.66      1.40      2.89
SRCPARAM L0044452          0.0      3.66      1.40      2.89
SRCPARAM L0044453          0.0      3.66      1.40      2.89
SRCPARAM L0044454          0.0      3.66      1.40      2.89
SRCPARAM L0044455          0.0      3.66      1.40      2.89
SRCPARAM L0044456          0.0      3.66      1.40      2.89
SRCPARAM L0044457          0.0      3.66      1.40      2.89
SRCPARAM L0044458          0.0      3.66      1.40      2.89
SRCPARAM L0044459          0.0      3.66      1.40      2.89
SRCPARAM L0044460          0.0      3.66      1.40      2.89
SRCPARAM L0044461          0.0      3.66      1.40      2.89
SRCPARAM L0044462          0.0      3.66      1.40      2.89
SRCPARAM L0044463          0.0      3.66      1.40      2.89
SRCPARAM L0044464          0.0      3.66      1.40      2.89
SRCPARAM L0044465          0.0      3.66      1.40      2.89
SRCPARAM L0044466          0.0      3.66      1.40      2.89
SRCPARAM L0044467          0.0      3.66      1.40      2.89
SRCPARAM L0044468          0.0      3.66      1.40      2.89
SRCPARAM L0044469          0.0      3.66      1.40      2.89
SRCPARAM L0044470          0.0      3.66      1.40      2.89
SRCPARAM L0044471          0.0      3.66      1.40      2.89
SRCPARAM L0044472          0.0      3.66      1.40      2.89
SRCPARAM L0044473          0.0      3.66      1.40      2.89
SRCPARAM L0044474          0.0      3.66      1.40      2.89
SRCPARAM L0044475          0.0      3.66      1.40      2.89
SRCPARAM L0044476          0.0      3.66      1.40      2.89
SRCPARAM L0044477          0.0      3.66      1.40      2.89
SRCPARAM L0044478          0.0      3.66      1.40      2.89
SRCPARAM L0044479          0.0      3.66      1.40      2.89
SRCPARAM L0044480          0.0      3.66      1.40      2.89
SRCPARAM L0044481          0.0      3.66      1.40      2.89
SRCPARAM L0044482          0.0      3.66      1.40      2.89
SRCPARAM L0044483          0.0      3.66      1.40      2.89
SRCPARAM L0044484          0.0      3.66      1.40      2.89
SRCPARAM L0044485          0.0      3.66      1.40      2.89
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SRCPARAM L0044486          0.0      3.66      1.40      2.89
SRCPARAM L0044487          0.0      3.66      1.40      2.89
SRCPARAM L0044488          0.0      3.66      1.40      2.89
SRCPARAM L0044489          0.0      3.66      1.40      2.89
SRCPARAM L0044490          0.0      3.66      1.40      2.89
SRCPARAM L0044491          0.0      3.66      1.40      2.89
SRCPARAM L0044492          0.0      3.66      1.40      2.89
SRCPARAM L0044493          0.0      3.66      1.40      2.89
SRCPARAM L0044494          0.0      3.66      1.40      2.89
SRCPARAM L0044495          0.0      3.66      1.40      2.89
SRCPARAM L0044496          0.0      3.66      1.40      2.89
SRCPARAM L0044497          0.0      3.66      1.40      2.89
SRCPARAM L0044498          0.0      3.66      1.40      2.89
SRCPARAM L0044499          0.0      3.66      1.40      2.89
SRCPARAM L0044500          0.0      3.66      1.40      2.89
SRCPARAM L0044501          0.0      3.66      1.40      2.89
SRCPARAM L0044502          0.0      3.66      1.40      2.89
SRCPARAM L0044503          0.0      3.66      1.40      2.89
SRCPARAM L0044504          0.0      3.66      1.40      2.89
SRCPARAM L0044505          0.0      3.66      1.40      2.89
SRCPARAM L0044506          0.0      3.66      1.40      2.89
SRCPARAM L0044507          0.0      3.66      1.40      2.89
SRCPARAM L0044508          0.0      3.66      1.40      2.89
SRCPARAM L0044509          0.0      3.66      1.40      2.89
SRCPARAM L0044510          0.0      3.66      1.40      2.89
SRCPARAM L0044511          0.0      3.66      1.40      2.89
SRCPARAM L0044512          0.0      3.66      1.40      2.89
SRCPARAM L0044513          0.0      3.66      1.40      2.89
SRCPARAM L0044514          0.0      3.66      1.40      2.89
SRCPARAM L0044515          0.0      3.66      1.40      2.89
SRCPARAM L0044516          0.0      3.66      1.40      2.89
SRCPARAM L0044517          0.0      3.66      1.40      2.89
SRCPARAM L0044518          0.0      3.66      1.40      2.89
SRCPARAM L0044519          0.0      3.66      1.40      2.89
SRCPARAM L0044520          0.0      3.66      1.40      2.89
SRCPARAM L0044521          0.0      3.66      1.40      2.89
SRCPARAM L0044522          0.0      3.66      1.40      2.89
SRCPARAM L0044523          0.0      3.66      1.40      2.89
SRCPARAM L0044524          0.0      3.66      1.40      2.89
SRCPARAM L0044525          0.0      3.66      1.40      2.89
SRCPARAM L0044526          0.0      3.66      1.40      2.89
SRCPARAM L0044527          0.0      3.66      1.40      2.89
SRCPARAM L0044528          0.0      3.66      1.40      2.89
SRCPARAM L0044529          0.0      3.66      1.40      2.89
SRCPARAM L0044530          0.0      3.66      1.40      2.89
SRCPARAM L0044531          0.0      3.66      1.40      2.89
SRCPARAM L0044532          0.0      3.66      1.40      2.89
SRCPARAM L0044533          0.0      3.66      1.40      2.89
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   SRCPARAM L0044534          0.0      3.66      1.40      2.89
   SRCPARAM L0044535          0.0      3.66      1.40      2.89
   SRCPARAM L0044536          0.0      3.66      1.40      2.89
   SRCPARAM L0044537          0.0      3.66      1.40      2.89
   SRCPARAM L0044538          0.0      3.66      1.40      2.89
   SRCPARAM L0044539          0.0      3.66      1.40      2.89
   SRCPARAM L0044540          0.0      3.66      1.40      2.89
   SRCPARAM L0044541          0.0      3.66      1.40      2.89
   SRCPARAM L0044542          0.0      3.66      1.40      2.89
   SRCPARAM L0044543          0.0      3.66      1.40      2.89
   SRCPARAM L0044544          0.0      3.66      1.40      2.89
   SRCPARAM L0044545          0.0      3.66      1.40      2.89
   SRCPARAM L0044546          0.0      3.66      1.40      2.89
   SRCPARAM L0044547          0.0      3.66      1.40      2.89
   SRCPARAM L0044548          0.0      3.66      1.40      2.89
   SRCPARAM L0044549          0.0      3.66      1.40      2.89
   SRCPARAM L0044550          0.0      3.66      1.40      2.89
   SRCPARAM L0044551          0.0      3.66      1.40      2.89
   SRCPARAM L0044552          0.0      3.66      1.40      2.89
   SRCPARAM L0044553          0.0      3.66      1.40      2.89
   SRCPARAM L0044554          0.0      3.66      1.40      2.89
   SRCPARAM L0044555          0.0      3.66      1.40      2.89
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** LINE VOLUME Source ID = SLINE61
   SRCPARAM L0044556          0.0      3.66      1.40      2.89
   SRCPARAM L0044557          0.0      3.66      1.40      2.89
   SRCPARAM L0044558          0.0      3.66      1.40      2.89
   SRCPARAM L0044559          0.0      3.66      1.40      2.89
   SRCPARAM L0044560          0.0      3.66      1.40      2.89
   SRCPARAM L0044561          0.0      3.66      1.40      2.89
   SRCPARAM L0044562          0.0      3.66      1.40      2.89
   SRCPARAM L0044563          0.0      3.66      1.40      2.89
   SRCPARAM L0044564          0.0      3.66      1.40      2.89
   SRCPARAM L0044565          0.0      3.66      1.40      2.89
   SRCPARAM L0044566          0.0      3.66      1.40      2.89
   SRCPARAM L0044567          0.0      3.66      1.40      2.89
   SRCPARAM L0044568          0.0      3.66      1.40      2.89
   SRCPARAM L0044569          0.0      3.66      1.40      2.89
   SRCPARAM L0044570          0.0      3.66      1.40      2.89
   SRCPARAM L0044571          0.0      3.66      1.40      2.89
   SRCPARAM L0044572          0.0      3.66      1.40      2.89
   SRCPARAM L0044573          0.0      3.66      1.40      2.89
   SRCPARAM L0044574          0.0      3.66      1.40      2.89
   SRCPARAM L0044575          0.0      3.66      1.40      2.89
   SRCPARAM L0044576          0.0      3.66      1.40      2.89
   SRCPARAM L0044577          0.0      3.66      1.40      2.89
   SRCPARAM L0044578          0.0      3.66      1.40      2.89
   SRCPARAM L0044579          0.0      3.66      1.40      2.89
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SRCPARAM L0044580          0.0      3.66      1.40      2.89
SRCPARAM L0044581          0.0      3.66      1.40      2.89
SRCPARAM L0044582          0.0      3.66      1.40      2.89
SRCPARAM L0044583          0.0      3.66      1.40      2.89
SRCPARAM L0044584          0.0      3.66      1.40      2.89
SRCPARAM L0044585          0.0      3.66      1.40      2.89
SRCPARAM L0044586          0.0      3.66      1.40      2.89
SRCPARAM L0044587          0.0      3.66      1.40      2.89
SRCPARAM L0044588          0.0      3.66      1.40      2.89
SRCPARAM L0044589          0.0      3.66      1.40      2.89
SRCPARAM L0044590          0.0      3.66      1.40      2.89
SRCPARAM L0044591          0.0      3.66      1.40      2.89
SRCPARAM L0044592          0.0      3.66      1.40      2.89
SRCPARAM L0044593          0.0      3.66      1.40      2.89
SRCPARAM L0044594          0.0      3.66      1.40      2.89
SRCPARAM L0044595          0.0      3.66      1.40      2.89
SRCPARAM L0044596          0.0      3.66      1.40      2.89
SRCPARAM L0044597          0.0      3.66      1.40      2.89
SRCPARAM L0044598          0.0      3.66      1.40      2.89
SRCPARAM L0044599          0.0      3.66      1.40      2.89
SRCPARAM L0044600          0.0      3.66      1.40      2.89
SRCPARAM L0044601          0.0      3.66      1.40      2.89
SRCPARAM L0044602          0.0      3.66      1.40      2.89
SRCPARAM L0044603          0.0      3.66      1.40      2.89
SRCPARAM L0044604          0.0      3.66      1.40      2.89
SRCPARAM L0044605          0.0      3.66      1.40      2.89
SRCPARAM L0044606          0.0      3.66      1.40      2.89
SRCPARAM L0044607          0.0      3.66      1.40      2.89
SRCPARAM L0044608          0.0      3.66      1.40      2.89
SRCPARAM L0044609          0.0      3.66      1.40      2.89
SRCPARAM L0044610          0.0      3.66      1.40      2.89
SRCPARAM L0044611          0.0      3.66      1.40      2.89
SRCPARAM L0044612          0.0      3.66      1.40      2.89
SRCPARAM L0044613          0.0      3.66      1.40      2.89
SRCPARAM L0044614          0.0      3.66      1.40      2.89
SRCPARAM L0044615          0.0      3.66      1.40      2.89
SRCPARAM L0044616          0.0      3.66      1.40      2.89
SRCPARAM L0044617          0.0      3.66      1.40      2.89
SRCPARAM L0044618          0.0      3.66      1.40      2.89
SRCPARAM L0044619          0.0      3.66      1.40      2.89
SRCPARAM L0044620          0.0      3.66      1.40      2.89
SRCPARAM L0044621          0.0      3.66      1.40      2.89
SRCPARAM L0044622          0.0      3.66      1.40      2.89
SRCPARAM L0044623          0.0      3.66      1.40      2.89
SRCPARAM L0044624          0.0      3.66      1.40      2.89
SRCPARAM L0044625          0.0      3.66      1.40      2.89
SRCPARAM L0044626          0.0      3.66      1.40      2.89
SRCPARAM L0044627          0.0      3.66      1.40      2.89
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SRCPARAM L0044628          0.0      3.66      1.40      2.89
SRCPARAM L0044629          0.0      3.66      1.40      2.89
SRCPARAM L0044630          0.0      3.66      1.40      2.89
SRCPARAM L0044631          0.0      3.66      1.40      2.89
SRCPARAM L0044632          0.0      3.66      1.40      2.89
SRCPARAM L0044633          0.0      3.66      1.40      2.89
SRCPARAM L0044634          0.0      3.66      1.40      2.89
SRCPARAM L0044635          0.0      3.66      1.40      2.89
SRCPARAM L0044636          0.0      3.66      1.40      2.89
SRCPARAM L0044637          0.0      3.66      1.40      2.89
SRCPARAM L0044638          0.0      3.66      1.40      2.89
SRCPARAM L0044639          0.0      3.66      1.40      2.89
SRCPARAM L0044640          0.0      3.66      1.40      2.89
SRCPARAM L0044641          0.0      3.66      1.40      2.89
SRCPARAM L0044642          0.0      3.66      1.40      2.89
SRCPARAM L0044643          0.0      3.66      1.40      2.89
SRCPARAM L0044644          0.0      3.66      1.40      2.89
SRCPARAM L0044645          0.0      3.66      1.40      2.89
SRCPARAM L0044646          0.0      3.66      1.40      2.89
SRCPARAM L0044647          0.0      3.66      1.40      2.89
SRCPARAM L0044648          0.0      3.66      1.40      2.89
SRCPARAM L0044649          0.0      3.66      1.40      2.89
SRCPARAM L0044650          0.0      3.66      1.40      2.89
SRCPARAM L0044651          0.0      3.66      1.40      2.89
SRCPARAM L0044652          0.0      3.66      1.40      2.89
SRCPARAM L0044653          0.0      3.66      1.40      2.89
SRCPARAM L0044654          0.0      3.66      1.40      2.89
SRCPARAM L0044655          0.0      3.66      1.40      2.89
SRCPARAM L0044656          0.0      3.66      1.40      2.89
SRCPARAM L0044657          0.0      3.66      1.40      2.89
SRCPARAM L0044658          0.0      3.66      1.40      2.89
SRCPARAM L0044659          0.0      3.66      1.40      2.89
SRCPARAM L0044660          0.0      3.66      1.40      2.89
SRCPARAM L0044661          0.0      3.66      1.40      2.89
SRCPARAM L0044662          0.0      3.66      1.40      2.89
SRCPARAM L0044663          0.0      3.66      1.40      2.89
SRCPARAM L0044664          0.0      3.66      1.40      2.89
SRCPARAM L0044665          0.0      3.66      1.40      2.89
SRCPARAM L0044666          0.0      3.66      1.40      2.89
SRCPARAM L0044667          0.0      3.66      1.40      2.89
SRCPARAM L0044668          0.0      3.66      1.40      2.89
SRCPARAM L0044669          0.0      3.66      1.40      2.89
SRCPARAM L0044670          0.0      3.66      1.40      2.89
SRCPARAM L0044671          0.0      3.66      1.40      2.89
SRCPARAM L0044672          0.0      3.66      1.40      2.89
SRCPARAM L0044673          0.0      3.66      1.40      2.89
SRCPARAM L0044674          0.0      3.66      1.40      2.89
SRCPARAM L0044675          0.0      3.66      1.40      2.89
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   SRCPARAM L0044676          0.0      3.66      1.40      2.89
   SRCPARAM L0044677          0.0      3.66      1.40      2.89
   SRCPARAM L0044678          0.0      3.66      1.40      2.89
   SRCPARAM L0044679          0.0      3.66      1.40      2.89
   SRCPARAM L0044680          0.0      3.66      1.40      2.89
   SRCPARAM L0044681          0.0      3.66      1.40      2.89
   SRCPARAM L0044682          0.0      3.66      1.40      2.89
   SRCPARAM L0044683          0.0      3.66      1.40      2.89
   SRCPARAM L0044684          0.0      3.66      1.40      2.89
   SRCPARAM L0044685          0.0      3.66      1.40      2.89
   SRCPARAM L0044686          0.0      3.66      1.40      2.89
   SRCPARAM L0044687          0.0      3.66      1.40      2.89
   SRCPARAM L0044688          0.0      3.66      1.40      2.89
   SRCPARAM L0044689          0.0      3.66      1.40      2.89
   SRCPARAM L0044690          0.0      3.66      1.40      2.89
   SRCPARAM L0044691          0.0      3.66      1.40      2.89
   SRCPARAM L0044692          0.0      3.66      1.40      2.89
   SRCPARAM L0044693          0.0      3.66      1.40      2.89
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** LINE VOLUME Source ID = SLINE62
   SRCPARAM L0035433          0.0      3.66      2.33      2.89
   SRCPARAM L0035434          0.0      3.66      2.33      2.89
   SRCPARAM L0035435          0.0      3.66      2.33      2.89
   SRCPARAM L0035436          0.0      3.66      2.33      2.89
   SRCPARAM L0035437          0.0      3.66      2.33      2.89
   SRCPARAM L0035438          0.0      3.66      2.33      2.89
   SRCPARAM L0035439          0.0      3.66      2.33      2.89
   SRCPARAM L0035440          0.0      3.66      2.33      2.89
   SRCPARAM L0035441          0.0      3.66      2.33      2.89
   SRCPARAM L0035442          0.0      3.66      2.33      2.89
   SRCPARAM L0035443          0.0      3.66      2.33      2.89
   SRCPARAM L0035444          0.0      3.66      2.33      2.89
   SRCPARAM L0035445          0.0      3.66      2.33      2.89
   SRCPARAM L0035446          0.0      3.66      2.33      2.89
   SRCPARAM L0035447          0.0      3.66      2.33      2.89
   SRCPARAM L0035448          0.0      3.66      2.33      2.89
   SRCPARAM L0035449          0.0      3.66      2.33      2.89
   SRCPARAM L0035450          0.0      3.66      2.33      2.89
   SRCPARAM L0035451          0.0      3.66      2.33      2.89
   SRCPARAM L0035452          0.0      3.66      2.33      2.89
   SRCPARAM L0035453          0.0      3.66      2.33      2.89
   SRCPARAM L0035454          0.0      3.66      2.33      2.89
   SRCPARAM L0035455          0.0      3.66      2.33      2.89
   SRCPARAM L0035456          0.0      3.66      2.33      2.89
   SRCPARAM L0035457          0.0      3.66      2.33      2.89
   SRCPARAM L0035458          0.0      3.66      2.33      2.89
   SRCPARAM L0035459          0.0      3.66      2.33      2.89
   SRCPARAM L0035460          0.0      3.66      2.33      2.89
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SRCPARAM L0035461          0.0      3.66      2.33      2.89
SRCPARAM L0035462          0.0      3.66      2.33      2.89
SRCPARAM L0035463          0.0      3.66      2.33      2.89
SRCPARAM L0035464          0.0      3.66      2.33      2.89
SRCPARAM L0035465          0.0      3.66      2.33      2.89
SRCPARAM L0035466          0.0      3.66      2.33      2.89
SRCPARAM L0035467          0.0      3.66      2.33      2.89
SRCPARAM L0035468          0.0      3.66      2.33      2.89
SRCPARAM L0035469          0.0      3.66      2.33      2.89
SRCPARAM L0035470          0.0      3.66      2.33      2.89
SRCPARAM L0035471          0.0      3.66      2.33      2.89
SRCPARAM L0035472          0.0      3.66      2.33      2.89
SRCPARAM L0035473          0.0      3.66      2.33      2.89
SRCPARAM L0035474          0.0      3.66      2.33      2.89
SRCPARAM L0035475          0.0      3.66      2.33      2.89
SRCPARAM L0035476          0.0      3.66      2.33      2.89
SRCPARAM L0035477          0.0      3.66      2.33      2.89
SRCPARAM L0035478          0.0      3.66      2.33      2.89
SRCPARAM L0035479          0.0      3.66      2.33      2.89
SRCPARAM L0035480          0.0      3.66      2.33      2.89
SRCPARAM L0035481          0.0      3.66      2.33      2.89
SRCPARAM L0035482          0.0      3.66      2.33      2.89
SRCPARAM L0035483          0.0      3.66      2.33      2.89
SRCPARAM L0035484          0.0      3.66      2.33      2.89
SRCPARAM L0035485          0.0      3.66      2.33      2.89
SRCPARAM L0035486          0.0      3.66      2.33      2.89
SRCPARAM L0035487          0.0      3.66      2.33      2.89
SRCPARAM L0035488          0.0      3.66      2.33      2.89
SRCPARAM L0035489          0.0      3.66      2.33      2.89
SRCPARAM L0035490          0.0      3.66      2.33      2.89
SRCPARAM L0035491          0.0      3.66      2.33      2.89
SRCPARAM L0035492          0.0      3.66      2.33      2.89
SRCPARAM L0035493          0.0      3.66      2.33      2.89
SRCPARAM L0035494          0.0      3.66      2.33      2.89
SRCPARAM L0035495          0.0      3.66      2.33      2.89
SRCPARAM L0035496          0.0      3.66      2.33      2.89
SRCPARAM L0035497          0.0      3.66      2.33      2.89
SRCPARAM L0035498          0.0      3.66      2.33      2.89
SRCPARAM L0035499          0.0      3.66      2.33      2.89
SRCPARAM L0035500          0.0      3.66      2.33      2.89
SRCPARAM L0035501          0.0      3.66      2.33      2.89
SRCPARAM L0035502          0.0      3.66      2.33      2.89
SRCPARAM L0035503          0.0      3.66      2.33      2.89
SRCPARAM L0035504          0.0      3.66      2.33      2.89
SRCPARAM L0035505          0.0      3.66      2.33      2.89
SRCPARAM L0035506          0.0      3.66      2.33      2.89
SRCPARAM L0035507          0.0      3.66      2.33      2.89
SRCPARAM L0035508          0.0      3.66      2.33      2.89
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SRCPARAM L0035509          0.0      3.66      2.33      2.89
SRCPARAM L0035510          0.0      3.66      2.33      2.89
SRCPARAM L0035511          0.0      3.66      2.33      2.89
SRCPARAM L0035512          0.0      3.66      2.33      2.89
SRCPARAM L0035513          0.0      3.66      2.33      2.89
SRCPARAM L0035514          0.0      3.66      2.33      2.89
SRCPARAM L0035515          0.0      3.66      2.33      2.89
SRCPARAM L0035516          0.0      3.66      2.33      2.89
SRCPARAM L0035517          0.0      3.66      2.33      2.89
SRCPARAM L0035518          0.0      3.66      2.33      2.89
SRCPARAM L0035519          0.0      3.66      2.33      2.89
SRCPARAM L0035520          0.0      3.66      2.33      2.89
SRCPARAM L0035521          0.0      3.66      2.33      2.89
SRCPARAM L0035522          0.0      3.66      2.33      2.89
SRCPARAM L0035523          0.0      3.66      2.33      2.89
SRCPARAM L0035524          0.0      3.66      2.33      2.89
SRCPARAM L0035525          0.0      3.66      2.33      2.89
SRCPARAM L0035526          0.0      3.66      2.33      2.89
SRCPARAM L0035527          0.0      3.66      2.33      2.89
SRCPARAM L0035528          0.0      3.66      2.33      2.89
SRCPARAM L0035529          0.0      3.66      2.33      2.89
SRCPARAM L0035530          0.0      3.66      2.33      2.89
SRCPARAM L0035531          0.0      3.66      2.33      2.89
SRCPARAM L0035532          0.0      3.66      2.33      2.89
SRCPARAM L0035533          0.0      3.66      2.33      2.89
SRCPARAM L0035534          0.0      3.66      2.33      2.89
SRCPARAM L0035535          0.0      3.66      2.33      2.89
SRCPARAM L0035536          0.0      3.66      2.33      2.89
SRCPARAM L0035537          0.0      3.66      2.33      2.89
SRCPARAM L0035538          0.0      3.66      2.33      2.89
SRCPARAM L0035539          0.0      3.66      2.33      2.89
SRCPARAM L0035540          0.0      3.66      2.33      2.89
SRCPARAM L0035541          0.0      3.66      2.33      2.89
SRCPARAM L0035542          0.0      3.66      2.33      2.89
SRCPARAM L0035543          0.0      3.66      2.33      2.89
SRCPARAM L0035544          0.0      3.66      2.33      2.89
SRCPARAM L0035545          0.0      3.66      2.33      2.89
SRCPARAM L0035546          0.0      3.66      2.33      2.89
SRCPARAM L0035547          0.0      3.66      2.33      2.89
SRCPARAM L0035548          0.0      3.66      2.33      2.89
SRCPARAM L0035549          0.0      3.66      2.33      2.89
SRCPARAM L0035550          0.0      3.66      2.33      2.89
SRCPARAM L0035551          0.0      3.66      2.33      2.89
SRCPARAM L0035552          0.0      3.66      2.33      2.89
SRCPARAM L0035553          0.0      3.66      2.33      2.89
SRCPARAM L0035554          0.0      3.66      2.33      2.89
SRCPARAM L0035555          0.0      3.66      2.33      2.89
SRCPARAM L0035556          0.0      3.66      2.33      2.89
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   SRCPARAM L0035557          0.0      3.66      2.33      2.89
   SRCPARAM L0035558          0.0      3.66      2.33      2.89
   SRCPARAM L0035559          0.0      3.66      2.33      2.89
   SRCPARAM L0035560          0.0      3.66      2.33      2.89
   SRCPARAM L0035561          0.0      3.66      2.33      2.89
   SRCPARAM L0035562          0.0      3.66      2.33      2.89
   SRCPARAM L0035563          0.0      3.66      2.33      2.89
   SRCPARAM L0035564          0.0      3.66      2.33      2.89
   SRCPARAM L0035565          0.0      3.66      2.33      2.89
   SRCPARAM L0035566          0.0      3.66      2.33      2.89
   SRCPARAM L0035567          0.0      3.66      2.33      2.89
   SRCPARAM L0035568          0.0      3.66      2.33      2.89
   SRCPARAM L0035569          0.0      3.66      2.33      2.89
   SRCPARAM L0035570          0.0      3.66      2.33      2.89
   SRCPARAM L0035571          0.0      3.66      2.33      2.89
   SRCPARAM L0035572          0.0      3.66      2.33      2.89
   SRCPARAM L0035573          0.0      3.66      2.33      2.89
   SRCPARAM L0035574          0.0      3.66      2.33      2.89
   SRCPARAM L0035575          0.0      3.66      2.33      2.89
   SRCPARAM L0035576          0.0      3.66      2.33      2.89
   SRCPARAM L0035577          0.0      3.66      2.33      2.89
   SRCPARAM L0035578          0.0      3.66      2.33      2.89
   SRCPARAM L0035579          0.0      3.66      2.33      2.89
   SRCPARAM L0035580          0.0      3.66      2.33      2.89
   SRCPARAM L0035581          0.0      3.66      2.33      2.89
   SRCPARAM L0035582          0.0      3.66      2.33      2.89
   SRCPARAM L0035583          0.0      3.66      2.33      2.89
   SRCPARAM L0035584          0.0      3.66      2.33      2.89
   SRCPARAM L0035585          0.0      3.66      2.33      2.89
   SRCPARAM L0035586          0.0      3.66      2.33      2.89
   SRCPARAM L0035587          0.0      3.66      2.33      2.89
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** LINE VOLUME Source ID = SLINE64
   SRCPARAM L0044694          0.0      3.66      1.40      2.89
   SRCPARAM L0044695          0.0      3.66      1.40      2.89
   SRCPARAM L0044696          0.0      3.66      1.40      2.89
   SRCPARAM L0044697          0.0      3.66      1.40      2.89
   SRCPARAM L0044698          0.0      3.66      1.40      2.89
   SRCPARAM L0044699          0.0      3.66      1.40      2.89
   SRCPARAM L0044700          0.0      3.66      1.40      2.89
   SRCPARAM L0044701          0.0      3.66      1.40      2.89
   SRCPARAM L0044702          0.0      3.66      1.40      2.89
   SRCPARAM L0044703          0.0      3.66      1.40      2.89
   SRCPARAM L0044704          0.0      3.66      1.40      2.89
   SRCPARAM L0044705          0.0      3.66      1.40      2.89
   SRCPARAM L0044706          0.0      3.66      1.40      2.89
   SRCPARAM L0044707          0.0      3.66      1.40      2.89
   SRCPARAM L0044708          0.0      3.66      1.40      2.89
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SRCPARAM L0044709          0.0      3.66      1.40      2.89
SRCPARAM L0044710          0.0      3.66      1.40      2.89
SRCPARAM L0044711          0.0      3.66      1.40      2.89
SRCPARAM L0044712          0.0      3.66      1.40      2.89
SRCPARAM L0044713          0.0      3.66      1.40      2.89
SRCPARAM L0044714          0.0      3.66      1.40      2.89
SRCPARAM L0044715          0.0      3.66      1.40      2.89
SRCPARAM L0044716          0.0      3.66      1.40      2.89
SRCPARAM L0044717          0.0      3.66      1.40      2.89
SRCPARAM L0044718          0.0      3.66      1.40      2.89
SRCPARAM L0044719          0.0      3.66      1.40      2.89
SRCPARAM L0044720          0.0      3.66      1.40      2.89
SRCPARAM L0044721          0.0      3.66      1.40      2.89
SRCPARAM L0044722          0.0      3.66      1.40      2.89
SRCPARAM L0044723          0.0      3.66      1.40      2.89
SRCPARAM L0044724          0.0      3.66      1.40      2.89
SRCPARAM L0044725          0.0      3.66      1.40      2.89
SRCPARAM L0044726          0.0      3.66      1.40      2.89
SRCPARAM L0044727          0.0      3.66      1.40      2.89
SRCPARAM L0044728          0.0      3.66      1.40      2.89
SRCPARAM L0044729          0.0      3.66      1.40      2.89
SRCPARAM L0044730          0.0      3.66      1.40      2.89
SRCPARAM L0044731          0.0      3.66      1.40      2.89
SRCPARAM L0044732          0.0      3.66      1.40      2.89
SRCPARAM L0044733          0.0      3.66      1.40      2.89
SRCPARAM L0044734          0.0      3.66      1.40      2.89
SRCPARAM L0044735          0.0      3.66      1.40      2.89
SRCPARAM L0044736          0.0      3.66      1.40      2.89
SRCPARAM L0044737          0.0      3.66      1.40      2.89
SRCPARAM L0044738          0.0      3.66      1.40      2.89
SRCPARAM L0044739          0.0      3.66      1.40      2.89
SRCPARAM L0044740          0.0      3.66      1.40      2.89
SRCPARAM L0044741          0.0      3.66      1.40      2.89
SRCPARAM L0044742          0.0      3.66      1.40      2.89
SRCPARAM L0044743          0.0      3.66      1.40      2.89
SRCPARAM L0044744          0.0      3.66      1.40      2.89
SRCPARAM L0044745          0.0      3.66      1.40      2.89
SRCPARAM L0044746          0.0      3.66      1.40      2.89
SRCPARAM L0044747          0.0      3.66      1.40      2.89
SRCPARAM L0044748          0.0      3.66      1.40      2.89
SRCPARAM L0044749          0.0      3.66      1.40      2.89
SRCPARAM L0044750          0.0      3.66      1.40      2.89
SRCPARAM L0044751          0.0      3.66      1.40      2.89
SRCPARAM L0044752          0.0      3.66      1.40      2.89
SRCPARAM L0044753          0.0      3.66      1.40      2.89
SRCPARAM L0044754          0.0      3.66      1.40      2.89
SRCPARAM L0044755          0.0      3.66      1.40      2.89
SRCPARAM L0044756          0.0      3.66      1.40      2.89
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   SRCPARAM L0044757          0.0      3.66      1.40      2.89
   SRCPARAM L0044758          0.0      3.66      1.40      2.89
   SRCPARAM L0044759          0.0      3.66      1.40      2.89
   SRCPARAM L0044760          0.0      3.66      1.40      2.89
   SRCPARAM L0044761          0.0      3.66      1.40      2.89
   SRCPARAM L0044762          0.0      3.66      1.40      2.89
   SRCPARAM L0044763          0.0      3.66      1.40      2.89
   SRCPARAM L0044764          0.0      3.66      1.40      2.89
   SRCPARAM L0044765          0.0      3.66      1.40      2.89
   SRCPARAM L0044766          0.0      3.66      1.40      2.89
   SRCPARAM L0044767          0.0      3.66      1.40      2.89
   SRCPARAM L0044768          0.0      3.66      1.40      2.89
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** LINE VOLUME Source ID = SLINE65
   SRCPARAM L0044769     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044770     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044771     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044772     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044773     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044774     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044775     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044776     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044777     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044778     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044779     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044780     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044781     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044782     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044783     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044784     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044785     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044786     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044787     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044788     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044789     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044790     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044791     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044792     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044793     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044794     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044795     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044796     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044797     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044798     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044799     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044800     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044801     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044802     0.00000003441      3.66      2.33      2.89
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SRCPARAM L0044803     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044804     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044805     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044806     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044807     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044808     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044809     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044810     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044811     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044812     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044813     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044814     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044815     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044816     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044817     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044818     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044819     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044820     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044821     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044822     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044823     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044824     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044825     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044826     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044827     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044828     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044829     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044830     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044831     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044832     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044833     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044834     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044835     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044836     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044837     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044838     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044839     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044840     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044841     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044842     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044843     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044844     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044845     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044846     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044847     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044848     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044849     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044850     0.00000003441      3.66      2.33      2.89
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SRCPARAM L0044851     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044852     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044853     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044854     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044855     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044856     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044857     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044858     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044859     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044860     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044861     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044862     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044863     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044864     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044865     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044866     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044867     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044868     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044869     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044870     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044871     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044872     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044873     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044874     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044875     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044876     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044877     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044878     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044879     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044880     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044881     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044882     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044883     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044884     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044885     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044886     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044887     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044888     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044889     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044890     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044891     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044892     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044893     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044894     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044895     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044896     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044897     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044898     0.00000003441      3.66      2.33      2.89
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   SRCPARAM L0044899     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044900     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044901     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044902     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044903     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044904     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044905     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044906     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044907     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044908     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044909     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044910     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044911     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044912     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044913     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044914     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044915     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044916     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044917     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044918     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044919     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044920     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044921     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044922     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044923     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044924     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044925     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044926     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044927     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044928     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044929     0.00000003441      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE66
   SRCPARAM L0044930     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044931     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044932     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044933     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044934     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044935     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044936     0.0000001324      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE67
   SRCPARAM L0044937     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044938     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044939     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044940     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044941     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044942     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0044943     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044944     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044945     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044946     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044947     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044948     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044949     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044950     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044951     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044952     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044953     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044954     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044955     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044956     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044957     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044958     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044959     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044960     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044961     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044962     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044963     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044964     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044965     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044966     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044967     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044968     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044969     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044970     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044971     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044972     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044973     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044974     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044975     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044976     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044977     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044978     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044979     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044980     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044981     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044982     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044983     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044984     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044985     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044986     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044987     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044988     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044989     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044990     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0044991     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044992     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044993     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044994     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044995     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044996     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044997     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044998     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044999     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045000     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045001     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045002     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045003     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045004     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045005     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045006     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045007     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045008     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045009     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045010     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045011     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045012     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045013     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045014     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045015     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045016     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045017     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045018     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045019     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045020     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045021     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045022     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045023     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045024     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045025     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045026     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045027     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045028     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045029     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045030     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045031     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045032     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045033     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045034     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045035     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045036     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045037     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045038     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0045039     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045040     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045041     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045042     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045043     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045044     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045045     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045046     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045047     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045048     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045049     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045050     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045051     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045052     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045053     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045054     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045055     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045056     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045057     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045058     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045059     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045060     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045061     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045062     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045063     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045064     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045065     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045066     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045067     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045068     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045069     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045070     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045071     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045072     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045073     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045074     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045075     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045076     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045077     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045078     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045079     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045080     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045081     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045082     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045083     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045084     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045085     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045086     0.00000005455      3.66      2.33      2.89
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   SRCPARAM L0045087     0.00000005455      3.66      2.33      2.89
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   SRCPARAM L0045089     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0045090     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0045091     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0045092     0.00000005455      3.66      2.33      2.89
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** LINE VOLUME Source ID = SLINE68
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   SRCPARAM L0045094     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045095     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045096     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045097     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045098     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045099     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045100     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045101     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045102     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045103     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045104     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045105     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045106     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045107     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045108     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045109     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045110     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045111     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045112     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045113     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045114     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045115     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045116     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045117     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045118     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045119     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045120     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045121     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045122     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045123     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045124     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045125     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045126     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045127     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045128     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045129     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045130     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045131     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045132     0.00000005469      3.66      2.33      2.89
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SRCPARAM L0045135     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045136     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045137     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045138     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045139     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045140     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045141     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045142     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045143     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045144     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045145     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045146     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045147     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045148     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045149     0.00000005469      3.66      2.33      2.89
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SRCPARAM L0045153     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045154     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045155     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045156     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045157     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045158     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045159     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045160     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045161     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045162     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045163     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045164     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045165     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045166     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045167     0.00000005469      3.66      2.33      2.89
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   SRCGROUP ALL
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** AERMOD Receptor Pathway
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RE FINISHED
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** AERMOD Meteorology Pathway
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   PROFFILE KCNO_V9_ADJU\KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
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   RECTABLE 1 1ST
   RECTABLE 24 1ST
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   PLOTFILE 24 ALL 1ST SOL_OPERATIONS_REV2.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL SOL_OPERATIONS_REV2.AD\PE00GALL.PLT 33
   SUMMFILE SOL_operations_rev2.sum
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** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 9.8.3
** Lakes Environmental Software Inc.
** Date: 3/9/2021
** File: C:\Lakes\AERMOD View\SOL_operations_rev2\SOL_operations_rev2.ADI
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** AERMOD Control Pathway
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   AVERTIME 1 24 PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID PM_10
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CO FINISHED
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** AERMOD Source Pathway
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SO STARTING
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** Source ID - Type - X Coord. - Y Coord. **
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** LINE VOLUME Source ID = SLINE2
** DESCRSRC Euclid Ave - Red Bud Lane to Merrill Ave
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.0000334
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
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** 439897.649, 3762632.423, 216.86, 3.66, 5.58
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LOCATION L0040871     VOLUME   439896.815 3761638.114 206.38
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Euclid Ave - Merrill Ave to SR-71
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.000016
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 7
** 439895.965, 3760471.472, 193.72, 3.66, 5.58
** 439894.002, 3760323.327, 192.76, 3.66, 5.58
** 439894.252, 3759955.407, 190.38, 3.66, 5.58
** 439889.660, 3759518.181, 186.91, 3.66, 5.58
** 439888.673, 3759221.010, 184.82, 3.66, 5.58
** 439889.264, 3759072.819, 183.50, 3.66, 5.58
** 439887.586, 3758873.931, 182.11, 3.66, 5.58
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   LOCATION L0040969     VOLUME   439895.885 3760465.473 193.68
   LOCATION L0040970     VOLUME   439895.726 3760453.474 193.57
   LOCATION L0040971     VOLUME   439895.568 3760441.475 193.47
   LOCATION L0040972     VOLUME   439895.409 3760429.476 193.38
   LOCATION L0040973     VOLUME   439895.250 3760417.477 193.29
   LOCATION L0040974     VOLUME   439895.091 3760405.478 193.23
   LOCATION L0040975     VOLUME   439894.932 3760393.479 193.17
   LOCATION L0040976     VOLUME   439894.773 3760381.480 193.10
   LOCATION L0040977     VOLUME   439894.614 3760369.481 193.03
   LOCATION L0040978     VOLUME   439894.455 3760357.482 192.96
   LOCATION L0040979     VOLUME   439894.296 3760345.483 192.88
   LOCATION L0040980     VOLUME   439894.137 3760333.484 192.80
   LOCATION L0040981     VOLUME   439894.003 3760321.485 192.70
   LOCATION L0040982     VOLUME   439894.012 3760309.485 192.60
   LOCATION L0040983     VOLUME   439894.020 3760297.485 192.49
   LOCATION L0040984     VOLUME   439894.028 3760285.485 192.39
   LOCATION L0040985     VOLUME   439894.036 3760273.485 192.28
   LOCATION L0040986     VOLUME   439894.044 3760261.485 192.17
   LOCATION L0040987     VOLUME   439894.052 3760249.485 192.07
   LOCATION L0040988     VOLUME   439894.061 3760237.485 191.96
   LOCATION L0040989     VOLUME   439894.069 3760225.485 191.85
   LOCATION L0040990     VOLUME   439894.077 3760213.485 191.74
   LOCATION L0040991     VOLUME   439894.085 3760201.485 191.64
   LOCATION L0040992     VOLUME   439894.093 3760189.485 191.54
   LOCATION L0040993     VOLUME   439894.101 3760177.485 191.44
   LOCATION L0040994     VOLUME   439894.110 3760165.485 191.37
   LOCATION L0040995     VOLUME   439894.118 3760153.485 191.30
   LOCATION L0040996     VOLUME   439894.126 3760141.485 191.24
   LOCATION L0040997     VOLUME   439894.134 3760129.485 191.18
   LOCATION L0040998     VOLUME   439894.142 3760117.485 191.12
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LOCATION L0040999     VOLUME   439894.150 3760105.485 191.08
LOCATION L0041000     VOLUME   439894.159 3760093.485 191.03
LOCATION L0041001     VOLUME   439894.167 3760081.485 190.98
LOCATION L0041002     VOLUME   439894.175 3760069.485 190.93
LOCATION L0041003     VOLUME   439894.183 3760057.485 190.88
LOCATION L0041004     VOLUME   439894.191 3760045.485 190.83
LOCATION L0041005     VOLUME   439894.199 3760033.485 190.78
LOCATION L0041006     VOLUME   439894.208 3760021.485 190.72
LOCATION L0041007     VOLUME   439894.216 3760009.485 190.66
LOCATION L0041008     VOLUME   439894.224 3759997.485 190.60
LOCATION L0041009     VOLUME   439894.232 3759985.485 190.53
LOCATION L0041010     VOLUME   439894.240 3759973.485 190.47
LOCATION L0041011     VOLUME   439894.248 3759961.485 190.41
LOCATION L0041012     VOLUME   439894.190 3759949.486 190.34
LOCATION L0041013     VOLUME   439894.064 3759937.486 190.27
LOCATION L0041014     VOLUME   439893.938 3759925.487 190.21
LOCATION L0041015     VOLUME   439893.812 3759913.488 190.14
LOCATION L0041016     VOLUME   439893.686 3759901.488 190.08
LOCATION L0041017     VOLUME   439893.560 3759889.489 190.01
LOCATION L0041018     VOLUME   439893.434 3759877.490 189.93
LOCATION L0041019     VOLUME   439893.308 3759865.490 189.84
LOCATION L0041020     VOLUME   439893.182 3759853.491 189.74
LOCATION L0041021     VOLUME   439893.056 3759841.492 189.64
LOCATION L0041022     VOLUME   439892.930 3759829.492 189.54
LOCATION L0041023     VOLUME   439892.804 3759817.493 189.44
LOCATION L0041024     VOLUME   439892.678 3759805.494 189.33
LOCATION L0041025     VOLUME   439892.552 3759793.494 189.23
LOCATION L0041026     VOLUME   439892.426 3759781.495 189.13
LOCATION L0041027     VOLUME   439892.300 3759769.496 189.02
LOCATION L0041028     VOLUME   439892.174 3759757.496 188.91
LOCATION L0041029     VOLUME   439892.048 3759745.497 188.80
LOCATION L0041030     VOLUME   439891.922 3759733.498 188.69
LOCATION L0041031     VOLUME   439891.795 3759721.498 188.57
LOCATION L0041032     VOLUME   439891.669 3759709.499 188.46
LOCATION L0041033     VOLUME   439891.543 3759697.500 188.36
LOCATION L0041034     VOLUME   439891.417 3759685.500 188.26
LOCATION L0041035     VOLUME   439891.291 3759673.501 188.16
LOCATION L0041036     VOLUME   439891.165 3759661.502 188.07
LOCATION L0041037     VOLUME   439891.039 3759649.502 187.97
LOCATION L0041038     VOLUME   439890.913 3759637.503 187.86
LOCATION L0041039     VOLUME   439890.787 3759625.504 187.75
LOCATION L0041040     VOLUME   439890.661 3759613.504 187.64
LOCATION L0041041     VOLUME   439890.535 3759601.505 187.54
LOCATION L0041042     VOLUME   439890.409 3759589.505 187.44
LOCATION L0041043     VOLUME   439890.283 3759577.506 187.35
LOCATION L0041044     VOLUME   439890.157 3759565.507 187.25
LOCATION L0041045     VOLUME   439890.031 3759553.507 187.15
LOCATION L0041046     VOLUME   439889.905 3759541.508 187.05
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LOCATION L0041047     VOLUME   439889.779 3759529.509 186.95
LOCATION L0041048     VOLUME   439889.658 3759517.509 186.86
LOCATION L0041049     VOLUME   439889.618 3759505.510 186.78
LOCATION L0041050     VOLUME   439889.578 3759493.510 186.70
LOCATION L0041051     VOLUME   439889.538 3759481.510 186.63
LOCATION L0041052     VOLUME   439889.498 3759469.510 186.55
LOCATION L0041053     VOLUME   439889.458 3759457.510 186.48
LOCATION L0041054     VOLUME   439889.418 3759445.510 186.41
LOCATION L0041055     VOLUME   439889.379 3759433.510 186.34
LOCATION L0041056     VOLUME   439889.339 3759421.510 186.26
LOCATION L0041057     VOLUME   439889.299 3759409.510 186.18
LOCATION L0041058     VOLUME   439889.259 3759397.510 186.09
LOCATION L0041059     VOLUME   439889.219 3759385.510 186.00
LOCATION L0041060     VOLUME   439889.179 3759373.510 185.92
LOCATION L0041061     VOLUME   439889.139 3759361.510 185.85
LOCATION L0041062     VOLUME   439889.099 3759349.510 185.79
LOCATION L0041063     VOLUME   439889.060 3759337.510 185.72
LOCATION L0041064     VOLUME   439889.020 3759325.510 185.66
LOCATION L0041065     VOLUME   439888.980 3759313.511 185.59
LOCATION L0041066     VOLUME   439888.940 3759301.511 185.52
LOCATION L0041067     VOLUME   439888.900 3759289.511 185.44
LOCATION L0041068     VOLUME   439888.860 3759277.511 185.35
LOCATION L0041069     VOLUME   439888.820 3759265.511 185.25
LOCATION L0041070     VOLUME   439888.781 3759253.511 185.14
LOCATION L0041071     VOLUME   439888.741 3759241.511 185.02
LOCATION L0041072     VOLUME   439888.701 3759229.511 184.91
LOCATION L0041073     VOLUME   439888.687 3759217.511 184.79
LOCATION L0041074     VOLUME   439888.734 3759205.511 184.67
LOCATION L0041075     VOLUME   439888.782 3759193.511 184.56
LOCATION L0041076     VOLUME   439888.830 3759181.511 184.44
LOCATION L0041077     VOLUME   439888.878 3759169.511 184.33
LOCATION L0041078     VOLUME   439888.926 3759157.512 184.22
LOCATION L0041079     VOLUME   439888.974 3759145.512 184.11
LOCATION L0041080     VOLUME   439889.022 3759133.512 184.00
LOCATION L0041081     VOLUME   439889.070 3759121.512 183.89
LOCATION L0041082     VOLUME   439889.118 3759109.512 183.80
LOCATION L0041083     VOLUME   439889.166 3759097.512 183.70
LOCATION L0041084     VOLUME   439889.214 3759085.512 183.63
LOCATION L0041085     VOLUME   439889.262 3759073.512 183.55
LOCATION L0041086     VOLUME   439889.169 3759061.513 183.48
LOCATION L0041087     VOLUME   439889.068 3759049.513 183.42
LOCATION L0041088     VOLUME   439888.966 3759037.514 183.36
LOCATION L0041089     VOLUME   439888.865 3759025.514 183.31
LOCATION L0041090     VOLUME   439888.764 3759013.514 183.25
LOCATION L0041091     VOLUME   439888.663 3759001.515 183.19
LOCATION L0041092     VOLUME   439888.561 3758989.515 183.11
LOCATION L0041093     VOLUME   439888.460 3758977.516 183.03
LOCATION L0041094     VOLUME   439888.359 3758965.516 182.95
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   LOCATION L0041095     VOLUME   439888.258 3758953.517 182.87
   LOCATION L0041096     VOLUME   439888.156 3758941.517 182.78
   LOCATION L0041097     VOLUME   439888.055 3758929.517 182.67
   LOCATION L0041098     VOLUME   439887.954 3758917.518 182.56
   LOCATION L0041099     VOLUME   439887.853 3758905.518 182.44
   LOCATION L0041100     VOLUME   439887.751 3758893.519 182.30
   LOCATION L0041101     VOLUME   439887.650 3758881.519 182.17
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Merill Ave - Euclid Ave to Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 0.000012
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 439898.378, 3760465.490, 193.62, 3.66, 2.33
** 439941.655, 3760464.977, 193.56, 3.66, 2.33
** 440094.749, 3760465.148, 193.70, 3.66, 2.33
** 440334.726, 3760466.319, 194.72, 3.66, 2.33
** 440497.808, 3760467.090, 195.14, 3.66, 2.33
** 440776.167, 3760467.090, 196.68, 3.66, 2.33
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   LOCATION L0041103     VOLUME   439905.877 3760465.401 193.70
   LOCATION L0041104     VOLUME   439910.877 3760465.342 193.70
   LOCATION L0041105     VOLUME   439915.876 3760465.283 193.71
   LOCATION L0041106     VOLUME   439920.876 3760465.223 193.71
   LOCATION L0041107     VOLUME   439925.876 3760465.164 193.70
   LOCATION L0041108     VOLUME   439930.875 3760465.105 193.68
   LOCATION L0041109     VOLUME   439935.875 3760465.045 193.65
   LOCATION L0041110     VOLUME   439940.875 3760464.986 193.63
   LOCATION L0041111     VOLUME   439945.875 3760464.982 193.61
   LOCATION L0041112     VOLUME   439950.875 3760464.987 193.59
   LOCATION L0041113     VOLUME   439955.875 3760464.993 193.58
   LOCATION L0041114     VOLUME   439960.875 3760464.998 193.58
   LOCATION L0041115     VOLUME   439965.875 3760465.004 193.57
   LOCATION L0041116     VOLUME   439970.875 3760465.010 193.56
   LOCATION L0041117     VOLUME   439975.875 3760465.015 193.56
   LOCATION L0041118     VOLUME   439980.875 3760465.021 193.56
   LOCATION L0041119     VOLUME   439985.875 3760465.026 193.57
   LOCATION L0041120     VOLUME   439990.875 3760465.032 193.57
   LOCATION L0041121     VOLUME   439995.875 3760465.037 193.57
   LOCATION L0041122     VOLUME   440000.875 3760465.043 193.58
   LOCATION L0041123     VOLUME   440005.875 3760465.049 193.58
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LOCATION L0041124     VOLUME   440010.875 3760465.054 193.58
LOCATION L0041125     VOLUME   440015.875 3760465.060 193.58
LOCATION L0041126     VOLUME   440020.875 3760465.065 193.58
LOCATION L0041127     VOLUME   440025.874 3760465.071 193.59
LOCATION L0041128     VOLUME   440030.874 3760465.077 193.59
LOCATION L0041129     VOLUME   440035.874 3760465.082 193.59
LOCATION L0041130     VOLUME   440040.874 3760465.088 193.60
LOCATION L0041131     VOLUME   440045.874 3760465.093 193.60
LOCATION L0041132     VOLUME   440050.874 3760465.099 193.60
LOCATION L0041133     VOLUME   440055.874 3760465.105 193.61
LOCATION L0041134     VOLUME   440060.874 3760465.110 193.62
LOCATION L0041135     VOLUME   440065.874 3760465.116 193.63
LOCATION L0041136     VOLUME   440070.874 3760465.121 193.64
LOCATION L0041137     VOLUME   440075.874 3760465.127 193.65
LOCATION L0041138     VOLUME   440080.874 3760465.132 193.65
LOCATION L0041139     VOLUME   440085.874 3760465.138 193.66
LOCATION L0041140     VOLUME   440090.874 3760465.144 193.66
LOCATION L0041141     VOLUME   440095.874 3760465.153 193.66
LOCATION L0041142     VOLUME   440100.874 3760465.178 193.67
LOCATION L0041143     VOLUME   440105.874 3760465.202 193.68
LOCATION L0041144     VOLUME   440110.874 3760465.227 193.69
LOCATION L0041145     VOLUME   440115.874 3760465.251 193.70
LOCATION L0041146     VOLUME   440120.874 3760465.275 193.72
LOCATION L0041147     VOLUME   440125.874 3760465.300 193.73
LOCATION L0041148     VOLUME   440130.874 3760465.324 193.75
LOCATION L0041149     VOLUME   440135.874 3760465.349 193.78
LOCATION L0041150     VOLUME   440140.874 3760465.373 193.80
LOCATION L0041151     VOLUME   440145.874 3760465.397 193.83
LOCATION L0041152     VOLUME   440150.874 3760465.422 193.86
LOCATION L0041153     VOLUME   440155.874 3760465.446 193.88
LOCATION L0041154     VOLUME   440160.874 3760465.471 193.91
LOCATION L0041155     VOLUME   440165.874 3760465.495 193.94
LOCATION L0041156     VOLUME   440170.874 3760465.520 193.97
LOCATION L0041157     VOLUME   440175.873 3760465.544 194.00
LOCATION L0041158     VOLUME   440180.873 3760465.568 194.02
LOCATION L0041159     VOLUME   440185.873 3760465.593 194.05
LOCATION L0041160     VOLUME   440190.873 3760465.617 194.07
LOCATION L0041161     VOLUME   440195.873 3760465.642 194.10
LOCATION L0041162     VOLUME   440200.873 3760465.666 194.12
LOCATION L0041163     VOLUME   440205.873 3760465.690 194.14
LOCATION L0041164     VOLUME   440210.873 3760465.715 194.16
LOCATION L0041165     VOLUME   440215.873 3760465.739 194.18
LOCATION L0041166     VOLUME   440220.873 3760465.764 194.19
LOCATION L0041167     VOLUME   440225.873 3760465.788 194.21
LOCATION L0041168     VOLUME   440230.873 3760465.812 194.22
LOCATION L0041169     VOLUME   440235.873 3760465.837 194.26
LOCATION L0041170     VOLUME   440240.873 3760465.861 194.30
LOCATION L0041171     VOLUME   440245.873 3760465.886 194.33
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LOCATION L0041172     VOLUME   440250.873 3760465.910 194.37
LOCATION L0041173     VOLUME   440255.873 3760465.934 194.41
LOCATION L0041174     VOLUME   440260.872 3760465.959 194.44
LOCATION L0041175     VOLUME   440265.872 3760465.983 194.47
LOCATION L0041176     VOLUME   440270.872 3760466.008 194.50
LOCATION L0041177     VOLUME   440275.872 3760466.032 194.53
LOCATION L0041178     VOLUME   440280.872 3760466.056 194.56
LOCATION L0041179     VOLUME   440285.872 3760466.081 194.57
LOCATION L0041180     VOLUME   440290.872 3760466.105 194.59
LOCATION L0041181     VOLUME   440295.872 3760466.130 194.60
LOCATION L0041182     VOLUME   440300.872 3760466.154 194.62
LOCATION L0041183     VOLUME   440305.872 3760466.178 194.63
LOCATION L0041184     VOLUME   440310.872 3760466.203 194.65
LOCATION L0041185     VOLUME   440315.872 3760466.227 194.67
LOCATION L0041186     VOLUME   440320.872 3760466.252 194.69
LOCATION L0041187     VOLUME   440325.872 3760466.276 194.71
LOCATION L0041188     VOLUME   440330.872 3760466.300 194.73
LOCATION L0041189     VOLUME   440335.872 3760466.325 194.76
LOCATION L0041190     VOLUME   440340.872 3760466.348 194.78
LOCATION L0041191     VOLUME   440345.871 3760466.372 194.80
LOCATION L0041192     VOLUME   440350.871 3760466.396 194.82
LOCATION L0041193     VOLUME   440355.871 3760466.419 194.84
LOCATION L0041194     VOLUME   440360.871 3760466.443 194.88
LOCATION L0041195     VOLUME   440365.871 3760466.466 194.94
LOCATION L0041196     VOLUME   440370.871 3760466.490 195.00
LOCATION L0041197     VOLUME   440375.871 3760466.514 195.07
LOCATION L0041198     VOLUME   440380.871 3760466.537 195.13
LOCATION L0041199     VOLUME   440385.871 3760466.561 195.19
LOCATION L0041200     VOLUME   440390.871 3760466.585 195.21
LOCATION L0041201     VOLUME   440395.871 3760466.608 195.23
LOCATION L0041202     VOLUME   440400.871 3760466.632 195.25
LOCATION L0041203     VOLUME   440405.871 3760466.656 195.27
LOCATION L0041204     VOLUME   440410.871 3760466.679 195.29
LOCATION L0041205     VOLUME   440415.871 3760466.703 195.24
LOCATION L0041206     VOLUME   440420.871 3760466.726 195.20
LOCATION L0041207     VOLUME   440425.871 3760466.750 195.15
LOCATION L0041208     VOLUME   440430.871 3760466.774 195.11
LOCATION L0041209     VOLUME   440435.870 3760466.797 195.06
LOCATION L0041210     VOLUME   440440.870 3760466.821 195.07
LOCATION L0041211     VOLUME   440445.870 3760466.845 195.08
LOCATION L0041212     VOLUME   440450.870 3760466.868 195.09
LOCATION L0041213     VOLUME   440455.870 3760466.892 195.11
LOCATION L0041214     VOLUME   440460.870 3760466.916 195.12
LOCATION L0041215     VOLUME   440465.870 3760466.939 195.13
LOCATION L0041216     VOLUME   440470.870 3760466.963 195.14
LOCATION L0041217     VOLUME   440475.870 3760466.987 195.15
LOCATION L0041218     VOLUME   440480.870 3760467.010 195.16
LOCATION L0041219     VOLUME   440485.870 3760467.034 195.17
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LOCATION L0041220     VOLUME   440490.870 3760467.057 195.18
LOCATION L0041221     VOLUME   440495.870 3760467.081 195.20
LOCATION L0041222     VOLUME   440500.870 3760467.090 195.21
LOCATION L0041223     VOLUME   440505.870 3760467.090 195.22
LOCATION L0041224     VOLUME   440510.870 3760467.090 195.23
LOCATION L0041225     VOLUME   440515.870 3760467.090 195.25
LOCATION L0041226     VOLUME   440520.870 3760467.090 195.26
LOCATION L0041227     VOLUME   440525.870 3760467.090 195.28
LOCATION L0041228     VOLUME   440530.870 3760467.090 195.29
LOCATION L0041229     VOLUME   440535.870 3760467.090 195.31
LOCATION L0041230     VOLUME   440540.870 3760467.090 195.32
LOCATION L0041231     VOLUME   440545.870 3760467.090 195.34
LOCATION L0041232     VOLUME   440550.870 3760467.090 195.35
LOCATION L0041233     VOLUME   440555.870 3760467.090 195.37
LOCATION L0041234     VOLUME   440560.870 3760467.090 195.38
LOCATION L0041235     VOLUME   440565.870 3760467.090 195.40
LOCATION L0041236     VOLUME   440570.870 3760467.090 195.42
LOCATION L0041237     VOLUME   440575.870 3760467.090 195.43
LOCATION L0041238     VOLUME   440580.870 3760467.090 195.45
LOCATION L0041239     VOLUME   440585.870 3760467.090 195.47
LOCATION L0041240     VOLUME   440590.870 3760467.090 195.49
LOCATION L0041241     VOLUME   440595.870 3760467.090 195.51
LOCATION L0041242     VOLUME   440600.870 3760467.090 195.52
LOCATION L0041243     VOLUME   440605.870 3760467.090 195.54
LOCATION L0041244     VOLUME   440610.870 3760467.090 195.55
LOCATION L0041245     VOLUME   440615.870 3760467.090 195.57
LOCATION L0041246     VOLUME   440620.870 3760467.090 195.58
LOCATION L0041247     VOLUME   440625.870 3760467.090 195.60
LOCATION L0041248     VOLUME   440630.870 3760467.090 195.61
LOCATION L0041249     VOLUME   440635.870 3760467.090 195.63
LOCATION L0041250     VOLUME   440640.870 3760467.090 195.64
LOCATION L0041251     VOLUME   440645.870 3760467.090 195.66
LOCATION L0041252     VOLUME   440650.870 3760467.090 195.68
LOCATION L0041253     VOLUME   440655.870 3760467.090 195.70
LOCATION L0041254     VOLUME   440660.870 3760467.090 195.72
LOCATION L0041255     VOLUME   440665.870 3760467.090 195.73
LOCATION L0041256     VOLUME   440670.870 3760467.090 195.76
LOCATION L0041257     VOLUME   440675.870 3760467.090 195.78
LOCATION L0041258     VOLUME   440680.870 3760467.090 195.81
LOCATION L0041259     VOLUME   440685.870 3760467.090 195.83
LOCATION L0041260     VOLUME   440690.870 3760467.090 195.85
LOCATION L0041261     VOLUME   440695.870 3760467.090 195.88
LOCATION L0041262     VOLUME   440700.870 3760467.090 195.90
LOCATION L0041263     VOLUME   440705.870 3760467.090 195.93
LOCATION L0041264     VOLUME   440710.870 3760467.090 195.95
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Merill Ave - Archibald Ave to Grove Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 0.0000437
** Vertical Dimension = 6.22
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LOCATION L0041859     VOLUME   444893.070 3760402.621 201.11
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LOCATION L0041861     VOLUME   444903.068 3760402.449 201.13
LOCATION L0041862     VOLUME   444908.067 3760402.363 201.17
LOCATION L0041863     VOLUME   444913.067 3760402.277 201.20
LOCATION L0041864     VOLUME   444918.066 3760402.191 201.23
LOCATION L0041865     VOLUME   444923.065 3760402.105 201.26
LOCATION L0041866     VOLUME   444928.064 3760402.019 201.30
LOCATION L0041867     VOLUME   444933.064 3760401.933 201.35
LOCATION L0041868     VOLUME   444938.063 3760401.847 201.40
LOCATION L0041869     VOLUME   444943.062 3760401.761 201.45
LOCATION L0041870     VOLUME   444948.061 3760401.675 201.50
LOCATION L0041871     VOLUME   444953.061 3760401.589 201.54
LOCATION L0041872     VOLUME   444958.060 3760401.503 201.57
LOCATION L0041873     VOLUME   444963.059 3760401.418 201.59
LOCATION L0041874     VOLUME   444968.059 3760401.332 201.62
LOCATION L0041875     VOLUME   444973.058 3760401.246 201.64
LOCATION L0041876     VOLUME   444978.057 3760401.160 201.66
LOCATION L0041877     VOLUME   444983.056 3760401.074 201.66
LOCATION L0041878     VOLUME   444988.056 3760400.988 201.66
LOCATION L0041879     VOLUME   444993.055 3760400.902 201.66
LOCATION L0041880     VOLUME   444998.054 3760400.816 201.66
LOCATION L0041881     VOLUME   445003.053 3760400.730 201.66
LOCATION L0041882     VOLUME   445008.053 3760400.644 201.66
LOCATION L0041883     VOLUME   445013.052 3760400.558 201.66
LOCATION L0041884     VOLUME   445018.051 3760400.472 201.66
LOCATION L0041885     VOLUME   445023.050 3760400.386 201.66
LOCATION L0041886     VOLUME   445028.050 3760400.300 201.66
LOCATION L0041887     VOLUME   445033.049 3760400.214 201.67
LOCATION L0041888     VOLUME   445038.048 3760400.128 201.67
LOCATION L0041889     VOLUME   445043.047 3760400.042 201.67
LOCATION L0041890     VOLUME   445048.047 3760399.956 201.68
LOCATION L0041891     VOLUME   445053.046 3760399.870 201.68
LOCATION L0041892     VOLUME   445058.045 3760399.785 201.67
LOCATION L0041893     VOLUME   445063.044 3760399.699 201.66
LOCATION L0041894     VOLUME   445068.044 3760399.613 201.65
LOCATION L0041895     VOLUME   445073.043 3760399.527 201.64
LOCATION L0041896     VOLUME   445078.042 3760399.441 201.63
LOCATION L0041897     VOLUME   445083.042 3760399.355 201.62
LOCATION L0041898     VOLUME   445088.041 3760399.269 201.60
LOCATION L0041899     VOLUME   445093.040 3760399.183 201.59
LOCATION L0041900     VOLUME   445098.039 3760399.097 201.57
LOCATION L0041901     VOLUME   445103.039 3760399.011 201.55
LOCATION L0041902     VOLUME   445108.038 3760398.925 201.57
LOCATION L0041903     VOLUME   445113.037 3760398.839 201.61
LOCATION L0041904     VOLUME   445118.036 3760398.753 201.66
LOCATION L0041905     VOLUME   445123.036 3760398.667 201.71
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   LOCATION L0041906     VOLUME   445128.035 3760398.581 201.75
   LOCATION L0041907     VOLUME   445133.034 3760398.495 201.78
   LOCATION L0041908     VOLUME   445138.033 3760398.409 201.76
   LOCATION L0041909     VOLUME   445143.033 3760398.323 201.75
   LOCATION L0041910     VOLUME   445148.032 3760398.237 201.73
   LOCATION L0041911     VOLUME   445153.029 3760398.316 201.72
   LOCATION L0041912     VOLUME   445158.026 3760398.511 201.70
   LOCATION L0041913     VOLUME   445163.022 3760398.707 201.64
   LOCATION L0041914     VOLUME   445168.018 3760398.902 201.58
   LOCATION L0041915     VOLUME   445173.014 3760399.097 201.52
   LOCATION L0041916     VOLUME   445178.010 3760399.293 201.45
   LOCATION L0041917     VOLUME   445183.006 3760399.488 201.39
   LOCATION L0041918     VOLUME   445188.003 3760399.684 201.37
   LOCATION L0041919     VOLUME   445192.999 3760399.879 201.35
** End of LINE VOLUME Source ID = SLINE5
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Merilll Ave - Campus Ave to PA 4 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 2.38E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440777.137, 3760467.056, 196.68, 3.66, 2.33
** 440991.318, 3760465.615, 197.60, 3.66, 2.33
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   LOCATION L0041920     VOLUME   440779.637 3760467.039 196.64
   LOCATION L0041921     VOLUME   440784.637 3760467.005 196.66
   LOCATION L0041922     VOLUME   440789.637 3760466.972 196.69
   LOCATION L0041923     VOLUME   440794.637 3760466.938 196.71
   LOCATION L0041924     VOLUME   440799.637 3760466.904 196.70
   LOCATION L0041925     VOLUME   440804.637 3760466.871 196.68
   LOCATION L0041926     VOLUME   440809.637 3760466.837 196.67
   LOCATION L0041927     VOLUME   440814.637 3760466.803 196.65
   LOCATION L0041928     VOLUME   440819.636 3760466.770 196.64
   LOCATION L0041929     VOLUME   440824.636 3760466.736 196.65
   LOCATION L0041930     VOLUME   440829.636 3760466.703 196.68
   LOCATION L0041931     VOLUME   440834.636 3760466.669 196.71
   LOCATION L0041932     VOLUME   440839.636 3760466.635 196.74
   LOCATION L0041933     VOLUME   440844.636 3760466.602 196.77
   LOCATION L0041934     VOLUME   440849.636 3760466.568 196.81
   LOCATION L0041935     VOLUME   440854.636 3760466.534 196.84
   LOCATION L0041936     VOLUME   440859.635 3760466.501 196.88
   LOCATION L0041937     VOLUME   440864.635 3760466.467 196.92
   LOCATION L0041938     VOLUME   440869.635 3760466.433 196.96
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   LOCATION L0041939     VOLUME   440874.635 3760466.400 197.00
   LOCATION L0041940     VOLUME   440879.635 3760466.366 197.05
   LOCATION L0041941     VOLUME   440884.635 3760466.333 197.10
   LOCATION L0041942     VOLUME   440889.635 3760466.299 197.15
   LOCATION L0041943     VOLUME   440894.635 3760466.265 197.20
   LOCATION L0041944     VOLUME   440899.635 3760466.232 197.25
   LOCATION L0041945     VOLUME   440904.634 3760466.198 197.30
   LOCATION L0041946     VOLUME   440909.634 3760466.164 197.35
   LOCATION L0041947     VOLUME   440914.634 3760466.131 197.39
   LOCATION L0041948     VOLUME   440919.634 3760466.097 197.44
   LOCATION L0041949     VOLUME   440924.634 3760466.063 197.48
   LOCATION L0041950     VOLUME   440929.634 3760466.030 197.50
   LOCATION L0041951     VOLUME   440934.634 3760465.996 197.52
   LOCATION L0041952     VOLUME   440939.634 3760465.963 197.54
   LOCATION L0041953     VOLUME   440944.634 3760465.929 197.55
   LOCATION L0041954     VOLUME   440949.633 3760465.895 197.57
   LOCATION L0041955     VOLUME   440954.633 3760465.862 197.58
   LOCATION L0041956     VOLUME   440959.633 3760465.828 197.59
   LOCATION L0041957     VOLUME   440964.633 3760465.794 197.60
   LOCATION L0041958     VOLUME   440969.633 3760465.761 197.61
   LOCATION L0041959     VOLUME   440974.633 3760465.727 197.61
   LOCATION L0041960     VOLUME   440979.633 3760465.693 197.64
   LOCATION L0041961     VOLUME   440984.633 3760465.660 197.67
   LOCATION L0041962     VOLUME   440989.633 3760465.626 197.69
** End of LINE VOLUME Source ID = SLINE13
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Merrill Ave - PA 4 Driveway to Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.86E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440992.011, 3760465.511, 197.60, 3.66, 2.33
** 441189.978, 3760466.341, 198.57, 3.66, 2.33
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   LOCATION L0041963     VOLUME   440994.511 3760465.522 197.72
   LOCATION L0041964     VOLUME   440999.511 3760465.543 197.74
   LOCATION L0041965     VOLUME   441004.511 3760465.564 197.77
   LOCATION L0041966     VOLUME   441009.511 3760465.585 197.80
   LOCATION L0041967     VOLUME   441014.511 3760465.606 197.83
   LOCATION L0041968     VOLUME   441019.511 3760465.627 197.86
   LOCATION L0041969     VOLUME   441024.511 3760465.647 197.89
   LOCATION L0041970     VOLUME   441029.511 3760465.668 197.91
   LOCATION L0041971     VOLUME   441034.511 3760465.689 197.94
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   LOCATION L0041972     VOLUME   441039.511 3760465.710 197.97
   LOCATION L0041973     VOLUME   441044.511 3760465.731 198.00
   LOCATION L0041974     VOLUME   441049.511 3760465.752 198.03
   LOCATION L0041975     VOLUME   441054.511 3760465.773 198.07
   LOCATION L0041976     VOLUME   441059.511 3760465.794 198.10
   LOCATION L0041977     VOLUME   441064.511 3760465.815 198.14
   LOCATION L0041978     VOLUME   441069.511 3760465.836 198.18
   LOCATION L0041979     VOLUME   441074.511 3760465.857 198.22
   LOCATION L0041980     VOLUME   441079.511 3760465.878 198.26
   LOCATION L0041981     VOLUME   441084.511 3760465.899 198.29
   LOCATION L0041982     VOLUME   441089.511 3760465.920 198.33
   LOCATION L0041983     VOLUME   441094.510 3760465.941 198.37
   LOCATION L0041984     VOLUME   441099.510 3760465.962 198.40
   LOCATION L0041985     VOLUME   441104.510 3760465.983 198.43
   LOCATION L0041986     VOLUME   441109.510 3760466.004 198.45
   LOCATION L0041987     VOLUME   441114.510 3760466.025 198.46
   LOCATION L0041988     VOLUME   441119.510 3760466.046 198.48
   LOCATION L0041989     VOLUME   441124.510 3760466.067 198.49
   LOCATION L0041990     VOLUME   441129.510 3760466.087 198.50
   LOCATION L0041991     VOLUME   441134.510 3760466.108 198.51
   LOCATION L0041992     VOLUME   441139.510 3760466.129 198.52
   LOCATION L0041993     VOLUME   441144.510 3760466.150 198.53
   LOCATION L0041994     VOLUME   441149.510 3760466.171 198.54
   LOCATION L0041995     VOLUME   441154.510 3760466.192 198.55
   LOCATION L0041996     VOLUME   441159.510 3760466.213 198.55
   LOCATION L0041997     VOLUME   441164.510 3760466.234 198.55
   LOCATION L0041998     VOLUME   441169.510 3760466.255 198.54
   LOCATION L0041999     VOLUME   441174.510 3760466.276 198.54
   LOCATION L0042000     VOLUME   441179.510 3760466.297 198.54
   LOCATION L0042001     VOLUME   441184.510 3760466.318 198.63
   LOCATION L0042002     VOLUME   441189.510 3760466.339 198.72
** End of LINE VOLUME Source ID = SLINE14
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC Merrill Ave - Bon View Ave to Driveway 7
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.22E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 441189.566, 3760466.219, 198.57, 3.66, 2.33
** 441226.937, 3760466.415, 198.66, 3.66, 2.33
** 441552.028, 3760466.314, 199.95, 3.66, 2.33
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   LOCATION L0042003     VOLUME   441192.066 3760466.232 198.77
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LOCATION L0042004     VOLUME   441197.066 3760466.259 198.87
LOCATION L0042005     VOLUME   441202.066 3760466.285 198.96
LOCATION L0042006     VOLUME   441207.066 3760466.311 199.02
LOCATION L0042007     VOLUME   441212.066 3760466.337 198.94
LOCATION L0042008     VOLUME   441217.065 3760466.364 198.86
LOCATION L0042009     VOLUME   441222.065 3760466.390 198.78
LOCATION L0042010     VOLUME   441227.065 3760466.415 198.70
LOCATION L0042011     VOLUME   441232.065 3760466.414 198.63
LOCATION L0042012     VOLUME   441237.065 3760466.412 198.63
LOCATION L0042013     VOLUME   441242.065 3760466.411 198.63
LOCATION L0042014     VOLUME   441247.065 3760466.409 198.64
LOCATION L0042015     VOLUME   441252.065 3760466.408 198.64
LOCATION L0042016     VOLUME   441257.065 3760466.406 198.64
LOCATION L0042017     VOLUME   441262.065 3760466.404 198.65
LOCATION L0042018     VOLUME   441267.065 3760466.403 198.66
LOCATION L0042019     VOLUME   441272.065 3760466.401 198.67
LOCATION L0042020     VOLUME   441277.065 3760466.400 198.68
LOCATION L0042021     VOLUME   441282.065 3760466.398 198.69
LOCATION L0042022     VOLUME   441287.065 3760466.397 198.71
LOCATION L0042023     VOLUME   441292.065 3760466.395 198.73
LOCATION L0042024     VOLUME   441297.065 3760466.394 198.75
LOCATION L0042025     VOLUME   441302.065 3760466.392 198.77
LOCATION L0042026     VOLUME   441307.065 3760466.390 198.79
LOCATION L0042027     VOLUME   441312.065 3760466.389 198.81
LOCATION L0042028     VOLUME   441317.065 3760466.387 198.84
LOCATION L0042029     VOLUME   441322.065 3760466.386 198.86
LOCATION L0042030     VOLUME   441327.065 3760466.384 198.88
LOCATION L0042031     VOLUME   441332.065 3760466.383 198.90
LOCATION L0042032     VOLUME   441337.065 3760466.381 198.92
LOCATION L0042033     VOLUME   441342.065 3760466.380 198.94
LOCATION L0042034     VOLUME   441347.065 3760466.378 198.96
LOCATION L0042035     VOLUME   441352.065 3760466.376 198.98
LOCATION L0042036     VOLUME   441357.065 3760466.375 198.99
LOCATION L0042037     VOLUME   441362.065 3760466.373 199.02
LOCATION L0042038     VOLUME   441367.065 3760466.372 199.05
LOCATION L0042039     VOLUME   441372.065 3760466.370 199.08
LOCATION L0042040     VOLUME   441377.065 3760466.369 199.11
LOCATION L0042041     VOLUME   441382.065 3760466.367 199.14
LOCATION L0042042     VOLUME   441387.065 3760466.366 199.17
LOCATION L0042043     VOLUME   441392.065 3760466.364 199.19
LOCATION L0042044     VOLUME   441397.065 3760466.362 199.21
LOCATION L0042045     VOLUME   441402.065 3760466.361 199.23
LOCATION L0042046     VOLUME   441407.065 3760466.359 199.25
LOCATION L0042047     VOLUME   441412.065 3760466.358 199.27
LOCATION L0042048     VOLUME   441417.065 3760466.356 199.28
LOCATION L0042049     VOLUME   441422.065 3760466.355 199.29
LOCATION L0042050     VOLUME   441427.065 3760466.353 199.30
LOCATION L0042051     VOLUME   441432.065 3760466.352 199.31
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   LOCATION L0042052     VOLUME   441437.065 3760466.350 199.32
   LOCATION L0042053     VOLUME   441442.065 3760466.348 199.32
   LOCATION L0042054     VOLUME   441447.065 3760466.347 199.32
   LOCATION L0042055     VOLUME   441452.065 3760466.345 199.33
   LOCATION L0042056     VOLUME   441457.065 3760466.344 199.33
   LOCATION L0042057     VOLUME   441462.065 3760466.342 199.33
   LOCATION L0042058     VOLUME   441467.065 3760466.341 199.39
   LOCATION L0042059     VOLUME   441472.065 3760466.339 199.45
   LOCATION L0042060     VOLUME   441477.065 3760466.338 199.51
   LOCATION L0042061     VOLUME   441482.065 3760466.336 199.58
   LOCATION L0042062     VOLUME   441487.065 3760466.335 199.64
   LOCATION L0042063     VOLUME   441492.065 3760466.333 199.67
   LOCATION L0042064     VOLUME   441497.065 3760466.331 199.70
   LOCATION L0042065     VOLUME   441502.065 3760466.330 199.72
   LOCATION L0042066     VOLUME   441507.065 3760466.328 199.75
   LOCATION L0042067     VOLUME   441512.065 3760466.327 199.77
   LOCATION L0042068     VOLUME   441517.065 3760466.325 199.79
   LOCATION L0042069     VOLUME   441522.065 3760466.324 199.81
   LOCATION L0042070     VOLUME   441527.065 3760466.322 199.83
   LOCATION L0042071     VOLUME   441532.065 3760466.321 199.85
   LOCATION L0042072     VOLUME   441537.065 3760466.319 199.87
   LOCATION L0042073     VOLUME   441542.065 3760466.317 199.88
   LOCATION L0042074     VOLUME   441547.065 3760466.316 199.90
** End of LINE VOLUME Source ID = SLINE15
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Merrill Ave - Driveway 7 to PA 5 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.39E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441549.056, 3760466.358, 199.93, 3.66, 2.33
** 441746.603, 3760467.302, 200.08, 3.66, 2.33
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   LOCATION L0042075     VOLUME   441551.556 3760466.370 199.91
   LOCATION L0042076     VOLUME   441556.556 3760466.394 199.92
   LOCATION L0042077     VOLUME   441561.556 3760466.418 199.93
   LOCATION L0042078     VOLUME   441566.556 3760466.442 199.94
   LOCATION L0042079     VOLUME   441571.556 3760466.466 199.95
   LOCATION L0042080     VOLUME   441576.556 3760466.490 199.95
   LOCATION L0042081     VOLUME   441581.556 3760466.514 199.96
   LOCATION L0042082     VOLUME   441586.556 3760466.538 199.96
   LOCATION L0042083     VOLUME   441591.556 3760466.561 199.97
   LOCATION L0042084     VOLUME   441596.556 3760466.585 199.98
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   LOCATION L0042085     VOLUME   441601.556 3760466.609 200.00
   LOCATION L0042086     VOLUME   441606.556 3760466.633 200.02
   LOCATION L0042087     VOLUME   441611.556 3760466.657 200.04
   LOCATION L0042088     VOLUME   441616.556 3760466.681 200.06
   LOCATION L0042089     VOLUME   441621.556 3760466.705 200.07
   LOCATION L0042090     VOLUME   441626.556 3760466.729 200.09
   LOCATION L0042091     VOLUME   441631.556 3760466.753 200.11
   LOCATION L0042092     VOLUME   441636.555 3760466.776 200.13
   LOCATION L0042093     VOLUME   441641.555 3760466.800 200.15
   LOCATION L0042094     VOLUME   441646.555 3760466.824 200.15
   LOCATION L0042095     VOLUME   441651.555 3760466.848 200.14
   LOCATION L0042096     VOLUME   441656.555 3760466.872 200.14
   LOCATION L0042097     VOLUME   441661.555 3760466.896 200.13
   LOCATION L0042098     VOLUME   441666.555 3760466.920 200.13
   LOCATION L0042099     VOLUME   441671.555 3760466.944 200.13
   LOCATION L0042100     VOLUME   441676.555 3760466.968 200.13
   LOCATION L0042101     VOLUME   441681.555 3760466.991 200.13
   LOCATION L0042102     VOLUME   441686.555 3760467.015 200.13
   LOCATION L0042103     VOLUME   441691.555 3760467.039 200.13
   LOCATION L0042104     VOLUME   441696.555 3760467.063 200.12
   LOCATION L0042105     VOLUME   441701.555 3760467.087 200.12
   LOCATION L0042106     VOLUME   441706.555 3760467.111 200.11
   LOCATION L0042107     VOLUME   441711.555 3760467.135 200.10
   LOCATION L0042108     VOLUME   441716.555 3760467.159 200.10
   LOCATION L0042109     VOLUME   441721.555 3760467.183 200.09
   LOCATION L0042110     VOLUME   441726.554 3760467.207 200.08
   LOCATION L0042111     VOLUME   441731.554 3760467.230 200.07
   LOCATION L0042112     VOLUME   441736.554 3760467.254 200.06
   LOCATION L0042113     VOLUME   441741.554 3760467.278 200.05
   LOCATION L0042114     VOLUME   441746.554 3760467.302 200.04
** End of LINE VOLUME Source ID = SLINE16
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Merrill Ave - PA 5 Driveway to Grove Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.16E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441747.949, 3760467.599, 200.08, 3.66, 2.33
** 441996.174, 3760466.514, 199.90, 3.66, 2.33
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   LOCATION L0042115     VOLUME   441750.449 3760467.588 200.04
   LOCATION L0042116     VOLUME   441755.449 3760467.566 200.04
   LOCATION L0042117     VOLUME   441760.449 3760467.544 200.04
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   LOCATION L0042118     VOLUME   441765.449 3760467.522 200.04
   LOCATION L0042119     VOLUME   441770.449 3760467.500 200.04
   LOCATION L0042120     VOLUME   441775.449 3760467.479 200.05
   LOCATION L0042121     VOLUME   441780.448 3760467.457 200.05
   LOCATION L0042122     VOLUME   441785.448 3760467.435 200.06
   LOCATION L0042123     VOLUME   441790.448 3760467.413 200.06
   LOCATION L0042124     VOLUME   441795.448 3760467.391 200.06
   LOCATION L0042125     VOLUME   441800.448 3760467.369 200.06
   LOCATION L0042126     VOLUME   441805.448 3760467.347 200.06
   LOCATION L0042127     VOLUME   441810.448 3760467.326 200.06
   LOCATION L0042128     VOLUME   441815.448 3760467.304 200.07
   LOCATION L0042129     VOLUME   441820.448 3760467.282 200.07
   LOCATION L0042130     VOLUME   441825.448 3760467.260 200.07
   LOCATION L0042131     VOLUME   441830.448 3760467.238 200.07
   LOCATION L0042132     VOLUME   441835.448 3760467.216 200.07
   LOCATION L0042133     VOLUME   441840.448 3760467.195 200.07
   LOCATION L0042134     VOLUME   441845.448 3760467.173 200.07
   LOCATION L0042135     VOLUME   441850.448 3760467.151 200.07
   LOCATION L0042136     VOLUME   441855.448 3760467.129 200.08
   LOCATION L0042137     VOLUME   441860.448 3760467.107 200.08
   LOCATION L0042138     VOLUME   441865.448 3760467.085 200.09
   LOCATION L0042139     VOLUME   441870.448 3760467.063 200.10
   LOCATION L0042140     VOLUME   441875.448 3760467.042 200.10
   LOCATION L0042141     VOLUME   441880.448 3760467.020 200.11
   LOCATION L0042142     VOLUME   441885.447 3760466.998 200.11
   LOCATION L0042143     VOLUME   441890.447 3760466.976 200.12
   LOCATION L0042144     VOLUME   441895.447 3760466.954 200.13
   LOCATION L0042145     VOLUME   441900.447 3760466.932 200.14
   LOCATION L0042146     VOLUME   441905.447 3760466.911 200.15
   LOCATION L0042147     VOLUME   441910.447 3760466.889 200.16
   LOCATION L0042148     VOLUME   441915.447 3760466.867 200.17
   LOCATION L0042149     VOLUME   441920.447 3760466.845 200.18
   LOCATION L0042150     VOLUME   441925.447 3760466.823 200.19
   LOCATION L0042151     VOLUME   441930.447 3760466.801 200.20
   LOCATION L0042152     VOLUME   441935.447 3760466.780 200.21
   LOCATION L0042153     VOLUME   441940.447 3760466.758 200.22
   LOCATION L0042154     VOLUME   441945.447 3760466.736 200.23
   LOCATION L0042155     VOLUME   441950.447 3760466.714 200.23
   LOCATION L0042156     VOLUME   441955.447 3760466.692 200.20
   LOCATION L0042157     VOLUME   441960.447 3760466.670 200.16
   LOCATION L0042158     VOLUME   441965.447 3760466.648 200.12
   LOCATION L0042159     VOLUME   441970.447 3760466.627 200.08
   LOCATION L0042160     VOLUME   441975.447 3760466.605 200.04
   LOCATION L0042161     VOLUME   441980.447 3760466.583 200.00
   LOCATION L0042162     VOLUME   441985.447 3760466.561 199.96
   LOCATION L0042163     VOLUME   441990.446 3760466.539 199.92
   LOCATION L0042164     VOLUME   441995.446 3760466.517 199.88
** End of LINE VOLUME Source ID = SLINE17
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Bon View Ave - Merrill Ave to PA 4 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.75E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 441189.788, 3760470.335, 198.63, 3.66, 2.33
** 441189.788, 3760529.541, 199.52, 3.66, 2.33
** 441190.787, 3760873.923, 201.31, 3.66, 2.33
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   LOCATION L0042165     VOLUME   441189.788 3760472.835 198.87
   LOCATION L0042166     VOLUME   441189.788 3760477.835 198.94
   LOCATION L0042167     VOLUME   441189.788 3760482.835 198.98
   LOCATION L0042168     VOLUME   441189.788 3760487.835 199.03
   LOCATION L0042169     VOLUME   441189.788 3760492.835 199.07
   LOCATION L0042170     VOLUME   441189.788 3760497.835 199.11
   LOCATION L0042171     VOLUME   441189.788 3760502.835 199.16
   LOCATION L0042172     VOLUME   441189.788 3760507.835 199.21
   LOCATION L0042173     VOLUME   441189.788 3760512.835 199.28
   LOCATION L0042174     VOLUME   441189.788 3760517.835 199.35
   LOCATION L0042175     VOLUME   441189.788 3760522.835 199.42
   LOCATION L0042176     VOLUME   441189.788 3760527.835 199.49
   LOCATION L0042177     VOLUME   441189.797 3760532.835 199.56
   LOCATION L0042178     VOLUME   441189.812 3760537.835 199.63
   LOCATION L0042179     VOLUME   441189.826 3760542.835 199.66
   LOCATION L0042180     VOLUME   441189.841 3760547.835 199.69
   LOCATION L0042181     VOLUME   441189.855 3760552.835 199.73
   LOCATION L0042182     VOLUME   441189.870 3760557.835 199.76
   LOCATION L0042183     VOLUME   441189.884 3760562.835 199.79
   LOCATION L0042184     VOLUME   441189.899 3760567.835 199.83
   LOCATION L0042185     VOLUME   441189.913 3760572.835 199.86
   LOCATION L0042186     VOLUME   441189.928 3760577.835 199.90
   LOCATION L0042187     VOLUME   441189.943 3760582.835 199.94
   LOCATION L0042188     VOLUME   441189.957 3760587.835 199.97
   LOCATION L0042189     VOLUME   441189.972 3760592.835 200.01
   LOCATION L0042190     VOLUME   441189.986 3760597.835 200.05
   LOCATION L0042191     VOLUME   441190.001 3760602.835 200.08
   LOCATION L0042192     VOLUME   441190.015 3760607.835 200.12
   LOCATION L0042193     VOLUME   441190.030 3760612.835 200.15
   LOCATION L0042194     VOLUME   441190.044 3760617.835 200.19
   LOCATION L0042195     VOLUME   441190.059 3760622.835 200.22
   LOCATION L0042196     VOLUME   441190.073 3760627.835 200.26
   LOCATION L0042197     VOLUME   441190.088 3760632.835 200.29
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LOCATION L0042198     VOLUME   441190.102 3760637.835 200.32
LOCATION L0042199     VOLUME   441190.117 3760642.835 200.35
LOCATION L0042200     VOLUME   441190.131 3760647.835 200.37
LOCATION L0042201     VOLUME   441190.146 3760652.835 200.40
LOCATION L0042202     VOLUME   441190.160 3760657.835 200.43
LOCATION L0042203     VOLUME   441190.175 3760662.835 200.46
LOCATION L0042204     VOLUME   441190.189 3760667.835 200.48
LOCATION L0042205     VOLUME   441190.204 3760672.834 200.51
LOCATION L0042206     VOLUME   441190.218 3760677.834 200.54
LOCATION L0042207     VOLUME   441190.233 3760682.834 200.56
LOCATION L0042208     VOLUME   441190.247 3760687.834 200.59
LOCATION L0042209     VOLUME   441190.262 3760692.834 200.62
LOCATION L0042210     VOLUME   441190.276 3760697.834 200.65
LOCATION L0042211     VOLUME   441190.291 3760702.834 200.68
LOCATION L0042212     VOLUME   441190.305 3760707.834 200.70
LOCATION L0042213     VOLUME   441190.320 3760712.834 200.73
LOCATION L0042214     VOLUME   441190.334 3760717.834 200.76
LOCATION L0042215     VOLUME   441190.349 3760722.834 200.79
LOCATION L0042216     VOLUME   441190.363 3760727.834 200.81
LOCATION L0042217     VOLUME   441190.378 3760732.834 200.83
LOCATION L0042218     VOLUME   441190.392 3760737.834 200.86
LOCATION L0042219     VOLUME   441190.407 3760742.834 200.88
LOCATION L0042220     VOLUME   441190.421 3760747.834 200.90
LOCATION L0042221     VOLUME   441190.436 3760752.834 200.93
LOCATION L0042222     VOLUME   441190.450 3760757.834 200.95
LOCATION L0042223     VOLUME   441190.465 3760762.834 200.98
LOCATION L0042224     VOLUME   441190.479 3760767.834 201.00
LOCATION L0042225     VOLUME   441190.494 3760772.834 201.03
LOCATION L0042226     VOLUME   441190.508 3760777.834 201.06
LOCATION L0042227     VOLUME   441190.523 3760782.834 201.08
LOCATION L0042228     VOLUME   441190.537 3760787.834 201.10
LOCATION L0042229     VOLUME   441190.552 3760792.834 201.12
LOCATION L0042230     VOLUME   441190.566 3760797.834 201.14
LOCATION L0042231     VOLUME   441190.581 3760802.834 201.16
LOCATION L0042232     VOLUME   441190.595 3760807.834 201.17
LOCATION L0042233     VOLUME   441190.610 3760812.834 201.19
LOCATION L0042234     VOLUME   441190.624 3760817.834 201.21
LOCATION L0042235     VOLUME   441190.639 3760822.834 201.23
LOCATION L0042236     VOLUME   441190.653 3760827.834 201.25
LOCATION L0042237     VOLUME   441190.668 3760832.834 201.27
LOCATION L0042238     VOLUME   441190.682 3760837.834 201.29
LOCATION L0042239     VOLUME   441190.697 3760842.834 201.32
LOCATION L0042240     VOLUME   441190.711 3760847.834 201.34
LOCATION L0042241     VOLUME   441190.726 3760852.834 201.35
LOCATION L0042242     VOLUME   441190.740 3760857.834 201.37
LOCATION L0042243     VOLUME   441190.755 3760862.834 201.39
LOCATION L0042244     VOLUME   441190.769 3760867.834 201.41
LOCATION L0042245     VOLUME   441190.784 3760872.834 201.43
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** End of LINE VOLUME Source ID = SLINE18
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE19
** DESCRSRC Bon View Ave - PA 4 Driveway to Driveway 1
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 4.68E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441190.698, 3760873.430, 201.31, 3.66, 2.33
** 441189.126, 3761142.593, 202.97, 3.66, 2.33
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   LOCATION L0042246     VOLUME   441190.683 3760875.930 201.44
   LOCATION L0042247     VOLUME   441190.654 3760880.930 201.47
   LOCATION L0042248     VOLUME   441190.625 3760885.930 201.50
   LOCATION L0042249     VOLUME   441190.596 3760890.930 201.53
   LOCATION L0042250     VOLUME   441190.567 3760895.930 201.56
   LOCATION L0042251     VOLUME   441190.537 3760900.930 201.59
   LOCATION L0042252     VOLUME   441190.508 3760905.930 201.62
   LOCATION L0042253     VOLUME   441190.479 3760910.930 201.66
   LOCATION L0042254     VOLUME   441190.450 3760915.930 201.69
   LOCATION L0042255     VOLUME   441190.421 3760920.930 201.73
   LOCATION L0042256     VOLUME   441190.391 3760925.929 201.76
   LOCATION L0042257     VOLUME   441190.362 3760930.929 201.80
   LOCATION L0042258     VOLUME   441190.333 3760935.929 201.83
   LOCATION L0042259     VOLUME   441190.304 3760940.929 201.86
   LOCATION L0042260     VOLUME   441190.274 3760945.929 201.89
   LOCATION L0042261     VOLUME   441190.245 3760950.929 201.93
   LOCATION L0042262     VOLUME   441190.216 3760955.929 201.96
   LOCATION L0042263     VOLUME   441190.187 3760960.929 201.99
   LOCATION L0042264     VOLUME   441190.158 3760965.929 202.02
   LOCATION L0042265     VOLUME   441190.128 3760970.929 202.05
   LOCATION L0042266     VOLUME   441190.099 3760975.929 202.08
   LOCATION L0042267     VOLUME   441190.070 3760980.929 202.11
   LOCATION L0042268     VOLUME   441190.041 3760985.928 202.14
   LOCATION L0042269     VOLUME   441190.012 3760990.928 202.17
   LOCATION L0042270     VOLUME   441189.982 3760995.928 202.20
   LOCATION L0042271     VOLUME   441189.953 3761000.928 202.23
   LOCATION L0042272     VOLUME   441189.924 3761005.928 202.27
   LOCATION L0042273     VOLUME   441189.895 3761010.928 202.30
   LOCATION L0042274     VOLUME   441189.866 3761015.928 202.34
   LOCATION L0042275     VOLUME   441189.836 3761020.928 202.38
   LOCATION L0042276     VOLUME   441189.807 3761025.928 202.42
   LOCATION L0042277     VOLUME   441189.778 3761030.928 202.45
   LOCATION L0042278     VOLUME   441189.749 3761035.928 202.49
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   LOCATION L0042279     VOLUME   441189.720 3761040.928 202.52
   LOCATION L0042280     VOLUME   441189.690 3761045.927 202.55
   LOCATION L0042281     VOLUME   441189.661 3761050.927 202.59
   LOCATION L0042282     VOLUME   441189.632 3761055.927 202.62
   LOCATION L0042283     VOLUME   441189.603 3761060.927 202.65
   LOCATION L0042284     VOLUME   441189.574 3761065.927 202.67
   LOCATION L0042285     VOLUME   441189.544 3761070.927 202.69
   LOCATION L0042286     VOLUME   441189.515 3761075.927 202.71
   LOCATION L0042287     VOLUME   441189.486 3761080.927 202.74
   LOCATION L0042288     VOLUME   441189.457 3761085.927 202.76
   LOCATION L0042289     VOLUME   441189.428 3761090.927 202.78
   LOCATION L0042290     VOLUME   441189.398 3761095.927 202.80
   LOCATION L0042291     VOLUME   441189.369 3761100.926 202.83
   LOCATION L0042292     VOLUME   441189.340 3761105.926 202.85
   LOCATION L0042293     VOLUME   441189.311 3761110.926 202.88
   LOCATION L0042294     VOLUME   441189.281 3761115.926 202.90
   LOCATION L0042295     VOLUME   441189.252 3761120.926 202.93
   LOCATION L0042296     VOLUME   441189.223 3761125.926 202.95
   LOCATION L0042297     VOLUME   441189.194 3761130.926 202.98
   LOCATION L0042298     VOLUME   441189.165 3761135.926 203.00
   LOCATION L0042299     VOLUME   441189.135 3761140.926 203.03
** End of LINE VOLUME Source ID = SLINE19
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE20
** DESCRSRC Bon View Ave - Driveway 1 to Eucalyptus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.41E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441189.027, 3761141.906, 202.97, 3.66, 2.33
** 441189.231, 3761269.136, 204.07, 3.66, 2.33
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   LOCATION L0042301     VOLUME   441189.039 3761149.406 203.07
   LOCATION L0042302     VOLUME   441189.047 3761154.406 203.10
   LOCATION L0042303     VOLUME   441189.055 3761159.406 203.13
   LOCATION L0042304     VOLUME   441189.063 3761164.406 203.16
   LOCATION L0042305     VOLUME   441189.071 3761169.406 203.19
   LOCATION L0042306     VOLUME   441189.079 3761174.406 203.22
   LOCATION L0042307     VOLUME   441189.087 3761179.406 203.25
   LOCATION L0042308     VOLUME   441189.095 3761184.406 203.29
   LOCATION L0042309     VOLUME   441189.103 3761189.406 203.32
   LOCATION L0042310     VOLUME   441189.111 3761194.406 203.35
   LOCATION L0042311     VOLUME   441189.119 3761199.406 203.38
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   LOCATION L0042312     VOLUME   441189.127 3761204.406 203.42
   LOCATION L0042313     VOLUME   441189.135 3761209.406 203.45
   LOCATION L0042314     VOLUME   441189.143 3761214.406 203.48
   LOCATION L0042315     VOLUME   441189.151 3761219.406 203.53
   LOCATION L0042316     VOLUME   441189.159 3761224.406 203.57
   LOCATION L0042317     VOLUME   441189.167 3761229.406 203.62
   LOCATION L0042318     VOLUME   441189.175 3761234.406 203.66
   LOCATION L0042319     VOLUME   441189.183 3761239.406 203.71
   LOCATION L0042320     VOLUME   441189.192 3761244.406 203.75
   LOCATION L0042321     VOLUME   441189.200 3761249.406 203.81
   LOCATION L0042322     VOLUME   441189.208 3761254.406 203.87
   LOCATION L0042323     VOLUME   441189.216 3761259.406 203.93
   LOCATION L0042324     VOLUME   441189.224 3761264.406 204.00
** End of LINE VOLUME Source ID = SLINE20
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE21
** DESCRSRC Grove Ave - Merrill Ave to Driveway 11
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.23E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 441995.174, 3760469.550, 199.90, 3.66, 2.33
** 441994.804, 3760521.346, 200.41, 3.66, 2.33
** 441995.215, 3760854.109, 202.59, 3.66, 2.33
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   LOCATION L0042326     VOLUME   441995.120 3760477.050 200.01
   LOCATION L0042327     VOLUME   441995.085 3760482.050 200.07
   LOCATION L0042328     VOLUME   441995.049 3760487.050 200.13
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   LOCATION L0042334     VOLUME   441994.835 3760517.049 200.40
   LOCATION L0042335     VOLUME   441994.805 3760522.049 200.43
   LOCATION L0042336     VOLUME   441994.811 3760527.049 200.47
   LOCATION L0042337     VOLUME   441994.817 3760532.049 200.50
   LOCATION L0042338     VOLUME   441994.823 3760537.049 200.52
   LOCATION L0042339     VOLUME   441994.830 3760542.049 200.55
   LOCATION L0042340     VOLUME   441994.836 3760547.049 200.58
   LOCATION L0042341     VOLUME   441994.842 3760552.049 200.60
   LOCATION L0042342     VOLUME   441994.848 3760557.049 200.63
   LOCATION L0042343     VOLUME   441994.854 3760562.049 200.65
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LOCATION L0042345     VOLUME   441994.867 3760572.049 200.70
LOCATION L0042346     VOLUME   441994.873 3760577.049 200.72
LOCATION L0042347     VOLUME   441994.879 3760582.049 200.75
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LOCATION L0042357     VOLUME   441994.941 3760632.049 201.04
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LOCATION L0042359     VOLUME   441994.953 3760642.049 201.11
LOCATION L0042360     VOLUME   441994.959 3760647.049 201.15
LOCATION L0042361     VOLUME   441994.965 3760652.049 201.18
LOCATION L0042362     VOLUME   441994.972 3760657.049 201.21
LOCATION L0042363     VOLUME   441994.978 3760662.049 201.25
LOCATION L0042364     VOLUME   441994.984 3760667.049 201.28
LOCATION L0042365     VOLUME   441994.990 3760672.049 201.32
LOCATION L0042366     VOLUME   441994.996 3760677.049 201.35
LOCATION L0042367     VOLUME   441995.002 3760682.049 201.38
LOCATION L0042368     VOLUME   441995.009 3760687.049 201.42
LOCATION L0042369     VOLUME   441995.015 3760692.049 201.46
LOCATION L0042370     VOLUME   441995.021 3760697.049 201.49
LOCATION L0042371     VOLUME   441995.027 3760702.049 201.53
LOCATION L0042372     VOLUME   441995.033 3760707.049 201.57
LOCATION L0042373     VOLUME   441995.039 3760712.049 201.61
LOCATION L0042374     VOLUME   441995.046 3760717.049 201.64
LOCATION L0042375     VOLUME   441995.052 3760722.049 201.68
LOCATION L0042376     VOLUME   441995.058 3760727.049 201.71
LOCATION L0042377     VOLUME   441995.064 3760732.049 201.75
LOCATION L0042378     VOLUME   441995.070 3760737.049 201.78
LOCATION L0042379     VOLUME   441995.077 3760742.049 201.82
LOCATION L0042380     VOLUME   441995.083 3760747.049 201.85
LOCATION L0042381     VOLUME   441995.089 3760752.049 201.89
LOCATION L0042382     VOLUME   441995.095 3760757.049 201.92
LOCATION L0042383     VOLUME   441995.101 3760762.049 201.96
LOCATION L0042384     VOLUME   441995.107 3760767.049 201.99
LOCATION L0042385     VOLUME   441995.114 3760772.049 202.03
LOCATION L0042386     VOLUME   441995.120 3760777.049 202.06
LOCATION L0042387     VOLUME   441995.126 3760782.049 202.08
LOCATION L0042388     VOLUME   441995.132 3760787.049 202.10
LOCATION L0042389     VOLUME   441995.138 3760792.049 202.13
LOCATION L0042390     VOLUME   441995.144 3760797.049 202.15
LOCATION L0042391     VOLUME   441995.151 3760802.049 202.17
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   LOCATION L0042392     VOLUME   441995.157 3760807.049 202.19
   LOCATION L0042393     VOLUME   441995.163 3760812.049 202.21
   LOCATION L0042394     VOLUME   441995.169 3760817.049 202.24
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   LOCATION L0042396     VOLUME   441995.181 3760827.049 202.30
   LOCATION L0042397     VOLUME   441995.188 3760832.049 202.33
   LOCATION L0042398     VOLUME   441995.194 3760837.049 202.36
   LOCATION L0042399     VOLUME   441995.200 3760842.049 202.40
   LOCATION L0042400     VOLUME   441995.206 3760847.049 202.43
   LOCATION L0042401     VOLUME   441995.212 3760852.049 202.47
** End of LINE VOLUME Source ID = SLINE21
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE22
** DESCRSRC Grove Ave - Driveway #11 to Driveway #9
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.45E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 7
** 441994.958, 3760853.741, 202.59, 3.66, 2.33
** 441994.358, 3761106.578, 204.17, 3.66, 2.33
** 441994.358, 3761250.177, 205.36, 3.66, 2.33
** 441994.358, 3761265.018, 205.35, 3.66, 2.33
** 441992.765, 3761269.907, 205.38, 3.66, 2.33
** 441980.470, 3761269.907, 205.50, 3.66, 2.33
** 441819.956, 3761270.745, 205.64, 3.66, 2.33
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   LOCATION L0042402     VOLUME   441994.952 3760856.241 202.50
   LOCATION L0042403     VOLUME   441994.940 3760861.241 202.54
   LOCATION L0042404     VOLUME   441994.928 3760866.241 202.57
   LOCATION L0042405     VOLUME   441994.916 3760871.241 202.61
   LOCATION L0042406     VOLUME   441994.904 3760876.241 202.64
   LOCATION L0042407     VOLUME   441994.892 3760881.241 202.68
   LOCATION L0042408     VOLUME   441994.881 3760886.241 202.71
   LOCATION L0042409     VOLUME   441994.869 3760891.241 202.74
   LOCATION L0042410     VOLUME   441994.857 3760896.241 202.77
   LOCATION L0042411     VOLUME   441994.845 3760901.241 202.81
   LOCATION L0042412     VOLUME   441994.833 3760906.241 202.85
   LOCATION L0042413     VOLUME   441994.821 3760911.241 202.89
   LOCATION L0042414     VOLUME   441994.809 3760916.241 202.93
   LOCATION L0042415     VOLUME   441994.798 3760921.241 202.97
   LOCATION L0042416     VOLUME   441994.786 3760926.241 203.01
   LOCATION L0042417     VOLUME   441994.774 3760931.241 203.05
   LOCATION L0042418     VOLUME   441994.762 3760936.241 203.09
   LOCATION L0042419     VOLUME   441994.750 3760941.241 203.12
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LOCATION L0042420     VOLUME   441994.738 3760946.241 203.16
LOCATION L0042421     VOLUME   441994.726 3760951.241 203.19
LOCATION L0042422     VOLUME   441994.714 3760956.241 203.23
LOCATION L0042423     VOLUME   441994.703 3760961.241 203.26
LOCATION L0042424     VOLUME   441994.691 3760966.241 203.29
LOCATION L0042425     VOLUME   441994.679 3760971.241 203.33
LOCATION L0042426     VOLUME   441994.667 3760976.241 203.36
LOCATION L0042427     VOLUME   441994.655 3760981.241 203.39
LOCATION L0042428     VOLUME   441994.643 3760986.241 203.42
LOCATION L0042429     VOLUME   441994.631 3760991.241 203.45
LOCATION L0042430     VOLUME   441994.619 3760996.241 203.49
LOCATION L0042431     VOLUME   441994.608 3761001.241 203.52
LOCATION L0042432     VOLUME   441994.596 3761006.241 203.56
LOCATION L0042433     VOLUME   441994.584 3761011.241 203.59
LOCATION L0042434     VOLUME   441994.572 3761016.241 203.63
LOCATION L0042435     VOLUME   441994.560 3761021.241 203.66
LOCATION L0042436     VOLUME   441994.548 3761026.241 203.69
LOCATION L0042437     VOLUME   441994.536 3761031.241 203.71
LOCATION L0042438     VOLUME   441994.525 3761036.241 203.73
LOCATION L0042439     VOLUME   441994.513 3761041.241 203.76
LOCATION L0042440     VOLUME   441994.501 3761046.241 203.78
LOCATION L0042441     VOLUME   441994.489 3761051.241 203.80
LOCATION L0042442     VOLUME   441994.477 3761056.241 203.82
LOCATION L0042443     VOLUME   441994.465 3761061.241 203.85
LOCATION L0042444     VOLUME   441994.453 3761066.241 203.88
LOCATION L0042445     VOLUME   441994.441 3761071.241 203.91
LOCATION L0042446     VOLUME   441994.430 3761076.241 203.94
LOCATION L0042447     VOLUME   441994.418 3761081.241 203.97
LOCATION L0042448     VOLUME   441994.406 3761086.241 204.00
LOCATION L0042449     VOLUME   441994.394 3761091.241 204.03
LOCATION L0042450     VOLUME   441994.382 3761096.241 204.06
LOCATION L0042451     VOLUME   441994.370 3761101.241 204.09
LOCATION L0042452     VOLUME   441994.358 3761106.241 204.12
LOCATION L0042453     VOLUME   441994.358 3761111.241 204.15
LOCATION L0042454     VOLUME   441994.358 3761116.241 204.18
LOCATION L0042455     VOLUME   441994.358 3761121.241 204.21
LOCATION L0042456     VOLUME   441994.358 3761126.241 204.24
LOCATION L0042457     VOLUME   441994.358 3761131.241 204.27
LOCATION L0042458     VOLUME   441994.358 3761136.241 204.30
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LOCATION L0042460     VOLUME   441994.358 3761146.241 204.37
LOCATION L0042461     VOLUME   441994.358 3761151.241 204.41
LOCATION L0042462     VOLUME   441994.358 3761156.241 204.45
LOCATION L0042463     VOLUME   441994.358 3761161.241 204.50
LOCATION L0042464     VOLUME   441994.358 3761166.241 204.54
LOCATION L0042465     VOLUME   441994.358 3761171.241 204.58
LOCATION L0042466     VOLUME   441994.358 3761176.241 204.63
LOCATION L0042467     VOLUME   441994.358 3761181.241 204.68
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LOCATION L0042468     VOLUME   441994.358 3761186.241 204.73
LOCATION L0042469     VOLUME   441994.358 3761191.241 204.79
LOCATION L0042470     VOLUME   441994.358 3761196.241 204.84
LOCATION L0042471     VOLUME   441994.358 3761201.241 204.90
LOCATION L0042472     VOLUME   441994.358 3761206.241 204.95
LOCATION L0042473     VOLUME   441994.358 3761211.241 205.00
LOCATION L0042474     VOLUME   441994.358 3761216.241 205.02
LOCATION L0042475     VOLUME   441994.358 3761221.241 205.05
LOCATION L0042476     VOLUME   441994.358 3761226.241 205.08
LOCATION L0042477     VOLUME   441994.358 3761231.241 205.10
LOCATION L0042478     VOLUME   441994.358 3761236.241 205.13
LOCATION L0042479     VOLUME   441994.358 3761241.241 205.16
LOCATION L0042480     VOLUME   441994.358 3761246.241 205.19
LOCATION L0042481     VOLUME   441994.358 3761251.241 205.22
LOCATION L0042482     VOLUME   441994.358 3761256.241 205.25
LOCATION L0042483     VOLUME   441994.358 3761261.241 205.28
LOCATION L0042484     VOLUME   441993.979 3761266.180 205.31
LOCATION L0042485     VOLUME   441991.684 3761269.907 205.36
LOCATION L0042486     VOLUME   441986.684 3761269.907 205.42
LOCATION L0042487     VOLUME   441981.684 3761269.907 205.48
LOCATION L0042488     VOLUME   441976.684 3761269.927 205.53
LOCATION L0042489     VOLUME   441971.684 3761269.953 205.58
LOCATION L0042490     VOLUME   441966.685 3761269.979 205.62
LOCATION L0042491     VOLUME   441961.685 3761270.005 205.66
LOCATION L0042492     VOLUME   441956.685 3761270.031 205.71
LOCATION L0042493     VOLUME   441951.685 3761270.057 205.72
LOCATION L0042494     VOLUME   441946.685 3761270.083 205.73
LOCATION L0042495     VOLUME   441941.685 3761270.110 205.74
LOCATION L0042496     VOLUME   441936.685 3761270.136 205.74
LOCATION L0042497     VOLUME   441931.685 3761270.162 205.75
LOCATION L0042498     VOLUME   441926.685 3761270.188 205.78
LOCATION L0042499     VOLUME   441921.685 3761270.214 205.82
LOCATION L0042500     VOLUME   441916.685 3761270.240 205.87
LOCATION L0042501     VOLUME   441911.685 3761270.266 205.92
LOCATION L0042502     VOLUME   441906.685 3761270.292 205.96
LOCATION L0042503     VOLUME   441901.685 3761270.318 205.99
LOCATION L0042504     VOLUME   441896.686 3761270.345 206.00
LOCATION L0042505     VOLUME   441891.686 3761270.371 206.00
LOCATION L0042506     VOLUME   441886.686 3761270.397 206.01
LOCATION L0042507     VOLUME   441881.686 3761270.423 206.01
LOCATION L0042508     VOLUME   441876.686 3761270.449 206.01
LOCATION L0042509     VOLUME   441871.686 3761270.475 206.00
LOCATION L0042510     VOLUME   441866.686 3761270.501 206.00
LOCATION L0042511     VOLUME   441861.686 3761270.527 205.99
LOCATION L0042512     VOLUME   441856.686 3761270.554 205.98
LOCATION L0042513     VOLUME   441851.686 3761270.580 205.96
LOCATION L0042514     VOLUME   441846.686 3761270.606 205.90
LOCATION L0042515     VOLUME   441841.686 3761270.632 205.84
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   LOCATION L0042516     VOLUME   441836.686 3761270.658 205.78
   LOCATION L0042517     VOLUME   441831.686 3761270.684 205.72
   LOCATION L0042518     VOLUME   441826.686 3761270.710 205.65
   LOCATION L0042519     VOLUME   441821.687 3761270.736 205.63
** End of LINE VOLUME Source ID = SLINE22
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE23
** DESCRSRC Eucalyptus Ave - Bon View Ave to Driveway #4
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.75E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441188.940, 3761269.592, 204.07, 3.66, 2.33
** 441370.765, 3761270.242, 204.91, 3.66, 2.33
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   LOCATION L0042520     VOLUME   441191.440 3761269.601 204.08
   LOCATION L0042521     VOLUME   441196.440 3761269.618 204.13
   LOCATION L0042522     VOLUME   441201.440 3761269.636 204.19
   LOCATION L0042523     VOLUME   441206.440 3761269.654 204.24
   LOCATION L0042524     VOLUME   441211.440 3761269.672 204.29
   LOCATION L0042525     VOLUME   441216.440 3761269.690 204.30
   LOCATION L0042526     VOLUME   441221.440 3761269.708 204.32
   LOCATION L0042527     VOLUME   441226.440 3761269.726 204.34
   LOCATION L0042528     VOLUME   441231.440 3761269.744 204.36
   LOCATION L0042529     VOLUME   441236.440 3761269.762 204.38
   LOCATION L0042530     VOLUME   441241.440 3761269.780 204.40
   LOCATION L0042531     VOLUME   441246.440 3761269.797 204.42
   LOCATION L0042532     VOLUME   441251.440 3761269.815 204.44
   LOCATION L0042533     VOLUME   441256.440 3761269.833 204.46
   LOCATION L0042534     VOLUME   441261.440 3761269.851 204.48
   LOCATION L0042535     VOLUME   441266.440 3761269.869 204.49
   LOCATION L0042536     VOLUME   441271.440 3761269.887 204.51
   LOCATION L0042537     VOLUME   441276.440 3761269.905 204.52
   LOCATION L0042538     VOLUME   441281.439 3761269.923 204.53
   LOCATION L0042539     VOLUME   441286.439 3761269.941 204.55
   LOCATION L0042540     VOLUME   441291.439 3761269.959 204.56
   LOCATION L0042541     VOLUME   441296.439 3761269.976 204.58
   LOCATION L0042542     VOLUME   441301.439 3761269.994 204.59
   LOCATION L0042543     VOLUME   441306.439 3761270.012 204.61
   LOCATION L0042544     VOLUME   441311.439 3761270.030 204.62
   LOCATION L0042545     VOLUME   441316.439 3761270.048 204.64
   LOCATION L0042546     VOLUME   441321.439 3761270.066 204.67
   LOCATION L0042547     VOLUME   441326.439 3761270.084 204.69
   LOCATION L0042548     VOLUME   441331.439 3761270.102 204.71
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   LOCATION L0042549     VOLUME   441336.439 3761270.120 204.73
   LOCATION L0042550     VOLUME   441341.439 3761270.138 204.75
   LOCATION L0042551     VOLUME   441346.439 3761270.155 204.77
   LOCATION L0042552     VOLUME   441351.439 3761270.173 204.79
   LOCATION L0042553     VOLUME   441356.439 3761270.191 204.81
   LOCATION L0042554     VOLUME   441361.439 3761270.209 204.82
   LOCATION L0042555     VOLUME   441366.439 3761270.227 204.85
** End of LINE VOLUME Source ID = SLINE23
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE24
** DESCRSRC Eucalyptus Ave - Driveway #4 to Driveway #6
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.45E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441367.749, 3761270.269, 204.92, 3.66, 2.33
** 441508.074, 3761269.949, 204.72, 3.66, 2.33
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   LOCATION L0042556     VOLUME   441370.249 3761270.263 204.87
   LOCATION L0042557     VOLUME   441375.249 3761270.252 204.90
   LOCATION L0042558     VOLUME   441380.249 3761270.240 204.92
   LOCATION L0042559     VOLUME   441385.249 3761270.229 204.95
   LOCATION L0042560     VOLUME   441390.249 3761270.218 204.98
   LOCATION L0042561     VOLUME   441395.249 3761270.206 204.99
   LOCATION L0042562     VOLUME   441400.249 3761270.195 205.01
   LOCATION L0042563     VOLUME   441405.249 3761270.183 205.02
   LOCATION L0042564     VOLUME   441410.249 3761270.172 205.04
   LOCATION L0042565     VOLUME   441415.249 3761270.161 205.05
   LOCATION L0042566     VOLUME   441420.249 3761270.149 205.05
   LOCATION L0042567     VOLUME   441425.249 3761270.138 205.05
   LOCATION L0042568     VOLUME   441430.249 3761270.126 205.04
   LOCATION L0042569     VOLUME   441435.249 3761270.115 205.04
   LOCATION L0042570     VOLUME   441440.249 3761270.104 205.03
   LOCATION L0042571     VOLUME   441445.249 3761270.092 204.99
   LOCATION L0042572     VOLUME   441450.249 3761270.081 204.94
   LOCATION L0042573     VOLUME   441455.249 3761270.069 204.88
   LOCATION L0042574     VOLUME   441460.249 3761270.058 204.82
   LOCATION L0042575     VOLUME   441465.249 3761270.046 204.76
   LOCATION L0042576     VOLUME   441470.249 3761270.035 204.69
   LOCATION L0042577     VOLUME   441475.249 3761270.024 204.62
   LOCATION L0042578     VOLUME   441480.249 3761270.012 204.54
   LOCATION L0042579     VOLUME   441485.249 3761270.001 204.46
   LOCATION L0042580     VOLUME   441490.249 3761269.989 204.39
   LOCATION L0042581     VOLUME   441495.249 3761269.978 204.39
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   LOCATION L0042582     VOLUME   441500.249 3761269.967 204.49
   LOCATION L0042583     VOLUME   441505.249 3761269.955 204.60
** End of LINE VOLUME Source ID = SLINE24
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE25
** DESCRSRC Eucalyptus Ave - Driveway #6 to Driveway #8
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.08E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441505.917, 3761269.946, 204.64, 3.66, 2.33
** 441658.896, 3761269.990, 205.41, 3.66, 2.33
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   LOCATION L0042584     VOLUME   441508.417 3761269.947 204.67
   LOCATION L0042585     VOLUME   441513.417 3761269.948 204.78
   LOCATION L0042586     VOLUME   441518.417 3761269.950 204.89
   LOCATION L0042587     VOLUME   441523.417 3761269.951 204.89
   LOCATION L0042588     VOLUME   441528.417 3761269.953 204.89
   LOCATION L0042589     VOLUME   441533.417 3761269.954 204.89
   LOCATION L0042590     VOLUME   441538.417 3761269.955 204.89
   LOCATION L0042591     VOLUME   441543.417 3761269.957 204.90
   LOCATION L0042592     VOLUME   441548.417 3761269.958 204.91
   LOCATION L0042593     VOLUME   441553.417 3761269.960 204.93
   LOCATION L0042594     VOLUME   441558.417 3761269.961 204.95
   LOCATION L0042595     VOLUME   441563.417 3761269.963 204.97
   LOCATION L0042596     VOLUME   441568.417 3761269.964 204.99
   LOCATION L0042597     VOLUME   441573.417 3761269.965 205.03
   LOCATION L0042598     VOLUME   441578.417 3761269.967 205.10
   LOCATION L0042599     VOLUME   441583.417 3761269.968 205.16
   LOCATION L0042600     VOLUME   441588.417 3761269.970 205.22
   LOCATION L0042601     VOLUME   441593.417 3761269.971 205.28
   LOCATION L0042602     VOLUME   441598.417 3761269.973 205.34
   LOCATION L0042603     VOLUME   441603.417 3761269.974 205.40
   LOCATION L0042604     VOLUME   441608.417 3761269.975 205.45
   LOCATION L0042605     VOLUME   441613.417 3761269.977 205.50
   LOCATION L0042606     VOLUME   441618.417 3761269.978 205.56
   LOCATION L0042607     VOLUME   441623.417 3761269.980 205.58
   LOCATION L0042608     VOLUME   441628.417 3761269.981 205.55
   LOCATION L0042609     VOLUME   441633.417 3761269.983 205.51
   LOCATION L0042610     VOLUME   441638.417 3761269.984 205.48
   LOCATION L0042611     VOLUME   441643.417 3761269.985 205.45
   LOCATION L0042612     VOLUME   441648.417 3761269.987 205.42
   LOCATION L0042613     VOLUME   441653.417 3761269.988 205.41
   LOCATION L0042614     VOLUME   441658.417 3761269.990 205.40
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** End of LINE VOLUME Source ID = SLINE25
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Eucalyptus Ave - Driveway #8 to Driveway #9
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.18E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441659.411, 3761270.258, 205.41, 3.66, 2.33
** 441819.475, 3761270.767, 205.64, 3.66, 2.33
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   LOCATION L0042615     VOLUME   441661.911 3761270.266 205.40
   LOCATION L0042616     VOLUME   441666.911 3761270.282 205.39
   LOCATION L0042617     VOLUME   441671.911 3761270.298 205.39
   LOCATION L0042618     VOLUME   441676.911 3761270.314 205.39
   LOCATION L0042619     VOLUME   441681.911 3761270.330 205.41
   LOCATION L0042620     VOLUME   441686.911 3761270.346 205.42
   LOCATION L0042621     VOLUME   441691.911 3761270.361 205.43
   LOCATION L0042622     VOLUME   441696.911 3761270.377 205.44
   LOCATION L0042623     VOLUME   441701.911 3761270.393 205.45
   LOCATION L0042624     VOLUME   441706.911 3761270.409 205.45
   LOCATION L0042625     VOLUME   441711.911 3761270.425 205.46
   LOCATION L0042626     VOLUME   441716.911 3761270.441 205.47
   LOCATION L0042627     VOLUME   441721.911 3761270.457 205.47
   LOCATION L0042628     VOLUME   441726.910 3761270.473 205.47
   LOCATION L0042629     VOLUME   441731.910 3761270.488 205.48
   LOCATION L0042630     VOLUME   441736.910 3761270.504 205.48
   LOCATION L0042631     VOLUME   441741.910 3761270.520 205.48
   LOCATION L0042632     VOLUME   441746.910 3761270.536 205.48
   LOCATION L0042633     VOLUME   441751.910 3761270.552 205.48
   LOCATION L0042634     VOLUME   441756.910 3761270.568 205.49
   LOCATION L0042635     VOLUME   441761.910 3761270.584 205.50
   LOCATION L0042636     VOLUME   441766.910 3761270.600 205.51
   LOCATION L0042637     VOLUME   441771.910 3761270.616 205.51
   LOCATION L0042638     VOLUME   441776.910 3761270.631 205.52
   LOCATION L0042639     VOLUME   441781.910 3761270.647 205.53
   LOCATION L0042640     VOLUME   441786.910 3761270.663 205.53
   LOCATION L0042641     VOLUME   441791.910 3761270.679 205.53
   LOCATION L0042642     VOLUME   441796.910 3761270.695 205.54
   LOCATION L0042643     VOLUME   441801.910 3761270.711 205.55
   LOCATION L0042644     VOLUME   441806.910 3761270.727 205.57
   LOCATION L0042645     VOLUME   441811.910 3761270.743 205.59
   LOCATION L0042646     VOLUME   441816.910 3761270.758 205.61
** End of LINE VOLUME Source ID = SLINE26
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Driveway 4
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.48E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441370.682, 3761269.731, 204.91, 3.66, 2.33
** 441372.563, 3761145.448, 203.68, 3.66, 2.33
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   LOCATION L0042647     VOLUME   441370.720 3761267.231 204.81
   LOCATION L0042648     VOLUME   441370.795 3761262.232 204.71
   LOCATION L0042649     VOLUME   441370.871 3761257.232 204.61
   LOCATION L0042650     VOLUME   441370.947 3761252.233 204.51
   LOCATION L0042651     VOLUME   441371.022 3761247.234 204.41
   LOCATION L0042652     VOLUME   441371.098 3761242.234 204.33
   LOCATION L0042653     VOLUME   441371.174 3761237.235 204.28
   LOCATION L0042654     VOLUME   441371.249 3761232.235 204.23
   LOCATION L0042655     VOLUME   441371.325 3761227.236 204.18
   LOCATION L0042656     VOLUME   441371.401 3761222.236 204.13
   LOCATION L0042657     VOLUME   441371.476 3761217.237 204.08
   LOCATION L0042658     VOLUME   441371.552 3761212.238 204.04
   LOCATION L0042659     VOLUME   441371.628 3761207.238 204.01
   LOCATION L0042660     VOLUME   441371.703 3761202.239 203.99
   LOCATION L0042661     VOLUME   441371.779 3761197.239 203.96
   LOCATION L0042662     VOLUME   441371.855 3761192.240 203.94
   LOCATION L0042663     VOLUME   441371.930 3761187.240 203.92
   LOCATION L0042664     VOLUME   441372.006 3761182.241 203.89
   LOCATION L0042665     VOLUME   441372.082 3761177.242 203.86
   LOCATION L0042666     VOLUME   441372.157 3761172.242 203.83
   LOCATION L0042667     VOLUME   441372.233 3761167.243 203.80
   LOCATION L0042668     VOLUME   441372.309 3761162.243 203.77
   LOCATION L0042669     VOLUME   441372.384 3761157.244 203.74
   LOCATION L0042670     VOLUME   441372.460 3761152.245 203.71
   LOCATION L0042671     VOLUME   441372.535 3761147.245 203.68
** End of LINE VOLUME Source ID = SLINE27
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Driveway 6
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.47E-07
```

```
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441508.279, 3761268.964, 204.73, 3.66, 2.33
** 441508.879, 3761144.904, 203.69, 3.66, 2.33
** ----------------------------------------------------------------
   LOCATION L0042672     VOLUME   441508.291 3761266.464 204.65
   LOCATION L0042673     VOLUME   441508.316 3761261.464 204.61
   LOCATION L0042674     VOLUME   441508.340 3761256.464 204.58
   LOCATION L0042675     VOLUME   441508.364 3761251.464 204.55
   LOCATION L0042676     VOLUME   441508.388 3761246.464 204.52
   LOCATION L0042677     VOLUME   441508.412 3761241.464 204.47
   LOCATION L0042678     VOLUME   441508.437 3761236.464 204.42
   LOCATION L0042679     VOLUME   441508.461 3761231.464 204.36
   LOCATION L0042680     VOLUME   441508.485 3761226.464 204.30
   LOCATION L0042681     VOLUME   441508.509 3761221.464 204.25
   LOCATION L0042682     VOLUME   441508.533 3761216.464 204.19
   LOCATION L0042683     VOLUME   441508.557 3761211.464 204.14
   LOCATION L0042684     VOLUME   441508.582 3761206.464 204.10
   LOCATION L0042685     VOLUME   441508.606 3761201.464 204.06
   LOCATION L0042686     VOLUME   441508.630 3761196.465 204.03
   LOCATION L0042687     VOLUME   441508.654 3761191.465 203.99
   LOCATION L0042688     VOLUME   441508.678 3761186.465 203.96
   LOCATION L0042689     VOLUME   441508.702 3761181.465 203.92
   LOCATION L0042690     VOLUME   441508.727 3761176.465 203.89
   LOCATION L0042691     VOLUME   441508.751 3761171.465 203.85
   LOCATION L0042692     VOLUME   441508.775 3761166.465 203.82
   LOCATION L0042693     VOLUME   441508.799 3761161.465 203.78
   LOCATION L0042694     VOLUME   441508.823 3761156.465 203.75
   LOCATION L0042695     VOLUME   441508.848 3761151.465 203.71
   LOCATION L0042696     VOLUME   441508.872 3761146.465 203.68
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Driveway 8
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.48E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441659.118, 3761269.215, 205.41, 3.66, 2.33
** 441659.907, 3761144.756, 203.99, 3.66, 2.33
** ----------------------------------------------------------------
   LOCATION L0042697     VOLUME   441659.133 3761266.715 205.37
   LOCATION L0042698     VOLUME   441659.165 3761261.715 205.33
```

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   LOCATION L0042699     VOLUME   441659.197 3761256.715 205.28
   LOCATION L0042700     VOLUME   441659.229 3761251.715 205.24
   LOCATION L0042701     VOLUME   441659.260 3761246.715 205.19
   LOCATION L0042702     VOLUME   441659.292 3761241.715 205.14
   LOCATION L0042703     VOLUME   441659.324 3761236.715 205.09
   LOCATION L0042704     VOLUME   441659.355 3761231.715 205.04
   LOCATION L0042705     VOLUME   441659.387 3761226.716 204.98
   LOCATION L0042706     VOLUME   441659.419 3761221.716 204.93
   LOCATION L0042707     VOLUME   441659.451 3761216.716 204.88
   LOCATION L0042708     VOLUME   441659.482 3761211.716 204.82
   LOCATION L0042709     VOLUME   441659.514 3761206.716 204.77
   LOCATION L0042710     VOLUME   441659.546 3761201.716 204.72
   LOCATION L0042711     VOLUME   441659.578 3761196.716 204.66
   LOCATION L0042712     VOLUME   441659.609 3761191.716 204.61
   LOCATION L0042713     VOLUME   441659.641 3761186.716 204.55
   LOCATION L0042714     VOLUME   441659.673 3761181.716 204.50
   LOCATION L0042715     VOLUME   441659.704 3761176.717 204.45
   LOCATION L0042716     VOLUME   441659.736 3761171.717 204.40
   LOCATION L0042717     VOLUME   441659.768 3761166.717 204.35
   LOCATION L0042718     VOLUME   441659.800 3761161.717 204.30
   LOCATION L0042719     VOLUME   441659.831 3761156.717 204.25
   LOCATION L0042720     VOLUME   441659.863 3761151.717 204.20
   LOCATION L0042721     VOLUME   441659.895 3761146.717 204.16
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Driveway 9
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.89E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441819.214, 3761269.765, 205.63, 3.66, 2.33
** 441818.253, 3761146.627, 204.42, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042722     VOLUME   441819.194 3761267.265 205.60
   LOCATION L0042723     VOLUME   441819.155 3761262.266 205.57
   LOCATION L0042724     VOLUME   441819.116 3761257.266 205.55
   LOCATION L0042725     VOLUME   441819.077 3761252.266 205.52
   LOCATION L0042726     VOLUME   441819.038 3761247.266 205.49
   LOCATION L0042727     VOLUME   441818.999 3761242.266 205.46
   LOCATION L0042728     VOLUME   441818.960 3761237.266 205.41
   LOCATION L0042729     VOLUME   441818.921 3761232.267 205.35
   LOCATION L0042730     VOLUME   441818.882 3761227.267 205.29
   LOCATION L0042731     VOLUME   441818.843 3761222.267 205.22
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   LOCATION L0042732     VOLUME   441818.804 3761217.267 205.16
   LOCATION L0042733     VOLUME   441818.765 3761212.267 205.10
   LOCATION L0042734     VOLUME   441818.726 3761207.267 205.04
   LOCATION L0042735     VOLUME   441818.687 3761202.267 204.99
   LOCATION L0042736     VOLUME   441818.648 3761197.268 204.93
   LOCATION L0042737     VOLUME   441818.609 3761192.268 204.88
   LOCATION L0042738     VOLUME   441818.570 3761187.268 204.82
   LOCATION L0042739     VOLUME   441818.531 3761182.268 204.77
   LOCATION L0042740     VOLUME   441818.492 3761177.268 204.72
   LOCATION L0042741     VOLUME   441818.453 3761172.268 204.68
   LOCATION L0042742     VOLUME   441818.414 3761167.269 204.63
   LOCATION L0042743     VOLUME   441818.375 3761162.269 204.59
   LOCATION L0042744     VOLUME   441818.336 3761157.269 204.55
   LOCATION L0042745     VOLUME   441818.297 3761152.269 204.50
   LOCATION L0042746     VOLUME   441818.258 3761147.269 204.45
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC On-Site Circulation - Driveway 11
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.99E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441962.653, 3760855.742, 202.78, 3.66, 2.33
** 441536.461, 3760857.831, 202.08, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042747     VOLUME   441960.153 3760855.754 202.73
   LOCATION L0042748     VOLUME   441955.153 3760855.778 202.78
   LOCATION L0042749     VOLUME   441950.153 3760855.803 202.79
   LOCATION L0042750     VOLUME   441945.153 3760855.827 202.77
   LOCATION L0042751     VOLUME   441940.153 3760855.852 202.75
   LOCATION L0042752     VOLUME   441935.153 3760855.876 202.72
   LOCATION L0042753     VOLUME   441930.153 3760855.901 202.70
   LOCATION L0042754     VOLUME   441925.153 3760855.926 202.67
   LOCATION L0042755     VOLUME   441920.153 3760855.950 202.64
   LOCATION L0042756     VOLUME   441915.153 3760855.975 202.61
   LOCATION L0042757     VOLUME   441910.153 3760855.999 202.58
   LOCATION L0042758     VOLUME   441905.153 3760856.024 202.55
   LOCATION L0042759     VOLUME   441900.153 3760856.048 202.52
   LOCATION L0042760     VOLUME   441895.153 3760856.073 202.50
   LOCATION L0042761     VOLUME   441890.153 3760856.097 202.47
   LOCATION L0042762     VOLUME   441885.153 3760856.122 202.45
   LOCATION L0042763     VOLUME   441880.154 3760856.146 202.42
   LOCATION L0042764     VOLUME   441875.154 3760856.171 202.40
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LOCATION L0042765     VOLUME   441870.154 3760856.195 202.38
LOCATION L0042766     VOLUME   441865.154 3760856.220 202.37
LOCATION L0042767     VOLUME   441860.154 3760856.244 202.36
LOCATION L0042768     VOLUME   441855.154 3760856.269 202.34
LOCATION L0042769     VOLUME   441850.154 3760856.293 202.33
LOCATION L0042770     VOLUME   441845.154 3760856.318 202.33
LOCATION L0042771     VOLUME   441840.154 3760856.342 202.34
LOCATION L0042772     VOLUME   441835.154 3760856.367 202.34
LOCATION L0042773     VOLUME   441830.154 3760856.391 202.34
LOCATION L0042774     VOLUME   441825.154 3760856.416 202.35
LOCATION L0042775     VOLUME   441820.154 3760856.440 202.35
LOCATION L0042776     VOLUME   441815.154 3760856.465 202.35
LOCATION L0042777     VOLUME   441810.154 3760856.489 202.35
LOCATION L0042778     VOLUME   441805.154 3760856.514 202.35
LOCATION L0042779     VOLUME   441800.154 3760856.538 202.35
LOCATION L0042780     VOLUME   441795.155 3760856.563 202.34
LOCATION L0042781     VOLUME   441790.155 3760856.587 202.34
LOCATION L0042782     VOLUME   441785.155 3760856.612 202.34
LOCATION L0042783     VOLUME   441780.155 3760856.636 202.33
LOCATION L0042784     VOLUME   441775.155 3760856.661 202.33
LOCATION L0042785     VOLUME   441770.155 3760856.685 202.32
LOCATION L0042786     VOLUME   441765.155 3760856.710 202.30
LOCATION L0042787     VOLUME   441760.155 3760856.735 202.28
LOCATION L0042788     VOLUME   441755.155 3760856.759 202.26
LOCATION L0042789     VOLUME   441750.155 3760856.784 202.24
LOCATION L0042790     VOLUME   441745.155 3760856.808 202.23
LOCATION L0042791     VOLUME   441740.155 3760856.833 202.21
LOCATION L0042792     VOLUME   441735.155 3760856.857 202.20
LOCATION L0042793     VOLUME   441730.155 3760856.882 202.19
LOCATION L0042794     VOLUME   441725.155 3760856.906 202.18
LOCATION L0042795     VOLUME   441720.155 3760856.931 202.17
LOCATION L0042796     VOLUME   441715.156 3760856.955 202.16
LOCATION L0042797     VOLUME   441710.156 3760856.980 202.15
LOCATION L0042798     VOLUME   441705.156 3760857.004 202.15
LOCATION L0042799     VOLUME   441700.156 3760857.029 202.14
LOCATION L0042800     VOLUME   441695.156 3760857.053 202.13
LOCATION L0042801     VOLUME   441690.156 3760857.078 202.12
LOCATION L0042802     VOLUME   441685.156 3760857.102 202.12
LOCATION L0042803     VOLUME   441680.156 3760857.127 202.11
LOCATION L0042804     VOLUME   441675.156 3760857.151 202.10
LOCATION L0042805     VOLUME   441670.156 3760857.176 202.09
LOCATION L0042806     VOLUME   441665.156 3760857.200 202.09
LOCATION L0042807     VOLUME   441660.156 3760857.225 202.09
LOCATION L0042808     VOLUME   441655.156 3760857.249 202.09
LOCATION L0042809     VOLUME   441650.156 3760857.274 202.09
LOCATION L0042810     VOLUME   441645.156 3760857.298 202.09
LOCATION L0042811     VOLUME   441640.156 3760857.323 202.09
LOCATION L0042812     VOLUME   441635.156 3760857.347 202.09
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   LOCATION L0042813     VOLUME   441630.157 3760857.372 202.10
   LOCATION L0042814     VOLUME   441625.157 3760857.396 202.10
   LOCATION L0042815     VOLUME   441620.157 3760857.421 202.11
   LOCATION L0042816     VOLUME   441615.157 3760857.445 202.07
   LOCATION L0042817     VOLUME   441610.157 3760857.470 202.03
   LOCATION L0042818     VOLUME   441605.157 3760857.494 201.98
   LOCATION L0042819     VOLUME   441600.157 3760857.519 201.94
   LOCATION L0042820     VOLUME   441595.157 3760857.544 201.89
   LOCATION L0042821     VOLUME   441590.157 3760857.568 201.85
   LOCATION L0042822     VOLUME   441585.157 3760857.593 201.80
   LOCATION L0042823     VOLUME   441580.157 3760857.617 201.75
   LOCATION L0042824     VOLUME   441575.157 3760857.642 201.70
   LOCATION L0042825     VOLUME   441570.157 3760857.666 201.65
   LOCATION L0042826     VOLUME   441565.157 3760857.691 201.67
   LOCATION L0042827     VOLUME   441560.157 3760857.715 201.76
   LOCATION L0042828     VOLUME   441555.157 3760857.740 201.85
   LOCATION L0042829     VOLUME   441550.158 3760857.764 201.94
   LOCATION L0042830     VOLUME   441545.158 3760857.789 202.04
   LOCATION L0042831     VOLUME   441540.158 3760857.813 202.08
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Driveway 1
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.7E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441191.229, 3761142.587, 202.97, 3.66, 2.33
** 441209.470, 3761142.929, 203.44, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042832     VOLUME   441193.728 3761142.634 203.12
   LOCATION L0042833     VOLUME   441198.727 3761142.727 203.21
   LOCATION L0042834     VOLUME   441203.726 3761142.821 203.30
   LOCATION L0042835     VOLUME   441208.725 3761142.915 203.39
** End of LINE VOLUME Source ID = SLINE32
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Driveway 7
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.81E-07
** Vertical Dimension = 6.22
```

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** SZINIT = 2.89
** Nodes = 3
** 441552.117, 3760467.647, 199.96, 3.66, 2.33
** 441552.105, 3760491.622, 199.66, 3.66, 2.33
** 441529.849, 3760518.857, 199.56, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042836     VOLUME   441552.116 3760470.147 199.95
   LOCATION L0042837     VOLUME   441552.113 3760475.147 199.96
   LOCATION L0042838     VOLUME   441552.111 3760480.147 199.88
   LOCATION L0042839     VOLUME   441552.108 3760485.147 199.81
   LOCATION L0042840     VOLUME   441552.106 3760490.147 199.73
   LOCATION L0042841     VOLUME   441549.874 3760494.352 199.68
   LOCATION L0042842     VOLUME   441546.710 3760498.223 199.63
   LOCATION L0042843     VOLUME   441543.546 3760502.095 199.59
   LOCATION L0042844     VOLUME   441540.383 3760505.967 199.58
   LOCATION L0042845     VOLUME   441537.219 3760509.838 199.58
   LOCATION L0042846     VOLUME   441534.055 3760513.710 199.56
   LOCATION L0042847     VOLUME   441530.891 3760517.581 199.55
** End of LINE VOLUME Source ID = SLINE33
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC PA 5 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 2.03E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441746.676, 3760470.154, 200.09, 3.66, 2.33
** 441746.703, 3760499.185, 200.01, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042848     VOLUME   441746.679 3760472.654 200.09
   LOCATION L0042849     VOLUME   441746.683 3760477.654 200.08
   LOCATION L0042850     VOLUME   441746.688 3760482.654 200.07
   LOCATION L0042851     VOLUME   441746.693 3760487.654 200.05
   LOCATION L0042852     VOLUME   441746.697 3760492.654 200.04
   LOCATION L0042853     VOLUME   441746.702 3760497.654 200.02
** End of LINE VOLUME Source ID = SLINE34
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC PA 4 Driveway - Campus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 2.58E-07
```

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** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441186.518, 3760874.815, 201.31, 3.66, 2.33
** 441138.711, 3760874.733, 201.46, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042854     VOLUME   441184.018 3760874.811 201.33
   LOCATION L0042855     VOLUME   441179.018 3760874.802 201.31
   LOCATION L0042856     VOLUME   441174.018 3760874.794 201.31
   LOCATION L0042857     VOLUME   441169.018 3760874.785 201.32
   LOCATION L0042858     VOLUME   441164.018 3760874.776 201.32
   LOCATION L0042859     VOLUME   441159.018 3760874.768 201.32
   LOCATION L0042860     VOLUME   441154.018 3760874.759 201.34
   LOCATION L0042861     VOLUME   441149.018 3760874.750 201.37
   LOCATION L0042862     VOLUME   441144.018 3760874.742 201.40
   LOCATION L0042863     VOLUME   441139.018 3760874.733 201.42
** End of LINE VOLUME Source ID = SLINE35
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC PA 4 Driveway - Merrill Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 6.02E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440992.050, 3760468.043, 197.63, 3.66, 2.33
** 440991.934, 3760506.772, 198.71, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0042864     VOLUME   440992.043 3760470.543 197.77
   LOCATION L0042865     VOLUME   440992.028 3760475.543 197.84
   LOCATION L0042866     VOLUME   440992.013 3760480.543 197.97
   LOCATION L0042867     VOLUME   440991.998 3760485.543 198.10
   LOCATION L0042868     VOLUME   440991.983 3760490.543 198.23
   LOCATION L0042869     VOLUME   440991.968 3760495.543 198.36
   LOCATION L0042870     VOLUME   440991.953 3760500.543 198.49
   LOCATION L0042871     VOLUME   440991.937 3760505.543 198.62
** End of LINE VOLUME Source ID = SLINE36
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Campus Ave - Merill Ave to PA 4 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 4.27E-06
```

```
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440778.565, 3760469.565, 196.71, 3.66, 2.33
** 440779.948, 3760845.054, 199.45, 3.66, 2.33
** ----------------------------------------------------------------
   LOCATION L0042872     VOLUME   440778.575 3760472.065 196.71
   LOCATION L0042873     VOLUME   440778.593 3760477.065 196.77
   LOCATION L0042874     VOLUME   440778.611 3760482.065 196.80
   LOCATION L0042875     VOLUME   440778.630 3760487.065 196.83
   LOCATION L0042876     VOLUME   440778.648 3760492.065 196.85
   LOCATION L0042877     VOLUME   440778.667 3760497.065 196.88
   LOCATION L0042878     VOLUME   440778.685 3760502.065 196.91
   LOCATION L0042879     VOLUME   440778.704 3760507.064 196.93
   LOCATION L0042880     VOLUME   440778.722 3760512.064 196.97
   LOCATION L0042881     VOLUME   440778.740 3760517.064 197.01
   LOCATION L0042882     VOLUME   440778.759 3760522.064 197.05
   LOCATION L0042883     VOLUME   440778.777 3760527.064 197.09
   LOCATION L0042884     VOLUME   440778.796 3760532.064 197.13
   LOCATION L0042885     VOLUME   440778.814 3760537.064 197.16
   LOCATION L0042886     VOLUME   440778.832 3760542.064 197.21
   LOCATION L0042887     VOLUME   440778.851 3760547.064 197.25
   LOCATION L0042888     VOLUME   440778.869 3760552.064 197.29
   LOCATION L0042889     VOLUME   440778.888 3760557.064 197.33
   LOCATION L0042890     VOLUME   440778.906 3760562.064 197.37
   LOCATION L0042891     VOLUME   440778.925 3760567.064 197.41
   LOCATION L0042892     VOLUME   440778.943 3760572.064 197.45
   LOCATION L0042893     VOLUME   440778.961 3760577.064 197.49
   LOCATION L0042894     VOLUME   440778.980 3760582.064 197.54
   LOCATION L0042895     VOLUME   440778.998 3760587.064 197.58
   LOCATION L0042896     VOLUME   440779.017 3760592.064 197.62
   LOCATION L0042897     VOLUME   440779.035 3760597.064 197.67
   LOCATION L0042898     VOLUME   440779.053 3760602.064 197.71
   LOCATION L0042899     VOLUME   440779.072 3760607.064 197.75
   LOCATION L0042900     VOLUME   440779.090 3760612.064 197.79
   LOCATION L0042901     VOLUME   440779.109 3760617.064 197.83
   LOCATION L0042902     VOLUME   440779.127 3760622.064 197.87
   LOCATION L0042903     VOLUME   440779.146 3760627.064 197.91
   LOCATION L0042904     VOLUME   440779.164 3760632.064 197.95
   LOCATION L0042905     VOLUME   440779.182 3760637.064 198.00
   LOCATION L0042906     VOLUME   440779.201 3760642.064 198.04
   LOCATION L0042907     VOLUME   440779.219 3760647.064 198.08
   LOCATION L0042908     VOLUME   440779.238 3760652.064 198.13
   LOCATION L0042909     VOLUME   440779.256 3760657.063 198.17
   LOCATION L0042910     VOLUME   440779.274 3760662.063 198.22
   LOCATION L0042911     VOLUME   440779.293 3760667.063 198.26
   LOCATION L0042912     VOLUME   440779.311 3760672.063 198.31
   LOCATION L0042913     VOLUME   440779.330 3760677.063 198.35
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   LOCATION L0042914     VOLUME   440779.348 3760682.063 198.40
   LOCATION L0042915     VOLUME   440779.367 3760687.063 198.44
   LOCATION L0042916     VOLUME   440779.385 3760692.063 198.49
   LOCATION L0042917     VOLUME   440779.403 3760697.063 198.53
   LOCATION L0042918     VOLUME   440779.422 3760702.063 198.57
   LOCATION L0042919     VOLUME   440779.440 3760707.063 198.60
   LOCATION L0042920     VOLUME   440779.459 3760712.063 198.64
   LOCATION L0042921     VOLUME   440779.477 3760717.063 198.68
   LOCATION L0042922     VOLUME   440779.495 3760722.063 198.71
   LOCATION L0042923     VOLUME   440779.514 3760727.063 198.75
   LOCATION L0042924     VOLUME   440779.532 3760732.063 198.78
   LOCATION L0042925     VOLUME   440779.551 3760737.063 198.81
   LOCATION L0042926     VOLUME   440779.569 3760742.063 198.84
   LOCATION L0042927     VOLUME   440779.588 3760747.063 198.87
   LOCATION L0042928     VOLUME   440779.606 3760752.063 198.91
   LOCATION L0042929     VOLUME   440779.624 3760757.063 198.96
   LOCATION L0042930     VOLUME   440779.643 3760762.063 199.05
   LOCATION L0042931     VOLUME   440779.661 3760767.063 199.13
   LOCATION L0042932     VOLUME   440779.680 3760772.063 199.22
   LOCATION L0042933     VOLUME   440779.698 3760777.063 199.31
   LOCATION L0042934     VOLUME   440779.716 3760782.063 199.39
   LOCATION L0042935     VOLUME   440779.735 3760787.063 199.46
   LOCATION L0042936     VOLUME   440779.753 3760792.063 199.47
   LOCATION L0042937     VOLUME   440779.772 3760797.063 199.49
   LOCATION L0042938     VOLUME   440779.790 3760802.062 199.50
   LOCATION L0042939     VOLUME   440779.808 3760807.062 199.51
   LOCATION L0042940     VOLUME   440779.827 3760812.062 199.53
   LOCATION L0042941     VOLUME   440779.845 3760817.062 199.54
   LOCATION L0042942     VOLUME   440779.864 3760822.062 199.52
   LOCATION L0042943     VOLUME   440779.882 3760827.062 199.51
   LOCATION L0042944     VOLUME   440779.901 3760832.062 199.50
   LOCATION L0042945     VOLUME   440779.919 3760837.062 199.49
   LOCATION L0042946     VOLUME   440779.937 3760842.062 199.47
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Campus Ave - PA 4 Driveway to PA 3 Driveway
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.36E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440779.580, 3760844.831, 199.44, 3.66, 2.33
** 440779.840, 3761143.700, 202.02, 3.66, 2.33
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LOCATION L0042947     VOLUME   440779.582 3760847.331 199.46
LOCATION L0042948     VOLUME   440779.587 3760852.331 199.49
LOCATION L0042949     VOLUME   440779.591 3760857.331 199.52
LOCATION L0042950     VOLUME   440779.595 3760862.331 199.55
LOCATION L0042951     VOLUME   440779.600 3760867.331 199.58
LOCATION L0042952     VOLUME   440779.604 3760872.331 199.62
LOCATION L0042953     VOLUME   440779.609 3760877.331 199.65
LOCATION L0042954     VOLUME   440779.613 3760882.331 199.68
LOCATION L0042955     VOLUME   440779.617 3760887.331 199.72
LOCATION L0042956     VOLUME   440779.622 3760892.331 199.76
LOCATION L0042957     VOLUME   440779.626 3760897.331 199.80
LOCATION L0042958     VOLUME   440779.630 3760902.331 199.83
LOCATION L0042959     VOLUME   440779.635 3760907.331 199.87
LOCATION L0042960     VOLUME   440779.639 3760912.331 199.91
LOCATION L0042961     VOLUME   440779.643 3760917.331 199.95
LOCATION L0042962     VOLUME   440779.648 3760922.331 199.98
LOCATION L0042963     VOLUME   440779.652 3760927.331 200.02
LOCATION L0042964     VOLUME   440779.656 3760932.331 200.06
LOCATION L0042965     VOLUME   440779.661 3760937.331 200.10
LOCATION L0042966     VOLUME   440779.665 3760942.331 200.13
LOCATION L0042967     VOLUME   440779.669 3760947.331 200.17
LOCATION L0042968     VOLUME   440779.674 3760952.331 200.21
LOCATION L0042969     VOLUME   440779.678 3760957.331 200.24
LOCATION L0042970     VOLUME   440779.682 3760962.331 200.28
LOCATION L0042971     VOLUME   440779.687 3760967.331 200.32
LOCATION L0042972     VOLUME   440779.691 3760972.331 200.36
LOCATION L0042973     VOLUME   440779.695 3760977.331 200.39
LOCATION L0042974     VOLUME   440779.700 3760982.331 200.43
LOCATION L0042975     VOLUME   440779.704 3760987.331 200.47
LOCATION L0042976     VOLUME   440779.708 3760992.331 200.51
LOCATION L0042977     VOLUME   440779.713 3760997.331 200.55
LOCATION L0042978     VOLUME   440779.717 3761002.331 200.59
LOCATION L0042979     VOLUME   440779.721 3761007.331 200.63
LOCATION L0042980     VOLUME   440779.726 3761012.331 200.66
LOCATION L0042981     VOLUME   440779.730 3761017.331 200.70
LOCATION L0042982     VOLUME   440779.734 3761022.331 200.74
LOCATION L0042983     VOLUME   440779.739 3761027.331 200.78
LOCATION L0042984     VOLUME   440779.743 3761032.331 200.81
LOCATION L0042985     VOLUME   440779.747 3761037.331 200.85
LOCATION L0042986     VOLUME   440779.752 3761042.331 200.89
LOCATION L0042987     VOLUME   440779.756 3761047.331 200.93
LOCATION L0042988     VOLUME   440779.760 3761052.331 200.97
LOCATION L0042989     VOLUME   440779.765 3761057.331 201.01
LOCATION L0042990     VOLUME   440779.769 3761062.331 201.05
LOCATION L0042991     VOLUME   440779.773 3761067.331 201.09
LOCATION L0042992     VOLUME   440779.778 3761072.331 201.13
LOCATION L0042993     VOLUME   440779.782 3761077.331 201.17
LOCATION L0042994     VOLUME   440779.786 3761082.331 201.21
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   LOCATION L0042995     VOLUME   440779.791 3761087.331 201.25
   LOCATION L0042996     VOLUME   440779.795 3761092.331 201.29
   LOCATION L0042997     VOLUME   440779.799 3761097.331 201.33
   LOCATION L0042998     VOLUME   440779.804 3761102.331 201.38
   LOCATION L0042999     VOLUME   440779.808 3761107.331 201.43
   LOCATION L0043000     VOLUME   440779.812 3761112.331 201.47
   LOCATION L0043001     VOLUME   440779.817 3761117.331 201.52
   LOCATION L0043002     VOLUME   440779.821 3761122.331 201.56
   LOCATION L0043003     VOLUME   440779.825 3761127.331 201.61
   LOCATION L0043004     VOLUME   440779.830 3761132.331 201.67
   LOCATION L0043005     VOLUME   440779.834 3761137.331 201.72
   LOCATION L0043006     VOLUME   440779.838 3761142.331 201.78
** End of LINE VOLUME Source ID = SLINE38
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
** DESCRSRC Campus Ave - PA 3 Driveway to Eucalyptus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.69E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440779.648, 3761144.185, 202.03, 3.66, 2.33
** 440779.529, 3761266.902, 203.58, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043007     VOLUME   440779.645 3761146.685 201.83
   LOCATION L0043008     VOLUME   440779.641 3761151.685 201.88
   LOCATION L0043009     VOLUME   440779.636 3761156.685 201.94
   LOCATION L0043010     VOLUME   440779.631 3761161.685 201.99
   LOCATION L0043011     VOLUME   440779.626 3761166.685 202.05
   LOCATION L0043012     VOLUME   440779.621 3761171.685 202.10
   LOCATION L0043013     VOLUME   440779.616 3761176.685 202.15
   LOCATION L0043014     VOLUME   440779.611 3761181.685 202.21
   LOCATION L0043015     VOLUME   440779.607 3761186.685 202.26
   LOCATION L0043016     VOLUME   440779.602 3761191.685 202.33
   LOCATION L0043017     VOLUME   440779.597 3761196.685 202.39
   LOCATION L0043018     VOLUME   440779.592 3761201.685 202.45
   LOCATION L0043019     VOLUME   440779.587 3761206.685 202.51
   LOCATION L0043020     VOLUME   440779.582 3761211.685 202.58
   LOCATION L0043021     VOLUME   440779.577 3761216.685 202.64
   LOCATION L0043022     VOLUME   440779.573 3761221.685 202.72
   LOCATION L0043023     VOLUME   440779.568 3761226.685 202.81
   LOCATION L0043024     VOLUME   440779.563 3761231.685 202.90
   LOCATION L0043025     VOLUME   440779.558 3761236.685 202.99
   LOCATION L0043026     VOLUME   440779.553 3761241.685 203.07
   LOCATION L0043027     VOLUME   440779.548 3761246.685 203.16
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   LOCATION L0043028     VOLUME   440779.543 3761251.685 203.25
   LOCATION L0043029     VOLUME   440779.539 3761256.685 203.35
   LOCATION L0043030     VOLUME   440779.534 3761261.685 203.44
   LOCATION L0043031     VOLUME   440779.529 3761266.685 203.54
** End of LINE VOLUME Source ID = SLINE39
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC Eucalyptus Ave - Campus Ave to PA 3 Driveway (Eucalyptus Ave)
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 2.25E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440779.198, 3761269.224, 203.65, 3.66, 2.33
** 440942.586, 3761268.039, 204.11, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043032     VOLUME   440781.698 3761269.206 203.59
   LOCATION L0043033     VOLUME   440786.698 3761269.170 203.59
   LOCATION L0043034     VOLUME   440791.698 3761269.133 203.59
   LOCATION L0043035     VOLUME   440796.698 3761269.097 203.59
   LOCATION L0043036     VOLUME   440801.698 3761269.061 203.60
   LOCATION L0043037     VOLUME   440806.698 3761269.025 203.62
   LOCATION L0043038     VOLUME   440811.697 3761268.988 203.63
   LOCATION L0043039     VOLUME   440816.697 3761268.952 203.64
   LOCATION L0043040     VOLUME   440821.697 3761268.916 203.66
   LOCATION L0043041     VOLUME   440826.697 3761268.879 203.68
   LOCATION L0043042     VOLUME   440831.697 3761268.843 203.72
   LOCATION L0043043     VOLUME   440836.697 3761268.807 203.77
   LOCATION L0043044     VOLUME   440841.697 3761268.771 203.81
   LOCATION L0043045     VOLUME   440846.697 3761268.734 203.86
   LOCATION L0043046     VOLUME   440851.696 3761268.698 203.90
   LOCATION L0043047     VOLUME   440856.696 3761268.662 203.91
   LOCATION L0043048     VOLUME   440861.696 3761268.626 203.93
   LOCATION L0043049     VOLUME   440866.696 3761268.589 203.94
   LOCATION L0043050     VOLUME   440871.696 3761268.553 203.95
   LOCATION L0043051     VOLUME   440876.696 3761268.517 203.96
   LOCATION L0043052     VOLUME   440881.696 3761268.481 203.98
   LOCATION L0043053     VOLUME   440886.695 3761268.444 203.99
   LOCATION L0043054     VOLUME   440891.695 3761268.408 204.00
   LOCATION L0043055     VOLUME   440896.695 3761268.372 204.01
   LOCATION L0043056     VOLUME   440901.695 3761268.336 204.02
   LOCATION L0043057     VOLUME   440906.695 3761268.299 204.04
   LOCATION L0043058     VOLUME   440911.695 3761268.263 204.05
   LOCATION L0043059     VOLUME   440916.695 3761268.227 204.06
   LOCATION L0043060     VOLUME   440921.695 3761268.191 204.07
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   LOCATION L0043061     VOLUME   440926.694 3761268.154 204.08
   LOCATION L0043062     VOLUME   440931.694 3761268.118 204.09
   LOCATION L0043063     VOLUME   440936.694 3761268.082 204.09
   LOCATION L0043064     VOLUME   440941.694 3761268.045 204.09
** End of LINE VOLUME Source ID = SLINE40
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC Eucalyptus Ave - PA 3 Driveway to Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 3.39E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440942.599, 3761268.120, 204.11, 3.66, 2.33
** 441189.790, 3761269.451, 204.07, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043065     VOLUME   440945.099 3761268.133 204.09
   LOCATION L0043066     VOLUME   440950.099 3761268.160 204.09
   LOCATION L0043067     VOLUME   440955.099 3761268.187 204.09
   LOCATION L0043068     VOLUME   440960.098 3761268.214 204.10
   LOCATION L0043069     VOLUME   440965.098 3761268.241 204.10
   LOCATION L0043070     VOLUME   440970.098 3761268.268 204.11
   LOCATION L0043071     VOLUME   440975.098 3761268.295 204.11
   LOCATION L0043072     VOLUME   440980.098 3761268.322 204.12
   LOCATION L0043073     VOLUME   440985.098 3761268.349 204.13
   LOCATION L0043074     VOLUME   440990.098 3761268.376 204.15
   LOCATION L0043075     VOLUME   440995.098 3761268.402 204.16
   LOCATION L0043076     VOLUME   441000.098 3761268.429 204.18
   LOCATION L0043077     VOLUME   441005.098 3761268.456 204.20
   LOCATION L0043078     VOLUME   441010.098 3761268.483 204.20
   LOCATION L0043079     VOLUME   441015.098 3761268.510 204.20
   LOCATION L0043080     VOLUME   441020.098 3761268.537 204.20
   LOCATION L0043081     VOLUME   441025.098 3761268.564 204.20
   LOCATION L0043082     VOLUME   441030.097 3761268.591 204.20
   LOCATION L0043083     VOLUME   441035.097 3761268.618 204.19
   LOCATION L0043084     VOLUME   441040.097 3761268.645 204.17
   LOCATION L0043085     VOLUME   441045.097 3761268.672 204.15
   LOCATION L0043086     VOLUME   441050.097 3761268.699 204.13
   LOCATION L0043087     VOLUME   441055.097 3761268.725 204.11
   LOCATION L0043088     VOLUME   441060.097 3761268.752 204.09
   LOCATION L0043089     VOLUME   441065.097 3761268.779 204.08
   LOCATION L0043090     VOLUME   441070.097 3761268.806 204.06
   LOCATION L0043091     VOLUME   441075.097 3761268.833 204.05
   LOCATION L0043092     VOLUME   441080.097 3761268.860 204.03
   LOCATION L0043093     VOLUME   441085.097 3761268.887 204.02
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   LOCATION L0043094     VOLUME   441090.097 3761268.914 204.01
   LOCATION L0043095     VOLUME   441095.097 3761268.941 204.01
   LOCATION L0043096     VOLUME   441100.096 3761268.968 204.00
   LOCATION L0043097     VOLUME   441105.096 3761268.995 203.99
   LOCATION L0043098     VOLUME   441110.096 3761269.022 204.00
   LOCATION L0043099     VOLUME   441115.096 3761269.048 204.01
   LOCATION L0043100     VOLUME   441120.096 3761269.075 204.03
   LOCATION L0043101     VOLUME   441125.096 3761269.102 204.04
   LOCATION L0043102     VOLUME   441130.096 3761269.129 204.06
   LOCATION L0043103     VOLUME   441135.096 3761269.156 204.07
   LOCATION L0043104     VOLUME   441140.096 3761269.183 204.08
   LOCATION L0043105     VOLUME   441145.096 3761269.210 204.09
   LOCATION L0043106     VOLUME   441150.096 3761269.237 204.10
   LOCATION L0043107     VOLUME   441155.096 3761269.264 204.10
   LOCATION L0043108     VOLUME   441160.096 3761269.291 204.11
   LOCATION L0043109     VOLUME   441165.096 3761269.318 204.09
   LOCATION L0043110     VOLUME   441170.095 3761269.344 204.07
   LOCATION L0043111     VOLUME   441175.095 3761269.371 204.05
   LOCATION L0043112     VOLUME   441180.095 3761269.398 204.04
   LOCATION L0043113     VOLUME   441185.095 3761269.425 204.02
** End of LINE VOLUME Source ID = SLINE41
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE42
** DESCRSRC PA 3 Driveway - Bon View Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.83E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441186.476, 3761151.616, 203.01, 3.66, 2.33
** 441133.863, 3761152.910, 202.93, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043114     VOLUME   441183.977 3761151.677 203.00
   LOCATION L0043115     VOLUME   441178.979 3761151.800 202.96
   LOCATION L0043116     VOLUME   441173.980 3761151.923 202.92
   LOCATION L0043117     VOLUME   441168.982 3761152.046 202.88
   LOCATION L0043118     VOLUME   441163.983 3761152.169 202.84
   LOCATION L0043119     VOLUME   441158.985 3761152.292 202.80
   LOCATION L0043120     VOLUME   441153.986 3761152.415 202.82
   LOCATION L0043121     VOLUME   441148.988 3761152.538 202.85
   LOCATION L0043122     VOLUME   441143.989 3761152.661 202.87
   LOCATION L0043123     VOLUME   441138.991 3761152.784 202.90
   LOCATION L0043124     VOLUME   441133.992 3761152.907 202.92
** End of LINE VOLUME Source ID = SLINE42
** ----------------------------------------------------------------------
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE43
** DESCRSRC PA 3 Driveway - Eucalyptus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 8.96E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440943.428, 3761267.210, 204.11, 3.66, 2.33
** 440943.697, 3761234.532, 204.08, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043125     VOLUME   440943.449 3761264.710 204.09
   LOCATION L0043126     VOLUME   440943.490 3761259.710 204.08
   LOCATION L0043127     VOLUME   440943.531 3761254.710 204.07
   LOCATION L0043128     VOLUME   440943.572 3761249.711 204.06
   LOCATION L0043129     VOLUME   440943.613 3761244.711 204.07
   LOCATION L0043130     VOLUME   440943.655 3761239.711 204.10
   LOCATION L0043131     VOLUME   440943.696 3761234.711 204.13
** End of LINE VOLUME Source ID = SLINE43
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE44
** DESCRSRC PA 3 Driveway - Campus Ave
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 1.02E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440782.168, 3761145.495, 202.04, 3.66, 2.33
** 440813.786, 3761145.259, 202.21, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043132     VOLUME   440784.668 3761145.476 201.87
   LOCATION L0043133     VOLUME   440789.668 3761145.439 201.93
   LOCATION L0043134     VOLUME   440794.668 3761145.402 201.99
   LOCATION L0043135     VOLUME   440799.667 3761145.364 202.04
   LOCATION L0043136     VOLUME   440804.667 3761145.327 202.10
   LOCATION L0043137     VOLUME   440809.667 3761145.289 202.16
** End of LINE VOLUME Source ID = SLINE44
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE45
** DESCRSRC PA 4 Driveway - Campus Ave
** PREFIX
** Length of Side = 5.00
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** Configuration = Adjacent
** Emission Rate = 2.58E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440782.053, 3760845.530, 199.47, 3.66, 2.33
** 440820.788, 3760845.246, 199.74, 3.66, 2.33
** ----------------------------------------------------------------------
   LOCATION L0043138     VOLUME   440784.553 3760845.511 199.50
   LOCATION L0043139     VOLUME   440789.553 3760845.475 199.53
   LOCATION L0043140     VOLUME   440794.553 3760845.438 199.56
   LOCATION L0043141     VOLUME   440799.553 3760845.402 199.60
   LOCATION L0043142     VOLUME   440804.553 3760845.365 199.63
   LOCATION L0043143     VOLUME   440809.552 3760845.329 199.65
   LOCATION L0043144     VOLUME   440814.552 3760845.292 199.68
   LOCATION L0043145     VOLUME   440819.552 3760845.255 199.71
** End of LINE VOLUME Source ID = SLINE45
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE46
** DESCRSRC On-site Circulation - Blgs 4-8 and Bldg 2
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
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   LOCATION L0043437     VOLUME   441296.636 3760503.889 198.21
   LOCATION L0043438     VOLUME   441301.634 3760503.750 198.23
   LOCATION L0043439     VOLUME   441306.633 3760503.611 198.26
   LOCATION L0043440     VOLUME   441311.631 3760503.472 198.28
   LOCATION L0043441     VOLUME   441316.629 3760503.333 198.30
   LOCATION L0043442     VOLUME   441321.627 3760503.194 198.31
   LOCATION L0043443     VOLUME   441326.625 3760503.055 198.33
   LOCATION L0043444     VOLUME   441331.623 3760502.917 198.35
   LOCATION L0043445     VOLUME   441336.621 3760502.778 198.37
   LOCATION L0043446     VOLUME   441341.619 3760502.639 198.39
   LOCATION L0043447     VOLUME   441346.617 3760502.500 198.41
   LOCATION L0043448     VOLUME   441351.615 3760502.361 198.43
   LOCATION L0043449     VOLUME   441356.613 3760502.222 198.45
   LOCATION L0043450     VOLUME   441361.611 3760502.084 198.47
   LOCATION L0043451     VOLUME   441366.609 3760501.945 198.49
   LOCATION L0043452     VOLUME   441371.607 3760501.806 198.51
** End of LINE VOLUME Source ID = SLINE47
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE48
** DESCRSRC On-Site Circulation - Bldg 1 EAST
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.21E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 11
** 441373.370, 3760501.936, 198.55, 3.66, 2.33
** 441413.187, 3760501.261, 198.75, 3.66, 2.33
** 441437.929, 3760501.261, 198.79, 3.66, 2.33
** 441457.991, 3760501.261, 198.99, 3.66, 2.33
** 441474.374, 3760501.595, 199.28, 3.66, 2.33
** 441497.445, 3760501.261, 199.62, 3.66, 2.33
** 441506.807, 3760501.261, 199.47, 3.66, 2.33
** 441515.285, 3760503.229, 199.42, 3.66, 2.33
** 441522.931, 3760510.375, 199.48, 3.66, 2.33
** 441529.101, 3760523.517, 199.58, 3.66, 2.33
** 441531.237, 3761139.936, 203.72, 3.66, 2.33
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   LOCATION L0043453     VOLUME   441375.869 3760501.893 198.53
   LOCATION L0043454     VOLUME   441380.869 3760501.809 198.55
   LOCATION L0043455     VOLUME   441385.868 3760501.724 198.57
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LOCATION L0043456     VOLUME   441390.867 3760501.639 198.61
LOCATION L0043457     VOLUME   441395.867 3760501.554 198.66
LOCATION L0043458     VOLUME   441400.866 3760501.470 198.70
LOCATION L0043459     VOLUME   441405.865 3760501.385 198.75
LOCATION L0043460     VOLUME   441410.864 3760501.300 198.79
LOCATION L0043461     VOLUME   441415.864 3760501.261 198.80
LOCATION L0043462     VOLUME   441420.864 3760501.261 198.81
LOCATION L0043463     VOLUME   441425.864 3760501.261 198.82
LOCATION L0043464     VOLUME   441430.864 3760501.261 198.83
LOCATION L0043465     VOLUME   441435.864 3760501.261 198.83
LOCATION L0043466     VOLUME   441440.864 3760501.261 198.86
LOCATION L0043467     VOLUME   441445.864 3760501.261 198.89
LOCATION L0043468     VOLUME   441450.864 3760501.261 198.92
LOCATION L0043469     VOLUME   441455.864 3760501.261 198.95
LOCATION L0043470     VOLUME   441460.863 3760501.319 198.98
LOCATION L0043471     VOLUME   441465.862 3760501.421 199.07
LOCATION L0043472     VOLUME   441470.861 3760501.523 199.21
LOCATION L0043473     VOLUME   441475.861 3760501.574 199.35
LOCATION L0043474     VOLUME   441480.860 3760501.501 199.49
LOCATION L0043475     VOLUME   441485.859 3760501.429 199.63
LOCATION L0043476     VOLUME   441490.859 3760501.356 199.68
LOCATION L0043477     VOLUME   441495.858 3760501.284 199.64
LOCATION L0043478     VOLUME   441500.858 3760501.261 199.59
LOCATION L0043479     VOLUME   441505.858 3760501.261 199.54
LOCATION L0043480     VOLUME   441510.753 3760502.177 199.48
LOCATION L0043481     VOLUME   441515.539 3760503.466 199.44
LOCATION L0043482     VOLUME   441519.192 3760506.880 199.46
LOCATION L0043483     VOLUME   441522.845 3760510.294 199.48
LOCATION L0043484     VOLUME   441525.006 3760514.794 199.50
LOCATION L0043485     VOLUME   441527.131 3760519.320 199.52
LOCATION L0043486     VOLUME   441529.103 3760523.881 199.55
LOCATION L0043487     VOLUME   441529.120 3760528.881 199.55
LOCATION L0043488     VOLUME   441529.137 3760533.881 199.56
LOCATION L0043489     VOLUME   441529.155 3760538.880 199.61
LOCATION L0043490     VOLUME   441529.172 3760543.880 199.68
LOCATION L0043491     VOLUME   441529.189 3760548.880 199.74
LOCATION L0043492     VOLUME   441529.207 3760553.880 199.80
LOCATION L0043493     VOLUME   441529.224 3760558.880 199.86
LOCATION L0043494     VOLUME   441529.241 3760563.880 199.93
LOCATION L0043495     VOLUME   441529.259 3760568.880 199.95
LOCATION L0043496     VOLUME   441529.276 3760573.880 199.94
LOCATION L0043497     VOLUME   441529.293 3760578.880 199.94
LOCATION L0043498     VOLUME   441529.311 3760583.880 199.93
LOCATION L0043499     VOLUME   441529.328 3760588.880 199.93
LOCATION L0043500     VOLUME   441529.345 3760593.880 199.93
LOCATION L0043501     VOLUME   441529.362 3760598.880 199.94
LOCATION L0043502     VOLUME   441529.380 3760603.880 199.98
LOCATION L0043503     VOLUME   441529.397 3760608.880 200.02
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LOCATION L0043504     VOLUME   441529.414 3760613.880 200.06
LOCATION L0043505     VOLUME   441529.432 3760618.880 200.10
LOCATION L0043506     VOLUME   441529.449 3760623.880 200.14
LOCATION L0043507     VOLUME   441529.466 3760628.880 200.19
LOCATION L0043508     VOLUME   441529.484 3760633.880 200.26
LOCATION L0043509     VOLUME   441529.501 3760638.880 200.33
LOCATION L0043510     VOLUME   441529.518 3760643.880 200.40
LOCATION L0043511     VOLUME   441529.536 3760648.880 200.47
LOCATION L0043512     VOLUME   441529.553 3760653.880 200.54
LOCATION L0043513     VOLUME   441529.570 3760658.880 200.60
LOCATION L0043514     VOLUME   441529.588 3760663.880 200.61
LOCATION L0043515     VOLUME   441529.605 3760668.880 200.62
LOCATION L0043516     VOLUME   441529.622 3760673.880 200.64
LOCATION L0043517     VOLUME   441529.640 3760678.880 200.65
LOCATION L0043518     VOLUME   441529.657 3760683.880 200.66
LOCATION L0043519     VOLUME   441529.674 3760688.880 200.68
LOCATION L0043520     VOLUME   441529.692 3760693.880 200.72
LOCATION L0043521     VOLUME   441529.709 3760698.880 200.76
LOCATION L0043522     VOLUME   441529.726 3760703.880 200.79
LOCATION L0043523     VOLUME   441529.744 3760708.879 200.83
LOCATION L0043524     VOLUME   441529.761 3760713.879 200.87
LOCATION L0043525     VOLUME   441529.778 3760718.879 200.91
LOCATION L0043526     VOLUME   441529.796 3760723.879 200.93
LOCATION L0043527     VOLUME   441529.813 3760728.879 200.95
LOCATION L0043528     VOLUME   441529.830 3760733.879 200.96
LOCATION L0043529     VOLUME   441529.848 3760738.879 200.98
LOCATION L0043530     VOLUME   441529.865 3760743.879 200.99
LOCATION L0043531     VOLUME   441529.882 3760748.879 201.01
LOCATION L0043532     VOLUME   441529.900 3760753.879 201.04
LOCATION L0043533     VOLUME   441529.917 3760758.879 201.08
LOCATION L0043534     VOLUME   441529.934 3760763.879 201.13
LOCATION L0043535     VOLUME   441529.952 3760768.879 201.17
LOCATION L0043536     VOLUME   441529.969 3760773.879 201.21
LOCATION L0043537     VOLUME   441529.986 3760778.879 201.25
LOCATION L0043538     VOLUME   441530.004 3760783.879 201.31
LOCATION L0043539     VOLUME   441530.021 3760788.879 201.39
LOCATION L0043540     VOLUME   441530.038 3760793.879 201.47
LOCATION L0043541     VOLUME   441530.055 3760798.879 201.56
LOCATION L0043542     VOLUME   441530.073 3760803.879 201.64
LOCATION L0043543     VOLUME   441530.090 3760808.879 201.72
LOCATION L0043544     VOLUME   441530.107 3760813.879 201.77
LOCATION L0043545     VOLUME   441530.125 3760818.879 201.78
LOCATION L0043546     VOLUME   441530.142 3760823.879 201.78
LOCATION L0043547     VOLUME   441530.159 3760828.879 201.79
LOCATION L0043548     VOLUME   441530.177 3760833.879 201.79
LOCATION L0043549     VOLUME   441530.194 3760838.879 201.79
LOCATION L0043550     VOLUME   441530.211 3760843.879 201.81
LOCATION L0043551     VOLUME   441530.229 3760848.879 201.88
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LOCATION L0043552     VOLUME   441530.246 3760853.879 201.95
LOCATION L0043553     VOLUME   441530.263 3760858.879 202.02
LOCATION L0043554     VOLUME   441530.281 3760863.879 202.08
LOCATION L0043555     VOLUME   441530.298 3760868.879 202.15
LOCATION L0043556     VOLUME   441530.315 3760873.878 202.22
LOCATION L0043557     VOLUME   441530.333 3760878.878 202.21
LOCATION L0043558     VOLUME   441530.350 3760883.878 202.21
LOCATION L0043559     VOLUME   441530.367 3760888.878 202.21
LOCATION L0043560     VOLUME   441530.385 3760893.878 202.21
LOCATION L0043561     VOLUME   441530.402 3760898.878 202.21
LOCATION L0043562     VOLUME   441530.419 3760903.878 202.20
LOCATION L0043563     VOLUME   441530.437 3760908.878 202.22
LOCATION L0043564     VOLUME   441530.454 3760913.878 202.24
LOCATION L0043565     VOLUME   441530.471 3760918.878 202.25
LOCATION L0043566     VOLUME   441530.489 3760923.878 202.27
LOCATION L0043567     VOLUME   441530.506 3760928.878 202.29
LOCATION L0043568     VOLUME   441530.523 3760933.878 202.31
LOCATION L0043569     VOLUME   441530.541 3760938.878 202.33
LOCATION L0043570     VOLUME   441530.558 3760943.878 202.36
LOCATION L0043571     VOLUME   441530.575 3760948.878 202.39
LOCATION L0043572     VOLUME   441530.593 3760953.878 202.41
LOCATION L0043573     VOLUME   441530.610 3760958.878 202.44
LOCATION L0043574     VOLUME   441530.627 3760963.878 202.47
LOCATION L0043575     VOLUME   441530.645 3760968.878 202.50
LOCATION L0043576     VOLUME   441530.662 3760973.878 202.53
LOCATION L0043577     VOLUME   441530.679 3760978.878 202.56
LOCATION L0043578     VOLUME   441530.697 3760983.878 202.59
LOCATION L0043579     VOLUME   441530.714 3760988.878 202.61
LOCATION L0043580     VOLUME   441530.731 3760993.878 202.64
LOCATION L0043581     VOLUME   441530.748 3760998.878 202.67
LOCATION L0043582     VOLUME   441530.766 3761003.878 202.71
LOCATION L0043583     VOLUME   441530.783 3761008.878 202.74
LOCATION L0043584     VOLUME   441530.800 3761013.878 202.77
LOCATION L0043585     VOLUME   441530.818 3761018.878 202.81
LOCATION L0043586     VOLUME   441530.835 3761023.878 202.84
LOCATION L0043587     VOLUME   441530.852 3761028.878 202.87
LOCATION L0043588     VOLUME   441530.870 3761033.878 202.91
LOCATION L0043589     VOLUME   441530.887 3761038.877 202.94
LOCATION L0043590     VOLUME   441530.904 3761043.877 202.97
LOCATION L0043591     VOLUME   441530.922 3761048.877 203.01
LOCATION L0043592     VOLUME   441530.939 3761053.877 203.04
LOCATION L0043593     VOLUME   441530.956 3761058.877 203.08
LOCATION L0043594     VOLUME   441530.974 3761063.877 203.11
LOCATION L0043595     VOLUME   441530.991 3761068.877 203.14
LOCATION L0043596     VOLUME   441531.008 3761073.877 203.18
LOCATION L0043597     VOLUME   441531.026 3761078.877 203.21
LOCATION L0043598     VOLUME   441531.043 3761083.877 203.25
LOCATION L0043599     VOLUME   441531.060 3761088.877 203.28
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   LOCATION L0043600     VOLUME   441531.078 3761093.877 203.32
   LOCATION L0043601     VOLUME   441531.095 3761098.877 203.36
   LOCATION L0043602     VOLUME   441531.112 3761103.877 203.40
   LOCATION L0043603     VOLUME   441531.130 3761108.877 203.44
   LOCATION L0043604     VOLUME   441531.147 3761113.877 203.48
   LOCATION L0043605     VOLUME   441531.164 3761118.877 203.52
   LOCATION L0043606     VOLUME   441531.182 3761123.877 203.56
   LOCATION L0043607     VOLUME   441531.199 3761128.877 203.60
   LOCATION L0043608     VOLUME   441531.216 3761133.877 203.63
   LOCATION L0043609     VOLUME   441531.234 3761138.877 203.67
** End of LINE VOLUME Source ID = SLINE48
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE49
** DESCRSRC Idle - Building 4 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 1.01E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441256.979, 3761193.807, 203.77, 3.66, 1.40
** 441317.884, 3761194.373, 203.83, 3.66, 1.40
** ----------------------------------------------------------------------
   LOCATION L0043610     VOLUME   441258.479 3761193.821 203.87
   LOCATION L0043611     VOLUME   441261.479 3761193.849 203.87
   LOCATION L0043612     VOLUME   441264.479 3761193.877 203.88
   LOCATION L0043613     VOLUME   441267.479 3761193.905 203.88
   LOCATION L0043614     VOLUME   441270.479 3761193.933 203.88
   LOCATION L0043615     VOLUME   441273.479 3761193.961 203.88
   LOCATION L0043616     VOLUME   441276.479 3761193.989 203.88
   LOCATION L0043617     VOLUME   441279.478 3761194.016 203.88
   LOCATION L0043618     VOLUME   441282.478 3761194.044 203.88
   LOCATION L0043619     VOLUME   441285.478 3761194.072 203.89
   LOCATION L0043620     VOLUME   441288.478 3761194.100 203.89
   LOCATION L0043621     VOLUME   441291.478 3761194.128 203.89
   LOCATION L0043622     VOLUME   441294.478 3761194.156 203.89
   LOCATION L0043623     VOLUME   441297.478 3761194.184 203.89
   LOCATION L0043624     VOLUME   441300.477 3761194.212 203.89
   LOCATION L0043625     VOLUME   441303.477 3761194.239 203.89
   LOCATION L0043626     VOLUME   441306.477 3761194.267 203.89
   LOCATION L0043627     VOLUME   441309.477 3761194.295 203.89
   LOCATION L0043628     VOLUME   441312.477 3761194.323 203.89
   LOCATION L0043629     VOLUME   441315.477 3761194.351 203.89
** End of LINE VOLUME Source ID = SLINE49
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** Line Source Represented by Adjacent Volume Sources
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** LINE VOLUME Source ID = SLINE50
** DESCRSRC Idle - Building 5 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 1.01E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441416.126, 3761195.549, 203.84, 3.66, 1.40
** 441477.585, 3761195.215, 203.88, 3.66, 1.40
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   LOCATION L0043630     VOLUME   441417.626 3761195.541 203.92
   LOCATION L0043631     VOLUME   441420.626 3761195.525 203.93
   LOCATION L0043632     VOLUME   441423.626 3761195.509 203.93
   LOCATION L0043633     VOLUME   441426.626 3761195.492 203.93
   LOCATION L0043634     VOLUME   441429.626 3761195.476 203.93
   LOCATION L0043635     VOLUME   441432.626 3761195.460 203.93
   LOCATION L0043636     VOLUME   441435.626 3761195.443 203.94
   LOCATION L0043637     VOLUME   441438.626 3761195.427 203.94
   LOCATION L0043638     VOLUME   441441.626 3761195.411 203.94
   LOCATION L0043639     VOLUME   441444.626 3761195.394 203.94
   LOCATION L0043640     VOLUME   441447.626 3761195.378 203.94
   LOCATION L0043641     VOLUME   441450.626 3761195.361 203.95
   LOCATION L0043642     VOLUME   441453.626 3761195.345 203.95
   LOCATION L0043643     VOLUME   441456.626 3761195.329 203.95
   LOCATION L0043644     VOLUME   441459.626 3761195.312 203.95
   LOCATION L0043645     VOLUME   441462.625 3761195.296 203.95
   LOCATION L0043646     VOLUME   441465.625 3761195.280 203.95
   LOCATION L0043647     VOLUME   441468.625 3761195.263 203.96
   LOCATION L0043648     VOLUME   441471.625 3761195.247 203.96
   LOCATION L0043649     VOLUME   441474.625 3761195.231 203.97
** End of LINE VOLUME Source ID = SLINE50
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE51
** DESCRSRC Idle - Building 6 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 1.01E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441552.795, 3761194.592, 204.12, 3.66, 1.40
** 441618.096, 3761194.927, 204.71, 3.66, 1.40
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   LOCATION L0043650     VOLUME   441554.295 3761194.600 204.19
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   LOCATION L0043651     VOLUME   441557.295 3761194.615 204.22
   LOCATION L0043652     VOLUME   441560.295 3761194.631 204.25
   LOCATION L0043653     VOLUME   441563.295 3761194.646 204.28
   LOCATION L0043654     VOLUME   441566.295 3761194.661 204.31
   LOCATION L0043655     VOLUME   441569.295 3761194.677 204.34
   LOCATION L0043656     VOLUME   441572.295 3761194.692 204.36
   LOCATION L0043657     VOLUME   441575.294 3761194.708 204.39
   LOCATION L0043658     VOLUME   441578.294 3761194.723 204.42
   LOCATION L0043659     VOLUME   441581.294 3761194.738 204.45
   LOCATION L0043660     VOLUME   441584.294 3761194.754 204.47
   LOCATION L0043661     VOLUME   441587.294 3761194.769 204.50
   LOCATION L0043662     VOLUME   441590.294 3761194.784 204.53
   LOCATION L0043663     VOLUME   441593.294 3761194.800 204.56
   LOCATION L0043664     VOLUME   441596.294 3761194.815 204.59
   LOCATION L0043665     VOLUME   441599.294 3761194.831 204.61
   LOCATION L0043666     VOLUME   441602.294 3761194.846 204.64
   LOCATION L0043667     VOLUME   441605.294 3761194.861 204.67
   LOCATION L0043668     VOLUME   441608.294 3761194.877 204.70
   LOCATION L0043669     VOLUME   441611.294 3761194.892 204.73
   LOCATION L0043670     VOLUME   441614.294 3761194.908 204.76
   LOCATION L0043671     VOLUME   441617.294 3761194.923 204.79
** End of LINE VOLUME Source ID = SLINE51
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE52
** DESCRSRC Idle - Building 7 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 1.28E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441706.691, 3761196.147, 204.68, 3.66, 1.40
** 441772.731, 3761196.147, 204.68, 3.66, 1.40
** ----------------------------------------------------------------------
   LOCATION L0043672     VOLUME   441708.191 3761196.147 204.76
   LOCATION L0043673     VOLUME   441711.191 3761196.147 204.77
   LOCATION L0043674     VOLUME   441714.191 3761196.147 204.77
   LOCATION L0043675     VOLUME   441717.191 3761196.147 204.78
   LOCATION L0043676     VOLUME   441720.191 3761196.147 204.79
   LOCATION L0043677     VOLUME   441723.191 3761196.147 204.80
   LOCATION L0043678     VOLUME   441726.191 3761196.147 204.79
   LOCATION L0043679     VOLUME   441729.191 3761196.147 204.77
   LOCATION L0043680     VOLUME   441732.191 3761196.147 204.75
   LOCATION L0043681     VOLUME   441735.191 3761196.147 204.73
   LOCATION L0043682     VOLUME   441738.191 3761196.147 204.71
   LOCATION L0043683     VOLUME   441741.191 3761196.147 204.70
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   LOCATION L0043684     VOLUME   441744.191 3761196.147 204.68
   LOCATION L0043685     VOLUME   441747.191 3761196.147 204.66
   LOCATION L0043686     VOLUME   441750.191 3761196.147 204.65
   LOCATION L0043687     VOLUME   441753.191 3761196.147 204.67
   LOCATION L0043688     VOLUME   441756.191 3761196.147 204.69
   LOCATION L0043689     VOLUME   441759.191 3761196.147 204.71
   LOCATION L0043690     VOLUME   441762.191 3761196.147 204.73
   LOCATION L0043691     VOLUME   441765.191 3761196.147 204.74
   LOCATION L0043692     VOLUME   441768.191 3761196.147 204.76
   LOCATION L0043693     VOLUME   441771.191 3761196.147 204.78
** End of LINE VOLUME Source ID = SLINE52
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE53
** DESCRSRC Idle - Building 8 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 1.01E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 441877.413, 3761193.808, 204.31, 3.66, 1.40
** 441940.039, 3761194.143, 204.98, 3.66, 1.40
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   LOCATION L0043694     VOLUME   441878.913 3761193.816 204.33
   LOCATION L0043695     VOLUME   441881.913 3761193.833 204.36
   LOCATION L0043696     VOLUME   441884.912 3761193.849 204.39
   LOCATION L0043697     VOLUME   441887.912 3761193.865 204.42
   LOCATION L0043698     VOLUME   441890.912 3761193.881 204.45
   LOCATION L0043699     VOLUME   441893.912 3761193.897 204.48
   LOCATION L0043700     VOLUME   441896.912 3761193.913 204.51
   LOCATION L0043701     VOLUME   441899.912 3761193.929 204.54
   LOCATION L0043702     VOLUME   441902.912 3761193.945 204.57
   LOCATION L0043703     VOLUME   441905.912 3761193.961 204.62
   LOCATION L0043704     VOLUME   441908.912 3761193.977 204.67
   LOCATION L0043705     VOLUME   441911.912 3761193.993 204.72
   LOCATION L0043706     VOLUME   441914.912 3761194.009 204.77
   LOCATION L0043707     VOLUME   441917.912 3761194.025 204.82
   LOCATION L0043708     VOLUME   441920.912 3761194.041 204.87
   LOCATION L0043709     VOLUME   441923.912 3761194.057 204.92
   LOCATION L0043710     VOLUME   441926.912 3761194.073 204.97
   LOCATION L0043711     VOLUME   441929.912 3761194.089 205.02
   LOCATION L0043712     VOLUME   441932.912 3761194.105 205.05
   LOCATION L0043713     VOLUME   441935.912 3761194.121 205.08
   LOCATION L0043714     VOLUME   441938.912 3761194.137 205.11
** End of LINE VOLUME Source ID = SLINE53
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE54
** DESCRSRC Idle - Building 2 Loading Docks - North
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 5.48E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 441912.354, 3761085.999, 203.81, 3.66, 1.40
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   LOCATION L0043716     VOLUME   441629.070 3761087.748 204.04
   LOCATION L0043717     VOLUME   441632.070 3761087.729 204.02
   LOCATION L0043718     VOLUME   441635.070 3761087.711 204.00
   LOCATION L0043719     VOLUME   441638.070 3761087.692 203.98
   LOCATION L0043720     VOLUME   441641.070 3761087.674 203.96
   LOCATION L0043721     VOLUME   441644.070 3761087.655 203.94
   LOCATION L0043722     VOLUME   441647.070 3761087.637 203.92
   LOCATION L0043723     VOLUME   441650.070 3761087.618 203.90
   LOCATION L0043724     VOLUME   441653.070 3761087.600 203.89
   LOCATION L0043725     VOLUME   441656.070 3761087.581 203.87
   LOCATION L0043726     VOLUME   441659.070 3761087.563 203.85
   LOCATION L0043727     VOLUME   441662.070 3761087.544 203.84
   LOCATION L0043728     VOLUME   441665.070 3761087.525 203.82
   LOCATION L0043729     VOLUME   441668.070 3761087.507 203.80
   LOCATION L0043730     VOLUME   441671.070 3761087.488 203.78
   LOCATION L0043731     VOLUME   441674.070 3761087.470 203.74
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   LOCATION L0043733     VOLUME   441680.069 3761087.433 203.64
   LOCATION L0043734     VOLUME   441683.069 3761087.414 203.59
   LOCATION L0043735     VOLUME   441686.069 3761087.396 203.54
   LOCATION L0043736     VOLUME   441689.069 3761087.377 203.49
   LOCATION L0043737     VOLUME   441692.069 3761087.359 203.44
   LOCATION L0043738     VOLUME   441695.069 3761087.340 203.39
   LOCATION L0043739     VOLUME   441698.069 3761087.322 203.36
   LOCATION L0043740     VOLUME   441701.069 3761087.303 203.38
   LOCATION L0043741     VOLUME   441704.069 3761087.285 203.40
   LOCATION L0043742     VOLUME   441707.069 3761087.266 203.42
   LOCATION L0043743     VOLUME   441710.069 3761087.248 203.44
   LOCATION L0043744     VOLUME   441713.069 3761087.229 203.47
   LOCATION L0043745     VOLUME   441716.069 3761087.211 203.49
   LOCATION L0043746     VOLUME   441719.069 3761087.192 203.51
   LOCATION L0043747     VOLUME   441722.069 3761087.174 203.53
   LOCATION L0043748     VOLUME   441725.069 3761087.155 203.56
   LOCATION L0043749     VOLUME   441728.068 3761087.137 203.60
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LOCATION L0043751     VOLUME   441734.068 3761087.100 203.68
LOCATION L0043752     VOLUME   441737.068 3761087.081 203.72
LOCATION L0043753     VOLUME   441740.068 3761087.063 203.77
LOCATION L0043754     VOLUME   441743.068 3761087.044 203.81
LOCATION L0043755     VOLUME   441746.068 3761087.026 203.85
LOCATION L0043756     VOLUME   441749.068 3761087.007 203.89
LOCATION L0043757     VOLUME   441752.068 3761086.988 203.91
LOCATION L0043758     VOLUME   441755.068 3761086.970 203.94
LOCATION L0043759     VOLUME   441758.068 3761086.951 203.96
LOCATION L0043760     VOLUME   441761.068 3761086.933 203.98
LOCATION L0043761     VOLUME   441764.068 3761086.914 204.01
LOCATION L0043762     VOLUME   441767.068 3761086.896 204.03
LOCATION L0043763     VOLUME   441770.068 3761086.877 204.06
LOCATION L0043764     VOLUME   441773.068 3761086.859 204.08
LOCATION L0043765     VOLUME   441776.068 3761086.840 204.09
LOCATION L0043766     VOLUME   441779.068 3761086.822 204.10
LOCATION L0043767     VOLUME   441782.067 3761086.803 204.10
LOCATION L0043768     VOLUME   441785.067 3761086.785 204.10
LOCATION L0043769     VOLUME   441788.067 3761086.766 204.10
LOCATION L0043770     VOLUME   441791.067 3761086.748 204.11
LOCATION L0043771     VOLUME   441794.067 3761086.729 204.11
LOCATION L0043772     VOLUME   441797.067 3761086.711 204.11
LOCATION L0043773     VOLUME   441800.067 3761086.692 204.11
LOCATION L0043774     VOLUME   441803.067 3761086.674 204.07
LOCATION L0043775     VOLUME   441806.067 3761086.655 204.02
LOCATION L0043776     VOLUME   441809.067 3761086.637 203.98
LOCATION L0043777     VOLUME   441812.067 3761086.618 203.93
LOCATION L0043778     VOLUME   441815.067 3761086.600 203.89
LOCATION L0043779     VOLUME   441818.067 3761086.581 203.85
LOCATION L0043780     VOLUME   441821.067 3761086.563 203.80
LOCATION L0043781     VOLUME   441824.067 3761086.544 203.76
LOCATION L0043782     VOLUME   441827.067 3761086.526 203.71
LOCATION L0043783     VOLUME   441830.067 3761086.507 203.67
LOCATION L0043784     VOLUME   441833.066 3761086.488 203.63
LOCATION L0043785     VOLUME   441836.066 3761086.470 203.58
LOCATION L0043786     VOLUME   441839.066 3761086.451 203.54
LOCATION L0043787     VOLUME   441842.066 3761086.433 203.49
LOCATION L0043788     VOLUME   441845.066 3761086.414 203.45
LOCATION L0043789     VOLUME   441848.066 3761086.396 203.41
LOCATION L0043790     VOLUME   441851.066 3761086.377 203.36
LOCATION L0043791     VOLUME   441854.066 3761086.359 203.35
LOCATION L0043792     VOLUME   441857.066 3761086.340 203.35
LOCATION L0043793     VOLUME   441860.066 3761086.322 203.34
LOCATION L0043794     VOLUME   441863.066 3761086.303 203.33
LOCATION L0043795     VOLUME   441866.066 3761086.285 203.32
LOCATION L0043796     VOLUME   441869.066 3761086.266 203.32
LOCATION L0043797     VOLUME   441872.066 3761086.248 203.31
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   LOCATION L0043799     VOLUME   441878.066 3761086.211 203.32
   LOCATION L0043800     VOLUME   441881.066 3761086.192 203.36
   LOCATION L0043801     VOLUME   441884.066 3761086.174 203.41
   LOCATION L0043802     VOLUME   441887.065 3761086.155 203.46
   LOCATION L0043803     VOLUME   441890.065 3761086.137 203.51
   LOCATION L0043804     VOLUME   441893.065 3761086.118 203.56
   LOCATION L0043805     VOLUME   441896.065 3761086.100 203.60
   LOCATION L0043806     VOLUME   441899.065 3761086.081 203.65
   LOCATION L0043807     VOLUME   441902.065 3761086.063 203.70
   LOCATION L0043808     VOLUME   441905.065 3761086.044 203.76
   LOCATION L0043809     VOLUME   441908.065 3761086.026 203.82
   LOCATION L0043810     VOLUME   441911.065 3761086.007 203.89
** End of LINE VOLUME Source ID = SLINE54
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE55
** DESCRSRC Idle - Building 2 Loading Docks - South
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 5.57E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 441910.733, 3760909.919, 202.76, 3.66, 1.40
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   LOCATION L0043812     VOLUME   441627.217 3760908.845 202.56
   LOCATION L0043813     VOLUME   441630.217 3760908.856 202.54
   LOCATION L0043814     VOLUME   441633.217 3760908.867 202.52
   LOCATION L0043815     VOLUME   441636.217 3760908.879 202.50
   LOCATION L0043816     VOLUME   441639.217 3760908.890 202.49
   LOCATION L0043817     VOLUME   441642.217 3760908.902 202.47
   LOCATION L0043818     VOLUME   441645.217 3760908.913 202.45
   LOCATION L0043819     VOLUME   441648.217 3760908.924 202.44
   LOCATION L0043820     VOLUME   441651.217 3760908.936 202.44
   LOCATION L0043821     VOLUME   441654.217 3760908.947 202.43
   LOCATION L0043822     VOLUME   441657.217 3760908.958 202.42
   LOCATION L0043823     VOLUME   441660.217 3760908.970 202.41
   LOCATION L0043824     VOLUME   441663.217 3760908.981 202.40
   LOCATION L0043825     VOLUME   441666.217 3760908.992 202.39
   LOCATION L0043826     VOLUME   441669.217 3760909.004 202.39
   LOCATION L0043827     VOLUME   441672.217 3760909.015 202.38
   LOCATION L0043828     VOLUME   441675.216 3760909.027 202.37
   LOCATION L0043829     VOLUME   441678.216 3760909.038 202.36
   LOCATION L0043830     VOLUME   441681.216 3760909.049 202.35
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LOCATION L0043831     VOLUME   441684.216 3760909.061 202.33
LOCATION L0043832     VOLUME   441687.216 3760909.072 202.32
LOCATION L0043833     VOLUME   441690.216 3760909.083 202.31
LOCATION L0043834     VOLUME   441693.216 3760909.095 202.30
LOCATION L0043835     VOLUME   441696.216 3760909.106 202.29
LOCATION L0043836     VOLUME   441699.216 3760909.117 202.30
LOCATION L0043837     VOLUME   441702.216 3760909.129 202.30
LOCATION L0043838     VOLUME   441705.216 3760909.140 202.30
LOCATION L0043839     VOLUME   441708.216 3760909.152 202.30
LOCATION L0043840     VOLUME   441711.216 3760909.163 202.31
LOCATION L0043841     VOLUME   441714.216 3760909.174 202.31
LOCATION L0043842     VOLUME   441717.216 3760909.186 202.31
LOCATION L0043843     VOLUME   441720.216 3760909.197 202.32
LOCATION L0043844     VOLUME   441723.216 3760909.208 202.33
LOCATION L0043845     VOLUME   441726.216 3760909.220 202.36
LOCATION L0043846     VOLUME   441729.216 3760909.231 202.38
LOCATION L0043847     VOLUME   441732.216 3760909.242 202.41
LOCATION L0043848     VOLUME   441735.216 3760909.254 202.44
LOCATION L0043849     VOLUME   441738.216 3760909.265 202.46
LOCATION L0043850     VOLUME   441741.216 3760909.277 202.49
LOCATION L0043851     VOLUME   441744.216 3760909.288 202.52
LOCATION L0043852     VOLUME   441747.216 3760909.299 202.54
LOCATION L0043853     VOLUME   441750.216 3760909.311 202.56
LOCATION L0043854     VOLUME   441753.216 3760909.322 202.59
LOCATION L0043855     VOLUME   441756.216 3760909.333 202.61
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LOCATION L0043857     VOLUME   441762.216 3760909.356 202.65
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LOCATION L0043873     VOLUME   441810.216 3760909.538 202.69
LOCATION L0043874     VOLUME   441813.216 3760909.549 202.66
LOCATION L0043875     VOLUME   441816.215 3760909.561 202.64
LOCATION L0043876     VOLUME   441819.215 3760909.572 202.62
LOCATION L0043877     VOLUME   441822.215 3760909.583 202.60
LOCATION L0043878     VOLUME   441825.215 3760909.595 202.57
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   LOCATION L0043880     VOLUME   441831.215 3760909.617 202.51
   LOCATION L0043881     VOLUME   441834.215 3760909.629 202.47
   LOCATION L0043882     VOLUME   441837.215 3760909.640 202.44
   LOCATION L0043883     VOLUME   441840.215 3760909.652 202.41
   LOCATION L0043884     VOLUME   441843.215 3760909.663 202.38
   LOCATION L0043885     VOLUME   441846.215 3760909.674 202.35
   LOCATION L0043886     VOLUME   441849.215 3760909.686 202.31
   LOCATION L0043887     VOLUME   441852.215 3760909.697 202.31
   LOCATION L0043888     VOLUME   441855.215 3760909.708 202.31
   LOCATION L0043889     VOLUME   441858.215 3760909.720 202.32
   LOCATION L0043890     VOLUME   441861.215 3760909.731 202.32
   LOCATION L0043891     VOLUME   441864.215 3760909.742 202.33
   LOCATION L0043892     VOLUME   441867.215 3760909.754 202.33
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   LOCATION L0043896     VOLUME   441879.215 3760909.799 202.40
   LOCATION L0043897     VOLUME   441882.215 3760909.811 202.44
   LOCATION L0043898     VOLUME   441885.215 3760909.822 202.48
   LOCATION L0043899     VOLUME   441888.215 3760909.833 202.52
   LOCATION L0043900     VOLUME   441891.215 3760909.845 202.56
   LOCATION L0043901     VOLUME   441894.215 3760909.856 202.60
   LOCATION L0043902     VOLUME   441897.215 3760909.867 202.64
   LOCATION L0043903     VOLUME   441900.215 3760909.879 202.69
   LOCATION L0043904     VOLUME   441903.215 3760909.890 202.73
   LOCATION L0043905     VOLUME   441906.215 3760909.902 202.78
   LOCATION L0043906     VOLUME   441909.215 3760909.913 202.82
** End of LINE VOLUME Source ID = SLINE55
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE56
** DESCRSRC Idle - Building 3 Loading Docks
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 6.59E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 441611.217, 3760789.599, 201.29, 3.66, 1.40
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   LOCATION L0043909     VOLUME   441896.878 3760783.540 201.74
   LOCATION L0043910     VOLUME   441893.879 3760783.604 201.72
   LOCATION L0043911     VOLUME   441890.879 3760783.667 201.70
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LOCATION L0043913     VOLUME   441884.881 3760783.794 201.66
LOCATION L0043914     VOLUME   441881.881 3760783.858 201.63
LOCATION L0043915     VOLUME   441878.882 3760783.922 201.61
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LOCATION L0043920     VOLUME   441863.885 3760784.240 201.56
LOCATION L0043921     VOLUME   441860.886 3760784.303 201.56
LOCATION L0043922     VOLUME   441857.887 3760784.367 201.55
LOCATION L0043923     VOLUME   441854.887 3760784.431 201.55
LOCATION L0043924     VOLUME   441851.888 3760784.494 201.54
LOCATION L0043925     VOLUME   441848.889 3760784.558 201.53
LOCATION L0043926     VOLUME   441845.889 3760784.622 201.53
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LOCATION L0043930     VOLUME   441833.892 3760784.876 201.53
LOCATION L0043931     VOLUME   441830.893 3760784.940 201.53
LOCATION L0043932     VOLUME   441827.894 3760785.003 201.53
LOCATION L0043933     VOLUME   441824.894 3760785.067 201.53
LOCATION L0043934     VOLUME   441821.895 3760785.131 201.52
LOCATION L0043935     VOLUME   441818.896 3760785.194 201.51
LOCATION L0043936     VOLUME   441815.896 3760785.258 201.49
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LOCATION L0043938     VOLUME   441809.898 3760785.385 201.47
LOCATION L0043939     VOLUME   441806.898 3760785.449 201.45
LOCATION L0043940     VOLUME   441803.899 3760785.512 201.44
LOCATION L0043941     VOLUME   441800.900 3760785.576 201.43
LOCATION L0043942     VOLUME   441797.900 3760785.639 201.41
LOCATION L0043943     VOLUME   441794.901 3760785.703 201.43
LOCATION L0043944     VOLUME   441791.902 3760785.767 201.44
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LOCATION L0043949     VOLUME   441776.905 3760786.085 201.50
LOCATION L0043950     VOLUME   441773.906 3760786.148 201.51
LOCATION L0043951     VOLUME   441770.906 3760786.212 201.50
LOCATION L0043952     VOLUME   441767.907 3760786.276 201.49
LOCATION L0043953     VOLUME   441764.908 3760786.339 201.47
LOCATION L0043954     VOLUME   441761.908 3760786.403 201.46
LOCATION L0043955     VOLUME   441758.909 3760786.467 201.44
LOCATION L0043956     VOLUME   441755.910 3760786.530 201.42
LOCATION L0043957     VOLUME   441752.910 3760786.594 201.41
LOCATION L0043958     VOLUME   441749.911 3760786.657 201.39
LOCATION L0043959     VOLUME   441746.912 3760786.721 201.38
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   LOCATION L0043961     VOLUME   441740.913 3760786.848 201.38
   LOCATION L0043962     VOLUME   441737.914 3760786.912 201.38
   LOCATION L0043963     VOLUME   441734.914 3760786.976 201.38
   LOCATION L0043964     VOLUME   441731.915 3760787.039 201.38
   LOCATION L0043965     VOLUME   441728.916 3760787.103 201.39
   LOCATION L0043966     VOLUME   441725.916 3760787.166 201.39
   LOCATION L0043967     VOLUME   441722.917 3760787.230 201.39
   LOCATION L0043968     VOLUME   441719.918 3760787.294 201.39
   LOCATION L0043969     VOLUME   441716.919 3760787.357 201.38
   LOCATION L0043970     VOLUME   441713.919 3760787.421 201.37
   LOCATION L0043971     VOLUME   441710.920 3760787.485 201.37
   LOCATION L0043972     VOLUME   441707.921 3760787.548 201.36
   LOCATION L0043973     VOLUME   441704.921 3760787.612 201.35
   LOCATION L0043974     VOLUME   441701.922 3760787.675 201.34
   LOCATION L0043975     VOLUME   441698.923 3760787.739 201.33
   LOCATION L0043976     VOLUME   441695.923 3760787.803 201.33
   LOCATION L0043977     VOLUME   441692.924 3760787.866 201.31
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   LOCATION L0043983     VOLUME   441674.928 3760788.248 201.23
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** Line Source Represented by Adjacent Volume Sources
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** Configuration = Adjacent
** Emission Rate = 9.32E-15
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LOCATION L0044136     VOLUME   441290.629 3760696.683 200.73
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   LOCATION L0044153     VOLUME   441290.629 3760645.683 200.45
   LOCATION L0044154     VOLUME   441290.629 3760642.683 200.44
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   LOCATION L0044160     VOLUME   441290.629 3760624.683 200.35
   LOCATION L0044161     VOLUME   441290.629 3760621.683 200.34
   LOCATION L0044162     VOLUME   441290.629 3760618.683 200.33
   LOCATION L0044163     VOLUME   441290.629 3760615.683 200.31
   LOCATION L0044164     VOLUME   441290.629 3760612.683 200.30
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   LOCATION L0044168     VOLUME   441290.629 3760600.683 200.24
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** DESCRSRC Idle - Building 1 Loading Docks - East
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 9.23E-15
** Vertical Dimension = 6.22
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LOCATION L0044270     VOLUME   441470.574 3760794.130 201.50
LOCATION L0044271     VOLUME   441470.566 3760791.130 201.45
LOCATION L0044272     VOLUME   441470.557 3760788.130 201.41
LOCATION L0044273     VOLUME   441470.548 3760785.130 201.36
LOCATION L0044274     VOLUME   441470.539 3760782.131 201.31
LOCATION L0044275     VOLUME   441470.530 3760779.131 201.29
LOCATION L0044276     VOLUME   441470.521 3760776.131 201.26
LOCATION L0044277     VOLUME   441470.512 3760773.131 201.24
LOCATION L0044278     VOLUME   441470.504 3760770.131 201.21
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LOCATION L0044282     VOLUME   441470.468 3760758.131 201.12
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LOCATION L0044284     VOLUME   441470.451 3760752.131 201.07
LOCATION L0044285     VOLUME   441470.442 3760749.131 201.05
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LOCATION L0044287     VOLUME   441470.424 3760743.131 201.02
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LOCATION L0044294     VOLUME   441470.362 3760722.131 200.91
LOCATION L0044295     VOLUME   441470.353 3760719.131 200.89
LOCATION L0044296     VOLUME   441470.344 3760716.131 200.87
LOCATION L0044297     VOLUME   441470.335 3760713.131 200.85
LOCATION L0044298     VOLUME   441470.327 3760710.131 200.83
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LOCATION L0044306     VOLUME   441470.256 3760686.131 200.66
LOCATION L0044307     VOLUME   441470.247 3760683.131 200.64
LOCATION L0044308     VOLUME   441470.238 3760680.131 200.63
LOCATION L0044309     VOLUME   441470.229 3760677.131 200.62
LOCATION L0044310     VOLUME   441470.220 3760674.131 200.61
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LOCATION L0044312     VOLUME   441470.203 3760668.131 200.59
LOCATION L0044313     VOLUME   441470.194 3760665.131 200.58
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   LOCATION L0044316     VOLUME   441470.167 3760656.131 200.54
   LOCATION L0044317     VOLUME   441470.158 3760653.131 200.52
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   LOCATION L0044328     VOLUME   441470.061 3760620.131 200.30
   LOCATION L0044329     VOLUME   441470.052 3760617.131 200.28
   LOCATION L0044330     VOLUME   441470.043 3760614.131 200.26
   LOCATION L0044331     VOLUME   441470.035 3760611.131 200.24
   LOCATION L0044332     VOLUME   441470.026 3760608.131 200.22
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** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 7.27E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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   LOCATION L0044337     VOLUME   440866.978 3761185.936 203.20
   LOCATION L0044338     VOLUME   440869.978 3761185.946 203.25
   LOCATION L0044339     VOLUME   440872.978 3761185.957 203.31
   LOCATION L0044340     VOLUME   440875.978 3761185.967 203.37
   LOCATION L0044341     VOLUME   440878.978 3761185.978 203.45
   LOCATION L0044342     VOLUME   440881.978 3761185.989 203.54
   LOCATION L0044343     VOLUME   440884.978 3761185.999 203.62
   LOCATION L0044344     VOLUME   440887.978 3761186.010 203.71
   LOCATION L0044345     VOLUME   440890.978 3761186.021 203.80
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LOCATION L0044350     VOLUME   440905.978 3761186.074 204.19
LOCATION L0044351     VOLUME   440908.978 3761186.084 204.23
LOCATION L0044352     VOLUME   440911.978 3761186.095 204.28
LOCATION L0044353     VOLUME   440914.977 3761186.105 204.32
LOCATION L0044354     VOLUME   440917.977 3761186.116 204.37
LOCATION L0044355     VOLUME   440920.977 3761186.127 204.41
LOCATION L0044356     VOLUME   440923.977 3761186.137 204.46
LOCATION L0044357     VOLUME   440926.977 3761186.148 204.50
LOCATION L0044358     VOLUME   440929.977 3761186.159 204.53
LOCATION L0044359     VOLUME   440932.977 3761186.169 204.55
LOCATION L0044360     VOLUME   440935.977 3761186.180 204.57
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LOCATION L0044363     VOLUME   440944.977 3761186.212 204.62
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LOCATION L0044365     VOLUME   440950.977 3761186.233 204.65
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LOCATION L0044369     VOLUME   440962.977 3761186.275 204.51
LOCATION L0044370     VOLUME   440965.977 3761186.286 204.45
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LOCATION L0044372     VOLUME   440971.977 3761186.307 204.35
LOCATION L0044373     VOLUME   440974.977 3761186.318 204.30
LOCATION L0044374     VOLUME   440977.977 3761186.328 204.24
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LOCATION L0044383     VOLUME   441004.977 3761186.424 203.44
LOCATION L0044384     VOLUME   441007.977 3761186.435 203.42
LOCATION L0044385     VOLUME   441010.977 3761186.445 203.41
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   LOCATION L0044401     VOLUME   441058.977 3761186.615 203.59
   LOCATION L0044402     VOLUME   441061.977 3761186.626 203.61
   LOCATION L0044403     VOLUME   441064.977 3761186.636 203.64
   LOCATION L0044404     VOLUME   441067.977 3761186.647 203.67
   LOCATION L0044405     VOLUME   441070.977 3761186.657 203.69
   LOCATION L0044406     VOLUME   441073.976 3761186.668 203.72
   LOCATION L0044407     VOLUME   441076.976 3761186.679 203.75
   LOCATION L0044408     VOLUME   441079.976 3761186.689 203.77
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   LOCATION L0044410     VOLUME   441085.976 3761186.711 203.75
   LOCATION L0044411     VOLUME   441088.976 3761186.721 203.72
   LOCATION L0044412     VOLUME   441091.976 3761186.732 203.69
   LOCATION L0044413     VOLUME   441094.976 3761186.742 203.66
   LOCATION L0044414     VOLUME   441097.976 3761186.753 203.63
   LOCATION L0044415     VOLUME   441100.976 3761186.764 203.60
   LOCATION L0044416     VOLUME   441103.976 3761186.774 203.57
   LOCATION L0044417     VOLUME   441106.976 3761186.785 203.54
** End of LINE VOLUME Source ID = SLINE59
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** LINE VOLUME Source ID = SLINE60
** DESCRSRC Idle - PA 4 - Loading Area 1
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 8.49E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 440885.116, 3760589.383, 198.46, 3.66, 1.40
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   LOCATION L0044424     VOLUME   440885.116 3760983.687 201.55
   LOCATION L0044425     VOLUME   440885.116 3760980.687 201.51
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LOCATION L0044433     VOLUME   440885.116 3760956.687 201.34
LOCATION L0044434     VOLUME   440885.116 3760953.687 201.32
LOCATION L0044435     VOLUME   440885.116 3760950.687 201.31
LOCATION L0044436     VOLUME   440885.116 3760947.687 201.30
LOCATION L0044437     VOLUME   440885.116 3760944.687 201.28
LOCATION L0044438     VOLUME   440885.116 3760941.687 201.27
LOCATION L0044439     VOLUME   440885.116 3760938.687 201.25
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LOCATION L0044443     VOLUME   440885.116 3760926.687 201.13
LOCATION L0044444     VOLUME   440885.116 3760923.687 201.10
LOCATION L0044445     VOLUME   440885.116 3760920.687 201.07
LOCATION L0044446     VOLUME   440885.116 3760917.687 201.03
LOCATION L0044447     VOLUME   440885.116 3760914.687 201.00
LOCATION L0044448     VOLUME   440885.116 3760911.687 200.97
LOCATION L0044449     VOLUME   440885.116 3760908.687 200.94
LOCATION L0044450     VOLUME   440885.116 3760905.687 200.89
LOCATION L0044451     VOLUME   440885.116 3760902.687 200.83
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LOCATION L0044453     VOLUME   440885.116 3760896.687 200.73
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LOCATION L0044457     VOLUME   440885.116 3760884.687 200.51
LOCATION L0044458     VOLUME   440885.116 3760881.687 200.45
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LOCATION L0044461     VOLUME   440885.116 3760872.687 200.13
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LOCATION L0044468     VOLUME   440885.116 3760851.687 199.07
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LOCATION L0044475     VOLUME   440885.116 3760830.687 199.07
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LOCATION L0044479     VOLUME   440885.116 3760818.687 199.26
LOCATION L0044480     VOLUME   440885.116 3760815.687 199.30
LOCATION L0044481     VOLUME   440885.116 3760812.687 199.34
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LOCATION L0044483     VOLUME   440885.116 3760806.687 199.42
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LOCATION L0044521     VOLUME   440885.116 3760692.687 199.09
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   LOCATION L0044534     VOLUME   440885.116 3760653.687 198.78
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** End of LINE VOLUME Source ID = SLINE60
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** DESCRSRC Idle - PA 4 - Loading Area 2
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 8.49E-15
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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LOCATION L0044560     VOLUME   441082.723 3760988.029 202.12
LOCATION L0044561     VOLUME   441082.705 3760985.029 202.09
LOCATION L0044562     VOLUME   441082.687 3760982.029 202.06
LOCATION L0044563     VOLUME   441082.670 3760979.029 202.03
LOCATION L0044564     VOLUME   441082.652 3760976.029 202.00
LOCATION L0044565     VOLUME   441082.634 3760973.029 201.97
LOCATION L0044566     VOLUME   441082.616 3760970.030 201.94
LOCATION L0044567     VOLUME   441082.598 3760967.030 201.91
LOCATION L0044568     VOLUME   441082.581 3760964.030 201.88
LOCATION L0044569     VOLUME   441082.563 3760961.030 201.85
LOCATION L0044570     VOLUME   441082.545 3760958.030 201.82
LOCATION L0044571     VOLUME   441082.527 3760955.030 201.79
LOCATION L0044572     VOLUME   441082.509 3760952.030 201.76
LOCATION L0044573     VOLUME   441082.492 3760949.030 201.73
LOCATION L0044574     VOLUME   441082.474 3760946.030 201.70
LOCATION L0044575     VOLUME   441082.456 3760943.030 201.67
LOCATION L0044576     VOLUME   441082.438 3760940.030 201.64
LOCATION L0044577     VOLUME   441082.420 3760937.030 201.61
LOCATION L0044578     VOLUME   441082.402 3760934.030 201.58
LOCATION L0044579     VOLUME   441082.385 3760931.030 201.55
LOCATION L0044580     VOLUME   441082.367 3760928.030 201.52
LOCATION L0044581     VOLUME   441082.349 3760925.030 201.49
LOCATION L0044582     VOLUME   441082.331 3760922.030 201.46
LOCATION L0044583     VOLUME   441082.313 3760919.030 201.43
LOCATION L0044584     VOLUME   441082.296 3760916.030 201.40
LOCATION L0044585     VOLUME   441082.278 3760913.031 201.37
LOCATION L0044586     VOLUME   441082.260 3760910.031 201.34
LOCATION L0044587     VOLUME   441082.242 3760907.031 201.31
LOCATION L0044588     VOLUME   441082.224 3760904.031 201.28
LOCATION L0044589     VOLUME   441082.207 3760901.031 201.26
LOCATION L0044590     VOLUME   441082.189 3760898.031 201.23
LOCATION L0044591     VOLUME   441082.171 3760895.031 201.21
LOCATION L0044592     VOLUME   441082.153 3760892.031 201.18
LOCATION L0044593     VOLUME   441082.135 3760889.031 201.16
LOCATION L0044594     VOLUME   441082.118 3760886.031 201.13
LOCATION L0044595     VOLUME   441082.100 3760883.031 201.11
LOCATION L0044596     VOLUME   441082.082 3760880.031 201.08
LOCATION L0044597     VOLUME   441082.064 3760877.031 201.06
LOCATION L0044598     VOLUME   441082.046 3760874.031 201.06
LOCATION L0044599     VOLUME   441082.029 3760871.031 201.07
LOCATION L0044600     VOLUME   441082.011 3760868.031 201.07
LOCATION L0044601     VOLUME   441081.993 3760865.031 201.08
LOCATION L0044602     VOLUME   441081.975 3760862.031 201.09
LOCATION L0044603     VOLUME   441081.957 3760859.031 201.10
LOCATION L0044604     VOLUME   441081.940 3760856.032 201.10
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LOCATION L0044613     VOLUME   441081.779 3760829.032 201.04
LOCATION L0044614     VOLUME   441081.762 3760826.032 201.02
LOCATION L0044615     VOLUME   441081.744 3760823.032 201.01
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LOCATION L0044617     VOLUME   441081.708 3760817.032 200.98
LOCATION L0044618     VOLUME   441081.690 3760814.032 200.96
LOCATION L0044619     VOLUME   441081.673 3760811.032 200.92
LOCATION L0044620     VOLUME   441081.655 3760808.032 200.89
LOCATION L0044621     VOLUME   441081.637 3760805.032 200.86
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LOCATION L0044623     VOLUME   441081.601 3760799.033 200.80
LOCATION L0044624     VOLUME   441081.584 3760796.033 200.77
LOCATION L0044625     VOLUME   441081.566 3760793.033 200.74
LOCATION L0044626     VOLUME   441081.548 3760790.033 200.71
LOCATION L0044627     VOLUME   441081.530 3760787.033 200.68
LOCATION L0044628     VOLUME   441081.512 3760784.033 200.65
LOCATION L0044629     VOLUME   441081.494 3760781.033 200.64
LOCATION L0044630     VOLUME   441081.477 3760778.033 200.63
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LOCATION L0044632     VOLUME   441081.441 3760772.033 200.61
LOCATION L0044633     VOLUME   441081.423 3760769.033 200.60
LOCATION L0044634     VOLUME   441081.405 3760766.033 200.59
LOCATION L0044635     VOLUME   441081.388 3760763.033 200.58
LOCATION L0044636     VOLUME   441081.370 3760760.033 200.57
LOCATION L0044637     VOLUME   441081.352 3760757.033 200.56
LOCATION L0044638     VOLUME   441081.334 3760754.033 200.55
LOCATION L0044639     VOLUME   441081.316 3760751.033 200.54
LOCATION L0044640     VOLUME   441081.299 3760748.033 200.54
LOCATION L0044641     VOLUME   441081.281 3760745.033 200.53
LOCATION L0044642     VOLUME   441081.263 3760742.034 200.53
LOCATION L0044643     VOLUME   441081.245 3760739.034 200.52
LOCATION L0044644     VOLUME   441081.227 3760736.034 200.52
LOCATION L0044645     VOLUME   441081.210 3760733.034 200.51
LOCATION L0044646     VOLUME   441081.192 3760730.034 200.51
LOCATION L0044647     VOLUME   441081.174 3760727.034 200.51
LOCATION L0044648     VOLUME   441081.156 3760724.034 200.50
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LOCATION L0044651     VOLUME   441081.103 3760715.034 200.49
LOCATION L0044652     VOLUME   441081.085 3760712.034 200.48
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   LOCATION L0044656     VOLUME   441081.014 3760700.034 200.47
   LOCATION L0044657     VOLUME   441080.996 3760697.034 200.46
   LOCATION L0044658     VOLUME   441080.978 3760694.034 200.46
   LOCATION L0044659     VOLUME   441080.960 3760691.034 200.45
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   LOCATION L0044662     VOLUME   441080.907 3760682.035 200.39
   LOCATION L0044663     VOLUME   441080.889 3760679.035 200.36
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   LOCATION L0044665     VOLUME   441080.854 3760673.035 200.32
   LOCATION L0044666     VOLUME   441080.836 3760670.035 200.30
   LOCATION L0044667     VOLUME   441080.818 3760667.035 200.27
   LOCATION L0044668     VOLUME   441080.800 3760664.035 200.25
   LOCATION L0044669     VOLUME   441080.782 3760661.035 200.23
   LOCATION L0044670     VOLUME   441080.765 3760658.035 200.21
   LOCATION L0044671     VOLUME   441080.747 3760655.035 200.20
   LOCATION L0044672     VOLUME   441080.729 3760652.035 200.19
   LOCATION L0044673     VOLUME   441080.711 3760649.035 200.18
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   LOCATION L0044691     VOLUME   441080.391 3760595.036 199.89
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** End of LINE VOLUME Source ID = SLINE61
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** LINE VOLUME Source ID = SLINE62
** DESCRSRC On-site Circulation - PA 3
** PREFIX
** Length of Side = 5.00
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** Emission Rate = 0.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
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   LOCATION L0035436     VOLUME   440810.424 3761162.734 202.34
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   LOCATION L0035439     VOLUME   440808.499 3761177.124 202.48
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   LOCATION L0035441     VOLUME   440810.631 3761186.895 202.60
   LOCATION L0035442     VOLUME   440811.697 3761191.780 202.67
   LOCATION L0035443     VOLUME   440812.763 3761196.665 202.73
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   LOCATION L0035448     VOLUME   440825.677 3761216.045 203.06
   LOCATION L0035449     VOLUME   440829.770 3761218.916 203.12
   LOCATION L0035450     VOLUME   440833.864 3761221.788 203.18
   LOCATION L0035451     VOLUME   440837.973 3761224.617 203.24
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LOCATION L0035462     VOLUME   440892.527 3761231.147 203.96
LOCATION L0035463     VOLUME   440897.526 3761231.240 203.99
LOCATION L0035464     VOLUME   440902.525 3761231.333 204.03
LOCATION L0035465     VOLUME   440907.524 3761231.426 204.04
LOCATION L0035466     VOLUME   440912.523 3761231.519 204.05
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LOCATION L0035470     VOLUME   440932.520 3761231.890 204.11
LOCATION L0035471     VOLUME   440937.519 3761231.983 204.12
LOCATION L0035472     VOLUME   440942.518 3761232.076 204.14
LOCATION L0035473     VOLUME   440947.517 3761232.169 204.16
LOCATION L0035474     VOLUME   440952.516 3761232.262 204.17
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LOCATION L0035476     VOLUME   440962.515 3761232.448 204.14
LOCATION L0035477     VOLUME   440967.514 3761232.541 204.11
LOCATION L0035478     VOLUME   440972.513 3761232.634 204.09
LOCATION L0035479     VOLUME   440977.513 3761232.666 204.06
LOCATION L0035480     VOLUME   440982.513 3761232.688 204.02
LOCATION L0035481     VOLUME   440987.513 3761232.710 203.97
LOCATION L0035482     VOLUME   440992.513 3761232.731 203.92
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LOCATION L0035495     VOLUME   441057.511 3761232.863 203.68
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LOCATION L0035497     VOLUME   441067.509 3761232.677 203.70
LOCATION L0035498     VOLUME   441072.508 3761232.584 203.70
LOCATION L0035499     VOLUME   441077.508 3761232.490 203.71
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LOCATION L0035505     VOLUME   441107.379 3761231.204 203.58
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LOCATION L0035551     VOLUME   440997.677 3761145.753 203.26
LOCATION L0035552     VOLUME   440992.677 3761145.729 203.45
LOCATION L0035553     VOLUME   440987.677 3761145.705 203.63
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   LOCATION L0035563     VOLUME   440937.678 3761145.464 204.36
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   LOCATION L0035579     VOLUME   440857.678 3761145.167 202.59
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   LOCATION L0035583     VOLUME   440837.678 3761145.167 202.42
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   LOCATION L0035585     VOLUME   440827.678 3761145.167 202.35
   LOCATION L0035586     VOLUME   440822.678 3761145.167 202.30
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** End of LINE VOLUME Source ID = SLINE62
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE64
** DESCRSRC Idle - PA 5 - Loading Area
** PREFIX
** Length of Side = 3.00
** Configuration = Adjacent
** Emission Rate = 5.33E-15
** Vertical Dimension = 6.22
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** Nodes = 2
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   LOCATION L0044697     VOLUME   441665.067 3760562.471 200.40
   LOCATION L0044698     VOLUME   441668.067 3760562.471 200.40
   LOCATION L0044699     VOLUME   441671.067 3760562.471 200.41
   LOCATION L0044700     VOLUME   441674.067 3760562.471 200.41
   LOCATION L0044701     VOLUME   441677.067 3760562.471 200.42
   LOCATION L0044702     VOLUME   441680.067 3760562.471 200.43
   LOCATION L0044703     VOLUME   441683.067 3760562.471 200.44
   LOCATION L0044704     VOLUME   441686.067 3760562.471 200.45
   LOCATION L0044705     VOLUME   441689.067 3760562.471 200.45
   LOCATION L0044706     VOLUME   441692.067 3760562.471 200.46
   LOCATION L0044707     VOLUME   441695.067 3760562.471 200.47
   LOCATION L0044708     VOLUME   441698.067 3760562.471 200.47
   LOCATION L0044709     VOLUME   441701.067 3760562.471 200.47
   LOCATION L0044710     VOLUME   441704.067 3760562.471 200.47
   LOCATION L0044711     VOLUME   441707.067 3760562.471 200.47
   LOCATION L0044712     VOLUME   441710.067 3760562.471 200.47
   LOCATION L0044713     VOLUME   441713.067 3760562.471 200.47
   LOCATION L0044714     VOLUME   441716.067 3760562.471 200.47
   LOCATION L0044715     VOLUME   441719.067 3760562.471 200.47
   LOCATION L0044716     VOLUME   441722.067 3760562.471 200.46
   LOCATION L0044717     VOLUME   441725.067 3760562.471 200.46
   LOCATION L0044718     VOLUME   441728.067 3760562.471 200.45
   LOCATION L0044719     VOLUME   441731.067 3760562.471 200.44
   LOCATION L0044720     VOLUME   441734.067 3760562.471 200.43
   LOCATION L0044721     VOLUME   441737.067 3760562.471 200.42
   LOCATION L0044722     VOLUME   441740.067 3760562.471 200.41
   LOCATION L0044723     VOLUME   441743.067 3760562.471 200.40
   LOCATION L0044724     VOLUME   441746.067 3760562.471 200.39
   LOCATION L0044725     VOLUME   441749.067 3760562.471 200.39
   LOCATION L0044726     VOLUME   441752.067 3760562.471 200.38
   LOCATION L0044727     VOLUME   441755.067 3760562.471 200.38
   LOCATION L0044728     VOLUME   441758.067 3760562.471 200.37
   LOCATION L0044729     VOLUME   441761.067 3760562.471 200.37
   LOCATION L0044730     VOLUME   441764.067 3760562.471 200.36
   LOCATION L0044731     VOLUME   441767.067 3760562.471 200.36
   LOCATION L0044732     VOLUME   441770.067 3760562.471 200.35
   LOCATION L0044733     VOLUME   441773.067 3760562.471 200.35
   LOCATION L0044734     VOLUME   441776.067 3760562.471 200.34
   LOCATION L0044735     VOLUME   441779.067 3760562.471 200.33
   LOCATION L0044736     VOLUME   441782.067 3760562.471 200.33
   LOCATION L0044737     VOLUME   441785.067 3760562.471 200.32
   LOCATION L0044738     VOLUME   441788.067 3760562.471 200.31
   LOCATION L0044739     VOLUME   441791.067 3760562.471 200.31
   LOCATION L0044740     VOLUME   441794.067 3760562.471 200.30
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   LOCATION L0044743     VOLUME   441803.067 3760562.471 200.28
   LOCATION L0044744     VOLUME   441806.067 3760562.471 200.27
   LOCATION L0044745     VOLUME   441809.067 3760562.471 200.26
   LOCATION L0044746     VOLUME   441812.067 3760562.471 200.25
   LOCATION L0044747     VOLUME   441815.067 3760562.471 200.24
   LOCATION L0044748     VOLUME   441818.067 3760562.471 200.23
   LOCATION L0044749     VOLUME   441821.067 3760562.471 200.22
   LOCATION L0044750     VOLUME   441824.067 3760562.471 200.21
   LOCATION L0044751     VOLUME   441827.067 3760562.471 200.21
   LOCATION L0044752     VOLUME   441830.067 3760562.471 200.20
   LOCATION L0044753     VOLUME   441833.067 3760562.471 200.20
   LOCATION L0044754     VOLUME   441836.067 3760562.471 200.20
   LOCATION L0044755     VOLUME   441839.067 3760562.471 200.20
   LOCATION L0044756     VOLUME   441842.067 3760562.471 200.19
   LOCATION L0044757     VOLUME   441845.067 3760562.471 200.19
   LOCATION L0044758     VOLUME   441848.067 3760562.471 200.19
   LOCATION L0044759     VOLUME   441851.067 3760562.471 200.18
   LOCATION L0044760     VOLUME   441854.067 3760562.471 200.18
   LOCATION L0044761     VOLUME   441857.067 3760562.471 200.18
   LOCATION L0044762     VOLUME   441860.067 3760562.471 200.17
   LOCATION L0044763     VOLUME   441863.067 3760562.471 200.17
   LOCATION L0044764     VOLUME   441866.067 3760562.471 200.17
   LOCATION L0044765     VOLUME   441869.067 3760562.471 200.17
   LOCATION L0044766     VOLUME   441872.067 3760562.471 200.16
   LOCATION L0044767     VOLUME   441875.067 3760562.471 200.16
   LOCATION L0044768     VOLUME   441878.067 3760562.471 200.17
** End of LINE VOLUME Source ID = SLINE64
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** LINE VOLUME Source ID = SLINE65
** DESCRSRC On-site Circulation - PA 5
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 5.54E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 18
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** 441605.491, 3760530.265, 200.05, 3.66, 2.33
** 441629.502, 3760514.257, 200.19, 3.66, 2.33
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   LOCATION L0044771     VOLUME   441760.456 3760500.289 200.02
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   LOCATION L0044774     VOLUME   441775.406 3760501.521 200.01
   LOCATION L0044775     VOLUME   441780.389 3760501.931 200.01
   LOCATION L0044776     VOLUME   441785.372 3760502.341 200.01
   LOCATION L0044777     VOLUME   441790.355 3760502.752 200.01
   LOCATION L0044778     VOLUME   441795.338 3760503.162 200.01
   LOCATION L0044779     VOLUME   441800.321 3760503.572 199.99
   LOCATION L0044780     VOLUME   441805.305 3760503.983 199.97
   LOCATION L0044781     VOLUME   441810.288 3760504.393 199.96
   LOCATION L0044782     VOLUME   441815.271 3760504.804 199.94
   LOCATION L0044783     VOLUME   441820.248 3760505.278 199.92
   LOCATION L0044784     VOLUME   441825.217 3760505.832 199.91
   LOCATION L0044785     VOLUME   441830.186 3760506.386 199.91
   LOCATION L0044786     VOLUME   441835.155 3760506.940 199.92
   LOCATION L0044787     VOLUME   441840.125 3760507.495 199.92
   LOCATION L0044788     VOLUME   441845.094 3760508.049 199.92
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   LOCATION L0044793     VOLUME   441869.940 3760510.819 199.94
   LOCATION L0044794     VOLUME   441874.909 3760511.374 199.95
   LOCATION L0044795     VOLUME   441879.878 3760511.928 199.95
   LOCATION L0044796     VOLUME   441884.847 3760512.482 199.96
   LOCATION L0044797     VOLUME   441889.817 3760513.036 199.97
   LOCATION L0044798     VOLUME   441894.786 3760513.590 199.98
   LOCATION L0044799     VOLUME   441899.755 3760514.144 199.99
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   LOCATION L0044801     VOLUME   441909.519 3760515.705 200.05
   LOCATION L0044802     VOLUME   441913.577 3760518.627 200.08
   LOCATION L0044803     VOLUME   441917.634 3760521.548 200.12
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   LOCATION L0044805     VOLUME   441925.750 3760527.391 200.19
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LOCATION L0044808     VOLUME   441932.833 3760539.510 200.34
LOCATION L0044809     VOLUME   441933.918 3760544.391 200.38
LOCATION L0044810     VOLUME   441935.002 3760549.272 200.43
LOCATION L0044811     VOLUME   441936.087 3760554.153 200.47
LOCATION L0044812     VOLUME   441935.992 3760559.115 200.50
LOCATION L0044813     VOLUME   441935.587 3760564.099 200.53
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LOCATION L0044815     VOLUME   441934.779 3760574.066 200.60
LOCATION L0044816     VOLUME   441934.375 3760579.050 200.63
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LOCATION L0044818     VOLUME   441933.006 3760588.775 200.70
LOCATION L0044819     VOLUME   441929.651 3760592.482 200.71
LOCATION L0044820     VOLUME   441926.297 3760596.190 200.74
LOCATION L0044821     VOLUME   441922.942 3760599.898 200.77
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LOCATION L0044825     VOLUME   441906.751 3760610.743 200.88
LOCATION L0044826     VOLUME   441902.109 3760612.600 200.91
LOCATION L0044827     VOLUME   441897.466 3760614.457 200.94
LOCATION L0044828     VOLUME   441892.824 3760616.314 200.97
LOCATION L0044829     VOLUME   441888.047 3760617.629 200.99
LOCATION L0044830     VOLUME   441883.075 3760618.153 200.99
LOCATION L0044831     VOLUME   441878.102 3760618.676 201.00
LOCATION L0044832     VOLUME   441873.130 3760619.200 201.00
LOCATION L0044833     VOLUME   441868.157 3760619.723 201.01
LOCATION L0044834     VOLUME   441863.185 3760620.246 201.02
LOCATION L0044835     VOLUME   441858.212 3760620.770 201.04
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LOCATION L0044838     VOLUME   441843.295 3760622.340 201.08
LOCATION L0044839     VOLUME   441838.317 3760622.730 201.10
LOCATION L0044840     VOLUME   441833.318 3760622.626 201.11
LOCATION L0044841     VOLUME   441828.319 3760622.522 201.12
LOCATION L0044842     VOLUME   441823.320 3760622.418 201.13
LOCATION L0044843     VOLUME   441818.321 3760622.314 201.13
LOCATION L0044844     VOLUME   441813.322 3760622.210 201.14
LOCATION L0044845     VOLUME   441808.323 3760622.105 201.14
LOCATION L0044846     VOLUME   441803.324 3760622.001 201.15
LOCATION L0044847     VOLUME   441798.325 3760621.897 201.15
LOCATION L0044848     VOLUME   441793.326 3760621.793 201.15
LOCATION L0044849     VOLUME   441788.327 3760621.689 201.14
LOCATION L0044850     VOLUME   441783.328 3760621.585 201.13
LOCATION L0044851     VOLUME   441778.330 3760621.481 201.12
LOCATION L0044852     VOLUME   441773.331 3760621.376 201.11
LOCATION L0044853     VOLUME   441768.332 3760621.272 201.11
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LOCATION L0044854     VOLUME   441763.333 3760621.168 201.12
LOCATION L0044855     VOLUME   441758.334 3760621.064 201.12
LOCATION L0044856     VOLUME   441753.335 3760620.960 201.13
LOCATION L0044857     VOLUME   441748.336 3760620.859 201.13
LOCATION L0044858     VOLUME   441743.337 3760620.758 201.13
LOCATION L0044859     VOLUME   441738.338 3760620.657 201.11
LOCATION L0044860     VOLUME   441733.339 3760620.556 201.10
LOCATION L0044861     VOLUME   441728.340 3760620.455 201.09
LOCATION L0044862     VOLUME   441723.341 3760620.354 201.07
LOCATION L0044863     VOLUME   441718.342 3760620.253 201.06
LOCATION L0044864     VOLUME   441713.343 3760620.152 201.06
LOCATION L0044865     VOLUME   441708.344 3760620.051 201.06
LOCATION L0044866     VOLUME   441703.345 3760619.950 201.06
LOCATION L0044867     VOLUME   441698.346 3760619.849 201.06
LOCATION L0044868     VOLUME   441693.347 3760619.748 201.06
LOCATION L0044869     VOLUME   441688.348 3760619.647 201.02
LOCATION L0044870     VOLUME   441683.349 3760619.546 200.99
LOCATION L0044871     VOLUME   441678.350 3760619.445 200.96
LOCATION L0044872     VOLUME   441673.351 3760619.344 200.92
LOCATION L0044873     VOLUME   441668.352 3760619.243 200.89
LOCATION L0044874     VOLUME   441663.409 3760618.657 200.87
LOCATION L0044875     VOLUME   441658.516 3760617.627 200.84
LOCATION L0044876     VOLUME   441653.623 3760616.597 200.82
LOCATION L0044877     VOLUME   441648.731 3760615.567 200.80
LOCATION L0044878     VOLUME   441643.838 3760614.537 200.78
LOCATION L0044879     VOLUME   441638.945 3760613.507 200.77
LOCATION L0044880     VOLUME   441634.052 3760612.477 200.75
LOCATION L0044881     VOLUME   441629.160 3760611.447 200.74
LOCATION L0044882     VOLUME   441624.267 3760610.417 200.73
LOCATION L0044883     VOLUME   441619.374 3760609.387 200.71
LOCATION L0044884     VOLUME   441614.892 3760607.810 200.68
LOCATION L0044885     VOLUME   441612.539 3760603.398 200.63
LOCATION L0044886     VOLUME   441610.186 3760598.986 200.59
LOCATION L0044887     VOLUME   441607.833 3760594.574 200.53
LOCATION L0044888     VOLUME   441605.480 3760590.163 200.47
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LOCATION L0044890     VOLUME   441600.953 3760581.279 200.36
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LOCATION L0044893     VOLUME   441598.564 3760566.470 200.22
LOCATION L0044894     VOLUME   441597.768 3760561.534 200.19
LOCATION L0044895     VOLUME   441596.972 3760556.598 200.16
LOCATION L0044896     VOLUME   441597.517 3760551.793 200.13
LOCATION L0044897     VOLUME   441599.254 3760547.104 200.10
LOCATION L0044898     VOLUME   441600.990 3760542.415 200.08
LOCATION L0044899     VOLUME   441602.727 3760537.727 200.05
LOCATION L0044900     VOLUME   441604.463 3760533.038 200.03
LOCATION L0044901     VOLUME   441607.190 3760529.132 200.03
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   LOCATION L0044903     VOLUME   441615.511 3760523.585 200.05
   LOCATION L0044904     VOLUME   441619.671 3760520.811 200.08
   LOCATION L0044905     VOLUME   441623.831 3760518.038 200.12
   LOCATION L0044906     VOLUME   441627.991 3760515.264 200.15
   LOCATION L0044907     VOLUME   441632.536 3760513.289 200.19
   LOCATION L0044908     VOLUME   441637.299 3760511.769 200.23
   LOCATION L0044909     VOLUME   441642.062 3760510.249 200.26
   LOCATION L0044910     VOLUME   441646.826 3760508.728 200.24
   LOCATION L0044911     VOLUME   441651.589 3760507.208 200.21
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   LOCATION L0044913     VOLUME   441661.116 3760504.168 200.16
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   LOCATION L0044922     VOLUME   441705.604 3760500.301 200.09
   LOCATION L0044923     VOLUME   441710.603 3760500.212 200.09
   LOCATION L0044924     VOLUME   441715.602 3760500.122 200.08
   LOCATION L0044925     VOLUME   441720.602 3760500.032 200.08
   LOCATION L0044926     VOLUME   441725.601 3760499.942 200.07
   LOCATION L0044927     VOLUME   441730.600 3760499.852 200.05
   LOCATION L0044928     VOLUME   441735.599 3760499.762 200.04
   LOCATION L0044929     VOLUME   441740.598 3760499.673 200.03
** End of LINE VOLUME Source ID = SLINE65
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE66
** DESCRSRC Driveway 11
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 9.27E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 441996.400, 3760855.761, 202.59, 3.66, 2.33
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   LOCATION L0044932     VOLUME   441974.345 3760855.837 202.61
   LOCATION L0044933     VOLUME   441979.345 3760855.819 202.57
   LOCATION L0044934     VOLUME   441984.345 3760855.802 202.55
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** End of LINE VOLUME Source ID = SLINE66
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE67
** DESCRSRC On-site Circulation - PA 4 Loading Area 2
** PREFIX
** Length of Side = 5.00
** Configuration = Adjacent
** Emission Rate = 8.51E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 12
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** 441135.720, 3760914.196, 201.57, 3.66, 2.33
** 441134.839, 3761006.537, 202.09, 3.66, 2.33
** 441130.939, 3761036.958, 202.34, 3.66, 2.33
** 441101.299, 3761059.578, 202.84, 3.66, 2.33
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   LOCATION L0044938     VOLUME   440997.785 3760509.301 198.88
   LOCATION L0044939     VOLUME   441002.753 3760509.861 199.00
   LOCATION L0044940     VOLUME   441007.722 3760510.421 199.04
   LOCATION L0044941     VOLUME   441012.690 3760510.980 199.09
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   LOCATION L0044944     VOLUME   441027.596 3760512.660 199.22
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   LOCATION L0044954     VOLUME   441075.882 3760525.516 199.40
   LOCATION L0044955     VOLUME   441080.702 3760526.844 199.41
   LOCATION L0044956     VOLUME   441085.523 3760528.172 199.41
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** Source Parameters **
** LINE VOLUME Source ID = SLINE2
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   SRCPARAM L0040785     0.0000001805      3.66      5.58      2.89
   SRCPARAM L0040786     0.0000001805      3.66      5.58      2.89
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   SRCPARAM L0040790     0.0000001805      3.66      5.58      2.89
   SRCPARAM L0040791     0.0000001805      3.66      5.58      2.89
   SRCPARAM L0040792     0.0000001805      3.66      5.58      2.89
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   SRCPARAM L0040795     0.0000001805      3.66      5.58      2.89
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SRCPARAM L0040799     0.0000001805      3.66      5.58      2.89
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SRCPARAM L0040931     0.0000001805      3.66      5.58      2.89
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SRCPARAM L0040939     0.0000001805      3.66      5.58      2.89
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** LINE VOLUME Source ID = SLINE3
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   SRCPARAM L0040983     0.0000001203      3.66      5.58      2.89
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SRCPARAM L0041033     0.0000001203      3.66      5.58      2.89
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SRCPARAM L0041072     0.0000001203      3.66      5.58      2.89
SRCPARAM L0041073     0.0000001203      3.66      5.58      2.89
SRCPARAM L0041074     0.0000001203      3.66      5.58      2.89
SRCPARAM L0041075     0.0000001203      3.66      5.58      2.89
SRCPARAM L0041076     0.0000001203      3.66      5.58      2.89
SRCPARAM L0041077     0.0000001203      3.66      5.58      2.89
SRCPARAM L0041078     0.0000001203      3.66      5.58      2.89
SRCPARAM L0041079     0.0000001203      3.66      5.58      2.89
SRCPARAM L0041080     0.0000001203      3.66      5.58      2.89
SRCPARAM L0041081     0.0000001203      3.66      5.58      2.89
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   SRCPARAM L0041085     0.0000001203      3.66      5.58      2.89
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   SRCPARAM L0041087     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041088     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041089     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041090     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041091     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041092     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041093     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041094     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041095     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041096     0.0000001203      3.66      5.58      2.89
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   SRCPARAM L0041098     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041099     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041100     0.0000001203      3.66      5.58      2.89
   SRCPARAM L0041101     0.0000001203      3.66      5.58      2.89
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   SRCPARAM L0041107     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041108     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041109     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041110     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041111     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041112     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041113     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041114     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041115     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041116     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041117     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041118     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041119     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041120     0.00000006818      3.66      2.33      2.89
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   SRCPARAM L0041123     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041124     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041125     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041126     0.00000006818      3.66      2.33      2.89
   SRCPARAM L0041127     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041153     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041155     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041157     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041161     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041162     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041163     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041165     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041166     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041167     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041168     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041169     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041170     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041171     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041172     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041173     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041174     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041175     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041181     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041182     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041183     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041190     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041210     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041213     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041214     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041230     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041232     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041234     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041237     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041239     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041240     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041241     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041245     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041246     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041247     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041248     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041249     0.00000006818      3.66      2.33      2.89
SRCPARAM L0041250     0.00000006818      3.66      2.33      2.89
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SRCPARAM L0041268     0.00000006818      3.66      2.33      2.89
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   SRCPARAM L0041276     0.00000006818      3.66      2.33      2.89
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   SRCPARAM L0041282     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041283     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041284     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041285     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041286     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041287     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041288     0.00000006807      3.66      2.33      2.89
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   SRCPARAM L0041291     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041292     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041293     0.00000006807      3.66      2.33      2.89
   SRCPARAM L0041294     0.00000006807      3.66      2.33      2.89
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SRCPARAM L0041352     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041353     0.00000006807      3.66      2.33      2.89
SRCPARAM L0041354     0.00000006807      3.66      2.33      2.89
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   SRCPARAM L0041932     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041933     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041934     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041935     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041936     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041937     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041938     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041939     0.00000005535      3.66      2.33      2.89
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   SRCPARAM L0041940     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041941     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041942     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041943     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041944     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041945     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041946     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041947     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041948     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041949     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041950     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041951     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041952     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041953     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041954     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041955     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041956     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041957     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041958     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041959     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041960     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041961     0.00000005535      3.66      2.33      2.89
   SRCPARAM L0041962     0.00000005535      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0041963     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041964     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041965     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041966     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041967     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041968     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041969     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041970     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041971     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041972     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041973     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041974     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041975     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041976     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041977     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041978     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041979     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041980     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041981     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041982     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041983     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041984     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041985     0.0000000465      3.66      2.33      2.89
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   SRCPARAM L0041986     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041987     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041988     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041989     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041990     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041991     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041992     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041993     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041994     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041995     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041996     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041997     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041998     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0041999     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0042000     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0042001     0.0000000465      3.66      2.33      2.89
   SRCPARAM L0042002     0.0000000465      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0042003     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042004     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042005     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042006     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042007     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042008     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042009     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042010     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042011     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042012     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042013     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042014     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042015     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042016     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042017     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042018     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042019     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042020     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042021     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042022     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042023     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042024     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042025     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042026     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042027     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042028     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042029     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042030     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042031     0.00000004472      3.66      2.33      2.89
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   SRCPARAM L0042032     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042033     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042034     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042035     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042036     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042037     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042038     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042039     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042040     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042041     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042042     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042043     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042044     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042045     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042046     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042047     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042048     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042049     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042050     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042051     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042052     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042053     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042054     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042055     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042056     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042057     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042058     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042059     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042060     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042061     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042062     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042063     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042064     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042065     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042066     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042067     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042068     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042069     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042070     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042071     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042072     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042073     0.00000004472      3.66      2.33      2.89
   SRCPARAM L0042074     0.00000004472      3.66      2.33      2.89
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0042075     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042076     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042077     0.00000003475      3.66      2.33      2.89
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   SRCPARAM L0042078     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042079     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042080     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042081     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042082     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042083     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042084     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042085     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042086     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042087     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042088     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042089     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042090     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042091     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042092     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042093     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042094     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042095     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042096     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042097     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042098     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042099     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042100     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042101     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042102     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042103     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042104     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042105     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042106     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042107     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042108     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042109     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042110     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042111     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042112     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042113     0.00000003475      3.66      2.33      2.89
   SRCPARAM L0042114     0.00000003475      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0042115     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042116     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042117     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042118     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042119     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042120     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042121     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042122     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042123     0.0000000232      3.66      2.33      2.89
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   SRCPARAM L0042124     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042125     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042126     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042127     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042128     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042129     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042130     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042131     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042132     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042133     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042134     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042135     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042136     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042137     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042138     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042139     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042140     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042141     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042142     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042143     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042144     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042145     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042146     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042147     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042148     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042149     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042150     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042151     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042152     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042153     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042154     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042155     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042156     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042157     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042158     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042159     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042160     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042161     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042162     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042163     0.0000000232      3.66      2.33      2.89
   SRCPARAM L0042164     0.0000000232      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE18
   SRCPARAM L0042165     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042166     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042167     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042168     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042169     0.0000001204      3.66      2.33      2.89
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SRCPARAM L0042170     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042171     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042172     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042173     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042174     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042175     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042176     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042177     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042178     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042179     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042180     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042181     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042182     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042183     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042184     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042185     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042186     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042187     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042188     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042189     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042190     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042191     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042192     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042193     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042194     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042195     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042196     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042197     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042198     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042199     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042200     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042201     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042202     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042203     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042204     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042205     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042206     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042207     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042208     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042209     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042210     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042211     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042212     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042213     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042214     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042215     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042216     0.0000001204      3.66      2.33      2.89
SRCPARAM L0042217     0.0000001204      3.66      2.33      2.89
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   SRCPARAM L0042218     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042219     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042220     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042221     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042222     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042223     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042224     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042225     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042226     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042227     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042228     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042229     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042230     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042231     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042232     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042233     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042234     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042235     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042236     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042237     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042238     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042239     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042240     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042241     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042242     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042243     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042244     0.0000001204      3.66      2.33      2.89
   SRCPARAM L0042245     0.0000001204      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE19
   SRCPARAM L0042246     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042247     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042248     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042249     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042250     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042251     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042252     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042253     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042254     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042255     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042256     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042257     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042258     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042259     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042260     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042261     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042262     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042263     0.00000008667      3.66      2.33      2.89
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   SRCPARAM L0042264     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042265     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042266     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042267     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042268     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042269     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042270     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042271     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042272     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042273     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042274     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042275     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042276     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042277     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042278     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042279     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042280     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042281     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042282     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042283     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042284     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042285     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042286     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042287     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042288     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042289     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042290     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042291     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042292     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042293     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042294     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042295     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042296     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042297     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042298     0.00000008667      3.66      2.33      2.89
   SRCPARAM L0042299     0.00000008667      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE20
   SRCPARAM L0042300     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042301     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042302     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042303     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042304     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042305     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042306     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042307     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042308     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042309     0.0000000564      3.66      2.33      2.89
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   SRCPARAM L0042310     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042311     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042312     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042313     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042314     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042315     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042316     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042317     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042318     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042319     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042320     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042321     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042322     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042323     0.0000000564      3.66      2.33      2.89
   SRCPARAM L0042324     0.0000000564      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE21
   SRCPARAM L0042325     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042326     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042327     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042328     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042329     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042330     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042331     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042332     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042333     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042334     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042335     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042336     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042337     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042338     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042339     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042340     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042341     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042342     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042343     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042344     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042345     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042346     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042347     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042348     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042349     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042350     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042351     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042352     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042353     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042354     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042355     0.00000004195      3.66      2.33      2.89
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   SRCPARAM L0042356     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042357     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042358     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042359     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042360     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042361     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042362     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042363     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042364     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042365     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042366     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042367     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042368     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042369     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042370     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042371     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042372     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042373     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042374     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042375     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042376     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042377     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042378     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042379     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042380     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042381     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042382     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042383     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042384     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042385     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042386     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042387     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042388     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042389     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042390     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042391     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042392     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042393     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042394     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042395     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042396     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042397     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042398     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042399     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042400     0.00000004195      3.66      2.33      2.89
   SRCPARAM L0042401     0.00000004195      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE22
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SRCPARAM L0042402     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042403     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042404     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042405     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042406     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042407     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042408     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042409     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042410     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042411     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042412     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042413     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042414     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042415     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042416     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042417     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042418     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042419     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042420     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042421     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042422     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042423     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042424     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042425     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042426     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042427     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042428     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042429     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042430     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042431     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042432     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042433     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042434     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042435     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042436     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042437     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042438     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042439     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042440     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042441     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042442     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042443     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042444     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042445     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042446     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042447     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042448     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042449     0.000000008008      3.66      2.33      2.89
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SRCPARAM L0042450     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042451     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042452     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042453     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042454     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042455     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042456     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042457     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042458     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042459     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042460     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042461     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042462     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042463     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042464     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042465     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042466     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042467     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042468     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042469     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042470     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042471     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042472     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042473     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042474     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042475     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042476     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042477     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042478     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042479     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042480     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042481     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042482     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042483     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042484     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042485     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042486     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042487     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042488     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042489     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042490     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042491     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042492     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042493     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042494     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042495     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042496     0.000000008008      3.66      2.33      2.89
SRCPARAM L0042497     0.000000008008      3.66      2.33      2.89
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   SRCPARAM L0042498     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042499     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042500     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042501     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042502     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042503     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042504     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042505     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042506     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042507     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042508     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042509     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042510     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042511     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042512     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042513     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042514     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042515     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042516     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042517     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042518     0.000000008008      3.66      2.33      2.89
   SRCPARAM L0042519     0.000000008008      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE23
   SRCPARAM L0042520     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042521     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042522     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042523     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042524     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042525     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042526     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042527     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042528     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042529     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042530     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042531     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042532     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042533     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042534     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042535     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042536     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042537     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042538     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042539     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042540     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042541     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042542     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042543     0.00000004861      3.66      2.33      2.89
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   SRCPARAM L0042544     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042545     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042546     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042547     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042548     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042549     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042550     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042551     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042552     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042553     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042554     0.00000004861      3.66      2.33      2.89
   SRCPARAM L0042555     0.00000004861      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE24
   SRCPARAM L0042556     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042557     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042558     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042559     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042560     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042561     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042562     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042563     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042564     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042565     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042566     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042567     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042568     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042569     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042570     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042571     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042572     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042573     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042574     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042575     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042576     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042577     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042578     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042579     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042580     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042581     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042582     0.00000005179      3.66      2.33      2.89
   SRCPARAM L0042583     0.00000005179      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE25
   SRCPARAM L0042584     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042585     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042586     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042587     0.00000003484      3.66      2.33      2.89
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   SRCPARAM L0042588     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042589     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042590     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042591     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042592     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042593     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042594     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042595     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042596     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042597     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042598     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042599     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042600     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042601     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042602     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042603     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042604     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042605     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042606     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042607     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042608     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042609     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042610     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042611     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042612     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042613     0.00000003484      3.66      2.33      2.89
   SRCPARAM L0042614     0.00000003484      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE26
   SRCPARAM L0042615     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042616     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042617     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042618     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042619     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042620     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042621     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042622     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042623     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042624     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042625     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042626     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042627     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042628     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042629     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042630     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042631     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042632     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042633     0.00000001931      3.66      2.33      2.89
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   SRCPARAM L0042634     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042635     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042636     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042637     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042638     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042639     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042640     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042641     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042642     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042643     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042644     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042645     0.00000001931      3.66      2.33      2.89
   SRCPARAM L0042646     0.00000001931      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0042647     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042648     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042649     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042650     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042651     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042652     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042653     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042654     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042655     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042656     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042657     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042658     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042659     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042660     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042661     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042662     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042663     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042664     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042665     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042666     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042667     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042668     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042669     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042670     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042671     0.00000001392      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0042672     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042673     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042674     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042675     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042676     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042677     0.00000001388      3.66      2.33      2.89
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   SRCPARAM L0042678     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042679     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042680     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042681     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042682     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042683     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042684     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042685     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042686     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042687     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042688     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042689     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042690     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042691     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042692     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042693     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042694     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042695     0.00000001388      3.66      2.33      2.89
   SRCPARAM L0042696     0.00000001388      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0042697     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042698     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042699     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042700     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042701     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042702     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042703     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042704     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042705     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042706     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042707     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042708     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042709     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042710     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042711     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042712     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042713     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042714     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042715     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042716     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042717     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042718     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042719     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042720     0.00000001392      3.66      2.33      2.89
   SRCPARAM L0042721     0.00000001392      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
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   SRCPARAM L0042722     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042723     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042724     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042725     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042726     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042727     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042728     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042729     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042730     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042731     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042732     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042733     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042734     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042735     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042736     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042737     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042738     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042739     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042740     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042741     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042742     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042743     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042744     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042745     0.00000002756      3.66      2.33      2.89
   SRCPARAM L0042746     0.00000002756      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0042747     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042748     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042749     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042750     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042751     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042752     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042753     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042754     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042755     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042756     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042757     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042758     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042759     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042760     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042761     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042762     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042763     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042764     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042765     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042766     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042767     0.00000008224      3.66      2.33      2.89
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SRCPARAM L0042768     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042769     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042770     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042771     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042772     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042773     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042774     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042775     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042776     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042777     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042778     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042779     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042780     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042781     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042782     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042783     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042784     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042785     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042786     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042787     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042788     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042789     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042790     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042791     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042792     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042793     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042794     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042795     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042796     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042797     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042798     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042799     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042800     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042801     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042802     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042803     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042804     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042805     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042806     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042807     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042808     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042809     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042810     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042811     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042812     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042813     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042814     0.00000008224      3.66      2.33      2.89
SRCPARAM L0042815     0.00000008224      3.66      2.33      2.89
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   SRCPARAM L0042816     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042817     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042818     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042819     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042820     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042821     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042822     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042823     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042824     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042825     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042826     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042827     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042828     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042829     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042830     0.00000008224      3.66      2.33      2.89
   SRCPARAM L0042831     0.00000008224      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0042832     0.00000001675      3.66      2.33      2.89
   SRCPARAM L0042833     0.00000001675      3.66      2.33      2.89
   SRCPARAM L0042834     0.00000001675      3.66      2.33      2.89
   SRCPARAM L0042835     0.00000001675      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0042836     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042837     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042838     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042839     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042840     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042841     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042842     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042843     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042844     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042845     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042846     0.00000008175      3.66      2.33      2.89
   SRCPARAM L0042847     0.00000008175      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0042848     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042849     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042850     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042851     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042852     0.00000003383      3.66      2.33      2.89
   SRCPARAM L0042853     0.00000003383      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0042854     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042855     0.0000000258      3.66      2.33      2.89
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   SRCPARAM L0042856     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042857     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042858     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042859     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042860     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042861     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042862     0.0000000258      3.66      2.33      2.89
   SRCPARAM L0042863     0.0000000258      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0042864     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042865     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042866     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042867     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042868     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042869     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042870     0.00000007525      3.66      2.33      2.89
   SRCPARAM L0042871     0.00000007525      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0042872     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042873     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042874     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042875     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042876     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042877     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042878     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042879     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042880     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042881     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042882     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042883     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042884     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042885     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042886     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042887     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042888     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042889     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042890     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042891     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042892     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042893     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042894     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042895     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042896     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042897     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042898     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042899     0.00000005693      3.66      2.33      2.89
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   SRCPARAM L0042900     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042901     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042902     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042903     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042904     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042905     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042906     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042907     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042908     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042909     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042910     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042911     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042912     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042913     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042914     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042915     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042916     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042917     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042918     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042919     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042920     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042921     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042922     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042923     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042924     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042925     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042926     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042927     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042928     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042929     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042930     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042931     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042932     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042933     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042934     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042935     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042936     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042937     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042938     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042939     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042940     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042941     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042942     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042943     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042944     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042945     0.00000005693      3.66      2.33      2.89
   SRCPARAM L0042946     0.00000005693      3.66      2.33      2.89
** ------------------------------------------------------------------
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** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0042947     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042948     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042949     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042950     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042951     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042952     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042953     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042954     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042955     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042956     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042957     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042958     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042959     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042960     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042961     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042962     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042963     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042964     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042965     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042966     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042967     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042968     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042969     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042970     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042971     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042972     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042973     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042974     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042975     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042976     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042977     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042978     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042979     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042980     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042981     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042982     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042983     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042984     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042985     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042986     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042987     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042988     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042989     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042990     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042991     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042992     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042993     0.00000002267      3.66      2.33      2.89
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   SRCPARAM L0042994     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042995     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042996     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042997     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042998     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0042999     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043000     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043001     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043002     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043003     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043004     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043005     0.00000002267      3.66      2.33      2.89
   SRCPARAM L0043006     0.00000002267      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE39
   SRCPARAM L0043007     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043008     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043009     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043010     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043011     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043012     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043013     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043014     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043015     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043016     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043017     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043018     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043019     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043020     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043021     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043022     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043023     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043024     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043025     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043026     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043027     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043028     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043029     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043030     0.00000000676      3.66      2.33      2.89
   SRCPARAM L0043031     0.00000000676      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE40
   SRCPARAM L0043032     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043033     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043034     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043035     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043036     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043037     0.000000006818      3.66      2.33      2.89
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   SRCPARAM L0043038     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043039     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043040     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043041     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043042     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043043     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043044     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043045     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043046     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043047     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043048     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043049     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043050     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043051     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043052     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043053     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043054     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043055     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043056     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043057     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043058     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043059     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043060     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043061     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043062     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043063     0.000000006818      3.66      2.33      2.89
   SRCPARAM L0043064     0.000000006818      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE41
   SRCPARAM L0043065     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043066     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043067     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043068     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043069     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043070     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043071     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043072     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043073     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043074     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043075     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043076     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043077     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043078     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043079     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043080     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043081     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043082     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043083     0.000000006918      3.66      2.33      2.89
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   SRCPARAM L0043084     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043085     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043086     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043087     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043088     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043089     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043090     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043091     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043092     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043093     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043094     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043095     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043096     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043097     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043098     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043099     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043100     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043101     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043102     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043103     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043104     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043105     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043106     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043107     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043108     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043109     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043110     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043111     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043112     0.000000006918      3.66      2.33      2.89
   SRCPARAM L0043113     0.000000006918      3.66      2.33      2.89
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE42
   SRCPARAM L0043114     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043115     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043116     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043117     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043118     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043119     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043120     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043121     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043122     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043123     0.000000001664      3.66      2.33      2.89
   SRCPARAM L0043124     0.000000001664      3.66      2.33      2.89
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE43
   SRCPARAM L0043125     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043126     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043127     0.0000000128      3.66      2.33      2.89
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   SRCPARAM L0043128     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043129     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043130     0.0000000128      3.66      2.33      2.89
   SRCPARAM L0043131     0.0000000128      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE44
   SRCPARAM L0043132     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043133     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043134     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043135     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043136     0.000000017      3.66      2.33      2.89
   SRCPARAM L0043137     0.000000017      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE45
   SRCPARAM L0043138     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043139     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043140     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043141     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043142     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043143     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043144     0.00000003225      3.66      2.33      2.89
   SRCPARAM L0043145     0.00000003225      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE46
   SRCPARAM L0043146     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043147     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043148     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043149     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043150     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043151     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043152     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043153     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043154     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043155     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043156     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043157     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043158     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043159     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043160     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043161     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043162     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043163     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043164     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043165     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043166     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043167     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043168     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043169     0.00000006859      3.66      2.33      2.89
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SRCPARAM L0043170     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043171     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043172     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043173     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043174     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043175     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043176     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043177     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043178     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043179     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043180     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043181     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043182     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043183     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043184     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043185     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043186     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043187     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043188     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043189     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043190     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043191     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043192     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043193     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043194     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043195     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043196     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043197     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043198     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043199     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043200     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043201     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043202     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043203     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043204     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043205     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043206     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043207     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043208     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043209     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043210     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043211     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043212     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043213     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043214     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043215     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043216     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043217     0.00000006859      3.66      2.33      2.89
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SRCPARAM L0043218     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043219     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043220     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043221     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043222     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043223     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043224     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043225     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043226     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043227     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043228     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043229     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043230     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043231     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043232     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043233     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043234     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043235     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043236     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043237     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043238     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043239     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043240     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043241     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043242     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043243     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043244     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043245     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043246     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043247     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043248     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043249     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043250     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043251     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043252     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043253     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043254     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043255     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043256     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043257     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043258     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043259     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043260     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043261     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043262     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043263     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043264     0.00000006859      3.66      2.33      2.89
SRCPARAM L0043265     0.00000006859      3.66      2.33      2.89
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   SRCPARAM L0043266     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043267     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043268     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043269     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043270     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043271     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043272     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043273     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043274     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043275     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043276     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043277     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043278     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043279     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043280     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043281     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043282     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043283     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043284     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043285     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043286     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043287     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043288     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043289     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043290     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043291     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043292     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043293     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043294     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043295     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043296     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043297     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043298     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043299     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043300     0.00000006859      3.66      2.33      2.89
   SRCPARAM L0043301     0.00000006859      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE47
   SRCPARAM L0043302     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043303     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043304     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043305     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043306     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043307     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043308     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043309     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043310     0.00000005921      3.66      2.33      2.89
   SRCPARAM L0043311     0.00000005921      3.66      2.33      2.89
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SRCPARAM L0043312     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043313     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043314     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043315     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043316     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043317     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043318     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043319     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043320     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043321     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043322     0.00000005921      3.66      2.33      2.89
SRCPARAM L0043323     0.00000005921      3.66      2.33      2.89
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   SRCPARAM L0043609     0.00000005866      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE49
   SRCPARAM L0043610           0.0      3.66      1.40      2.89
   SRCPARAM L0043611           0.0      3.66      1.40      2.89
   SRCPARAM L0043612           0.0      3.66      1.40      2.89
   SRCPARAM L0043613           0.0      3.66      1.40      2.89
   SRCPARAM L0043614           0.0      3.66      1.40      2.89
   SRCPARAM L0043615           0.0      3.66      1.40      2.89
   SRCPARAM L0043616           0.0      3.66      1.40      2.89
   SRCPARAM L0043617           0.0      3.66      1.40      2.89
   SRCPARAM L0043618           0.0      3.66      1.40      2.89
   SRCPARAM L0043619           0.0      3.66      1.40      2.89
   SRCPARAM L0043620           0.0      3.66      1.40      2.89
   SRCPARAM L0043621           0.0      3.66      1.40      2.89
   SRCPARAM L0043622           0.0      3.66      1.40      2.89
   SRCPARAM L0043623           0.0      3.66      1.40      2.89
   SRCPARAM L0043624           0.0      3.66      1.40      2.89
   SRCPARAM L0043625           0.0      3.66      1.40      2.89
   SRCPARAM L0043626           0.0      3.66      1.40      2.89
   SRCPARAM L0043627           0.0      3.66      1.40      2.89
   SRCPARAM L0043628           0.0      3.66      1.40      2.89
   SRCPARAM L0043629           0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE50
   SRCPARAM L0043630           0.0      3.66      1.40      2.89
   SRCPARAM L0043631           0.0      3.66      1.40      2.89
   SRCPARAM L0043632           0.0      3.66      1.40      2.89
   SRCPARAM L0043633           0.0      3.66      1.40      2.89
   SRCPARAM L0043634           0.0      3.66      1.40      2.89
   SRCPARAM L0043635           0.0      3.66      1.40      2.89
   SRCPARAM L0043636           0.0      3.66      1.40      2.89
   SRCPARAM L0043637           0.0      3.66      1.40      2.89
   SRCPARAM L0043638           0.0      3.66      1.40      2.89
   SRCPARAM L0043639           0.0      3.66      1.40      2.89
   SRCPARAM L0043640           0.0      3.66      1.40      2.89
   SRCPARAM L0043641           0.0      3.66      1.40      2.89
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   SRCPARAM L0043642          0.0      3.66      1.40      2.89
   SRCPARAM L0043643          0.0      3.66      1.40      2.89
   SRCPARAM L0043644          0.0      3.66      1.40      2.89
   SRCPARAM L0043645          0.0      3.66      1.40      2.89
   SRCPARAM L0043646          0.0      3.66      1.40      2.89
   SRCPARAM L0043647          0.0      3.66      1.40      2.89
   SRCPARAM L0043648          0.0      3.66      1.40      2.89
   SRCPARAM L0043649          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE51
   SRCPARAM L0043650          0.0      3.66      1.40      2.89
   SRCPARAM L0043651          0.0      3.66      1.40      2.89
   SRCPARAM L0043652          0.0      3.66      1.40      2.89
   SRCPARAM L0043653          0.0      3.66      1.40      2.89
   SRCPARAM L0043654          0.0      3.66      1.40      2.89
   SRCPARAM L0043655          0.0      3.66      1.40      2.89
   SRCPARAM L0043656          0.0      3.66      1.40      2.89
   SRCPARAM L0043657          0.0      3.66      1.40      2.89
   SRCPARAM L0043658          0.0      3.66      1.40      2.89
   SRCPARAM L0043659          0.0      3.66      1.40      2.89
   SRCPARAM L0043660          0.0      3.66      1.40      2.89
   SRCPARAM L0043661          0.0      3.66      1.40      2.89
   SRCPARAM L0043662          0.0      3.66      1.40      2.89
   SRCPARAM L0043663          0.0      3.66      1.40      2.89
   SRCPARAM L0043664          0.0      3.66      1.40      2.89
   SRCPARAM L0043665          0.0      3.66      1.40      2.89
   SRCPARAM L0043666          0.0      3.66      1.40      2.89
   SRCPARAM L0043667          0.0      3.66      1.40      2.89
   SRCPARAM L0043668          0.0      3.66      1.40      2.89
   SRCPARAM L0043669          0.0      3.66      1.40      2.89
   SRCPARAM L0043670          0.0      3.66      1.40      2.89
   SRCPARAM L0043671          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE52
   SRCPARAM L0043672          0.0      3.66      1.40      2.89
   SRCPARAM L0043673          0.0      3.66      1.40      2.89
   SRCPARAM L0043674          0.0      3.66      1.40      2.89
   SRCPARAM L0043675          0.0      3.66      1.40      2.89
   SRCPARAM L0043676          0.0      3.66      1.40      2.89
   SRCPARAM L0043677          0.0      3.66      1.40      2.89
   SRCPARAM L0043678          0.0      3.66      1.40      2.89
   SRCPARAM L0043679          0.0      3.66      1.40      2.89
   SRCPARAM L0043680          0.0      3.66      1.40      2.89
   SRCPARAM L0043681          0.0      3.66      1.40      2.89
   SRCPARAM L0043682          0.0      3.66      1.40      2.89
   SRCPARAM L0043683          0.0      3.66      1.40      2.89
   SRCPARAM L0043684          0.0      3.66      1.40      2.89
   SRCPARAM L0043685          0.0      3.66      1.40      2.89
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   SRCPARAM L0043686           0.0      3.66      1.40      2.89
   SRCPARAM L0043687           0.0      3.66      1.40      2.89
   SRCPARAM L0043688           0.0      3.66      1.40      2.89
   SRCPARAM L0043689           0.0      3.66      1.40      2.89
   SRCPARAM L0043690           0.0      3.66      1.40      2.89
   SRCPARAM L0043691           0.0      3.66      1.40      2.89
   SRCPARAM L0043692           0.0      3.66      1.40      2.89
   SRCPARAM L0043693           0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE53
   SRCPARAM L0043694           0.0      3.66      1.40      2.89
   SRCPARAM L0043695           0.0      3.66      1.40      2.89
   SRCPARAM L0043696           0.0      3.66      1.40      2.89
   SRCPARAM L0043697           0.0      3.66      1.40      2.89
   SRCPARAM L0043698           0.0      3.66      1.40      2.89
   SRCPARAM L0043699           0.0      3.66      1.40      2.89
   SRCPARAM L0043700           0.0      3.66      1.40      2.89
   SRCPARAM L0043701           0.0      3.66      1.40      2.89
   SRCPARAM L0043702           0.0      3.66      1.40      2.89
   SRCPARAM L0043703           0.0      3.66      1.40      2.89
   SRCPARAM L0043704           0.0      3.66      1.40      2.89
   SRCPARAM L0043705           0.0      3.66      1.40      2.89
   SRCPARAM L0043706           0.0      3.66      1.40      2.89
   SRCPARAM L0043707           0.0      3.66      1.40      2.89
   SRCPARAM L0043708           0.0      3.66      1.40      2.89
   SRCPARAM L0043709           0.0      3.66      1.40      2.89
   SRCPARAM L0043710           0.0      3.66      1.40      2.89
   SRCPARAM L0043711           0.0      3.66      1.40      2.89
   SRCPARAM L0043712           0.0      3.66      1.40      2.89
   SRCPARAM L0043713           0.0      3.66      1.40      2.89
   SRCPARAM L0043714           0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE54
   SRCPARAM L0043715           0.0      3.66      1.40      2.89
   SRCPARAM L0043716           0.0      3.66      1.40      2.89
   SRCPARAM L0043717           0.0      3.66      1.40      2.89
   SRCPARAM L0043718           0.0      3.66      1.40      2.89
   SRCPARAM L0043719           0.0      3.66      1.40      2.89
   SRCPARAM L0043720           0.0      3.66      1.40      2.89
   SRCPARAM L0043721           0.0      3.66      1.40      2.89
   SRCPARAM L0043722           0.0      3.66      1.40      2.89
   SRCPARAM L0043723           0.0      3.66      1.40      2.89
   SRCPARAM L0043724           0.0      3.66      1.40      2.89
   SRCPARAM L0043725           0.0      3.66      1.40      2.89
   SRCPARAM L0043726           0.0      3.66      1.40      2.89
   SRCPARAM L0043727           0.0      3.66      1.40      2.89
   SRCPARAM L0043728           0.0      3.66      1.40      2.89
   SRCPARAM L0043729           0.0      3.66      1.40      2.89
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SRCPARAM L0043730          0.0      3.66      1.40      2.89
SRCPARAM L0043731          0.0      3.66      1.40      2.89
SRCPARAM L0043732          0.0      3.66      1.40      2.89
SRCPARAM L0043733          0.0      3.66      1.40      2.89
SRCPARAM L0043734          0.0      3.66      1.40      2.89
SRCPARAM L0043735          0.0      3.66      1.40      2.89
SRCPARAM L0043736          0.0      3.66      1.40      2.89
SRCPARAM L0043737          0.0      3.66      1.40      2.89
SRCPARAM L0043738          0.0      3.66      1.40      2.89
SRCPARAM L0043739          0.0      3.66      1.40      2.89
SRCPARAM L0043740          0.0      3.66      1.40      2.89
SRCPARAM L0043741          0.0      3.66      1.40      2.89
SRCPARAM L0043742          0.0      3.66      1.40      2.89
SRCPARAM L0043743          0.0      3.66      1.40      2.89
SRCPARAM L0043744          0.0      3.66      1.40      2.89
SRCPARAM L0043745          0.0      3.66      1.40      2.89
SRCPARAM L0043746          0.0      3.66      1.40      2.89
SRCPARAM L0043747          0.0      3.66      1.40      2.89
SRCPARAM L0043748          0.0      3.66      1.40      2.89
SRCPARAM L0043749          0.0      3.66      1.40      2.89
SRCPARAM L0043750          0.0      3.66      1.40      2.89
SRCPARAM L0043751          0.0      3.66      1.40      2.89
SRCPARAM L0043752          0.0      3.66      1.40      2.89
SRCPARAM L0043753          0.0      3.66      1.40      2.89
SRCPARAM L0043754          0.0      3.66      1.40      2.89
SRCPARAM L0043755          0.0      3.66      1.40      2.89
SRCPARAM L0043756          0.0      3.66      1.40      2.89
SRCPARAM L0043757          0.0      3.66      1.40      2.89
SRCPARAM L0043758          0.0      3.66      1.40      2.89
SRCPARAM L0043759          0.0      3.66      1.40      2.89
SRCPARAM L0043760          0.0      3.66      1.40      2.89
SRCPARAM L0043761          0.0      3.66      1.40      2.89
SRCPARAM L0043762          0.0      3.66      1.40      2.89
SRCPARAM L0043763          0.0      3.66      1.40      2.89
SRCPARAM L0043764          0.0      3.66      1.40      2.89
SRCPARAM L0043765          0.0      3.66      1.40      2.89
SRCPARAM L0043766          0.0      3.66      1.40      2.89
SRCPARAM L0043767          0.0      3.66      1.40      2.89
SRCPARAM L0043768          0.0      3.66      1.40      2.89
SRCPARAM L0043769          0.0      3.66      1.40      2.89
SRCPARAM L0043770          0.0      3.66      1.40      2.89
SRCPARAM L0043771          0.0      3.66      1.40      2.89
SRCPARAM L0043772          0.0      3.66      1.40      2.89
SRCPARAM L0043773          0.0      3.66      1.40      2.89
SRCPARAM L0043774          0.0      3.66      1.40      2.89
SRCPARAM L0043775          0.0      3.66      1.40      2.89
SRCPARAM L0043776          0.0      3.66      1.40      2.89
SRCPARAM L0043777          0.0      3.66      1.40      2.89
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   SRCPARAM L0043778          0.0      3.66      1.40      2.89
   SRCPARAM L0043779          0.0      3.66      1.40      2.89
   SRCPARAM L0043780          0.0      3.66      1.40      2.89
   SRCPARAM L0043781          0.0      3.66      1.40      2.89
   SRCPARAM L0043782          0.0      3.66      1.40      2.89
   SRCPARAM L0043783          0.0      3.66      1.40      2.89
   SRCPARAM L0043784          0.0      3.66      1.40      2.89
   SRCPARAM L0043785          0.0      3.66      1.40      2.89
   SRCPARAM L0043786          0.0      3.66      1.40      2.89
   SRCPARAM L0043787          0.0      3.66      1.40      2.89
   SRCPARAM L0043788          0.0      3.66      1.40      2.89
   SRCPARAM L0043789          0.0      3.66      1.40      2.89
   SRCPARAM L0043790          0.0      3.66      1.40      2.89
   SRCPARAM L0043791          0.0      3.66      1.40      2.89
   SRCPARAM L0043792          0.0      3.66      1.40      2.89
   SRCPARAM L0043793          0.0      3.66      1.40      2.89
   SRCPARAM L0043794          0.0      3.66      1.40      2.89
   SRCPARAM L0043795          0.0      3.66      1.40      2.89
   SRCPARAM L0043796          0.0      3.66      1.40      2.89
   SRCPARAM L0043797          0.0      3.66      1.40      2.89
   SRCPARAM L0043798          0.0      3.66      1.40      2.89
   SRCPARAM L0043799          0.0      3.66      1.40      2.89
   SRCPARAM L0043800          0.0      3.66      1.40      2.89
   SRCPARAM L0043801          0.0      3.66      1.40      2.89
   SRCPARAM L0043802          0.0      3.66      1.40      2.89
   SRCPARAM L0043803          0.0      3.66      1.40      2.89
   SRCPARAM L0043804          0.0      3.66      1.40      2.89
   SRCPARAM L0043805          0.0      3.66      1.40      2.89
   SRCPARAM L0043806          0.0      3.66      1.40      2.89
   SRCPARAM L0043807          0.0      3.66      1.40      2.89
   SRCPARAM L0043808          0.0      3.66      1.40      2.89
   SRCPARAM L0043809          0.0      3.66      1.40      2.89
   SRCPARAM L0043810          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE55
   SRCPARAM L0043811          0.0      3.66      1.40      2.89
   SRCPARAM L0043812          0.0      3.66      1.40      2.89
   SRCPARAM L0043813          0.0      3.66      1.40      2.89
   SRCPARAM L0043814          0.0      3.66      1.40      2.89
   SRCPARAM L0043815          0.0      3.66      1.40      2.89
   SRCPARAM L0043816          0.0      3.66      1.40      2.89
   SRCPARAM L0043817          0.0      3.66      1.40      2.89
   SRCPARAM L0043818          0.0      3.66      1.40      2.89
   SRCPARAM L0043819          0.0      3.66      1.40      2.89
   SRCPARAM L0043820          0.0      3.66      1.40      2.89
   SRCPARAM L0043821          0.0      3.66      1.40      2.89
   SRCPARAM L0043822          0.0      3.66      1.40      2.89
   SRCPARAM L0043823          0.0      3.66      1.40      2.89
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SRCPARAM L0043824          0.0      3.66      1.40      2.89
SRCPARAM L0043825          0.0      3.66      1.40      2.89
SRCPARAM L0043826          0.0      3.66      1.40      2.89
SRCPARAM L0043827          0.0      3.66      1.40      2.89
SRCPARAM L0043828          0.0      3.66      1.40      2.89
SRCPARAM L0043829          0.0      3.66      1.40      2.89
SRCPARAM L0043830          0.0      3.66      1.40      2.89
SRCPARAM L0043831          0.0      3.66      1.40      2.89
SRCPARAM L0043832          0.0      3.66      1.40      2.89
SRCPARAM L0043833          0.0      3.66      1.40      2.89
SRCPARAM L0043834          0.0      3.66      1.40      2.89
SRCPARAM L0043835          0.0      3.66      1.40      2.89
SRCPARAM L0043836          0.0      3.66      1.40      2.89
SRCPARAM L0043837          0.0      3.66      1.40      2.89
SRCPARAM L0043838          0.0      3.66      1.40      2.89
SRCPARAM L0043839          0.0      3.66      1.40      2.89
SRCPARAM L0043840          0.0      3.66      1.40      2.89
SRCPARAM L0043841          0.0      3.66      1.40      2.89
SRCPARAM L0043842          0.0      3.66      1.40      2.89
SRCPARAM L0043843          0.0      3.66      1.40      2.89
SRCPARAM L0043844          0.0      3.66      1.40      2.89
SRCPARAM L0043845          0.0      3.66      1.40      2.89
SRCPARAM L0043846          0.0      3.66      1.40      2.89
SRCPARAM L0043847          0.0      3.66      1.40      2.89
SRCPARAM L0043848          0.0      3.66      1.40      2.89
SRCPARAM L0043849          0.0      3.66      1.40      2.89
SRCPARAM L0043850          0.0      3.66      1.40      2.89
SRCPARAM L0043851          0.0      3.66      1.40      2.89
SRCPARAM L0043852          0.0      3.66      1.40      2.89
SRCPARAM L0043853          0.0      3.66      1.40      2.89
SRCPARAM L0043854          0.0      3.66      1.40      2.89
SRCPARAM L0043855          0.0      3.66      1.40      2.89
SRCPARAM L0043856          0.0      3.66      1.40      2.89
SRCPARAM L0043857          0.0      3.66      1.40      2.89
SRCPARAM L0043858          0.0      3.66      1.40      2.89
SRCPARAM L0043859          0.0      3.66      1.40      2.89
SRCPARAM L0043860          0.0      3.66      1.40      2.89
SRCPARAM L0043861          0.0      3.66      1.40      2.89
SRCPARAM L0043862          0.0      3.66      1.40      2.89
SRCPARAM L0043863          0.0      3.66      1.40      2.89
SRCPARAM L0043864          0.0      3.66      1.40      2.89
SRCPARAM L0043865          0.0      3.66      1.40      2.89
SRCPARAM L0043866          0.0      3.66      1.40      2.89
SRCPARAM L0043867          0.0      3.66      1.40      2.89
SRCPARAM L0043868          0.0      3.66      1.40      2.89
SRCPARAM L0043869          0.0      3.66      1.40      2.89
SRCPARAM L0043870          0.0      3.66      1.40      2.89
SRCPARAM L0043871          0.0      3.66      1.40      2.89
```

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   SRCPARAM L0043872          0.0      3.66      1.40      2.89
   SRCPARAM L0043873          0.0      3.66      1.40      2.89
   SRCPARAM L0043874          0.0      3.66      1.40      2.89
   SRCPARAM L0043875          0.0      3.66      1.40      2.89
   SRCPARAM L0043876          0.0      3.66      1.40      2.89
   SRCPARAM L0043877          0.0      3.66      1.40      2.89
   SRCPARAM L0043878          0.0      3.66      1.40      2.89
   SRCPARAM L0043879          0.0      3.66      1.40      2.89
   SRCPARAM L0043880          0.0      3.66      1.40      2.89
   SRCPARAM L0043881          0.0      3.66      1.40      2.89
   SRCPARAM L0043882          0.0      3.66      1.40      2.89
   SRCPARAM L0043883          0.0      3.66      1.40      2.89
   SRCPARAM L0043884          0.0      3.66      1.40      2.89
   SRCPARAM L0043885          0.0      3.66      1.40      2.89
   SRCPARAM L0043886          0.0      3.66      1.40      2.89
   SRCPARAM L0043887          0.0      3.66      1.40      2.89
   SRCPARAM L0043888          0.0      3.66      1.40      2.89
   SRCPARAM L0043889          0.0      3.66      1.40      2.89
   SRCPARAM L0043890          0.0      3.66      1.40      2.89
   SRCPARAM L0043891          0.0      3.66      1.40      2.89
   SRCPARAM L0043892          0.0      3.66      1.40      2.89
   SRCPARAM L0043893          0.0      3.66      1.40      2.89
   SRCPARAM L0043894          0.0      3.66      1.40      2.89
   SRCPARAM L0043895          0.0      3.66      1.40      2.89
   SRCPARAM L0043896          0.0      3.66      1.40      2.89
   SRCPARAM L0043897          0.0      3.66      1.40      2.89
   SRCPARAM L0043898          0.0      3.66      1.40      2.89
   SRCPARAM L0043899          0.0      3.66      1.40      2.89
   SRCPARAM L0043900          0.0      3.66      1.40      2.89
   SRCPARAM L0043901          0.0      3.66      1.40      2.89
   SRCPARAM L0043902          0.0      3.66      1.40      2.89
   SRCPARAM L0043903          0.0      3.66      1.40      2.89
   SRCPARAM L0043904          0.0      3.66      1.40      2.89
   SRCPARAM L0043905          0.0      3.66      1.40      2.89
   SRCPARAM L0043906          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE56
   SRCPARAM L0043907          0.0      3.66      1.40      2.89
   SRCPARAM L0043908          0.0      3.66      1.40      2.89
   SRCPARAM L0043909          0.0      3.66      1.40      2.89
   SRCPARAM L0043910          0.0      3.66      1.40      2.89
   SRCPARAM L0043911          0.0      3.66      1.40      2.89
   SRCPARAM L0043912          0.0      3.66      1.40      2.89
   SRCPARAM L0043913          0.0      3.66      1.40      2.89
   SRCPARAM L0043914          0.0      3.66      1.40      2.89
   SRCPARAM L0043915          0.0      3.66      1.40      2.89
   SRCPARAM L0043916          0.0      3.66      1.40      2.89
   SRCPARAM L0043917          0.0      3.66      1.40      2.89
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SRCPARAM L0043918          0.0      3.66      1.40      2.89
SRCPARAM L0043919          0.0      3.66      1.40      2.89
SRCPARAM L0043920          0.0      3.66      1.40      2.89
SRCPARAM L0043921          0.0      3.66      1.40      2.89
SRCPARAM L0043922          0.0      3.66      1.40      2.89
SRCPARAM L0043923          0.0      3.66      1.40      2.89
SRCPARAM L0043924          0.0      3.66      1.40      2.89
SRCPARAM L0043925          0.0      3.66      1.40      2.89
SRCPARAM L0043926          0.0      3.66      1.40      2.89
SRCPARAM L0043927          0.0      3.66      1.40      2.89
SRCPARAM L0043928          0.0      3.66      1.40      2.89
SRCPARAM L0043929          0.0      3.66      1.40      2.89
SRCPARAM L0043930          0.0      3.66      1.40      2.89
SRCPARAM L0043931          0.0      3.66      1.40      2.89
SRCPARAM L0043932          0.0      3.66      1.40      2.89
SRCPARAM L0043933          0.0      3.66      1.40      2.89
SRCPARAM L0043934          0.0      3.66      1.40      2.89
SRCPARAM L0043935          0.0      3.66      1.40      2.89
SRCPARAM L0043936          0.0      3.66      1.40      2.89
SRCPARAM L0043937          0.0      3.66      1.40      2.89
SRCPARAM L0043938          0.0      3.66      1.40      2.89
SRCPARAM L0043939          0.0      3.66      1.40      2.89
SRCPARAM L0043940          0.0      3.66      1.40      2.89
SRCPARAM L0043941          0.0      3.66      1.40      2.89
SRCPARAM L0043942          0.0      3.66      1.40      2.89
SRCPARAM L0043943          0.0      3.66      1.40      2.89
SRCPARAM L0043944          0.0      3.66      1.40      2.89
SRCPARAM L0043945          0.0      3.66      1.40      2.89
SRCPARAM L0043946          0.0      3.66      1.40      2.89
SRCPARAM L0043947          0.0      3.66      1.40      2.89
SRCPARAM L0043948          0.0      3.66      1.40      2.89
SRCPARAM L0043949          0.0      3.66      1.40      2.89
SRCPARAM L0043950          0.0      3.66      1.40      2.89
SRCPARAM L0043951          0.0      3.66      1.40      2.89
SRCPARAM L0043952          0.0      3.66      1.40      2.89
SRCPARAM L0043953          0.0      3.66      1.40      2.89
SRCPARAM L0043954          0.0      3.66      1.40      2.89
SRCPARAM L0043955          0.0      3.66      1.40      2.89
SRCPARAM L0043956          0.0      3.66      1.40      2.89
SRCPARAM L0043957          0.0      3.66      1.40      2.89
SRCPARAM L0043958          0.0      3.66      1.40      2.89
SRCPARAM L0043959          0.0      3.66      1.40      2.89
SRCPARAM L0043960          0.0      3.66      1.40      2.89
SRCPARAM L0043961          0.0      3.66      1.40      2.89
SRCPARAM L0043962          0.0      3.66      1.40      2.89
SRCPARAM L0043963          0.0      3.66      1.40      2.89
SRCPARAM L0043964          0.0      3.66      1.40      2.89
SRCPARAM L0043965          0.0      3.66      1.40      2.89
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   SRCPARAM L0043966           0.0      3.66      1.40      2.89
   SRCPARAM L0043967           0.0      3.66      1.40      2.89
   SRCPARAM L0043968           0.0      3.66      1.40      2.89
   SRCPARAM L0043969           0.0      3.66      1.40      2.89
   SRCPARAM L0043970           0.0      3.66      1.40      2.89
   SRCPARAM L0043971           0.0      3.66      1.40      2.89
   SRCPARAM L0043972           0.0      3.66      1.40      2.89
   SRCPARAM L0043973           0.0      3.66      1.40      2.89
   SRCPARAM L0043974           0.0      3.66      1.40      2.89
   SRCPARAM L0043975           0.0      3.66      1.40      2.89
   SRCPARAM L0043976           0.0      3.66      1.40      2.89
   SRCPARAM L0043977           0.0      3.66      1.40      2.89
   SRCPARAM L0043978           0.0      3.66      1.40      2.89
   SRCPARAM L0043979           0.0      3.66      1.40      2.89
   SRCPARAM L0043980           0.0      3.66      1.40      2.89
   SRCPARAM L0043981           0.0      3.66      1.40      2.89
   SRCPARAM L0043982           0.0      3.66      1.40      2.89
   SRCPARAM L0043983           0.0      3.66      1.40      2.89
   SRCPARAM L0043984           0.0      3.66      1.40      2.89
   SRCPARAM L0043985           0.0      3.66      1.40      2.89
   SRCPARAM L0043986           0.0      3.66      1.40      2.89
   SRCPARAM L0043987           0.0      3.66      1.40      2.89
   SRCPARAM L0043988           0.0      3.66      1.40      2.89
   SRCPARAM L0043989           0.0      3.66      1.40      2.89
   SRCPARAM L0043990           0.0      3.66      1.40      2.89
   SRCPARAM L0043991           0.0      3.66      1.40      2.89
   SRCPARAM L0043992           0.0      3.66      1.40      2.89
   SRCPARAM L0043993           0.0      3.66      1.40      2.89
   SRCPARAM L0043994           0.0      3.66      1.40      2.89
   SRCPARAM L0043995           0.0      3.66      1.40      2.89
   SRCPARAM L0043996           0.0      3.66      1.40      2.89
   SRCPARAM L0043997           0.0      3.66      1.40      2.89
   SRCPARAM L0043998           0.0      3.66      1.40      2.89
   SRCPARAM L0043999           0.0      3.66      1.40      2.89
   SRCPARAM L0044000           0.0      3.66      1.40      2.89
   SRCPARAM L0044001           0.0      3.66      1.40      2.89
   SRCPARAM L0044002           0.0      3.66      1.40      2.89
   SRCPARAM L0044003           0.0      3.66      1.40      2.89
   SRCPARAM L0044004           0.0      3.66      1.40      2.89
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** LINE VOLUME Source ID = SLINE57
   SRCPARAM L0044005           0.0      3.66      1.40      2.89
   SRCPARAM L0044006           0.0      3.66      1.40      2.89
   SRCPARAM L0044007           0.0      3.66      1.40      2.89
   SRCPARAM L0044008           0.0      3.66      1.40      2.89
   SRCPARAM L0044009           0.0      3.66      1.40      2.89
   SRCPARAM L0044010           0.0      3.66      1.40      2.89
   SRCPARAM L0044011           0.0      3.66      1.40      2.89
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SRCPARAM L0044012          0.0      3.66      1.40      2.89
SRCPARAM L0044013          0.0      3.66      1.40      2.89
SRCPARAM L0044014          0.0      3.66      1.40      2.89
SRCPARAM L0044015          0.0      3.66      1.40      2.89
SRCPARAM L0044016          0.0      3.66      1.40      2.89
SRCPARAM L0044017          0.0      3.66      1.40      2.89
SRCPARAM L0044018          0.0      3.66      1.40      2.89
SRCPARAM L0044019          0.0      3.66      1.40      2.89
SRCPARAM L0044020          0.0      3.66      1.40      2.89
SRCPARAM L0044021          0.0      3.66      1.40      2.89
SRCPARAM L0044022          0.0      3.66      1.40      2.89
SRCPARAM L0044023          0.0      3.66      1.40      2.89
SRCPARAM L0044024          0.0      3.66      1.40      2.89
SRCPARAM L0044025          0.0      3.66      1.40      2.89
SRCPARAM L0044026          0.0      3.66      1.40      2.89
SRCPARAM L0044027          0.0      3.66      1.40      2.89
SRCPARAM L0044028          0.0      3.66      1.40      2.89
SRCPARAM L0044029          0.0      3.66      1.40      2.89
SRCPARAM L0044030          0.0      3.66      1.40      2.89
SRCPARAM L0044031          0.0      3.66      1.40      2.89
SRCPARAM L0044032          0.0      3.66      1.40      2.89
SRCPARAM L0044033          0.0      3.66      1.40      2.89
SRCPARAM L0044034          0.0      3.66      1.40      2.89
SRCPARAM L0044035          0.0      3.66      1.40      2.89
SRCPARAM L0044036          0.0      3.66      1.40      2.89
SRCPARAM L0044037          0.0      3.66      1.40      2.89
SRCPARAM L0044038          0.0      3.66      1.40      2.89
SRCPARAM L0044039          0.0      3.66      1.40      2.89
SRCPARAM L0044040          0.0      3.66      1.40      2.89
SRCPARAM L0044041          0.0      3.66      1.40      2.89
SRCPARAM L0044042          0.0      3.66      1.40      2.89
SRCPARAM L0044043          0.0      3.66      1.40      2.89
SRCPARAM L0044044          0.0      3.66      1.40      2.89
SRCPARAM L0044045          0.0      3.66      1.40      2.89
SRCPARAM L0044046          0.0      3.66      1.40      2.89
SRCPARAM L0044047          0.0      3.66      1.40      2.89
SRCPARAM L0044048          0.0      3.66      1.40      2.89
SRCPARAM L0044049          0.0      3.66      1.40      2.89
SRCPARAM L0044050          0.0      3.66      1.40      2.89
SRCPARAM L0044051          0.0      3.66      1.40      2.89
SRCPARAM L0044052          0.0      3.66      1.40      2.89
SRCPARAM L0044053          0.0      3.66      1.40      2.89
SRCPARAM L0044054          0.0      3.66      1.40      2.89
SRCPARAM L0044055          0.0      3.66      1.40      2.89
SRCPARAM L0044056          0.0      3.66      1.40      2.89
SRCPARAM L0044057          0.0      3.66      1.40      2.89
SRCPARAM L0044058          0.0      3.66      1.40      2.89
SRCPARAM L0044059          0.0      3.66      1.40      2.89
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SRCPARAM L0044060          0.0      3.66      1.40      2.89
SRCPARAM L0044061          0.0      3.66      1.40      2.89
SRCPARAM L0044062          0.0      3.66      1.40      2.89
SRCPARAM L0044063          0.0      3.66      1.40      2.89
SRCPARAM L0044064          0.0      3.66      1.40      2.89
SRCPARAM L0044065          0.0      3.66      1.40      2.89
SRCPARAM L0044066          0.0      3.66      1.40      2.89
SRCPARAM L0044067          0.0      3.66      1.40      2.89
SRCPARAM L0044068          0.0      3.66      1.40      2.89
SRCPARAM L0044069          0.0      3.66      1.40      2.89
SRCPARAM L0044070          0.0      3.66      1.40      2.89
SRCPARAM L0044071          0.0      3.66      1.40      2.89
SRCPARAM L0044072          0.0      3.66      1.40      2.89
SRCPARAM L0044073          0.0      3.66      1.40      2.89
SRCPARAM L0044074          0.0      3.66      1.40      2.89
SRCPARAM L0044075          0.0      3.66      1.40      2.89
SRCPARAM L0044076          0.0      3.66      1.40      2.89
SRCPARAM L0044077          0.0      3.66      1.40      2.89
SRCPARAM L0044078          0.0      3.66      1.40      2.89
SRCPARAM L0044079          0.0      3.66      1.40      2.89
SRCPARAM L0044080          0.0      3.66      1.40      2.89
SRCPARAM L0044081          0.0      3.66      1.40      2.89
SRCPARAM L0044082          0.0      3.66      1.40      2.89
SRCPARAM L0044083          0.0      3.66      1.40      2.89
SRCPARAM L0044084          0.0      3.66      1.40      2.89
SRCPARAM L0044085          0.0      3.66      1.40      2.89
SRCPARAM L0044086          0.0      3.66      1.40      2.89
SRCPARAM L0044087          0.0      3.66      1.40      2.89
SRCPARAM L0044088          0.0      3.66      1.40      2.89
SRCPARAM L0044089          0.0      3.66      1.40      2.89
SRCPARAM L0044090          0.0      3.66      1.40      2.89
SRCPARAM L0044091          0.0      3.66      1.40      2.89
SRCPARAM L0044092          0.0      3.66      1.40      2.89
SRCPARAM L0044093          0.0      3.66      1.40      2.89
SRCPARAM L0044094          0.0      3.66      1.40      2.89
SRCPARAM L0044095          0.0      3.66      1.40      2.89
SRCPARAM L0044096          0.0      3.66      1.40      2.89
SRCPARAM L0044097          0.0      3.66      1.40      2.89
SRCPARAM L0044098          0.0      3.66      1.40      2.89
SRCPARAM L0044099          0.0      3.66      1.40      2.89
SRCPARAM L0044100          0.0      3.66      1.40      2.89
SRCPARAM L0044101          0.0      3.66      1.40      2.89
SRCPARAM L0044102          0.0      3.66      1.40      2.89
SRCPARAM L0044103          0.0      3.66      1.40      2.89
SRCPARAM L0044104          0.0      3.66      1.40      2.89
SRCPARAM L0044105          0.0      3.66      1.40      2.89
SRCPARAM L0044106          0.0      3.66      1.40      2.89
SRCPARAM L0044107          0.0      3.66      1.40      2.89
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SRCPARAM L0044108          0.0      3.66      1.40      2.89
SRCPARAM L0044109          0.0      3.66      1.40      2.89
SRCPARAM L0044110          0.0      3.66      1.40      2.89
SRCPARAM L0044111          0.0      3.66      1.40      2.89
SRCPARAM L0044112          0.0      3.66      1.40      2.89
SRCPARAM L0044113          0.0      3.66      1.40      2.89
SRCPARAM L0044114          0.0      3.66      1.40      2.89
SRCPARAM L0044115          0.0      3.66      1.40      2.89
SRCPARAM L0044116          0.0      3.66      1.40      2.89
SRCPARAM L0044117          0.0      3.66      1.40      2.89
SRCPARAM L0044118          0.0      3.66      1.40      2.89
SRCPARAM L0044119          0.0      3.66      1.40      2.89
SRCPARAM L0044120          0.0      3.66      1.40      2.89
SRCPARAM L0044121          0.0      3.66      1.40      2.89
SRCPARAM L0044122          0.0      3.66      1.40      2.89
SRCPARAM L0044123          0.0      3.66      1.40      2.89
SRCPARAM L0044124          0.0      3.66      1.40      2.89
SRCPARAM L0044125          0.0      3.66      1.40      2.89
SRCPARAM L0044126          0.0      3.66      1.40      2.89
SRCPARAM L0044127          0.0      3.66      1.40      2.89
SRCPARAM L0044128          0.0      3.66      1.40      2.89
SRCPARAM L0044129          0.0      3.66      1.40      2.89
SRCPARAM L0044130          0.0      3.66      1.40      2.89
SRCPARAM L0044131          0.0      3.66      1.40      2.89
SRCPARAM L0044132          0.0      3.66      1.40      2.89
SRCPARAM L0044133          0.0      3.66      1.40      2.89
SRCPARAM L0044134          0.0      3.66      1.40      2.89
SRCPARAM L0044135          0.0      3.66      1.40      2.89
SRCPARAM L0044136          0.0      3.66      1.40      2.89
SRCPARAM L0044137          0.0      3.66      1.40      2.89
SRCPARAM L0044138          0.0      3.66      1.40      2.89
SRCPARAM L0044139          0.0      3.66      1.40      2.89
SRCPARAM L0044140          0.0      3.66      1.40      2.89
SRCPARAM L0044141          0.0      3.66      1.40      2.89
SRCPARAM L0044142          0.0      3.66      1.40      2.89
SRCPARAM L0044143          0.0      3.66      1.40      2.89
SRCPARAM L0044144          0.0      3.66      1.40      2.89
SRCPARAM L0044145          0.0      3.66      1.40      2.89
SRCPARAM L0044146          0.0      3.66      1.40      2.89
SRCPARAM L0044147          0.0      3.66      1.40      2.89
SRCPARAM L0044148          0.0      3.66      1.40      2.89
SRCPARAM L0044149          0.0      3.66      1.40      2.89
SRCPARAM L0044150          0.0      3.66      1.40      2.89
SRCPARAM L0044151          0.0      3.66      1.40      2.89
SRCPARAM L0044152          0.0      3.66      1.40      2.89
SRCPARAM L0044153          0.0      3.66      1.40      2.89
SRCPARAM L0044154          0.0      3.66      1.40      2.89
SRCPARAM L0044155          0.0      3.66      1.40      2.89
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   SRCPARAM L0044156          0.0      3.66      1.40      2.89
   SRCPARAM L0044157          0.0      3.66      1.40      2.89
   SRCPARAM L0044158          0.0      3.66      1.40      2.89
   SRCPARAM L0044159          0.0      3.66      1.40      2.89
   SRCPARAM L0044160          0.0      3.66      1.40      2.89
   SRCPARAM L0044161          0.0      3.66      1.40      2.89
   SRCPARAM L0044162          0.0      3.66      1.40      2.89
   SRCPARAM L0044163          0.0      3.66      1.40      2.89
   SRCPARAM L0044164          0.0      3.66      1.40      2.89
   SRCPARAM L0044165          0.0      3.66      1.40      2.89
   SRCPARAM L0044166          0.0      3.66      1.40      2.89
   SRCPARAM L0044167          0.0      3.66      1.40      2.89
   SRCPARAM L0044168          0.0      3.66      1.40      2.89
   SRCPARAM L0044169          0.0      3.66      1.40      2.89
   SRCPARAM L0044170          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE58
   SRCPARAM L0044171          0.0      3.66      1.40      2.89
   SRCPARAM L0044172          0.0      3.66      1.40      2.89
   SRCPARAM L0044173          0.0      3.66      1.40      2.89
   SRCPARAM L0044174          0.0      3.66      1.40      2.89
   SRCPARAM L0044175          0.0      3.66      1.40      2.89
   SRCPARAM L0044176          0.0      3.66      1.40      2.89
   SRCPARAM L0044177          0.0      3.66      1.40      2.89
   SRCPARAM L0044178          0.0      3.66      1.40      2.89
   SRCPARAM L0044179          0.0      3.66      1.40      2.89
   SRCPARAM L0044180          0.0      3.66      1.40      2.89
   SRCPARAM L0044181          0.0      3.66      1.40      2.89
   SRCPARAM L0044182          0.0      3.66      1.40      2.89
   SRCPARAM L0044183          0.0      3.66      1.40      2.89
   SRCPARAM L0044184          0.0      3.66      1.40      2.89
   SRCPARAM L0044185          0.0      3.66      1.40      2.89
   SRCPARAM L0044186          0.0      3.66      1.40      2.89
   SRCPARAM L0044187          0.0      3.66      1.40      2.89
   SRCPARAM L0044188          0.0      3.66      1.40      2.89
   SRCPARAM L0044189          0.0      3.66      1.40      2.89
   SRCPARAM L0044190          0.0      3.66      1.40      2.89
   SRCPARAM L0044191          0.0      3.66      1.40      2.89
   SRCPARAM L0044192          0.0      3.66      1.40      2.89
   SRCPARAM L0044193          0.0      3.66      1.40      2.89
   SRCPARAM L0044194          0.0      3.66      1.40      2.89
   SRCPARAM L0044195          0.0      3.66      1.40      2.89
   SRCPARAM L0044196          0.0      3.66      1.40      2.89
   SRCPARAM L0044197          0.0      3.66      1.40      2.89
   SRCPARAM L0044198          0.0      3.66      1.40      2.89
   SRCPARAM L0044199          0.0      3.66      1.40      2.89
   SRCPARAM L0044200          0.0      3.66      1.40      2.89
   SRCPARAM L0044201          0.0      3.66      1.40      2.89
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SRCPARAM L0044202          0.0      3.66      1.40      2.89
SRCPARAM L0044203          0.0      3.66      1.40      2.89
SRCPARAM L0044204          0.0      3.66      1.40      2.89
SRCPARAM L0044205          0.0      3.66      1.40      2.89
SRCPARAM L0044206          0.0      3.66      1.40      2.89
SRCPARAM L0044207          0.0      3.66      1.40      2.89
SRCPARAM L0044208          0.0      3.66      1.40      2.89
SRCPARAM L0044209          0.0      3.66      1.40      2.89
SRCPARAM L0044210          0.0      3.66      1.40      2.89
SRCPARAM L0044211          0.0      3.66      1.40      2.89
SRCPARAM L0044212          0.0      3.66      1.40      2.89
SRCPARAM L0044213          0.0      3.66      1.40      2.89
SRCPARAM L0044214          0.0      3.66      1.40      2.89
SRCPARAM L0044215          0.0      3.66      1.40      2.89
SRCPARAM L0044216          0.0      3.66      1.40      2.89
SRCPARAM L0044217          0.0      3.66      1.40      2.89
SRCPARAM L0044218          0.0      3.66      1.40      2.89
SRCPARAM L0044219          0.0      3.66      1.40      2.89
SRCPARAM L0044220          0.0      3.66      1.40      2.89
SRCPARAM L0044221          0.0      3.66      1.40      2.89
SRCPARAM L0044222          0.0      3.66      1.40      2.89
SRCPARAM L0044223          0.0      3.66      1.40      2.89
SRCPARAM L0044224          0.0      3.66      1.40      2.89
SRCPARAM L0044225          0.0      3.66      1.40      2.89
SRCPARAM L0044226          0.0      3.66      1.40      2.89
SRCPARAM L0044227          0.0      3.66      1.40      2.89
SRCPARAM L0044228          0.0      3.66      1.40      2.89
SRCPARAM L0044229          0.0      3.66      1.40      2.89
SRCPARAM L0044230          0.0      3.66      1.40      2.89
SRCPARAM L0044231          0.0      3.66      1.40      2.89
SRCPARAM L0044232          0.0      3.66      1.40      2.89
SRCPARAM L0044233          0.0      3.66      1.40      2.89
SRCPARAM L0044234          0.0      3.66      1.40      2.89
SRCPARAM L0044235          0.0      3.66      1.40      2.89
SRCPARAM L0044236          0.0      3.66      1.40      2.89
SRCPARAM L0044237          0.0      3.66      1.40      2.89
SRCPARAM L0044238          0.0      3.66      1.40      2.89
SRCPARAM L0044239          0.0      3.66      1.40      2.89
SRCPARAM L0044240          0.0      3.66      1.40      2.89
SRCPARAM L0044241          0.0      3.66      1.40      2.89
SRCPARAM L0044242          0.0      3.66      1.40      2.89
SRCPARAM L0044243          0.0      3.66      1.40      2.89
SRCPARAM L0044244          0.0      3.66      1.40      2.89
SRCPARAM L0044245          0.0      3.66      1.40      2.89
SRCPARAM L0044246          0.0      3.66      1.40      2.89
SRCPARAM L0044247          0.0      3.66      1.40      2.89
SRCPARAM L0044248          0.0      3.66      1.40      2.89
SRCPARAM L0044249          0.0      3.66      1.40      2.89
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SRCPARAM L0044250          0.0      3.66      1.40      2.89
SRCPARAM L0044251          0.0      3.66      1.40      2.89
SRCPARAM L0044252          0.0      3.66      1.40      2.89
SRCPARAM L0044253          0.0      3.66      1.40      2.89
SRCPARAM L0044254          0.0      3.66      1.40      2.89
SRCPARAM L0044255          0.0      3.66      1.40      2.89
SRCPARAM L0044256          0.0      3.66      1.40      2.89
SRCPARAM L0044257          0.0      3.66      1.40      2.89
SRCPARAM L0044258          0.0      3.66      1.40      2.89
SRCPARAM L0044259          0.0      3.66      1.40      2.89
SRCPARAM L0044260          0.0      3.66      1.40      2.89
SRCPARAM L0044261          0.0      3.66      1.40      2.89
SRCPARAM L0044262          0.0      3.66      1.40      2.89
SRCPARAM L0044263          0.0      3.66      1.40      2.89
SRCPARAM L0044264          0.0      3.66      1.40      2.89
SRCPARAM L0044265          0.0      3.66      1.40      2.89
SRCPARAM L0044266          0.0      3.66      1.40      2.89
SRCPARAM L0044267          0.0      3.66      1.40      2.89
SRCPARAM L0044268          0.0      3.66      1.40      2.89
SRCPARAM L0044269          0.0      3.66      1.40      2.89
SRCPARAM L0044270          0.0      3.66      1.40      2.89
SRCPARAM L0044271          0.0      3.66      1.40      2.89
SRCPARAM L0044272          0.0      3.66      1.40      2.89
SRCPARAM L0044273          0.0      3.66      1.40      2.89
SRCPARAM L0044274          0.0      3.66      1.40      2.89
SRCPARAM L0044275          0.0      3.66      1.40      2.89
SRCPARAM L0044276          0.0      3.66      1.40      2.89
SRCPARAM L0044277          0.0      3.66      1.40      2.89
SRCPARAM L0044278          0.0      3.66      1.40      2.89
SRCPARAM L0044279          0.0      3.66      1.40      2.89
SRCPARAM L0044280          0.0      3.66      1.40      2.89
SRCPARAM L0044281          0.0      3.66      1.40      2.89
SRCPARAM L0044282          0.0      3.66      1.40      2.89
SRCPARAM L0044283          0.0      3.66      1.40      2.89
SRCPARAM L0044284          0.0      3.66      1.40      2.89
SRCPARAM L0044285          0.0      3.66      1.40      2.89
SRCPARAM L0044286          0.0      3.66      1.40      2.89
SRCPARAM L0044287          0.0      3.66      1.40      2.89
SRCPARAM L0044288          0.0      3.66      1.40      2.89
SRCPARAM L0044289          0.0      3.66      1.40      2.89
SRCPARAM L0044290          0.0      3.66      1.40      2.89
SRCPARAM L0044291          0.0      3.66      1.40      2.89
SRCPARAM L0044292          0.0      3.66      1.40      2.89
SRCPARAM L0044293          0.0      3.66      1.40      2.89
SRCPARAM L0044294          0.0      3.66      1.40      2.89
SRCPARAM L0044295          0.0      3.66      1.40      2.89
SRCPARAM L0044296          0.0      3.66      1.40      2.89
SRCPARAM L0044297          0.0      3.66      1.40      2.89
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   SRCPARAM L0044298          0.0      3.66      1.40      2.89
   SRCPARAM L0044299          0.0      3.66      1.40      2.89
   SRCPARAM L0044300          0.0      3.66      1.40      2.89
   SRCPARAM L0044301          0.0      3.66      1.40      2.89
   SRCPARAM L0044302          0.0      3.66      1.40      2.89
   SRCPARAM L0044303          0.0      3.66      1.40      2.89
   SRCPARAM L0044304          0.0      3.66      1.40      2.89
   SRCPARAM L0044305          0.0      3.66      1.40      2.89
   SRCPARAM L0044306          0.0      3.66      1.40      2.89
   SRCPARAM L0044307          0.0      3.66      1.40      2.89
   SRCPARAM L0044308          0.0      3.66      1.40      2.89
   SRCPARAM L0044309          0.0      3.66      1.40      2.89
   SRCPARAM L0044310          0.0      3.66      1.40      2.89
   SRCPARAM L0044311          0.0      3.66      1.40      2.89
   SRCPARAM L0044312          0.0      3.66      1.40      2.89
   SRCPARAM L0044313          0.0      3.66      1.40      2.89
   SRCPARAM L0044314          0.0      3.66      1.40      2.89
   SRCPARAM L0044315          0.0      3.66      1.40      2.89
   SRCPARAM L0044316          0.0      3.66      1.40      2.89
   SRCPARAM L0044317          0.0      3.66      1.40      2.89
   SRCPARAM L0044318          0.0      3.66      1.40      2.89
   SRCPARAM L0044319          0.0      3.66      1.40      2.89
   SRCPARAM L0044320          0.0      3.66      1.40      2.89
   SRCPARAM L0044321          0.0      3.66      1.40      2.89
   SRCPARAM L0044322          0.0      3.66      1.40      2.89
   SRCPARAM L0044323          0.0      3.66      1.40      2.89
   SRCPARAM L0044324          0.0      3.66      1.40      2.89
   SRCPARAM L0044325          0.0      3.66      1.40      2.89
   SRCPARAM L0044326          0.0      3.66      1.40      2.89
   SRCPARAM L0044327          0.0      3.66      1.40      2.89
   SRCPARAM L0044328          0.0      3.66      1.40      2.89
   SRCPARAM L0044329          0.0      3.66      1.40      2.89
   SRCPARAM L0044330          0.0      3.66      1.40      2.89
   SRCPARAM L0044331          0.0      3.66      1.40      2.89
   SRCPARAM L0044332          0.0      3.66      1.40      2.89
   SRCPARAM L0044333          0.0      3.66      1.40      2.89
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** LINE VOLUME Source ID = SLINE59
   SRCPARAM L0044334          0.0      3.66      1.40      2.89
   SRCPARAM L0044335          0.0      3.66      1.40      2.89
   SRCPARAM L0044336          0.0      3.66      1.40      2.89
   SRCPARAM L0044337          0.0      3.66      1.40      2.89
   SRCPARAM L0044338          0.0      3.66      1.40      2.89
   SRCPARAM L0044339          0.0      3.66      1.40      2.89
   SRCPARAM L0044340          0.0      3.66      1.40      2.89
   SRCPARAM L0044341          0.0      3.66      1.40      2.89
   SRCPARAM L0044342          0.0      3.66      1.40      2.89
   SRCPARAM L0044343          0.0      3.66      1.40      2.89
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SRCPARAM L0044344          0.0      3.66      1.40      2.89
SRCPARAM L0044345          0.0      3.66      1.40      2.89
SRCPARAM L0044346          0.0      3.66      1.40      2.89
SRCPARAM L0044347          0.0      3.66      1.40      2.89
SRCPARAM L0044348          0.0      3.66      1.40      2.89
SRCPARAM L0044349          0.0      3.66      1.40      2.89
SRCPARAM L0044350          0.0      3.66      1.40      2.89
SRCPARAM L0044351          0.0      3.66      1.40      2.89
SRCPARAM L0044352          0.0      3.66      1.40      2.89
SRCPARAM L0044353          0.0      3.66      1.40      2.89
SRCPARAM L0044354          0.0      3.66      1.40      2.89
SRCPARAM L0044355          0.0      3.66      1.40      2.89
SRCPARAM L0044356          0.0      3.66      1.40      2.89
SRCPARAM L0044357          0.0      3.66      1.40      2.89
SRCPARAM L0044358          0.0      3.66      1.40      2.89
SRCPARAM L0044359          0.0      3.66      1.40      2.89
SRCPARAM L0044360          0.0      3.66      1.40      2.89
SRCPARAM L0044361          0.0      3.66      1.40      2.89
SRCPARAM L0044362          0.0      3.66      1.40      2.89
SRCPARAM L0044363          0.0      3.66      1.40      2.89
SRCPARAM L0044364          0.0      3.66      1.40      2.89
SRCPARAM L0044365          0.0      3.66      1.40      2.89
SRCPARAM L0044366          0.0      3.66      1.40      2.89
SRCPARAM L0044367          0.0      3.66      1.40      2.89
SRCPARAM L0044368          0.0      3.66      1.40      2.89
SRCPARAM L0044369          0.0      3.66      1.40      2.89
SRCPARAM L0044370          0.0      3.66      1.40      2.89
SRCPARAM L0044371          0.0      3.66      1.40      2.89
SRCPARAM L0044372          0.0      3.66      1.40      2.89
SRCPARAM L0044373          0.0      3.66      1.40      2.89
SRCPARAM L0044374          0.0      3.66      1.40      2.89
SRCPARAM L0044375          0.0      3.66      1.40      2.89
SRCPARAM L0044376          0.0      3.66      1.40      2.89
SRCPARAM L0044377          0.0      3.66      1.40      2.89
SRCPARAM L0044378          0.0      3.66      1.40      2.89
SRCPARAM L0044379          0.0      3.66      1.40      2.89
SRCPARAM L0044380          0.0      3.66      1.40      2.89
SRCPARAM L0044381          0.0      3.66      1.40      2.89
SRCPARAM L0044382          0.0      3.66      1.40      2.89
SRCPARAM L0044383          0.0      3.66      1.40      2.89
SRCPARAM L0044384          0.0      3.66      1.40      2.89
SRCPARAM L0044385          0.0      3.66      1.40      2.89
SRCPARAM L0044386          0.0      3.66      1.40      2.89
SRCPARAM L0044387          0.0      3.66      1.40      2.89
SRCPARAM L0044388          0.0      3.66      1.40      2.89
SRCPARAM L0044389          0.0      3.66      1.40      2.89
SRCPARAM L0044390          0.0      3.66      1.40      2.89
SRCPARAM L0044391          0.0      3.66      1.40      2.89
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   SRCPARAM L0044392          0.0      3.66      1.40      2.89
   SRCPARAM L0044393          0.0      3.66      1.40      2.89
   SRCPARAM L0044394          0.0      3.66      1.40      2.89
   SRCPARAM L0044395          0.0      3.66      1.40      2.89
   SRCPARAM L0044396          0.0      3.66      1.40      2.89
   SRCPARAM L0044397          0.0      3.66      1.40      2.89
   SRCPARAM L0044398          0.0      3.66      1.40      2.89
   SRCPARAM L0044399          0.0      3.66      1.40      2.89
   SRCPARAM L0044400          0.0      3.66      1.40      2.89
   SRCPARAM L0044401          0.0      3.66      1.40      2.89
   SRCPARAM L0044402          0.0      3.66      1.40      2.89
   SRCPARAM L0044403          0.0      3.66      1.40      2.89
   SRCPARAM L0044404          0.0      3.66      1.40      2.89
   SRCPARAM L0044405          0.0      3.66      1.40      2.89
   SRCPARAM L0044406          0.0      3.66      1.40      2.89
   SRCPARAM L0044407          0.0      3.66      1.40      2.89
   SRCPARAM L0044408          0.0      3.66      1.40      2.89
   SRCPARAM L0044409          0.0      3.66      1.40      2.89
   SRCPARAM L0044410          0.0      3.66      1.40      2.89
   SRCPARAM L0044411          0.0      3.66      1.40      2.89
   SRCPARAM L0044412          0.0      3.66      1.40      2.89
   SRCPARAM L0044413          0.0      3.66      1.40      2.89
   SRCPARAM L0044414          0.0      3.66      1.40      2.89
   SRCPARAM L0044415          0.0      3.66      1.40      2.89
   SRCPARAM L0044416          0.0      3.66      1.40      2.89
   SRCPARAM L0044417          0.0      3.66      1.40      2.89
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** LINE VOLUME Source ID = SLINE60
   SRCPARAM L0044418          0.0      3.66      1.40      2.89
   SRCPARAM L0044419          0.0      3.66      1.40      2.89
   SRCPARAM L0044420          0.0      3.66      1.40      2.89
   SRCPARAM L0044421          0.0      3.66      1.40      2.89
   SRCPARAM L0044422          0.0      3.66      1.40      2.89
   SRCPARAM L0044423          0.0      3.66      1.40      2.89
   SRCPARAM L0044424          0.0      3.66      1.40      2.89
   SRCPARAM L0044425          0.0      3.66      1.40      2.89
   SRCPARAM L0044426          0.0      3.66      1.40      2.89
   SRCPARAM L0044427          0.0      3.66      1.40      2.89
   SRCPARAM L0044428          0.0      3.66      1.40      2.89
   SRCPARAM L0044429          0.0      3.66      1.40      2.89
   SRCPARAM L0044430          0.0      3.66      1.40      2.89
   SRCPARAM L0044431          0.0      3.66      1.40      2.89
   SRCPARAM L0044432          0.0      3.66      1.40      2.89
   SRCPARAM L0044433          0.0      3.66      1.40      2.89
   SRCPARAM L0044434          0.0      3.66      1.40      2.89
   SRCPARAM L0044435          0.0      3.66      1.40      2.89
   SRCPARAM L0044436          0.0      3.66      1.40      2.89
   SRCPARAM L0044437          0.0      3.66      1.40      2.89
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SRCPARAM L0044438          0.0      3.66      1.40      2.89
SRCPARAM L0044439          0.0      3.66      1.40      2.89
SRCPARAM L0044440          0.0      3.66      1.40      2.89
SRCPARAM L0044441          0.0      3.66      1.40      2.89
SRCPARAM L0044442          0.0      3.66      1.40      2.89
SRCPARAM L0044443          0.0      3.66      1.40      2.89
SRCPARAM L0044444          0.0      3.66      1.40      2.89
SRCPARAM L0044445          0.0      3.66      1.40      2.89
SRCPARAM L0044446          0.0      3.66      1.40      2.89
SRCPARAM L0044447          0.0      3.66      1.40      2.89
SRCPARAM L0044448          0.0      3.66      1.40      2.89
SRCPARAM L0044449          0.0      3.66      1.40      2.89
SRCPARAM L0044450          0.0      3.66      1.40      2.89
SRCPARAM L0044451          0.0      3.66      1.40      2.89
SRCPARAM L0044452          0.0      3.66      1.40      2.89
SRCPARAM L0044453          0.0      3.66      1.40      2.89
SRCPARAM L0044454          0.0      3.66      1.40      2.89
SRCPARAM L0044455          0.0      3.66      1.40      2.89
SRCPARAM L0044456          0.0      3.66      1.40      2.89
SRCPARAM L0044457          0.0      3.66      1.40      2.89
SRCPARAM L0044458          0.0      3.66      1.40      2.89
SRCPARAM L0044459          0.0      3.66      1.40      2.89
SRCPARAM L0044460          0.0      3.66      1.40      2.89
SRCPARAM L0044461          0.0      3.66      1.40      2.89
SRCPARAM L0044462          0.0      3.66      1.40      2.89
SRCPARAM L0044463          0.0      3.66      1.40      2.89
SRCPARAM L0044464          0.0      3.66      1.40      2.89
SRCPARAM L0044465          0.0      3.66      1.40      2.89
SRCPARAM L0044466          0.0      3.66      1.40      2.89
SRCPARAM L0044467          0.0      3.66      1.40      2.89
SRCPARAM L0044468          0.0      3.66      1.40      2.89
SRCPARAM L0044469          0.0      3.66      1.40      2.89
SRCPARAM L0044470          0.0      3.66      1.40      2.89
SRCPARAM L0044471          0.0      3.66      1.40      2.89
SRCPARAM L0044472          0.0      3.66      1.40      2.89
SRCPARAM L0044473          0.0      3.66      1.40      2.89
SRCPARAM L0044474          0.0      3.66      1.40      2.89
SRCPARAM L0044475          0.0      3.66      1.40      2.89
SRCPARAM L0044476          0.0      3.66      1.40      2.89
SRCPARAM L0044477          0.0      3.66      1.40      2.89
SRCPARAM L0044478          0.0      3.66      1.40      2.89
SRCPARAM L0044479          0.0      3.66      1.40      2.89
SRCPARAM L0044480          0.0      3.66      1.40      2.89
SRCPARAM L0044481          0.0      3.66      1.40      2.89
SRCPARAM L0044482          0.0      3.66      1.40      2.89
SRCPARAM L0044483          0.0      3.66      1.40      2.89
SRCPARAM L0044484          0.0      3.66      1.40      2.89
SRCPARAM L0044485          0.0      3.66      1.40      2.89
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SRCPARAM L0044486          0.0      3.66      1.40      2.89
SRCPARAM L0044487          0.0      3.66      1.40      2.89
SRCPARAM L0044488          0.0      3.66      1.40      2.89
SRCPARAM L0044489          0.0      3.66      1.40      2.89
SRCPARAM L0044490          0.0      3.66      1.40      2.89
SRCPARAM L0044491          0.0      3.66      1.40      2.89
SRCPARAM L0044492          0.0      3.66      1.40      2.89
SRCPARAM L0044493          0.0      3.66      1.40      2.89
SRCPARAM L0044494          0.0      3.66      1.40      2.89
SRCPARAM L0044495          0.0      3.66      1.40      2.89
SRCPARAM L0044496          0.0      3.66      1.40      2.89
SRCPARAM L0044497          0.0      3.66      1.40      2.89
SRCPARAM L0044498          0.0      3.66      1.40      2.89
SRCPARAM L0044499          0.0      3.66      1.40      2.89
SRCPARAM L0044500          0.0      3.66      1.40      2.89
SRCPARAM L0044501          0.0      3.66      1.40      2.89
SRCPARAM L0044502          0.0      3.66      1.40      2.89
SRCPARAM L0044503          0.0      3.66      1.40      2.89
SRCPARAM L0044504          0.0      3.66      1.40      2.89
SRCPARAM L0044505          0.0      3.66      1.40      2.89
SRCPARAM L0044506          0.0      3.66      1.40      2.89
SRCPARAM L0044507          0.0      3.66      1.40      2.89
SRCPARAM L0044508          0.0      3.66      1.40      2.89
SRCPARAM L0044509          0.0      3.66      1.40      2.89
SRCPARAM L0044510          0.0      3.66      1.40      2.89
SRCPARAM L0044511          0.0      3.66      1.40      2.89
SRCPARAM L0044512          0.0      3.66      1.40      2.89
SRCPARAM L0044513          0.0      3.66      1.40      2.89
SRCPARAM L0044514          0.0      3.66      1.40      2.89
SRCPARAM L0044515          0.0      3.66      1.40      2.89
SRCPARAM L0044516          0.0      3.66      1.40      2.89
SRCPARAM L0044517          0.0      3.66      1.40      2.89
SRCPARAM L0044518          0.0      3.66      1.40      2.89
SRCPARAM L0044519          0.0      3.66      1.40      2.89
SRCPARAM L0044520          0.0      3.66      1.40      2.89
SRCPARAM L0044521          0.0      3.66      1.40      2.89
SRCPARAM L0044522          0.0      3.66      1.40      2.89
SRCPARAM L0044523          0.0      3.66      1.40      2.89
SRCPARAM L0044524          0.0      3.66      1.40      2.89
SRCPARAM L0044525          0.0      3.66      1.40      2.89
SRCPARAM L0044526          0.0      3.66      1.40      2.89
SRCPARAM L0044527          0.0      3.66      1.40      2.89
SRCPARAM L0044528          0.0      3.66      1.40      2.89
SRCPARAM L0044529          0.0      3.66      1.40      2.89
SRCPARAM L0044530          0.0      3.66      1.40      2.89
SRCPARAM L0044531          0.0      3.66      1.40      2.89
SRCPARAM L0044532          0.0      3.66      1.40      2.89
SRCPARAM L0044533          0.0      3.66      1.40      2.89
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   SRCPARAM L0044534          0.0      3.66      1.40      2.89
   SRCPARAM L0044535          0.0      3.66      1.40      2.89
   SRCPARAM L0044536          0.0      3.66      1.40      2.89
   SRCPARAM L0044537          0.0      3.66      1.40      2.89
   SRCPARAM L0044538          0.0      3.66      1.40      2.89
   SRCPARAM L0044539          0.0      3.66      1.40      2.89
   SRCPARAM L0044540          0.0      3.66      1.40      2.89
   SRCPARAM L0044541          0.0      3.66      1.40      2.89
   SRCPARAM L0044542          0.0      3.66      1.40      2.89
   SRCPARAM L0044543          0.0      3.66      1.40      2.89
   SRCPARAM L0044544          0.0      3.66      1.40      2.89
   SRCPARAM L0044545          0.0      3.66      1.40      2.89
   SRCPARAM L0044546          0.0      3.66      1.40      2.89
   SRCPARAM L0044547          0.0      3.66      1.40      2.89
   SRCPARAM L0044548          0.0      3.66      1.40      2.89
   SRCPARAM L0044549          0.0      3.66      1.40      2.89
   SRCPARAM L0044550          0.0      3.66      1.40      2.89
   SRCPARAM L0044551          0.0      3.66      1.40      2.89
   SRCPARAM L0044552          0.0      3.66      1.40      2.89
   SRCPARAM L0044553          0.0      3.66      1.40      2.89
   SRCPARAM L0044554          0.0      3.66      1.40      2.89
   SRCPARAM L0044555          0.0      3.66      1.40      2.89
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** LINE VOLUME Source ID = SLINE61
   SRCPARAM L0044556          0.0      3.66      1.40      2.89
   SRCPARAM L0044557          0.0      3.66      1.40      2.89
   SRCPARAM L0044558          0.0      3.66      1.40      2.89
   SRCPARAM L0044559          0.0      3.66      1.40      2.89
   SRCPARAM L0044560          0.0      3.66      1.40      2.89
   SRCPARAM L0044561          0.0      3.66      1.40      2.89
   SRCPARAM L0044562          0.0      3.66      1.40      2.89
   SRCPARAM L0044563          0.0      3.66      1.40      2.89
   SRCPARAM L0044564          0.0      3.66      1.40      2.89
   SRCPARAM L0044565          0.0      3.66      1.40      2.89
   SRCPARAM L0044566          0.0      3.66      1.40      2.89
   SRCPARAM L0044567          0.0      3.66      1.40      2.89
   SRCPARAM L0044568          0.0      3.66      1.40      2.89
   SRCPARAM L0044569          0.0      3.66      1.40      2.89
   SRCPARAM L0044570          0.0      3.66      1.40      2.89
   SRCPARAM L0044571          0.0      3.66      1.40      2.89
   SRCPARAM L0044572          0.0      3.66      1.40      2.89
   SRCPARAM L0044573          0.0      3.66      1.40      2.89
   SRCPARAM L0044574          0.0      3.66      1.40      2.89
   SRCPARAM L0044575          0.0      3.66      1.40      2.89
   SRCPARAM L0044576          0.0      3.66      1.40      2.89
   SRCPARAM L0044577          0.0      3.66      1.40      2.89
   SRCPARAM L0044578          0.0      3.66      1.40      2.89
   SRCPARAM L0044579          0.0      3.66      1.40      2.89
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SRCPARAM L0044580          0.0      3.66      1.40      2.89
SRCPARAM L0044581          0.0      3.66      1.40      2.89
SRCPARAM L0044582          0.0      3.66      1.40      2.89
SRCPARAM L0044583          0.0      3.66      1.40      2.89
SRCPARAM L0044584          0.0      3.66      1.40      2.89
SRCPARAM L0044585          0.0      3.66      1.40      2.89
SRCPARAM L0044586          0.0      3.66      1.40      2.89
SRCPARAM L0044587          0.0      3.66      1.40      2.89
SRCPARAM L0044588          0.0      3.66      1.40      2.89
SRCPARAM L0044589          0.0      3.66      1.40      2.89
SRCPARAM L0044590          0.0      3.66      1.40      2.89
SRCPARAM L0044591          0.0      3.66      1.40      2.89
SRCPARAM L0044592          0.0      3.66      1.40      2.89
SRCPARAM L0044593          0.0      3.66      1.40      2.89
SRCPARAM L0044594          0.0      3.66      1.40      2.89
SRCPARAM L0044595          0.0      3.66      1.40      2.89
SRCPARAM L0044596          0.0      3.66      1.40      2.89
SRCPARAM L0044597          0.0      3.66      1.40      2.89
SRCPARAM L0044598          0.0      3.66      1.40      2.89
SRCPARAM L0044599          0.0      3.66      1.40      2.89
SRCPARAM L0044600          0.0      3.66      1.40      2.89
SRCPARAM L0044601          0.0      3.66      1.40      2.89
SRCPARAM L0044602          0.0      3.66      1.40      2.89
SRCPARAM L0044603          0.0      3.66      1.40      2.89
SRCPARAM L0044604          0.0      3.66      1.40      2.89
SRCPARAM L0044605          0.0      3.66      1.40      2.89
SRCPARAM L0044606          0.0      3.66      1.40      2.89
SRCPARAM L0044607          0.0      3.66      1.40      2.89
SRCPARAM L0044608          0.0      3.66      1.40      2.89
SRCPARAM L0044609          0.0      3.66      1.40      2.89
SRCPARAM L0044610          0.0      3.66      1.40      2.89
SRCPARAM L0044611          0.0      3.66      1.40      2.89
SRCPARAM L0044612          0.0      3.66      1.40      2.89
SRCPARAM L0044613          0.0      3.66      1.40      2.89
SRCPARAM L0044614          0.0      3.66      1.40      2.89
SRCPARAM L0044615          0.0      3.66      1.40      2.89
SRCPARAM L0044616          0.0      3.66      1.40      2.89
SRCPARAM L0044617          0.0      3.66      1.40      2.89
SRCPARAM L0044618          0.0      3.66      1.40      2.89
SRCPARAM L0044619          0.0      3.66      1.40      2.89
SRCPARAM L0044620          0.0      3.66      1.40      2.89
SRCPARAM L0044621          0.0      3.66      1.40      2.89
SRCPARAM L0044622          0.0      3.66      1.40      2.89
SRCPARAM L0044623          0.0      3.66      1.40      2.89
SRCPARAM L0044624          0.0      3.66      1.40      2.89
SRCPARAM L0044625          0.0      3.66      1.40      2.89
SRCPARAM L0044626          0.0      3.66      1.40      2.89
SRCPARAM L0044627          0.0      3.66      1.40      2.89
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SRCPARAM L0044628          0.0      3.66      1.40      2.89
SRCPARAM L0044629          0.0      3.66      1.40      2.89
SRCPARAM L0044630          0.0      3.66      1.40      2.89
SRCPARAM L0044631          0.0      3.66      1.40      2.89
SRCPARAM L0044632          0.0      3.66      1.40      2.89
SRCPARAM L0044633          0.0      3.66      1.40      2.89
SRCPARAM L0044634          0.0      3.66      1.40      2.89
SRCPARAM L0044635          0.0      3.66      1.40      2.89
SRCPARAM L0044636          0.0      3.66      1.40      2.89
SRCPARAM L0044637          0.0      3.66      1.40      2.89
SRCPARAM L0044638          0.0      3.66      1.40      2.89
SRCPARAM L0044639          0.0      3.66      1.40      2.89
SRCPARAM L0044640          0.0      3.66      1.40      2.89
SRCPARAM L0044641          0.0      3.66      1.40      2.89
SRCPARAM L0044642          0.0      3.66      1.40      2.89
SRCPARAM L0044643          0.0      3.66      1.40      2.89
SRCPARAM L0044644          0.0      3.66      1.40      2.89
SRCPARAM L0044645          0.0      3.66      1.40      2.89
SRCPARAM L0044646          0.0      3.66      1.40      2.89
SRCPARAM L0044647          0.0      3.66      1.40      2.89
SRCPARAM L0044648          0.0      3.66      1.40      2.89
SRCPARAM L0044649          0.0      3.66      1.40      2.89
SRCPARAM L0044650          0.0      3.66      1.40      2.89
SRCPARAM L0044651          0.0      3.66      1.40      2.89
SRCPARAM L0044652          0.0      3.66      1.40      2.89
SRCPARAM L0044653          0.0      3.66      1.40      2.89
SRCPARAM L0044654          0.0      3.66      1.40      2.89
SRCPARAM L0044655          0.0      3.66      1.40      2.89
SRCPARAM L0044656          0.0      3.66      1.40      2.89
SRCPARAM L0044657          0.0      3.66      1.40      2.89
SRCPARAM L0044658          0.0      3.66      1.40      2.89
SRCPARAM L0044659          0.0      3.66      1.40      2.89
SRCPARAM L0044660          0.0      3.66      1.40      2.89
SRCPARAM L0044661          0.0      3.66      1.40      2.89
SRCPARAM L0044662          0.0      3.66      1.40      2.89
SRCPARAM L0044663          0.0      3.66      1.40      2.89
SRCPARAM L0044664          0.0      3.66      1.40      2.89
SRCPARAM L0044665          0.0      3.66      1.40      2.89
SRCPARAM L0044666          0.0      3.66      1.40      2.89
SRCPARAM L0044667          0.0      3.66      1.40      2.89
SRCPARAM L0044668          0.0      3.66      1.40      2.89
SRCPARAM L0044669          0.0      3.66      1.40      2.89
SRCPARAM L0044670          0.0      3.66      1.40      2.89
SRCPARAM L0044671          0.0      3.66      1.40      2.89
SRCPARAM L0044672          0.0      3.66      1.40      2.89
SRCPARAM L0044673          0.0      3.66      1.40      2.89
SRCPARAM L0044674          0.0      3.66      1.40      2.89
SRCPARAM L0044675          0.0      3.66      1.40      2.89
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   SRCPARAM L0044677          0.0      3.66      1.40      2.89
   SRCPARAM L0044678          0.0      3.66      1.40      2.89
   SRCPARAM L0044679          0.0      3.66      1.40      2.89
   SRCPARAM L0044680          0.0      3.66      1.40      2.89
   SRCPARAM L0044681          0.0      3.66      1.40      2.89
   SRCPARAM L0044682          0.0      3.66      1.40      2.89
   SRCPARAM L0044683          0.0      3.66      1.40      2.89
   SRCPARAM L0044684          0.0      3.66      1.40      2.89
   SRCPARAM L0044685          0.0      3.66      1.40      2.89
   SRCPARAM L0044686          0.0      3.66      1.40      2.89
   SRCPARAM L0044687          0.0      3.66      1.40      2.89
   SRCPARAM L0044688          0.0      3.66      1.40      2.89
   SRCPARAM L0044689          0.0      3.66      1.40      2.89
   SRCPARAM L0044690          0.0      3.66      1.40      2.89
   SRCPARAM L0044691          0.0      3.66      1.40      2.89
   SRCPARAM L0044692          0.0      3.66      1.40      2.89
   SRCPARAM L0044693          0.0      3.66      1.40      2.89
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** LINE VOLUME Source ID = SLINE62
   SRCPARAM L0035433          0.0      3.66      2.33      2.89
   SRCPARAM L0035434          0.0      3.66      2.33      2.89
   SRCPARAM L0035435          0.0      3.66      2.33      2.89
   SRCPARAM L0035436          0.0      3.66      2.33      2.89
   SRCPARAM L0035437          0.0      3.66      2.33      2.89
   SRCPARAM L0035438          0.0      3.66      2.33      2.89
   SRCPARAM L0035439          0.0      3.66      2.33      2.89
   SRCPARAM L0035440          0.0      3.66      2.33      2.89
   SRCPARAM L0035441          0.0      3.66      2.33      2.89
   SRCPARAM L0035442          0.0      3.66      2.33      2.89
   SRCPARAM L0035443          0.0      3.66      2.33      2.89
   SRCPARAM L0035444          0.0      3.66      2.33      2.89
   SRCPARAM L0035445          0.0      3.66      2.33      2.89
   SRCPARAM L0035446          0.0      3.66      2.33      2.89
   SRCPARAM L0035447          0.0      3.66      2.33      2.89
   SRCPARAM L0035448          0.0      3.66      2.33      2.89
   SRCPARAM L0035449          0.0      3.66      2.33      2.89
   SRCPARAM L0035450          0.0      3.66      2.33      2.89
   SRCPARAM L0035451          0.0      3.66      2.33      2.89
   SRCPARAM L0035452          0.0      3.66      2.33      2.89
   SRCPARAM L0035453          0.0      3.66      2.33      2.89
   SRCPARAM L0035454          0.0      3.66      2.33      2.89
   SRCPARAM L0035455          0.0      3.66      2.33      2.89
   SRCPARAM L0035456          0.0      3.66      2.33      2.89
   SRCPARAM L0035457          0.0      3.66      2.33      2.89
   SRCPARAM L0035458          0.0      3.66      2.33      2.89
   SRCPARAM L0035459          0.0      3.66      2.33      2.89
   SRCPARAM L0035460          0.0      3.66      2.33      2.89
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SRCPARAM L0035461          0.0      3.66      2.33      2.89
SRCPARAM L0035462          0.0      3.66      2.33      2.89
SRCPARAM L0035463          0.0      3.66      2.33      2.89
SRCPARAM L0035464          0.0      3.66      2.33      2.89
SRCPARAM L0035465          0.0      3.66      2.33      2.89
SRCPARAM L0035466          0.0      3.66      2.33      2.89
SRCPARAM L0035467          0.0      3.66      2.33      2.89
SRCPARAM L0035468          0.0      3.66      2.33      2.89
SRCPARAM L0035469          0.0      3.66      2.33      2.89
SRCPARAM L0035470          0.0      3.66      2.33      2.89
SRCPARAM L0035471          0.0      3.66      2.33      2.89
SRCPARAM L0035472          0.0      3.66      2.33      2.89
SRCPARAM L0035473          0.0      3.66      2.33      2.89
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SRCPARAM L0035475          0.0      3.66      2.33      2.89
SRCPARAM L0035476          0.0      3.66      2.33      2.89
SRCPARAM L0035477          0.0      3.66      2.33      2.89
SRCPARAM L0035478          0.0      3.66      2.33      2.89
SRCPARAM L0035479          0.0      3.66      2.33      2.89
SRCPARAM L0035480          0.0      3.66      2.33      2.89
SRCPARAM L0035481          0.0      3.66      2.33      2.89
SRCPARAM L0035482          0.0      3.66      2.33      2.89
SRCPARAM L0035483          0.0      3.66      2.33      2.89
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SRCPARAM L0035486          0.0      3.66      2.33      2.89
SRCPARAM L0035487          0.0      3.66      2.33      2.89
SRCPARAM L0035488          0.0      3.66      2.33      2.89
SRCPARAM L0035489          0.0      3.66      2.33      2.89
SRCPARAM L0035490          0.0      3.66      2.33      2.89
SRCPARAM L0035491          0.0      3.66      2.33      2.89
SRCPARAM L0035492          0.0      3.66      2.33      2.89
SRCPARAM L0035493          0.0      3.66      2.33      2.89
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SRCPARAM L0035495          0.0      3.66      2.33      2.89
SRCPARAM L0035496          0.0      3.66      2.33      2.89
SRCPARAM L0035497          0.0      3.66      2.33      2.89
SRCPARAM L0035498          0.0      3.66      2.33      2.89
SRCPARAM L0035499          0.0      3.66      2.33      2.89
SRCPARAM L0035500          0.0      3.66      2.33      2.89
SRCPARAM L0035501          0.0      3.66      2.33      2.89
SRCPARAM L0035502          0.0      3.66      2.33      2.89
SRCPARAM L0035503          0.0      3.66      2.33      2.89
SRCPARAM L0035504          0.0      3.66      2.33      2.89
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SRCPARAM L0035507          0.0      3.66      2.33      2.89
SRCPARAM L0035508          0.0      3.66      2.33      2.89
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SRCPARAM	L0035511	0.0	3.66	2.33	2.89
SRCPARAM	L0035512	0.0	3.66	2.33	2.89
SRCPARAM	L0035513	0.0	3.66	2.33	2.89
SRCPARAM	L0035514	0.0	3.66	2.33	2.89
SRCPARAM	L0035515	0.0	3.66	2.33	2.89
SRCPARAM	L0035516	0.0	3.66	2.33	2.89
SRCPARAM	L0035517	0.0	3.66	2.33	2.89
SRCPARAM	L0035518	0.0	3.66	2.33	2.89
SRCPARAM	L0035519	0.0	3.66	2.33	2.89
SRCPARAM	L0035520	0.0	3.66	2.33	2.89
SRCPARAM	L0035521	0.0	3.66	2.33	2.89
SRCPARAM	L0035522	0.0	3.66	2.33	2.89
SRCPARAM	L0035523	0.0	3.66	2.33	2.89
SRCPARAM	L0035524	0.0	3.66	2.33	2.89
SRCPARAM	L0035525	0.0	3.66	2.33	2.89
SRCPARAM	L0035526	0.0	3.66	2.33	2.89
SRCPARAM	L0035527	0.0	3.66	2.33	2.89
SRCPARAM	L0035528	0.0	3.66	2.33	2.89
SRCPARAM	L0035529	0.0	3.66	2.33	2.89
SRCPARAM	L0035530	0.0	3.66	2.33	2.89
SRCPARAM	L0035531	0.0	3.66	2.33	2.89
SRCPARAM	L0035532	0.0	3.66	2.33	2.89
SRCPARAM	L0035533	0.0	3.66	2.33	2.89
SRCPARAM	L0035534	0.0	3.66	2.33	2.89
SRCPARAM	L0035535	0.0	3.66	2.33	2.89
SRCPARAM	L0035536	0.0	3.66	2.33	2.89
SRCPARAM	L0035537	0.0	3.66	2.33	2.89
SRCPARAM	L0035538	0.0	3.66	2.33	2.89
SRCPARAM	L0035539	0.0	3.66	2.33	2.89
SRCPARAM	L0035540	0.0	3.66	2.33	2.89
SRCPARAM	L0035541	0.0	3.66	2.33	2.89
SRCPARAM	L0035542	0.0	3.66	2.33	2.89
SRCPARAM	L0035543	0.0	3.66	2.33	2.89
SRCPARAM	L0035544	0.0	3.66	2.33	2.89
SRCPARAM	L0035545	0.0	3.66	2.33	2.89
SRCPARAM	L0035546	0.0	3.66	2.33	2.89
SRCPARAM	L0035547	0.0	3.66	2.33	2.89
SRCPARAM	L0035548	0.0	3.66	2.33	2.89
SRCPARAM	L0035549	0.0	3.66	2.33	2.89
SRCPARAM	L0035550	0.0	3.66	2.33	2.89
SRCPARAM	L0035551	0.0	3.66	2.33	2.89
SRCPARAM	L0035552	0.0	3.66	2.33	2.89
SRCPARAM	L0035553	0.0	3.66	2.33	2.89
SRCPARAM	L0035554	0.0	3.66	2.33	2.89
SRCPARAM	L0035555	0.0	3.66	2.33	2.89
SRCPARAM	L0035556	0.0	3.66	2.33	2.89

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   SRCPARAM L0035562          0.0      3.66      2.33      2.89
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   SRCPARAM L0035565          0.0      3.66      2.33      2.89
   SRCPARAM L0035566          0.0      3.66      2.33      2.89
   SRCPARAM L0035567          0.0      3.66      2.33      2.89
   SRCPARAM L0035568          0.0      3.66      2.33      2.89
   SRCPARAM L0035569          0.0      3.66      2.33      2.89
   SRCPARAM L0035570          0.0      3.66      2.33      2.89
   SRCPARAM L0035571          0.0      3.66      2.33      2.89
   SRCPARAM L0035572          0.0      3.66      2.33      2.89
   SRCPARAM L0035573          0.0      3.66      2.33      2.89
   SRCPARAM L0035574          0.0      3.66      2.33      2.89
   SRCPARAM L0035575          0.0      3.66      2.33      2.89
   SRCPARAM L0035576          0.0      3.66      2.33      2.89
   SRCPARAM L0035577          0.0      3.66      2.33      2.89
   SRCPARAM L0035578          0.0      3.66      2.33      2.89
   SRCPARAM L0035579          0.0      3.66      2.33      2.89
   SRCPARAM L0035580          0.0      3.66      2.33      2.89
   SRCPARAM L0035581          0.0      3.66      2.33      2.89
   SRCPARAM L0035582          0.0      3.66      2.33      2.89
   SRCPARAM L0035583          0.0      3.66      2.33      2.89
   SRCPARAM L0035584          0.0      3.66      2.33      2.89
   SRCPARAM L0035585          0.0      3.66      2.33      2.89
   SRCPARAM L0035586          0.0      3.66      2.33      2.89
   SRCPARAM L0035587          0.0      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE64
   SRCPARAM L0044694          0.0      3.66      1.40      2.89
   SRCPARAM L0044695          0.0      3.66      1.40      2.89
   SRCPARAM L0044696          0.0      3.66      1.40      2.89
   SRCPARAM L0044697          0.0      3.66      1.40      2.89
   SRCPARAM L0044698          0.0      3.66      1.40      2.89
   SRCPARAM L0044699          0.0      3.66      1.40      2.89
   SRCPARAM L0044700          0.0      3.66      1.40      2.89
   SRCPARAM L0044701          0.0      3.66      1.40      2.89
   SRCPARAM L0044702          0.0      3.66      1.40      2.89
   SRCPARAM L0044703          0.0      3.66      1.40      2.89
   SRCPARAM L0044704          0.0      3.66      1.40      2.89
   SRCPARAM L0044705          0.0      3.66      1.40      2.89
   SRCPARAM L0044706          0.0      3.66      1.40      2.89
   SRCPARAM L0044707          0.0      3.66      1.40      2.89
   SRCPARAM L0044708          0.0      3.66      1.40      2.89
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SRCPARAM L0044709          0.0      3.66      1.40      2.89
SRCPARAM L0044710          0.0      3.66      1.40      2.89
SRCPARAM L0044711          0.0      3.66      1.40      2.89
SRCPARAM L0044712          0.0      3.66      1.40      2.89
SRCPARAM L0044713          0.0      3.66      1.40      2.89
SRCPARAM L0044714          0.0      3.66      1.40      2.89
SRCPARAM L0044715          0.0      3.66      1.40      2.89
SRCPARAM L0044716          0.0      3.66      1.40      2.89
SRCPARAM L0044717          0.0      3.66      1.40      2.89
SRCPARAM L0044718          0.0      3.66      1.40      2.89
SRCPARAM L0044719          0.0      3.66      1.40      2.89
SRCPARAM L0044720          0.0      3.66      1.40      2.89
SRCPARAM L0044721          0.0      3.66      1.40      2.89
SRCPARAM L0044722          0.0      3.66      1.40      2.89
SRCPARAM L0044723          0.0      3.66      1.40      2.89
SRCPARAM L0044724          0.0      3.66      1.40      2.89
SRCPARAM L0044725          0.0      3.66      1.40      2.89
SRCPARAM L0044726          0.0      3.66      1.40      2.89
SRCPARAM L0044727          0.0      3.66      1.40      2.89
SRCPARAM L0044728          0.0      3.66      1.40      2.89
SRCPARAM L0044729          0.0      3.66      1.40      2.89
SRCPARAM L0044730          0.0      3.66      1.40      2.89
SRCPARAM L0044731          0.0      3.66      1.40      2.89
SRCPARAM L0044732          0.0      3.66      1.40      2.89
SRCPARAM L0044733          0.0      3.66      1.40      2.89
SRCPARAM L0044734          0.0      3.66      1.40      2.89
SRCPARAM L0044735          0.0      3.66      1.40      2.89
SRCPARAM L0044736          0.0      3.66      1.40      2.89
SRCPARAM L0044737          0.0      3.66      1.40      2.89
SRCPARAM L0044738          0.0      3.66      1.40      2.89
SRCPARAM L0044739          0.0      3.66      1.40      2.89
SRCPARAM L0044740          0.0      3.66      1.40      2.89
SRCPARAM L0044741          0.0      3.66      1.40      2.89
SRCPARAM L0044742          0.0      3.66      1.40      2.89
SRCPARAM L0044743          0.0      3.66      1.40      2.89
SRCPARAM L0044744          0.0      3.66      1.40      2.89
SRCPARAM L0044745          0.0      3.66      1.40      2.89
SRCPARAM L0044746          0.0      3.66      1.40      2.89
SRCPARAM L0044747          0.0      3.66      1.40      2.89
SRCPARAM L0044748          0.0      3.66      1.40      2.89
SRCPARAM L0044749          0.0      3.66      1.40      2.89
SRCPARAM L0044750          0.0      3.66      1.40      2.89
SRCPARAM L0044751          0.0      3.66      1.40      2.89
SRCPARAM L0044752          0.0      3.66      1.40      2.89
SRCPARAM L0044753          0.0      3.66      1.40      2.89
SRCPARAM L0044754          0.0      3.66      1.40      2.89
SRCPARAM L0044755          0.0      3.66      1.40      2.89
SRCPARAM L0044756          0.0      3.66      1.40      2.89
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   SRCPARAM L0044757          0.0      3.66      1.40      2.89
   SRCPARAM L0044758          0.0      3.66      1.40      2.89
   SRCPARAM L0044759          0.0      3.66      1.40      2.89
   SRCPARAM L0044760          0.0      3.66      1.40      2.89
   SRCPARAM L0044761          0.0      3.66      1.40      2.89
   SRCPARAM L0044762          0.0      3.66      1.40      2.89
   SRCPARAM L0044763          0.0      3.66      1.40      2.89
   SRCPARAM L0044764          0.0      3.66      1.40      2.89
   SRCPARAM L0044765          0.0      3.66      1.40      2.89
   SRCPARAM L0044766          0.0      3.66      1.40      2.89
   SRCPARAM L0044767          0.0      3.66      1.40      2.89
   SRCPARAM L0044768          0.0      3.66      1.40      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE65
   SRCPARAM L0044769     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044770     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044771     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044772     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044773     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044774     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044775     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044776     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044777     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044778     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044779     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044780     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044781     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044782     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044783     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044784     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044785     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044786     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044787     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044788     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044789     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044790     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044791     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044792     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044793     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044794     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044795     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044796     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044797     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044798     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044799     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044800     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044801     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044802     0.00000003441      3.66      2.33      2.89
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SRCPARAM L0044803     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044804     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044805     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044806     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044807     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044808     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044809     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044810     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044811     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044812     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044813     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044814     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044815     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044816     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044817     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044818     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044819     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044820     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044821     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044822     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044823     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044824     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044825     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044826     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044827     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044828     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044829     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044830     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044831     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044832     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044833     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044834     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044835     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044836     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044837     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044838     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044839     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044840     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044841     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044842     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044843     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044844     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044845     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044846     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044847     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044848     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044849     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044850     0.00000003441      3.66      2.33      2.89
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SRCPARAM L0044851     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044852     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044853     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044854     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044855     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044856     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044857     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044858     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044859     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044860     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044861     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044862     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044863     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044864     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044865     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044866     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044867     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044868     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044869     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044870     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044871     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044872     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044873     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044874     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044875     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044876     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044877     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044878     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044879     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044880     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044881     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044882     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044883     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044884     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044885     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044886     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044887     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044888     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044889     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044890     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044891     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044892     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044893     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044894     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044895     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044896     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044897     0.00000003441      3.66      2.33      2.89
SRCPARAM L0044898     0.00000003441      3.66      2.33      2.89
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   SRCPARAM L0044899     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044900     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044901     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044902     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044903     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044904     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044905     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044906     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044907     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044908     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044909     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044910     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044911     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044912     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044913     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044914     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044915     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044916     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044917     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044918     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044919     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044920     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044921     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044922     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044923     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044924     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044925     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044926     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044927     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044928     0.00000003441      3.66      2.33      2.89
   SRCPARAM L0044929     0.00000003441      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE66
   SRCPARAM L0044930     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044931     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044932     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044933     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044934     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044935     0.0000001324      3.66      2.33      2.89
   SRCPARAM L0044936     0.0000001324      3.66      2.33      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE67
   SRCPARAM L0044937     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044938     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044939     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044940     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044941     0.00000005455      3.66      2.33      2.89
   SRCPARAM L0044942     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0044943     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044944     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044945     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044946     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044947     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044948     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044949     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044950     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044951     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044952     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044953     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044954     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044955     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044956     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044957     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044958     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044959     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044960     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044961     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044962     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044963     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044964     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044965     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044966     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044967     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044968     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044969     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044970     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044971     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044972     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044973     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044974     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044975     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044976     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044977     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044978     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044979     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044980     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044981     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044982     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044983     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044984     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044985     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044986     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044987     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044988     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044989     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044990     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0044992     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0044994     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0044996     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044997     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044998     0.00000005455      3.66      2.33      2.89
SRCPARAM L0044999     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0045002     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045003     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0045005     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045006     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045007     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045008     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045009     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045010     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045011     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045012     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0045014     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045015     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0045032     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0045036     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0045038     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0045077     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045078     0.00000005455      3.66      2.33      2.89
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SRCPARAM L0045080     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045081     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045082     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045083     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045084     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045085     0.00000005455      3.66      2.33      2.89
SRCPARAM L0045086     0.00000005455      3.66      2.33      2.89
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   SRCPARAM L0045097     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045098     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045099     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045100     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045101     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045102     0.00000005469      3.66      2.33      2.89
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   SRCPARAM L0045109     0.00000005469      3.66      2.33      2.89
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   SRCPARAM L0045111     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045112     0.00000005469      3.66      2.33      2.89
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   SRCPARAM L0045114     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045115     0.00000005469      3.66      2.33      2.89
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   SRCPARAM L0045118     0.00000005469      3.66      2.33      2.89
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   SRCPARAM L0045122     0.00000005469      3.66      2.33      2.89
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   SRCPARAM L0045131     0.00000005469      3.66      2.33      2.89
   SRCPARAM L0045132     0.00000005469      3.66      2.33      2.89
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SRCPARAM L0045158     0.00000005469      3.66      2.33      2.89
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SRCPARAM L0045169     0.00000005469      3.66      2.33      2.89
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SRCPARAM L0045173     0.00000005469      3.66      2.33      2.89
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SRCPARAM L0045176     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045177     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045178     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045179     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045180     0.00000005469      3.66      2.33      2.89
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SRCPARAM L0045190     0.00000005469      3.66      2.33      2.89
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SRCPARAM L0045192     0.00000005469      3.66      2.33      2.89
SRCPARAM L0045193     0.00000005469      3.66      2.33      2.89
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SRCPARAM L0045228     0.00000005469      3.66      2.33      2.89
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   SRCPARAM L0045245     0.00000005469      3.66      2.33      2.89
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   SRCPARAM L0045252     0.00000005469      3.66      2.33      2.89
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED SOL_operations_rev2.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_V9_ADJU\KCNO_v9.SFC
   PROFFILE KCNO_V9_ADJU\KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
```

```
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST SOL_OPERATIONS_REV2.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST SOL_OPERATIONS_REV2.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL SOL_OPERATIONS_REV2.AD\PE00GALL.PLT 33
   SUMMFILE SOL_operations_rev2.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of         1316 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320    8559        VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320    8560        VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320    8561        VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320    8562        VPARM: Input Parameter May Be Out-of-Range for Parameter
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 SO W320    8563        VPARM: Input Parameter May Be Out-of-Range for Parameter
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 SO W320    8564        VPARM: Input Parameter May Be Out-of-Range for Parameter
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 SO W320    8565        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8567        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8568        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8569        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8570        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8593        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8741        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8742        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8745        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8863        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8864        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8865        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8866        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8867        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8870        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8871        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8872        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8873        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8874        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8875        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8876        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8877        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8883        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8884        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8885        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8886        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8887        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8888        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8889        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8890        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8891        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8892        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8893        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8894        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8898        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8899        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8903        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8904        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8905        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8906        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8907        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8908        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8909        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8910        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8912        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8913        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8914        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8915        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8916        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8917        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8918        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8919        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8936        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8937        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8938        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8939        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8940        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8942        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8943        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8962        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8984        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8987        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8990        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8991        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9015        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9039        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9040        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9041        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9042        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9043        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9450        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9451        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
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SO W320    9452        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9453        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9454        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9455        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9456        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9457        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9458        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9459        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9460        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9461        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9462        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9463        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9464        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9465        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9466        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9467        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9468        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9469        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9470        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9471        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9472        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9473        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9474        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9475        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
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SO W320    9476        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9477        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9478        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9479        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9480        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9481        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9482        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9483        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9484        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9485        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9486        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9487        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9488        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9489        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9490        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9491        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9492        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9493        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9494        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9495        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9496        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9497        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9498        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9499        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9500        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9501        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9502        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9503        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9504        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9505        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9506        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9507        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9508        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9509        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9510        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9511        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9512        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9513        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9514        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9515        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9516        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9517        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9518        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9519        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9520        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9521        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9522        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9523        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9524        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9525        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9526        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9529        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9530        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9531        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9532        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9533        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9534        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9535        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9536        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9537        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9538        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9539        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9540        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9541        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9542        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9543        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9544        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9545        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9546        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9547        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9548        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9549        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9550        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9551        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9552        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9553        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9554        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9555        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9556        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9557        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9558        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9559        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9560        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9561        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9562        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9563        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9564        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9565        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9566        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9567        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9568        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9569        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9570        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9571        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9572        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    9573        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
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 SO W320    9574        VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320    9575        VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320    9576        VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320    9577        VPARM: Input Parameter May Be Out-of-Range for Parameter
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 SO W320    9578        VPARM: Input Parameter May Be Out-of-Range for Parameter
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 SO W320    9579        VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320    9580        VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320    9581        VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 More Than 999 Warning Messages Found.  See ERRORFIL Output for the Remainder.

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:50:42

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                             ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for  4624 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
```

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        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  2 Short Term Average(s) of:   1-HR  24-HR
    and Calculates PERIOD Averages

 **This Run Includes:   4624 Source(s);       1 Source Group(s); and     458
Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:   4624 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing
Hours
```

b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 198.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 5.5 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: SOL_operations_rev2.err

**File for Summary of Results: SOL_operations_rev2.sum

*** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\SOL_operations_rev2\SOL_operations_rev2.isc *** 03/09/21
*** AERMET - VERSION 16216 *** ***
*** 17:50:42

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0040784	0	0.18050E-06	439897.9	3762682.1	217.5	3.66	5.58	2.89	YES	
L0040785	0	0.18050E-06	439897.8	3762670.1	217.3	3.66	5.58	2.89	YES	
L0040786	0	0.18050E-06	439897.8	3762658.1	217.2	3.66	5.58	2.89	YES	
L0040787	0	0.18050E-06	439897.7	3762646.1	217.0	3.66	5.58	2.89	YES	

L0040788	0	0.18050E-06	439897.7	3762634.1	216.9	3.66	5.58	2.89 YES
L0040789	0	0.18050E-06	439897.7	3762622.1	216.7	3.66	5.58	2.89 YES
L0040790	0	0.18050E-06	439897.9	3762610.1	216.5	3.66	5.58	2.89 YES
L0040791	0	0.18050E-06	439898.0	3762598.1	216.4	3.66	5.58	2.89 YES
L0040792	0	0.18050E-06	439898.1	3762586.1	216.2	3.66	5.58	2.89 YES
L0040793	0	0.18050E-06	439898.2	3762574.1	216.1	3.66	5.58	2.89 YES
L0040794	0	0.18050E-06	439898.3	3762562.1	216.0	3.66	5.58	2.89 YES
L0040795	0	0.18050E-06	439898.4	3762550.1	215.8	3.66	5.58	2.89 YES
L0040796	0	0.18050E-06	439898.5	3762538.1	215.7	3.66	5.58	2.89 YES
L0040797	0	0.18050E-06	439898.6	3762526.1	215.5	3.66	5.58	2.89 YES
L0040798	0	0.18050E-06	439898.8	3762514.1	215.4	3.66	5.58	2.89 YES
L0040799	0	0.18050E-06	439898.9	3762502.1	215.3	3.66	5.58	2.89 YES
L0040800	0	0.18050E-06	439899.0	3762490.1	215.2	3.66	5.58	2.89 YES
L0040801	0	0.18050E-06	439899.1	3762478.1	215.0	3.66	5.58	2.89 YES
L0040802	0	0.18050E-06	439899.2	3762466.1	214.9	3.66	5.58	2.89 YES
L0040803	0	0.18050E-06	439899.3	3762454.1	214.8	3.66	5.58	2.89 YES
L0040804	0	0.18050E-06	439899.4	3762442.1	214.6	3.66	5.58	2.89 YES
L0040805	0	0.18050E-06	439899.5	3762430.1	214.4	3.66	5.58	2.89 YES
L0040806	0	0.18050E-06	439899.7	3762418.1	214.3	3.66	5.58	2.89 YES
L0040807	0	0.18050E-06	439899.8	3762406.1	214.1	3.66	5.58	2.89 YES
L0040808	0	0.18050E-06	439899.9	3762394.1	214.0	3.66	5.58	2.89 YES
L0040809	0	0.18050E-06	439900.0	3762382.1	213.8	3.66	5.58	2.89 YES
L0040810	0	0.18050E-06	439900.1	3762370.1	213.7	3.66	5.58	2.89 YES
L0040811	0	0.18050E-06	439900.0	3762358.1	213.5	3.66	5.58	2.89 YES

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 L0040812         0   0.18050E-06  439899.9 3762346.1   213.3     3.66     5.58
2.89     YES
 L0040813         0   0.18050E-06  439899.9 3762334.1   213.2     3.66     5.58
2.89     YES
 L0040814         0   0.18050E-06  439899.8 3762322.1   213.0     3.66     5.58
2.89     YES
 L0040815         0   0.18050E-06  439899.7 3762310.1   212.8     3.66     5.58
2.89     YES
 L0040816         0   0.18050E-06  439899.6 3762298.1   212.6     3.66     5.58
2.89     YES
 L0040817         0   0.18050E-06  439899.5 3762286.1   212.4     3.66     5.58
2.89     YES
 L0040818         0   0.18050E-06  439899.4 3762274.1   212.2     3.66     5.58
2.89     YES
 L0040819         0   0.18050E-06  439899.4 3762262.1   212.0     3.66     5.58
2.89     YES
 L0040820         0   0.18050E-06  439899.3 3762250.1   211.8     3.66     5.58
2.89     YES
 L0040821         0   0.18050E-06  439899.2 3762238.1   211.6     3.66     5.58
2.89     YES
 L0040822         0   0.18050E-06  439899.1 3762226.1   211.5     3.66     5.58
2.89     YES
 L0040823         0   0.18050E-06  439899.0 3762214.1   211.3     3.66     5.58
2.89     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040824	0	0.18050E-06	439898.9	3762202.1	211.1	3.66	5.58	2.89	YES	
L0040825	0	0.18050E-06	439898.9	3762190.1	211.0	3.66	5.58	2.89	YES	

L0040826	0	0.18050E-06	439898.8	3762178.1	210.9	3.66	5.58	2.89 YES
L0040827	0	0.18050E-06	439898.7	3762166.1	210.8	3.66	5.58	2.89 YES
L0040828	0	0.18050E-06	439898.6	3762154.1	210.7	3.66	5.58	2.89 YES
L0040829	0	0.18050E-06	439898.5	3762142.1	210.6	3.66	5.58	2.89 YES
L0040830	0	0.18050E-06	439898.4	3762130.1	210.5	3.66	5.58	2.89 YES
L0040831	0	0.18050E-06	439898.4	3762118.1	210.4	3.66	5.58	2.89 YES
L0040832	0	0.18050E-06	439898.3	3762106.1	210.3	3.66	5.58	2.89 YES
L0040833	0	0.18050E-06	439898.2	3762094.1	210.2	3.66	5.58	2.89 YES
L0040834	0	0.18050E-06	439898.1	3762082.1	210.1	3.66	5.58	2.89 YES
L0040835	0	0.18050E-06	439898.0	3762070.1	210.0	3.66	5.58	2.89 YES
L0040836	0	0.18050E-06	439898.0	3762058.1	210.0	3.66	5.58	2.89 YES
L0040837	0	0.18050E-06	439898.0	3762046.1	209.9	3.66	5.58	2.89 YES
L0040838	0	0.18050E-06	439897.9	3762034.1	209.8	3.66	5.58	2.89 YES
L0040839	0	0.18050E-06	439897.9	3762022.1	209.7	3.66	5.58	2.89 YES
L0040840	0	0.18050E-06	439897.9	3762010.1	209.6	3.66	5.58	2.89 YES
L0040841	0	0.18050E-06	439897.8	3761998.1	209.5	3.66	5.58	2.89 YES
L0040842	0	0.18050E-06	439897.8	3761986.1	209.4	3.66	5.58	2.89 YES
L0040843	0	0.18050E-06	439897.8	3761974.1	209.3	3.66	5.58	2.89 YES
L0040844	0	0.18050E-06	439897.7	3761962.1	209.2	3.66	5.58	2.89 YES
L0040845	0	0.18050E-06	439897.7	3761950.1	209.1	3.66	5.58	2.89 YES
L0040846	0	0.18050E-06	439897.7	3761938.1	209.0	3.66	5.58	2.89 YES
L0040847	0	0.18050E-06	439897.6	3761926.1	208.9	3.66	5.58	2.89 YES
L0040848	0	0.18050E-06	439897.6	3761914.1	208.8	3.66	5.58	2.89 YES
L0040849	0	0.18050E-06	439897.6	3761902.1	208.7	3.66	5.58	2.89 YES

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 L0040850         0   0.18050E-06  439897.5 3761890.1   208.6     3.66     5.58
2.89     YES
 L0040851         0   0.18050E-06  439897.5 3761878.1   208.5     3.66     5.58
2.89     YES
 L0040852         0   0.18050E-06  439897.5 3761866.1   208.4     3.66     5.58
2.89     YES
 L0040853         0   0.18050E-06  439897.4 3761854.1   208.2     3.66     5.58
2.89     YES
 L0040854         0   0.18050E-06  439897.4 3761842.1   208.2     3.66     5.58
2.89     YES
 L0040855         0   0.18050E-06  439897.4 3761830.1   208.0     3.66     5.58
2.89     YES
 L0040856         0   0.18050E-06  439897.3 3761818.1   207.9     3.66     5.58
2.89     YES
 L0040857         0   0.18050E-06  439897.3 3761806.1   207.8     3.66     5.58
2.89     YES
 L0040858         0   0.18050E-06  439897.3 3761794.1   207.7     3.66     5.58
2.89     YES
 L0040859         0   0.18050E-06  439897.2 3761782.1   207.6     3.66     5.58
2.89     YES
 L0040860         0   0.18050E-06  439897.2 3761770.1   207.5     3.66     5.58
2.89     YES
 L0040861         0   0.18050E-06  439897.2 3761758.1   207.4     3.66     5.58
2.89     YES
 L0040862         0   0.18050E-06  439897.1 3761746.1   207.3     3.66     5.58
2.89     YES
 L0040863         0   0.18050E-06  439897.1 3761734.1   207.2     3.66     5.58
2.89     YES
↑ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
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L0040864	0	0.18050E-06	439897.1	3761722.1	207.1	3.66	5.58	2.89 YES
L0040865	0	0.18050E-06	439897.0	3761710.1	207.0	3.66	5.58	2.89 YES
L0040866	0	0.18050E-06	439897.0	3761698.1	206.9	3.66	5.58	2.89 YES
L0040867	0	0.18050E-06	439897.0	3761686.1	206.8	3.66	5.58	2.89 YES
L0040868	0	0.18050E-06	439896.9	3761674.1	206.7	3.66	5.58	2.89 YES
L0040869	0	0.18050E-06	439896.9	3761662.1	206.6	3.66	5.58	2.89 YES
L0040870	0	0.18050E-06	439896.8	3761650.1	206.5	3.66	5.58	2.89 YES
L0040871	0	0.18050E-06	439896.8	3761638.1	206.4	3.66	5.58	2.89 YES
L0040872	0	0.18050E-06	439896.8	3761626.1	206.3	3.66	5.58	2.89 YES
L0040873	0	0.18050E-06	439896.7	3761614.1	206.2	3.66	5.58	2.89 YES
L0040874	0	0.18050E-06	439896.7	3761602.1	206.1	3.66	5.58	2.89 YES
L0040875	0	0.18050E-06	439896.7	3761590.1	206.0	3.66	5.58	2.89 YES
L0040876	0	0.18050E-06	439896.6	3761578.1	205.9	3.66	5.58	2.89 YES
L0040877	0	0.18050E-06	439896.6	3761566.1	205.8	3.66	5.58	2.89 YES
L0040878	0	0.18050E-06	439896.6	3761554.1	205.6	3.66	5.58	2.89 YES
L0040879	0	0.18050E-06	439896.5	3761542.1	205.5	3.66	5.58	2.89 YES
L0040880	0	0.18050E-06	439896.5	3761530.1	205.3	3.66	5.58	2.89 YES
L0040881	0	0.18050E-06	439896.5	3761518.1	205.2	3.66	5.58	2.89 YES
L0040882	0	0.18050E-06	439896.4	3761506.1	205.1	3.66	5.58	2.89 YES
L0040883	0	0.18050E-06	439896.4	3761494.1	204.9	3.66	5.58	2.89 YES
L0040884	0	0.18050E-06	439896.4	3761482.1	204.8	3.66	5.58	2.89 YES
L0040885	0	0.18050E-06	439896.3	3761470.1	204.6	3.66	5.58	2.89 YES
L0040886	0	0.18050E-06	439896.3	3761458.1	204.5	3.66	5.58	2.89 YES
L0040887	0	0.18050E-06	439896.3	3761446.1	204.4	3.66	5.58	2.89 YES

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 L0040888         0   0.18050E-06  439896.2 3761434.1   204.2     3.66     5.58
2.89     YES
 L0040889         0   0.18050E-06  439896.2 3761422.1   204.1     3.66     5.58
2.89     YES
 L0040890         0   0.18050E-06  439896.2 3761410.1   203.9     3.66     5.58
2.89     YES
 L0040891         0   0.18050E-06  439896.1 3761398.1   203.8     3.66     5.58
2.89     YES
 L0040892         0   0.18050E-06  439896.1 3761386.1   203.6     3.66     5.58
2.89     YES
 L0040893         0   0.18050E-06  439896.1 3761374.1   203.5     3.66     5.58
2.89     YES
 L0040894         0   0.18050E-06  439896.0 3761362.1   203.3     3.66     5.58
2.89     YES
 L0040895         0   0.18050E-06  439896.0 3761350.1   203.2     3.66     5.58
2.89     YES
 L0040896         0   0.18050E-06  439896.0 3761338.1   203.1     3.66     5.58
2.89     YES
 L0040897         0   0.18050E-06  439895.9 3761326.1   202.9     3.66     5.58
2.89     YES
 L0040898         0   0.18050E-06  439895.9 3761314.1   202.8     3.66     5.58
2.89     YES
 L0040899         0   0.18050E-06  439895.9 3761302.1   202.7     3.66     5.58
2.89     YES
 L0040900         0   0.18050E-06  439895.8 3761290.1   202.6     3.66     5.58
2.89     YES
 L0040901         0   0.18050E-06  439895.8 3761278.1   202.4     3.66     5.58
2.89     YES
 L0040902         0   0.18050E-06  439895.8 3761266.1   202.3     3.66     5.58
2.89     YES
 L0040903         0   0.18050E-06  439895.8 3761254.1   202.2     3.66     5.58
2.89     YES
↟ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
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(METERS)		BY						
L0040904	0	0.18050E-06	439895.8	3761242.1	202.1	3.66	5.58	2.89 YES
L0040905	0	0.18050E-06	439895.8	3761230.1	202.0	3.66	5.58	2.89 YES
L0040906	0	0.18050E-06	439895.8	3761218.1	201.9	3.66	5.58	2.89 YES
L0040907	0	0.18050E-06	439895.8	3761206.1	201.8	3.66	5.58	2.89 YES
L0040908	0	0.18050E-06	439895.8	3761194.1	201.7	3.66	5.58	2.89 YES
L0040909	0	0.18050E-06	439895.8	3761182.1	201.6	3.66	5.58	2.89 YES
L0040910	0	0.18050E-06	439895.8	3761170.1	201.5	3.66	5.58	2.89 YES
L0040911	0	0.18050E-06	439895.8	3761158.1	201.4	3.66	5.58	2.89 YES
L0040912	0	0.18050E-06	439895.8	3761146.1	201.2	3.66	5.58	2.89 YES
L0040913	0	0.18050E-06	439895.8	3761134.1	201.1	3.66	5.58	2.89 YES
L0040914	0	0.18050E-06	439895.8	3761122.1	201.0	3.66	5.58	2.89 YES
L0040915	0	0.18050E-06	439895.8	3761110.1	200.9	3.66	5.58	2.89 YES
L0040916	0	0.18050E-06	439895.8	3761098.1	200.7	3.66	5.58	2.89 YES
L0040917	0	0.18050E-06	439895.8	3761086.1	200.6	3.66	5.58	2.89 YES
L0040918	0	0.18050E-06	439895.8	3761074.1	200.5	3.66	5.58	2.89 YES
L0040919	0	0.18050E-06	439895.8	3761062.1	200.4	3.66	5.58	2.89 YES
L0040920	0	0.18050E-06	439895.8	3761050.1	200.2	3.66	5.58	2.89 YES
L0040921	0	0.18050E-06	439895.8	3761038.1	200.1	3.66	5.58	2.89 YES
L0040922	0	0.18050E-06	439895.8	3761026.1	199.9	3.66	5.58	2.89 YES
L0040923	0	0.18050E-06	439895.8	3761014.1	199.8	3.66	5.58	2.89 YES
L0040924	0	0.18050E-06	439895.8	3761002.1	199.6	3.66	5.58	2.89 YES
L0040925	0	0.18050E-06	439895.8	3760990.1	199.5	3.66	5.58	2.89 YES

L0040926	0	0.18050E-06	439895.8	3760978.1	199.3	3.66	5.58	2.89 YES
L0040927	0	0.18050E-06	439895.8	3760966.1	199.2	3.66	5.58	2.89 YES
L0040928	0	0.18050E-06	439895.8	3760954.1	199.0	3.66	5.58	2.89 YES
L0040929	0	0.18050E-06	439895.8	3760942.1	198.9	3.66	5.58	2.89 YES
L0040930	0	0.18050E-06	439895.8	3760930.1	198.7	3.66	5.58	2.89 YES
L0040931	0	0.18050E-06	439895.8	3760918.1	198.6	3.66	5.58	2.89 YES
L0040932	0	0.18050E-06	439895.8	3760906.1	198.4	3.66	5.58	2.89 YES
L0040933	0	0.18050E-06	439895.8	3760894.1	198.2	3.66	5.58	2.89 YES
L0040934	0	0.18050E-06	439895.8	3760882.1	198.1	3.66	5.58	2.89 YES
L0040935	0	0.18050E-06	439895.8	3760870.1	197.9	3.66	5.58	2.89 YES
L0040936	0	0.18050E-06	439895.8	3760858.1	197.8	3.66	5.58	2.89 YES
L0040937	0	0.18050E-06	439895.8	3760846.1	197.6	3.66	5.58	2.89 YES
L0040938	0	0.18050E-06	439895.8	3760834.1	197.4	3.66	5.58	2.89 YES
L0040939	0	0.18050E-06	439895.8	3760822.1	197.3	3.66	5.58	2.89 YES
L0040940	0	0.18050E-06	439895.8	3760810.1	197.1	3.66	5.58	2.89 YES
L0040941	0	0.18050E-06	439895.8	3760798.1	197.0	3.66	5.58	2.89 YES
L0040942	0	0.18050E-06	439895.8	3760786.1	196.8	3.66	5.58	2.89 YES
L0040943	0	0.18050E-06	439895.8	3760774.1	196.7	3.66	5.58	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT.

INIT. SOURCE ID	URBAN PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE VARY BY
L0040944	0	0.18050E-06	439895.8	3760762.1	196.5	3.66	5.58	2.89	YES
L0040945	0	0.18050E-06	439895.8	3760750.1	196.4	3.66	5.58	2.89	YES
L0040946	0	0.18050E-06	439895.8	3760738.1	196.2	3.66	5.58	2.89	YES
L0040947	0	0.18050E-06	439895.8	3760726.1	196.1	3.66	5.58	2.89	YES
L0040948	0	0.18050E-06	439895.8	3760714.1	196.0	3.66	5.58	2.89	YES
L0040949	0	0.18050E-06	439895.8	3760702.1	195.9	3.66	5.58	2.89	YES
L0040950	0	0.18050E-06	439895.8	3760690.1	195.7	3.66	5.58	2.89	YES
L0040951	0	0.18050E-06	439895.8	3760678.1	195.6	3.66	5.58	2.89	YES
L0040952	0	0.18050E-06	439895.8	3760666.1	195.5	3.66	5.58	2.89	YES
L0040953	0	0.18050E-06	439895.8	3760654.1	195.4	3.66	5.58	2.89	YES
L0040954	0	0.18050E-06	439895.8	3760642.1	195.3	3.66	5.58	2.89	YES
L0040955	0	0.18050E-06	439895.8	3760630.1	195.2	3.66	5.58	2.89	YES
L0040956	0	0.18050E-06	439895.8	3760618.1	195.1	3.66	5.58	2.89	YES
L0040957	0	0.18050E-06	439895.8	3760606.1	195.0	3.66	5.58	2.89	YES
L0040958	0	0.18050E-06	439895.8	3760594.1	194.9	3.66	5.58	2.89	YES
L0040959	0	0.18050E-06	439895.8	3760582.1	194.8	3.66	5.58	2.89	YES
L0040960	0	0.18050E-06	439895.8	3760570.1	194.7	3.66	5.58	2.89	YES
L0040961	0	0.18050E-06	439895.8	3760558.1	194.6	3.66	5.58	2.89	YES
L0040962	0	0.18050E-06	439895.8	3760546.1	194.5	3.66	5.58	2.89	YES
L0040963	0	0.18050E-06	439895.8	3760534.1	194.3	3.66	5.58	2.89	YES

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 L0040964         0   0.18050E-06  439895.8 3760522.1   194.2     3.66     5.58
2.89     YES
 L0040965         0   0.18050E-06  439895.8 3760510.1   194.1     3.66     5.58
2.89     YES
 L0040966         0   0.18050E-06  439895.8 3760498.1   194.0     3.66     5.58
2.89     YES
 L0040967         0   0.18050E-06  439895.8 3760486.1   193.9     3.66     5.58
2.89     YES
 L0040968         0   0.18050E-06  439895.8 3760474.1   193.8     3.66     5.58
2.89     YES
 L0040969         0   0.12030E-06  439895.9 3760465.5   193.7     3.66     5.58
2.89     YES
 L0040970         0   0.12030E-06  439895.7 3760453.5   193.6     3.66     5.58
2.89     YES
 L0040971         0   0.12030E-06  439895.6 3760441.5   193.5     3.66     5.58
2.89     YES
 L0040972         0   0.12030E-06  439895.4 3760429.5   193.4     3.66     5.58
2.89     YES
 L0040973         0   0.12030E-06  439895.2 3760417.5   193.3     3.66     5.58
2.89     YES
 L0040974         0   0.12030E-06  439895.1 3760405.5   193.2     3.66     5.58
2.89     YES
 L0040975         0   0.12030E-06  439894.9 3760393.5   193.2     3.66     5.58
2.89     YES
 L0040976         0   0.12030E-06  439894.8 3760381.5   193.1     3.66     5.58
2.89     YES
 L0040977         0   0.12030E-06  439894.6 3760369.5   193.0     3.66     5.58
2.89     YES
 L0040978         0   0.12030E-06  439894.5 3760357.5   193.0     3.66     5.58
2.89     YES
 L0040979         0   0.12030E-06  439894.3 3760345.5   192.9     3.66     5.58
2.89     YES
 L0040980         0   0.12030E-06  439894.1 3760333.5   192.8     3.66     5.58
2.89     YES
 L0040981         0   0.12030E-06  439894.0 3760321.5   192.7     3.66     5.58
2.89     YES
 L0040982         0   0.12030E-06  439894.0 3760309.5   192.6     3.66     5.58
2.89     YES
 L0040983         0   0.12030E-06  439894.0 3760297.5   192.5     3.66     5.58
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0040984	0	0.12030E-06	439894.0	3760285.5	192.4	3.66	5.58	2.89	YES
L0040985	0	0.12030E-06	439894.0	3760273.5	192.3	3.66	5.58	2.89	YES
L0040986	0	0.12030E-06	439894.0	3760261.5	192.2	3.66	5.58	2.89	YES
L0040987	0	0.12030E-06	439894.1	3760249.5	192.1	3.66	5.58	2.89	YES
L0040988	0	0.12030E-06	439894.1	3760237.5	192.0	3.66	5.58	2.89	YES
L0040989	0	0.12030E-06	439894.1	3760225.5	191.9	3.66	5.58	2.89	YES
L0040990	0	0.12030E-06	439894.1	3760213.5	191.7	3.66	5.58	2.89	YES
L0040991	0	0.12030E-06	439894.1	3760201.5	191.6	3.66	5.58	2.89	YES
L0040992	0	0.12030E-06	439894.1	3760189.5	191.5	3.66	5.58	2.89	YES
L0040993	0	0.12030E-06	439894.1	3760177.5	191.4	3.66	5.58	2.89	YES
L0040994	0	0.12030E-06	439894.1	3760165.5	191.4	3.66	5.58	2.89	YES
L0040995	0	0.12030E-06	439894.1	3760153.5	191.3	3.66	5.58	2.89	YES
L0040996	0	0.12030E-06	439894.1	3760141.5	191.2	3.66	5.58	2.89	YES
L0040997	0	0.12030E-06	439894.1	3760129.5	191.2	3.66	5.58	2.89	YES
L0040998	0	0.12030E-06	439894.1	3760117.5	191.1	3.66	5.58	2.89	YES
L0040999	0	0.12030E-06	439894.1	3760105.5	191.1	3.66	5.58	2.89	YES
L0041000	0	0.12030E-06	439894.2	3760093.5	191.0	3.66	5.58	2.89	YES
L0041001	0	0.12030E-06	439894.2	3760081.5	191.0	3.66	5.58	2.89	YES

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 L0041002         0   0.12030E-06  439894.2 3760069.5   190.9     3.66     5.58
2.89     YES
 L0041003         0   0.12030E-06  439894.2 3760057.5   190.9     3.66     5.58
2.89     YES
 L0041004         0   0.12030E-06  439894.2 3760045.5   190.8     3.66     5.58
2.89     YES
 L0041005         0   0.12030E-06  439894.2 3760033.5   190.8     3.66     5.58
2.89     YES
 L0041006         0   0.12030E-06  439894.2 3760021.5   190.7     3.66     5.58
2.89     YES
 L0041007         0   0.12030E-06  439894.2 3760009.5   190.7     3.66     5.58
2.89     YES
 L0041008         0   0.12030E-06  439894.2 3759997.5   190.6     3.66     5.58
2.89     YES
 L0041009         0   0.12030E-06  439894.2 3759985.5   190.5     3.66     5.58
2.89     YES
 L0041010         0   0.12030E-06  439894.2 3759973.5   190.5     3.66     5.58
2.89     YES
 L0041011         0   0.12030E-06  439894.2 3759961.5   190.4     3.66     5.58
2.89     YES
 L0041012         0   0.12030E-06  439894.2 3759949.5   190.3     3.66     5.58
2.89     YES
 L0041013         0   0.12030E-06  439894.1 3759937.5   190.3     3.66     5.58
2.89     YES
 L0041014         0   0.12030E-06  439893.9 3759925.5   190.2     3.66     5.58
2.89     YES
 L0041015         0   0.12030E-06  439893.8 3759913.5   190.1     3.66     5.58
2.89     YES
 L0041016         0   0.12030E-06  439893.7 3759901.5   190.1     3.66     5.58
2.89     YES
 L0041017         0   0.12030E-06  439893.6 3759889.5   190.0     3.66     5.58
2.89     YES
 L0041018         0   0.12030E-06  439893.4 3759877.5   189.9     3.66     5.58
2.89     YES
 L0041019         0   0.12030E-06  439893.3 3759865.5   189.8     3.66     5.58
2.89     YES
 L0041020         0   0.12030E-06  439893.2 3759853.5   189.7     3.66     5.58
2.89     YES
 L0041021         0   0.12030E-06  439893.1 3759841.5   189.6     3.66     5.58
2.89     YES
 L0041022         0   0.12030E-06  439892.9 3759829.5   189.5     3.66     5.58
2.89     YES
 L0041023         0   0.12030E-06  439892.8 3759817.5   189.4     3.66     5.58
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0041024	0	0.12030E-06	439892.7	3759805.5	189.3	3.66	5.58	2.89	YES	
L0041025	0	0.12030E-06	439892.6	3759793.5	189.2	3.66	5.58	2.89	YES	
L0041026	0	0.12030E-06	439892.4	3759781.5	189.1	3.66	5.58	2.89	YES	
L0041027	0	0.12030E-06	439892.3	3759769.5	189.0	3.66	5.58	2.89	YES	
L0041028	0	0.12030E-06	439892.2	3759757.5	188.9	3.66	5.58	2.89	YES	
L0041029	0	0.12030E-06	439892.0	3759745.5	188.8	3.66	5.58	2.89	YES	
L0041030	0	0.12030E-06	439891.9	3759733.5	188.7	3.66	5.58	2.89	YES	
L0041031	0	0.12030E-06	439891.8	3759721.5	188.6	3.66	5.58	2.89	YES	
L0041032	0	0.12030E-06	439891.7	3759709.5	188.5	3.66	5.58	2.89	YES	
L0041033	0	0.12030E-06	439891.5	3759697.5	188.4	3.66	5.58	2.89	YES	
L0041034	0	0.12030E-06	439891.4	3759685.5	188.3	3.66	5.58	2.89	YES	
L0041035	0	0.12030E-06	439891.3	3759673.5	188.2	3.66	5.58	2.89	YES	
L0041036	0	0.12030E-06	439891.2	3759661.5	188.1	3.66	5.58	2.89	YES	
L0041037	0	0.12030E-06	439891.0	3759649.5	188.0	3.66	5.58	2.89	YES	
L0041038	0	0.12030E-06	439890.9	3759637.5	187.9	3.66	5.58	2.89	YES	
L0041039	0	0.12030E-06	439890.8	3759625.5	187.8	3.66	5.58	2.89	YES	

L0041040	0	0.12030E-06	439890.7	3759613.5	187.6	3.66	5.58	2.89 YES
L0041041	0	0.12030E-06	439890.5	3759601.5	187.5	3.66	5.58	2.89 YES
L0041042	0	0.12030E-06	439890.4	3759589.5	187.4	3.66	5.58	2.89 YES
L0041043	0	0.12030E-06	439890.3	3759577.5	187.4	3.66	5.58	2.89 YES
L0041044	0	0.12030E-06	439890.2	3759565.5	187.2	3.66	5.58	2.89 YES
L0041045	0	0.12030E-06	439890.0	3759553.5	187.2	3.66	5.58	2.89 YES
L0041046	0	0.12030E-06	439889.9	3759541.5	187.1	3.66	5.58	2.89 YES
L0041047	0	0.12030E-06	439889.8	3759529.5	187.0	3.66	5.58	2.89 YES
L0041048	0	0.12030E-06	439889.7	3759517.5	186.9	3.66	5.58	2.89 YES
L0041049	0	0.12030E-06	439889.6	3759505.5	186.8	3.66	5.58	2.89 YES
L0041050	0	0.12030E-06	439889.6	3759493.5	186.7	3.66	5.58	2.89 YES
L0041051	0	0.12030E-06	439889.5	3759481.5	186.6	3.66	5.58	2.89 YES
L0041052	0	0.12030E-06	439889.5	3759469.5	186.6	3.66	5.58	2.89 YES
L0041053	0	0.12030E-06	439889.5	3759457.5	186.5	3.66	5.58	2.89 YES
L0041054	0	0.12030E-06	439889.4	3759445.5	186.4	3.66	5.58	2.89 YES
L0041055	0	0.12030E-06	439889.4	3759433.5	186.3	3.66	5.58	2.89 YES
L0041056	0	0.12030E-06	439889.3	3759421.5	186.3	3.66	5.58	2.89 YES
L0041057	0	0.12030E-06	439889.3	3759409.5	186.2	3.66	5.58	2.89 YES
L0041058	0	0.12030E-06	439889.3	3759397.5	186.1	3.66	5.58	2.89 YES
L0041059	0	0.12030E-06	439889.2	3759385.5	186.0	3.66	5.58	2.89 YES
L0041060	0	0.12030E-06	439889.2	3759373.5	185.9	3.66	5.58	2.89 YES
L0041061	0	0.12030E-06	439889.1	3759361.5	185.9	3.66	5.58	2.89 YES
L0041062	0	0.12030E-06	439889.1	3759349.5	185.8	3.66	5.58	2.89 YES
L0041063	0	0.12030E-06	439889.1	3759337.5	185.7	3.66	5.58	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0041064	0	0.12030E-06	439889.0	3759325.5	185.7	3.66	5.58	2.89	YES	
L0041065	0	0.12030E-06	439889.0	3759313.5	185.6	3.66	5.58	2.89	YES	
L0041066	0	0.12030E-06	439888.9	3759301.5	185.5	3.66	5.58	2.89	YES	
L0041067	0	0.12030E-06	439888.9	3759289.5	185.4	3.66	5.58	2.89	YES	
L0041068	0	0.12030E-06	439888.9	3759277.5	185.4	3.66	5.58	2.89	YES	
L0041069	0	0.12030E-06	439888.8	3759265.5	185.2	3.66	5.58	2.89	YES	
L0041070	0	0.12030E-06	439888.8	3759253.5	185.1	3.66	5.58	2.89	YES	
L0041071	0	0.12030E-06	439888.7	3759241.5	185.0	3.66	5.58	2.89	YES	
L0041072	0	0.12030E-06	439888.7	3759229.5	184.9	3.66	5.58	2.89	YES	
L0041073	0	0.12030E-06	439888.7	3759217.5	184.8	3.66	5.58	2.89	YES	
L0041074	0	0.12030E-06	439888.7	3759205.5	184.7	3.66	5.58	2.89	YES	
L0041075	0	0.12030E-06	439888.8	3759193.5	184.6	3.66	5.58	2.89	YES	
L0041076	0	0.12030E-06	439888.8	3759181.5	184.4	3.66	5.58	2.89	YES	
L0041077	0	0.12030E-06	439888.9	3759169.5	184.3	3.66	5.58	2.89	YES	

L0041078	0	0.12030E-06	439888.9	3759157.5	184.2	3.66	5.58	2.89 YES
L0041079	0	0.12030E-06	439889.0	3759145.5	184.1	3.66	5.58	2.89 YES
L0041080	0	0.12030E-06	439889.0	3759133.5	184.0	3.66	5.58	2.89 YES
L0041081	0	0.12030E-06	439889.1	3759121.5	183.9	3.66	5.58	2.89 YES
L0041082	0	0.12030E-06	439889.1	3759109.5	183.8	3.66	5.58	2.89 YES
L0041083	0	0.12030E-06	439889.2	3759097.5	183.7	3.66	5.58	2.89 YES
L0041084	0	0.12030E-06	439889.2	3759085.5	183.6	3.66	5.58	2.89 YES
L0041085	0	0.12030E-06	439889.3	3759073.5	183.6	3.66	5.58	2.89 YES
L0041086	0	0.12030E-06	439889.2	3759061.5	183.5	3.66	5.58	2.89 YES
L0041087	0	0.12030E-06	439889.1	3759049.5	183.4	3.66	5.58	2.89 YES
L0041088	0	0.12030E-06	439889.0	3759037.5	183.4	3.66	5.58	2.89 YES
L0041089	0	0.12030E-06	439888.9	3759025.5	183.3	3.66	5.58	2.89 YES
L0041090	0	0.12030E-06	439888.8	3759013.5	183.2	3.66	5.58	2.89 YES
L0041091	0	0.12030E-06	439888.7	3759001.5	183.2	3.66	5.58	2.89 YES
L0041092	0	0.12030E-06	439888.6	3758989.5	183.1	3.66	5.58	2.89 YES
L0041093	0	0.12030E-06	439888.5	3758977.5	183.0	3.66	5.58	2.89 YES
L0041094	0	0.12030E-06	439888.4	3758965.5	183.0	3.66	5.58	2.89 YES
L0041095	0	0.12030E-06	439888.3	3758953.5	182.9	3.66	5.58	2.89 YES
L0041096	0	0.12030E-06	439888.2	3758941.5	182.8	3.66	5.58	2.89 YES
L0041097	0	0.12030E-06	439888.1	3758929.5	182.7	3.66	5.58	2.89 YES
L0041098	0	0.12030E-06	439888.0	3758917.5	182.6	3.66	5.58	2.89 YES
L0041099	0	0.12030E-06	439887.9	3758905.5	182.4	3.66	5.58	2.89 YES
L0041100	0	0.12030E-06	439887.8	3758893.5	182.3	3.66	5.58	2.89 YES
L0041101	0	0.12030E-06	439887.6	3758881.5	182.2	3.66	5.58	2.89 YES

 L0041102   0   0.68180E-07 439900.9 3760465.5   193.7   3.66   2.33
2.89   YES
 L0041103   0   0.68180E-07 439905.9 3760465.4   193.7   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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L0041116	0	0.68180E-07	439970.9	3760465.0	193.6	3.66	2.33	2.89 YES
L0041117	0	0.68180E-07	439975.9	3760465.0	193.6	3.66	2.33	2.89 YES
L0041118	0	0.68180E-07	439980.9	3760465.0	193.6	3.66	2.33	2.89 YES
L0041119	0	0.68180E-07	439985.9	3760465.0	193.6	3.66	2.33	2.89 YES
L0041120	0	0.68180E-07	439990.9	3760465.0	193.6	3.66	2.33	2.89 YES
L0041121	0	0.68180E-07	439995.9	3760465.0	193.6	3.66	2.33	2.89 YES
L0041122	0	0.68180E-07	440000.9	3760465.0	193.6	3.66	2.33	2.89 YES
L0041123	0	0.68180E-07	440005.9	3760465.0	193.6	3.66	2.33	2.89 YES
L0041124	0	0.68180E-07	440010.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041125	0	0.68180E-07	440015.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041126	0	0.68180E-07	440020.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041127	0	0.68180E-07	440025.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041128	0	0.68180E-07	440030.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041129	0	0.68180E-07	440035.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041130	0	0.68180E-07	440040.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041131	0	0.68180E-07	440045.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041132	0	0.68180E-07	440050.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041133	0	0.68180E-07	440055.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041134	0	0.68180E-07	440060.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041135	0	0.68180E-07	440065.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041136	0	0.68180E-07	440070.9	3760465.1	193.6	3.66	2.33	2.89 YES
L0041137	0	0.68180E-07	440075.9	3760465.1	193.7	3.66	2.33	2.89 YES
L0041138	0	0.68180E-07	440080.9	3760465.1	193.7	3.66	2.33	2.89 YES
L0041139	0	0.68180E-07	440085.9	3760465.1	193.7	3.66	2.33	2.89 YES

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 L0041140         0   0.68180E-07  440090.9 3760465.1   193.7     3.66     2.33
2.89     YES
 L0041141         0   0.68180E-07  440095.9 3760465.2   193.7     3.66     2.33
2.89     YES
 L0041142         0   0.68180E-07  440100.9 3760465.2   193.7     3.66     2.33
2.89     YES
 L0041143         0   0.68180E-07  440105.9 3760465.2   193.7     3.66     2.33
2.89     YES
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0041144         0   0.68180E-07  440110.9 3760465.2   193.7     3.66     2.33
2.89     YES
 L0041145         0   0.68180E-07  440115.9 3760465.3   193.7     3.66     2.33
2.89     YES
 L0041146         0   0.68180E-07  440120.9 3760465.3   193.7     3.66     2.33
2.89     YES
 L0041147         0   0.68180E-07  440125.9 3760465.3   193.7     3.66     2.33
2.89     YES
 L0041148         0   0.68180E-07  440130.9 3760465.3   193.8     3.66     2.33
2.89     YES
 L0041149         0   0.68180E-07  440135.9 3760465.3   193.8     3.66     2.33
2.89     YES
 L0041150         0   0.68180E-07  440140.9 3760465.4   193.8     3.66     2.33
2.89     YES
 L0041151         0   0.68180E-07  440145.9 3760465.4   193.8     3.66     2.33
2.89     YES
 L0041152         0   0.68180E-07  440150.9 3760465.4   193.9     3.66     2.33
2.89     YES
 L0041153         0   0.68180E-07  440155.9 3760465.4   193.9     3.66     2.33
2.89     YES
```

L0041154	0	0.68180E-07	440160.9	3760465.5	193.9	3.66	2.33	2.89 YES
L0041155	0	0.68180E-07	440165.9	3760465.5	193.9	3.66	2.33	2.89 YES
L0041156	0	0.68180E-07	440170.9	3760465.5	194.0	3.66	2.33	2.89 YES
L0041157	0	0.68180E-07	440175.9	3760465.5	194.0	3.66	2.33	2.89 YES
L0041158	0	0.68180E-07	440180.9	3760465.6	194.0	3.66	2.33	2.89 YES
L0041159	0	0.68180E-07	440185.9	3760465.6	194.1	3.66	2.33	2.89 YES
L0041160	0	0.68180E-07	440190.9	3760465.6	194.1	3.66	2.33	2.89 YES
L0041161	0	0.68180E-07	440195.9	3760465.6	194.1	3.66	2.33	2.89 YES
L0041162	0	0.68180E-07	440200.9	3760465.7	194.1	3.66	2.33	2.89 YES
L0041163	0	0.68180E-07	440205.9	3760465.7	194.1	3.66	2.33	2.89 YES
L0041164	0	0.68180E-07	440210.9	3760465.7	194.2	3.66	2.33	2.89 YES
L0041165	0	0.68180E-07	440215.9	3760465.7	194.2	3.66	2.33	2.89 YES
L0041166	0	0.68180E-07	440220.9	3760465.8	194.2	3.66	2.33	2.89 YES
L0041167	0	0.68180E-07	440225.9	3760465.8	194.2	3.66	2.33	2.89 YES
L0041168	0	0.68180E-07	440230.9	3760465.8	194.2	3.66	2.33	2.89 YES
L0041169	0	0.68180E-07	440235.9	3760465.8	194.3	3.66	2.33	2.89 YES
L0041170	0	0.68180E-07	440240.9	3760465.9	194.3	3.66	2.33	2.89 YES
L0041171	0	0.68180E-07	440245.9	3760465.9	194.3	3.66	2.33	2.89 YES
L0041172	0	0.68180E-07	440250.9	3760465.9	194.4	3.66	2.33	2.89 YES
L0041173	0	0.68180E-07	440255.9	3760465.9	194.4	3.66	2.33	2.89 YES
L0041174	0	0.68180E-07	440260.9	3760466.0	194.4	3.66	2.33	2.89 YES
L0041175	0	0.68180E-07	440265.9	3760466.0	194.5	3.66	2.33	2.89 YES
L0041176	0	0.68180E-07	440270.9	3760466.0	194.5	3.66	2.33	2.89 YES
L0041177	0	0.68180E-07	440275.9	3760466.0	194.5	3.66	2.33	2.89 YES

 L0041178   0   0.68180E-07 440280.9 3760466.1   194.6   3.66   2.33
2.89   YES
 L0041179   0   0.68180E-07 440285.9 3760466.1   194.6   3.66   2.33
2.89   YES
 L0041180   0   0.68180E-07 440290.9 3760466.1   194.6   3.66   2.33
2.89   YES
 L0041181   0   0.68180E-07 440295.9 3760466.1   194.6   3.66   2.33
2.89   YES
 L0041182   0   0.68180E-07 440300.9 3760466.2   194.6   3.66   2.33
2.89   YES
 L0041183   0   0.68180E-07 440305.9 3760466.2   194.6   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** VOLUME SOURCE DATA ***

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

 L0041184   0   0.68180E-07 440310.9 3760466.2   194.7   3.66   2.33
2.89   YES
 L0041185   0   0.68180E-07 440315.9 3760466.2   194.7   3.66   2.33
2.89   YES
 L0041186   0   0.68180E-07 440320.9 3760466.3   194.7   3.66   2.33
2.89   YES
 L0041187   0   0.68180E-07 440325.9 3760466.3   194.7   3.66   2.33
2.89   YES
 L0041188   0   0.68180E-07 440330.9 3760466.3   194.7   3.66   2.33
2.89   YES
 L0041189   0   0.68180E-07 440335.9 3760466.3   194.8   3.66   2.33
2.89   YES
 L0041190   0   0.68180E-07 440340.9 3760466.3   194.8   3.66   2.33
2.89   YES
 L0041191   0   0.68180E-07 440345.9 3760466.4   194.8   3.66   2.33
2.89   YES

L0041192	0	0.68180E-07	440350.9	3760466.4	194.8	3.66	2.33	2.89 YES
L0041193	0	0.68180E-07	440355.9	3760466.4	194.8	3.66	2.33	2.89 YES
L0041194	0	0.68180E-07	440360.9	3760466.4	194.9	3.66	2.33	2.89 YES
L0041195	0	0.68180E-07	440365.9	3760466.5	194.9	3.66	2.33	2.89 YES
L0041196	0	0.68180E-07	440370.9	3760466.5	195.0	3.66	2.33	2.89 YES
L0041197	0	0.68180E-07	440375.9	3760466.5	195.1	3.66	2.33	2.89 YES
L0041198	0	0.68180E-07	440380.9	3760466.5	195.1	3.66	2.33	2.89 YES
L0041199	0	0.68180E-07	440385.9	3760466.6	195.2	3.66	2.33	2.89 YES
L0041200	0	0.68180E-07	440390.9	3760466.6	195.2	3.66	2.33	2.89 YES
L0041201	0	0.68180E-07	440395.9	3760466.6	195.2	3.66	2.33	2.89 YES
L0041202	0	0.68180E-07	440400.9	3760466.6	195.2	3.66	2.33	2.89 YES
L0041203	0	0.68180E-07	440405.9	3760466.7	195.3	3.66	2.33	2.89 YES
L0041204	0	0.68180E-07	440410.9	3760466.7	195.3	3.66	2.33	2.89 YES
L0041205	0	0.68180E-07	440415.9	3760466.7	195.2	3.66	2.33	2.89 YES
L0041206	0	0.68180E-07	440420.9	3760466.7	195.2	3.66	2.33	2.89 YES
L0041207	0	0.68180E-07	440425.9	3760466.8	195.2	3.66	2.33	2.89 YES
L0041208	0	0.68180E-07	440430.9	3760466.8	195.1	3.66	2.33	2.89 YES
L0041209	0	0.68180E-07	440435.9	3760466.8	195.1	3.66	2.33	2.89 YES
L0041210	0	0.68180E-07	440440.9	3760466.8	195.1	3.66	2.33	2.89 YES
L0041211	0	0.68180E-07	440445.9	3760466.8	195.1	3.66	2.33	2.89 YES
L0041212	0	0.68180E-07	440450.9	3760466.9	195.1	3.66	2.33	2.89 YES
L0041213	0	0.68180E-07	440455.9	3760466.9	195.1	3.66	2.33	2.89 YES
L0041214	0	0.68180E-07	440460.9	3760466.9	195.1	3.66	2.33	2.89 YES
L0041215	0	0.68180E-07	440465.9	3760466.9	195.1	3.66	2.33	2.89 YES

```
 L0041216         0   0.68180E-07  440470.9 3760467.0   195.1     3.66     2.33
2.89     YES
 L0041217         0   0.68180E-07  440475.9 3760467.0   195.2     3.66     2.33
2.89     YES
 L0041218         0   0.68180E-07  440480.9 3760467.0   195.2     3.66     2.33
2.89     YES
 L0041219         0   0.68180E-07  440485.9 3760467.0   195.2     3.66     2.33
2.89     YES
 L0041220         0   0.68180E-07  440490.9 3760467.1   195.2     3.66     2.33
2.89     YES
 L0041221         0   0.68180E-07  440495.9 3760467.1   195.2     3.66     2.33
2.89     YES
 L0041222         0   0.68180E-07  440500.9 3760467.1   195.2     3.66     2.33
2.89     YES
 L0041223         0   0.68180E-07  440505.9 3760467.1   195.2     3.66     2.33
2.89     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0041224	0	0.68180E-07	440510.9	3760467.1	195.2	3.66	2.33	2.89	YES	
L0041225	0	0.68180E-07	440515.9	3760467.1	195.2	3.66	2.33	2.89	YES	
L0041226	0	0.68180E-07	440520.9	3760467.1	195.3	3.66	2.33	2.89	YES	
L0041227	0	0.68180E-07	440525.9	3760467.1	195.3	3.66	2.33	2.89	YES	
L0041228	0	0.68180E-07	440530.9	3760467.1	195.3	3.66	2.33	2.89	YES	
L0041229	0	0.68180E-07	440535.9	3760467.1	195.3	3.66	2.33	2.89	YES	

L0041230	0	0.68180E-07	440540.9	3760467.1	195.3	3.66	2.33	2.89 YES
L0041231	0	0.68180E-07	440545.9	3760467.1	195.3	3.66	2.33	2.89 YES
L0041232	0	0.68180E-07	440550.9	3760467.1	195.4	3.66	2.33	2.89 YES
L0041233	0	0.68180E-07	440555.9	3760467.1	195.4	3.66	2.33	2.89 YES
L0041234	0	0.68180E-07	440560.9	3760467.1	195.4	3.66	2.33	2.89 YES
L0041235	0	0.68180E-07	440565.9	3760467.1	195.4	3.66	2.33	2.89 YES
L0041236	0	0.68180E-07	440570.9	3760467.1	195.4	3.66	2.33	2.89 YES
L0041237	0	0.68180E-07	440575.9	3760467.1	195.4	3.66	2.33	2.89 YES
L0041238	0	0.68180E-07	440580.9	3760467.1	195.5	3.66	2.33	2.89 YES
L0041239	0	0.68180E-07	440585.9	3760467.1	195.5	3.66	2.33	2.89 YES
L0041240	0	0.68180E-07	440590.9	3760467.1	195.5	3.66	2.33	2.89 YES
L0041241	0	0.68180E-07	440595.9	3760467.1	195.5	3.66	2.33	2.89 YES
L0041242	0	0.68180E-07	440600.9	3760467.1	195.5	3.66	2.33	2.89 YES
L0041243	0	0.68180E-07	440605.9	3760467.1	195.5	3.66	2.33	2.89 YES
L0041244	0	0.68180E-07	440610.9	3760467.1	195.6	3.66	2.33	2.89 YES
L0041245	0	0.68180E-07	440615.9	3760467.1	195.6	3.66	2.33	2.89 YES
L0041246	0	0.68180E-07	440620.9	3760467.1	195.6	3.66	2.33	2.89 YES
L0041247	0	0.68180E-07	440625.9	3760467.1	195.6	3.66	2.33	2.89 YES
L0041248	0	0.68180E-07	440630.9	3760467.1	195.6	3.66	2.33	2.89 YES
L0041249	0	0.68180E-07	440635.9	3760467.1	195.6	3.66	2.33	2.89 YES
L0041250	0	0.68180E-07	440640.9	3760467.1	195.6	3.66	2.33	2.89 YES
L0041251	0	0.68180E-07	440645.9	3760467.1	195.7	3.66	2.33	2.89 YES
L0041252	0	0.68180E-07	440650.9	3760467.1	195.7	3.66	2.33	2.89 YES
L0041253	0	0.68180E-07	440655.9	3760467.1	195.7	3.66	2.33	2.89 YES

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 L0041254         0   0.68180E-07  440660.9 3760467.1   195.7     3.66     2.33
2.89     YES
 L0041255         0   0.68180E-07  440665.9 3760467.1   195.7     3.66     2.33
2.89     YES
 L0041256         0   0.68180E-07  440670.9 3760467.1   195.8     3.66     2.33
2.89     YES
 L0041257         0   0.68180E-07  440675.9 3760467.1   195.8     3.66     2.33
2.89     YES
 L0041258         0   0.68180E-07  440680.9 3760467.1   195.8     3.66     2.33
2.89     YES
 L0041259         0   0.68180E-07  440685.9 3760467.1   195.8     3.66     2.33
2.89     YES
 L0041260         0   0.68180E-07  440690.9 3760467.1   195.9     3.66     2.33
2.89     YES
 L0041261         0   0.68180E-07  440695.9 3760467.1   195.9     3.66     2.33
2.89     YES
 L0041262         0   0.68180E-07  440700.9 3760467.1   195.9     3.66     2.33
2.89     YES
 L0041263         0   0.68180E-07  440705.9 3760467.1   195.9     3.66     2.33
2.89     YES
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0041264         0   0.68180E-07  440710.9 3760467.1   196.0     3.66     2.33
2.89     YES
 L0041265         0   0.68180E-07  440715.9 3760467.1   196.0     3.66     2.33
2.89     YES
 L0041266         0   0.68180E-07  440720.9 3760467.1   196.0     3.66     2.33
2.89     YES
 L0041267         0   0.68180E-07  440725.9 3760467.1   196.1     3.66     2.33
2.89     YES
```

L0041268	0	0.68180E-07	440730.9	3760467.1	196.1	3.66	2.33	2.89 YES
L0041269	0	0.68180E-07	440735.9	3760467.1	196.1	3.66	2.33	2.89 YES
L0041270	0	0.68180E-07	440740.9	3760467.1	196.2	3.66	2.33	2.89 YES
L0041271	0	0.68180E-07	440745.9	3760467.1	196.2	3.66	2.33	2.89 YES
L0041272	0	0.68180E-07	440750.9	3760467.1	196.3	3.66	2.33	2.89 YES
L0041273	0	0.68180E-07	440755.9	3760467.1	196.4	3.66	2.33	2.89 YES
L0041274	0	0.68180E-07	440760.9	3760467.1	196.5	3.66	2.33	2.89 YES
L0041275	0	0.68180E-07	440765.9	3760467.1	196.5	3.66	2.33	2.89 YES
L0041276	0	0.68180E-07	440770.9	3760467.1	196.6	3.66	2.33	2.89 YES
L0041277	0	0.68180E-07	440775.9	3760467.1	196.6	3.66	2.33	2.89 YES
L0041278	0	0.68070E-07	441996.7	3760466.5	199.9	3.66	2.33	2.89 YES
L0041279	0	0.68070E-07	442001.7	3760466.5	199.8	3.66	2.33	2.89 YES
L0041280	0	0.68070E-07	442006.7	3760466.6	199.9	3.66	2.33	2.89 YES
L0041281	0	0.68070E-07	442011.7	3760466.6	200.0	3.66	2.33	2.89 YES
L0041282	0	0.68070E-07	442016.7	3760466.6	200.1	3.66	2.33	2.89 YES
L0041283	0	0.68070E-07	442021.7	3760466.6	200.2	3.66	2.33	2.89 YES
L0041284	0	0.68070E-07	442026.7	3760466.6	200.3	3.66	2.33	2.89 YES
L0041285	0	0.68070E-07	442031.7	3760466.6	200.3	3.66	2.33	2.89 YES
L0041286	0	0.68070E-07	442036.7	3760466.6	200.3	3.66	2.33	2.89 YES
L0041287	0	0.68070E-07	442041.7	3760466.6	200.3	3.66	2.33	2.89 YES
L0041288	0	0.68070E-07	442046.7	3760466.7	200.3	3.66	2.33	2.89 YES
L0041289	0	0.68070E-07	442051.7	3760466.7	200.4	3.66	2.33	2.89 YES
L0041290	0	0.68070E-07	442056.7	3760466.7	200.4	3.66	2.33	2.89 YES
L0041291	0	0.68070E-07	442061.7	3760466.7	200.4	3.66	2.33	2.89 YES

```
 L0041292         0   0.68070E-07  442066.7 3760466.7   200.4     3.66     2.33
2.89     YES
 L0041293         0   0.68070E-07  442071.7 3760466.7   200.4     3.66     2.33
2.89     YES
 L0041294         0   0.68070E-07  442076.7 3760466.7   200.4     3.66     2.33
2.89     YES
 L0041295         0   0.68070E-07  442081.7 3760466.7   200.4     3.66     2.33
2.89     YES
 L0041296         0   0.68070E-07  442086.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0041297         0   0.68070E-07  442091.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0041298         0   0.68070E-07  442096.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0041299         0   0.68070E-07  442101.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0041300         0   0.68070E-07  442106.7 3760466.8   200.4     3.66     2.33
2.89     YES
 L0041301         0   0.68070E-07  442111.7 3760466.8   200.3     3.66     2.33
2.89     YES
 L0041302         0   0.68070E-07  442116.7 3760466.8   200.3     3.66     2.33
2.89     YES
 L0041303         0   0.68070E-07  442121.7 3760466.8   200.3     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

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

 L0041304         0   0.68070E-07  442126.7 3760466.9   200.3     3.66     2.33
2.89     YES
 L0041305         0   0.68070E-07  442131.7 3760466.9   200.3     3.66     2.33
2.89     YES
```

L0041306	0	0.68070E-07	442136.7	3760466.9	200.3	3.66	2.33	2.89 YES
L0041307	0	0.68070E-07	442141.7	3760466.9	200.3	3.66	2.33	2.89 YES
L0041308	0	0.68070E-07	442146.7	3760466.9	200.3	3.66	2.33	2.89 YES
L0041309	0	0.68070E-07	442151.7	3760466.9	200.4	3.66	2.33	2.89 YES
L0041310	0	0.68070E-07	442156.7	3760466.9	200.4	3.66	2.33	2.89 YES
L0041311	0	0.68070E-07	442161.7	3760466.9	200.4	3.66	2.33	2.89 YES
L0041312	0	0.68070E-07	442166.7	3760467.0	200.4	3.66	2.33	2.89 YES
L0041313	0	0.68070E-07	442171.7	3760467.0	200.4	3.66	2.33	2.89 YES
L0041314	0	0.68070E-07	442176.7	3760467.0	200.4	3.66	2.33	2.89 YES
L0041315	0	0.68070E-07	442181.7	3760467.0	200.4	3.66	2.33	2.89 YES
L0041316	0	0.68070E-07	442186.7	3760467.0	200.4	3.66	2.33	2.89 YES
L0041317	0	0.68070E-07	442191.7	3760467.0	200.4	3.66	2.33	2.89 YES
L0041318	0	0.68070E-07	442196.7	3760467.0	200.4	3.66	2.33	2.89 YES
L0041319	0	0.68070E-07	442201.7	3760467.0	200.4	3.66	2.33	2.89 YES
L0041320	0	0.68070E-07	442206.7	3760467.1	200.4	3.66	2.33	2.89 YES
L0041321	0	0.68070E-07	442211.7	3760467.1	200.4	3.66	2.33	2.89 YES
L0041322	0	0.68070E-07	442216.7	3760467.1	200.4	3.66	2.33	2.89 YES
L0041323	0	0.68070E-07	442221.7	3760467.1	200.4	3.66	2.33	2.89 YES
L0041324	0	0.68070E-07	442226.7	3760467.1	200.4	3.66	2.33	2.89 YES
L0041325	0	0.68070E-07	442231.7	3760467.1	200.4	3.66	2.33	2.89 YES
L0041326	0	0.68070E-07	442236.7	3760467.1	200.5	3.66	2.33	2.89 YES
L0041327	0	0.68070E-07	442241.7	3760467.1	200.5	3.66	2.33	2.89 YES
L0041328	0	0.68070E-07	442246.7	3760467.2	200.5	3.66	2.33	2.89 YES
L0041329	0	0.68070E-07	442251.7	3760467.2	200.5	3.66	2.33	2.89 YES

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 L0041330         0   0.68070E-07  442256.7 3760467.2   200.5     3.66     2.33
2.89     YES
 L0041331         0   0.68070E-07  442261.7 3760467.2   200.6     3.66     2.33
2.89     YES
 L0041332         0   0.68070E-07  442266.7 3760467.2   200.6     3.66     2.33
2.89     YES
 L0041333         0   0.68070E-07  442271.7 3760467.2   200.6     3.66     2.33
2.89     YES
 L0041334         0   0.68070E-07  442276.7 3760467.2   200.6     3.66     2.33
2.89     YES
 L0041335         0   0.68070E-07  442281.7 3760467.2   200.6     3.66     2.33
2.89     YES
 L0041336         0   0.68070E-07  442286.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0041337         0   0.68070E-07  442291.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0041338         0   0.68070E-07  442296.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0041339         0   0.68070E-07  442301.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0041340         0   0.68070E-07  442306.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0041341         0   0.68070E-07  442311.7 3760467.3   200.7     3.66     2.33
2.89     YES
 L0041342         0   0.68070E-07  442316.7 3760467.3   200.8     3.66     2.33
2.89     YES
 L0041343         0   0.68070E-07  442321.7 3760467.3   200.8     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
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L0041344	0	0.68070E-07	442326.7	3760467.4	200.8	3.66	2.33	2.89 YES
L0041345	0	0.68070E-07	442331.7	3760467.4	200.9	3.66	2.33	2.89 YES
L0041346	0	0.68070E-07	442336.7	3760467.4	200.9	3.66	2.33	2.89 YES
L0041347	0	0.68070E-07	442341.7	3760467.4	200.9	3.66	2.33	2.89 YES
L0041348	0	0.68070E-07	442346.7	3760467.5	200.9	3.66	2.33	2.89 YES
L0041349	0	0.68070E-07	442351.7	3760467.6	201.0	3.66	2.33	2.89 YES
L0041350	0	0.68070E-07	442356.7	3760467.7	201.0	3.66	2.33	2.89 YES
L0041351	0	0.68070E-07	442361.7	3760467.7	201.0	3.66	2.33	2.89 YES
L0041352	0	0.68070E-07	442366.7	3760467.8	201.0	3.66	2.33	2.89 YES
L0041353	0	0.68070E-07	442371.7	3760467.9	201.0	3.66	2.33	2.89 YES
L0041354	0	0.68070E-07	442376.7	3760468.0	201.0	3.66	2.33	2.89 YES
L0041355	0	0.68070E-07	442381.7	3760468.1	201.0	3.66	2.33	2.89 YES
L0041356	0	0.68070E-07	442386.7	3760468.1	201.0	3.66	2.33	2.89 YES
L0041357	0	0.68070E-07	442391.7	3760468.2	201.0	3.66	2.33	2.89 YES
L0041358	0	0.68070E-07	442396.7	3760468.3	201.0	3.66	2.33	2.89 YES
L0041359	0	0.68070E-07	442401.7	3760468.4	201.1	3.66	2.33	2.89 YES
L0041360	0	0.68070E-07	442406.7	3760468.4	201.1	3.66	2.33	2.89 YES
L0041361	0	0.68070E-07	442411.7	3760468.5	201.1	3.66	2.33	2.89 YES
L0041362	0	0.68070E-07	442416.7	3760468.6	201.1	3.66	2.33	2.89 YES
L0041363	0	0.68070E-07	442421.7	3760468.7	201.1	3.66	2.33	2.89 YES
L0041364	0	0.68070E-07	442426.7	3760468.7	201.2	3.66	2.33	2.89 YES
L0041365	0	0.68070E-07	442431.7	3760468.8	201.2	3.66	2.33	2.89 YES
L0041366	0	0.68070E-07	442436.7	3760468.9	201.2	3.66	2.33	2.89 YES
L0041367	0	0.68070E-07	442441.7	3760469.0	201.2	3.66	2.33	2.89 YES

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 L0041368         0   0.68070E-07  442446.7 3760469.0   201.2     3.66     2.33
2.89     YES
 L0041369         0   0.68070E-07  442451.7 3760469.1   201.2     3.66     2.33
2.89     YES
 L0041370         0   0.68070E-07  442456.7 3760469.2   201.2     3.66     2.33
2.89     YES
 L0041371         0   0.68070E-07  442461.7 3760469.3   201.2     3.66     2.33
2.89     YES
 L0041372         0   0.68070E-07  442466.7 3760469.3   201.2     3.66     2.33
2.89     YES
 L0041373         0   0.68070E-07  442471.7 3760469.4   201.2     3.66     2.33
2.89     YES
 L0041374         0   0.68070E-07  442476.7 3760469.5   201.2     3.66     2.33
2.89     YES
 L0041375         0   0.68070E-07  442481.7 3760469.6   201.1     3.66     2.33
2.89     YES
 L0041376         0   0.68070E-07  442486.7 3760469.6   201.1     3.66     2.33
2.89     YES
 L0041377         0   0.68070E-07  442491.7 3760469.7   201.1     3.66     2.33
2.89     YES
 L0041378         0   0.68070E-07  442496.7 3760469.8   201.1     3.66     2.33
2.89     YES
 L0041379         0   0.68070E-07  442501.7 3760469.9   201.1     3.66     2.33
2.89     YES
 L0041380         0   0.68070E-07  442506.7 3760469.9   201.1     3.66     2.33
2.89     YES
 L0041381         0   0.68070E-07  442511.7 3760469.8   201.1     3.66     2.33
2.89     YES
 L0041382         0   0.68070E-07  442516.7 3760469.8   201.1     3.66     2.33
2.89     YES
 L0041383         0   0.68070E-07  442521.7 3760469.7   201.1     3.66     2.33
2.89     YES
↟ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
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(METERS) BY

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L0041406	0	0.68070E-07	442636.7	3760468.6	200.9	3.66	2.33	2.89 YES
L0041407	0	0.68070E-07	442641.7	3760468.5	200.9	3.66	2.33	2.89 YES
L0041408	0	0.68070E-07	442646.7	3760468.5	200.9	3.66	2.33	2.89 YES
L0041409	0	0.68070E-07	442651.7	3760468.4	200.9	3.66	2.33	2.89 YES
L0041410	0	0.68070E-07	442656.7	3760468.4	200.9	3.66	2.33	2.89 YES
L0041411	0	0.68070E-07	442661.7	3760468.3	200.9	3.66	2.33	2.89 YES
L0041412	0	0.68070E-07	442666.7	3760468.3	200.9	3.66	2.33	2.89 YES
L0041413	0	0.68070E-07	442671.7	3760468.2	200.9	3.66	2.33	2.89 YES
L0041414	0	0.68070E-07	442676.7	3760468.2	200.8	3.66	2.33	2.89 YES
L0041415	0	0.68070E-07	442681.7	3760468.1	200.8	3.66	2.33	2.89 YES
L0041416	0	0.68070E-07	442686.7	3760468.1	200.8	3.66	2.33	2.89 YES
L0041417	0	0.68070E-07	442691.7	3760468.0	200.8	3.66	2.33	2.89 YES
L0041418	0	0.68070E-07	442696.7	3760468.0	200.8	3.66	2.33	2.89 YES
L0041419	0	0.68070E-07	442701.7	3760467.9	200.8	3.66	2.33	2.89 YES
L0041420	0	0.68070E-07	442706.7	3760467.9	200.8	3.66	2.33	2.89 YES
L0041421	0	0.68070E-07	442711.7	3760467.8	200.8	3.66	2.33	2.89 YES
L0041422	0	0.68070E-07	442716.7	3760467.8	200.8	3.66	2.33	2.89 YES
L0041423	0	0.68070E-07	442721.7	3760467.7	200.8	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT.

SOURCE ID	URBAN PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE VARY BY
L0041424	0	0.68070E-07	442726.7	3760467.7	200.9	3.66	2.33	2.89	YES
L0041425	0	0.68070E-07	442731.7	3760467.6	200.9	3.66	2.33	2.89	YES
L0041426	0	0.68070E-07	442736.7	3760467.6	200.9	3.66	2.33	2.89	YES
L0041427	0	0.68070E-07	442741.7	3760467.5	200.9	3.66	2.33	2.89	YES
L0041428	0	0.68070E-07	442746.7	3760467.5	200.9	3.66	2.33	2.89	YES
L0041429	0	0.68070E-07	442751.7	3760467.4	200.9	3.66	2.33	2.89	YES
L0041430	0	0.68070E-07	442756.7	3760467.4	200.9	3.66	2.33	2.89	YES
L0041431	0	0.68070E-07	442761.7	3760467.3	200.9	3.66	2.33	2.89	YES
L0041432	0	0.68070E-07	442766.7	3760467.3	200.8	3.66	2.33	2.89	YES
L0041433	0	0.68070E-07	442771.7	3760467.2	200.8	3.66	2.33	2.89	YES
L0041434	0	0.68070E-07	442776.7	3760467.2	200.8	3.66	2.33	2.89	YES
L0041435	0	0.68070E-07	442781.7	3760467.1	200.8	3.66	2.33	2.89	YES
L0041436	0	0.68070E-07	442786.7	3760467.1	200.8	3.66	2.33	2.89	YES
L0041437	0	0.68070E-07	442791.7	3760467.0	200.8	3.66	2.33	2.89	YES
L0041438	0	0.68070E-07	442796.7	3760467.0	200.8	3.66	2.33	2.89	YES
L0041439	0	0.68070E-07	442801.7	3760466.9	200.8	3.66	2.33	2.89	YES
L0041440	0	0.68070E-07	442806.7	3760466.9	200.8	3.66	2.33	2.89	YES
L0041441	0	0.68070E-07	442811.7	3760466.8	200.8	3.66	2.33	2.89	YES
L0041442	0	0.68070E-07	442816.7	3760466.8	200.8	3.66	2.33	2.89	YES
L0041443	0	0.68070E-07	442821.7	3760466.7	200.8	3.66	2.33	2.89	YES

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 L0041444         0   0.68070E-07  442826.7 3760466.7   200.8     3.66     2.33
2.89     YES
 L0041445         0   0.68070E-07  442831.7 3760466.6   200.8     3.66     2.33
2.89     YES
 L0041446         0   0.68070E-07  442836.7 3760466.6   200.9     3.66     2.33
2.89     YES
 L0041447         0   0.68070E-07  442841.7 3760466.5   200.9     3.66     2.33
2.89     YES
 L0041448         0   0.68070E-07  442846.7 3760466.5   200.9     3.66     2.33
2.89     YES
 L0041449         0   0.68070E-07  442851.7 3760466.4   200.9     3.66     2.33
2.89     YES
 L0041450         0   0.68070E-07  442856.7 3760466.4   201.0     3.66     2.33
2.89     YES
 L0041451         0   0.68070E-07  442861.7 3760466.4   201.0     3.66     2.33
2.89     YES
 L0041452         0   0.68070E-07  442866.7 3760466.4   201.0     3.66     2.33
2.89     YES
 L0041453         0   0.68070E-07  442871.7 3760466.3   201.0     3.66     2.33
2.89     YES
 L0041454         0   0.68070E-07  442876.7 3760466.3   201.1     3.66     2.33
2.89     YES
 L0041455         0   0.68070E-07  442881.7 3760466.3   201.1     3.66     2.33
2.89     YES
 L0041456         0   0.68070E-07  442886.7 3760466.3   201.1     3.66     2.33
2.89     YES
 L0041457         0   0.68070E-07  442891.7 3760466.3   201.1     3.66     2.33
2.89     YES
 L0041458         0   0.68070E-07  442896.7 3760466.3   201.1     3.66     2.33
2.89     YES
 L0041459         0   0.68070E-07  442901.7 3760466.2   201.1     3.66     2.33
2.89     YES
 L0041460         0   0.68070E-07  442906.7 3760466.2   201.1     3.66     2.33
2.89     YES
 L0041461         0   0.68070E-07  442911.7 3760466.2   201.2     3.66     2.33
2.89     YES
 L0041462         0   0.68070E-07  442916.7 3760466.2   201.2     3.66     2.33
2.89     YES
 L0041463         0   0.68070E-07  442921.7 3760466.2   201.2     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0041464	0	0.68070E-07	442926.7	3760466.1	201.2	3.66	2.33	2.89	YES
L0041465	0	0.68070E-07	442931.7	3760466.1	201.2	3.66	2.33	2.89	YES
L0041466	0	0.68070E-07	442936.7	3760466.1	201.3	3.66	2.33	2.89	YES
L0041467	0	0.68070E-07	442941.7	3760466.1	201.3	3.66	2.33	2.89	YES
L0041468	0	0.68070E-07	442946.7	3760466.1	201.3	3.66	2.33	2.89	YES
L0041469	0	0.68070E-07	442951.7	3760466.1	201.3	3.66	2.33	2.89	YES
L0041470	0	0.68070E-07	442956.7	3760466.0	201.4	3.66	2.33	2.89	YES
L0041471	0	0.68070E-07	442961.7	3760466.0	201.4	3.66	2.33	2.89	YES
L0041472	0	0.68070E-07	442966.7	3760466.0	201.4	3.66	2.33	2.89	YES
L0041473	0	0.68070E-07	442971.7	3760466.0	201.4	3.66	2.33	2.89	YES
L0041474	0	0.68070E-07	442976.7	3760466.0	201.4	3.66	2.33	2.89	YES
L0041475	0	0.68070E-07	442981.7	3760466.0	201.5	3.66	2.33	2.89	YES
L0041476	0	0.68070E-07	442986.7	3760466.0	201.6	3.66	2.33	2.89	YES
L0041477	0	0.68070E-07	442991.7	3760466.0	201.6	3.66	2.33	2.89	YES
L0041478	0	0.68070E-07	442996.7	3760466.0	201.7	3.66	2.33	2.89	YES
L0041479	0	0.68070E-07	443001.7	3760466.0	201.8	3.66	2.33	2.89	YES
L0041480	0	0.68070E-07	443006.7	3760466.0	201.8	3.66	2.33	2.89	YES
L0041481	0	0.68070E-07	443011.7	3760466.0	201.8	3.66	2.33	2.89	YES

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 L0041482         0   0.68070E-07  443016.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0041483         0   0.68070E-07  443021.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0041484         0   0.68070E-07  443026.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0041485         0   0.68070E-07  443031.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0041486         0   0.68070E-07  443036.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0041487         0   0.68070E-07  443041.7 3760466.0   201.8     3.66     2.33
2.89     YES
 L0041488         0   0.68070E-07  443046.7 3760466.0   201.7     3.66     2.33
2.89     YES
 L0041489         0   0.68070E-07  443051.7 3760466.0   201.7     3.66     2.33
2.89     YES
 L0041490         0   0.68070E-07  443056.7 3760466.1   201.7     3.66     2.33
2.89     YES
 L0041491         0   0.68070E-07  443061.7 3760466.1   201.7     3.66     2.33
2.89     YES
 L0041492         0   0.68070E-07  443066.7 3760466.1   201.7     3.66     2.33
2.89     YES
 L0041493         0   0.68070E-07  443071.7 3760466.1   201.8     3.66     2.33
2.89     YES
 L0041494         0   0.68070E-07  443076.7 3760466.1   201.8     3.66     2.33
2.89     YES
 L0041495         0   0.68070E-07  443081.7 3760466.1   201.8     3.66     2.33
2.89     YES
 L0041496         0   0.68070E-07  443086.7 3760466.1   201.8     3.66     2.33
2.89     YES
 L0041497         0   0.68070E-07  443091.7 3760466.1   201.8     3.66     2.33
2.89     YES
 L0041498         0   0.68070E-07  443096.7 3760466.1   201.8     3.66     2.33
2.89     YES
 L0041499         0   0.68070E-07  443101.7 3760466.1   201.8     3.66     2.33
2.89     YES
 L0041500         0   0.68070E-07  443106.7 3760466.1   201.8     3.66     2.33
2.89     YES
 L0041501         0   0.68070E-07  443111.7 3760466.1   201.8     3.66     2.33
2.89     YES
 L0041502         0   0.68070E-07  443116.7 3760466.1   201.9     3.66     2.33
2.89     YES
 L0041503         0   0.68070E-07  443121.7 3760466.2   201.9     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0041504	0	0.68070E-07	443126.7	3760466.2	201.9	3.66	2.33	2.89	YES	
L0041505	0	0.68070E-07	443131.7	3760466.2	201.9	3.66	2.33	2.89	YES	
L0041506	0	0.68070E-07	443136.7	3760466.2	201.9	3.66	2.33	2.89	YES	
L0041507	0	0.68070E-07	443141.7	3760466.2	202.0	3.66	2.33	2.89	YES	
L0041508	0	0.68070E-07	443146.7	3760466.2	202.0	3.66	2.33	2.89	YES	
L0041509	0	0.68070E-07	443151.7	3760466.2	202.0	3.66	2.33	2.89	YES	
L0041510	0	0.68070E-07	443156.7	3760466.2	202.0	3.66	2.33	2.89	YES	
L0041511	0	0.68070E-07	443161.7	3760466.2	202.1	3.66	2.33	2.89	YES	
L0041512	0	0.68070E-07	443166.7	3760466.2	202.1	3.66	2.33	2.89	YES	
L0041513	0	0.68070E-07	443171.7	3760466.2	202.2	3.66	2.33	2.89	YES	
L0041514	0	0.68070E-07	443176.7	3760466.2	202.2	3.66	2.33	2.89	YES	
L0041515	0	0.68070E-07	443181.7	3760466.2	202.3	3.66	2.33	2.89	YES	
L0041516	0	0.68070E-07	443186.7	3760466.2	202.3	3.66	2.33	2.89	YES	
L0041517	0	0.68070E-07	443191.7	3760466.3	202.4	3.66	2.33	2.89	YES	
L0041518	0	0.68070E-07	443196.7	3760466.3	202.5	3.66	2.33	2.89	YES	
L0041519	0	0.68070E-07	443201.7	3760466.3	202.6	3.66	2.33	2.89	YES	

L0041520	0	0.68070E-07	443206.7	3760466.3	202.7	3.66	2.33	2.89 YES
L0041521	0	0.68070E-07	443211.7	3760466.3	202.7	3.66	2.33	2.89 YES
L0041522	0	0.68070E-07	443216.7	3760466.3	202.7	3.66	2.33	2.89 YES
L0041523	0	0.68070E-07	443221.7	3760466.3	202.7	3.66	2.33	2.89 YES
L0041524	0	0.68070E-07	443226.7	3760466.3	202.8	3.66	2.33	2.89 YES
L0041525	0	0.68070E-07	443231.7	3760466.3	202.8	3.66	2.33	2.89 YES
L0041526	0	0.68070E-07	443236.7	3760466.3	202.8	3.66	2.33	2.89 YES
L0041527	0	0.68070E-07	443241.7	3760466.3	202.8	3.66	2.33	2.89 YES
L0041528	0	0.68070E-07	443246.7	3760466.3	202.8	3.66	2.33	2.89 YES
L0041529	0	0.68070E-07	443251.7	3760466.3	202.8	3.66	2.33	2.89 YES
L0041530	0	0.68070E-07	443256.7	3760466.3	202.8	3.66	2.33	2.89 YES
L0041531	0	0.68070E-07	443261.7	3760466.4	202.8	3.66	2.33	2.89 YES
L0041532	0	0.68070E-07	443266.7	3760466.4	202.8	3.66	2.33	2.89 YES
L0041533	0	0.68070E-07	443271.7	3760466.4	202.8	3.66	2.33	2.89 YES
L0041534	0	0.68070E-07	443276.7	3760466.4	202.8	3.66	2.33	2.89 YES
L0041535	0	0.68070E-07	443281.7	3760466.4	202.8	3.66	2.33	2.89 YES
L0041536	0	0.68070E-07	443286.7	3760466.4	202.8	3.66	2.33	2.89 YES
L0041537	0	0.68070E-07	443291.7	3760466.4	202.9	3.66	2.33	2.89 YES
L0041538	0	0.68070E-07	443296.7	3760466.4	202.9	3.66	2.33	2.89 YES
L0041539	0	0.68070E-07	443301.7	3760466.4	202.9	3.66	2.33	2.89 YES
L0041540	0	0.68070E-07	443306.7	3760466.4	202.9	3.66	2.33	2.89 YES
L0041541	0	0.68070E-07	443311.7	3760466.4	202.9	3.66	2.33	2.89 YES
L0041542	0	0.68070E-07	443316.7	3760466.4	202.9	3.66	2.33	2.89 YES
L0041543	0	0.68070E-07	443321.7	3760466.4	202.9	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0041544	0	0.68070E-07	443326.7	3760466.3	203.0	3.66	2.33	2.89	YES	
L0041545	0	0.68070E-07	443331.7	3760466.3	203.0	3.66	2.33	2.89	YES	
L0041546	0	0.68070E-07	443336.7	3760466.3	203.0	3.66	2.33	2.89	YES	
L0041547	0	0.68070E-07	443341.7	3760466.3	203.0	3.66	2.33	2.89	YES	
L0041548	0	0.68070E-07	443346.7	3760466.3	203.0	3.66	2.33	2.89	YES	
L0041549	0	0.68070E-07	443351.7	3760466.3	203.0	3.66	2.33	2.89	YES	
L0041550	0	0.68070E-07	443356.7	3760466.3	203.1	3.66	2.33	2.89	YES	
L0041551	0	0.68070E-07	443361.7	3760466.3	203.1	3.66	2.33	2.89	YES	
L0041552	0	0.68070E-07	443366.7	3760466.3	203.1	3.66	2.33	2.89	YES	
L0041553	0	0.68070E-07	443371.7	3760466.3	203.1	3.66	2.33	2.89	YES	
L0041554	0	0.68070E-07	443376.7	3760466.3	203.1	3.66	2.33	2.89	YES	
L0041555	0	0.68070E-07	443381.7	3760466.3	203.1	3.66	2.33	2.89	YES	
L0041556	0	0.68070E-07	443386.7	3760466.3	203.2	3.66	2.33	2.89	YES	
L0041557	0	0.68070E-07	443391.7	3760466.3	203.2	3.66	2.33	2.89	YES	

L0041558	0	0.68070E-07	443396.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041559	0	0.68070E-07	443401.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041560	0	0.68070E-07	443406.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041561	0	0.68070E-07	443411.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041562	0	0.68070E-07	443416.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041563	0	0.68070E-07	443421.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041564	0	0.68070E-07	443426.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041565	0	0.68070E-07	443431.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041566	0	0.68070E-07	443436.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041567	0	0.68070E-07	443441.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041568	0	0.68070E-07	443446.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041569	0	0.68070E-07	443451.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041570	0	0.68070E-07	443456.7	3760466.2	203.2	3.66	2.33	2.89 YES
L0041571	0	0.68070E-07	443461.7	3760466.1	203.2	3.66	2.33	2.89 YES
L0041572	0	0.68070E-07	443466.7	3760466.1	203.2	3.66	2.33	2.89 YES
L0041573	0	0.68070E-07	443471.7	3760466.1	203.2	3.66	2.33	2.89 YES
L0041574	0	0.68070E-07	443476.7	3760466.1	203.3	3.66	2.33	2.89 YES
L0041575	0	0.68070E-07	443481.7	3760466.1	203.3	3.66	2.33	2.89 YES
L0041576	0	0.68070E-07	443486.7	3760466.1	203.3	3.66	2.33	2.89 YES
L0041577	0	0.68070E-07	443491.7	3760466.1	203.3	3.66	2.33	2.89 YES
L0041578	0	0.68070E-07	443496.7	3760466.1	203.3	3.66	2.33	2.89 YES
L0041579	0	0.68070E-07	443501.7	3760466.1	203.3	3.66	2.33	2.89 YES
L0041580	0	0.68070E-07	443506.7	3760466.1	203.3	3.66	2.33	2.89 YES
L0041581	0	0.68070E-07	443511.7	3760466.1	203.3	3.66	2.33	2.89 YES

 L0041582   0   0.68070E-07 443516.7 3760466.1   203.3   3.66   2.33
2.89   YES
 L0041583   0   0.68070E-07 443521.7 3760466.1   203.2   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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L0041596	0	0.68070E-07	443586.7	3760466.0	203.3	3.66	2.33	2.89 YES
L0041597	0	0.68070E-07	443591.7	3760465.9	203.3	3.66	2.33	2.89 YES
L0041598	0	0.68070E-07	443596.7	3760465.9	203.3	3.66	2.33	2.89 YES
L0041599	0	0.68070E-07	443601.7	3760465.9	203.3	3.66	2.33	2.89 YES
L0041600	0	0.68070E-07	443606.7	3760465.9	203.3	3.66	2.33	2.89 YES
L0041601	0	0.68070E-07	443611.7	3760465.9	203.3	3.66	2.33	2.89 YES
L0041602	0	0.68070E-07	443616.7	3760465.9	203.4	3.66	2.33	2.89 YES
L0041603	0	0.68070E-07	443621.7	3760465.9	203.4	3.66	2.33	2.89 YES
L0041604	0	0.68070E-07	443626.7	3760465.9	203.4	3.66	2.33	2.89 YES
L0041605	0	0.68070E-07	443631.7	3760465.9	203.4	3.66	2.33	2.89 YES
L0041606	0	0.68070E-07	443636.7	3760465.9	203.4	3.66	2.33	2.89 YES
L0041607	0	0.68070E-07	443641.7	3760465.9	203.4	3.66	2.33	2.89 YES
L0041608	0	0.68070E-07	443646.7	3760465.9	203.4	3.66	2.33	2.89 YES
L0041609	0	0.68070E-07	443651.7	3760465.9	203.5	3.66	2.33	2.89 YES
L0041610	0	0.68070E-07	443656.7	3760465.9	203.5	3.66	2.33	2.89 YES
L0041611	0	0.68070E-07	443661.7	3760465.9	203.5	3.66	2.33	2.89 YES
L0041612	0	0.68070E-07	443666.7	3760465.9	203.5	3.66	2.33	2.89 YES
L0041613	0	0.68070E-07	443671.7	3760465.9	203.5	3.66	2.33	2.89 YES
L0041614	0	0.68070E-07	443676.7	3760465.9	203.5	3.66	2.33	2.89 YES
L0041615	0	0.68070E-07	443681.7	3760466.0	203.5	3.66	2.33	2.89 YES
L0041616	0	0.68070E-07	443686.7	3760466.0	203.5	3.66	2.33	2.89 YES
L0041617	0	0.68070E-07	443691.7	3760466.0	203.5	3.66	2.33	2.89 YES
L0041618	0	0.68070E-07	443696.7	3760466.1	203.5	3.66	2.33	2.89 YES
L0041619	0	0.68070E-07	443701.7	3760466.1	203.6	3.66	2.33	2.89 YES

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 L0041620         0   0.68070E-07  443706.7 3760466.1   203.6     3.66     2.33
2.89     YES
 L0041621         0   0.68070E-07  443711.7 3760466.2   203.6     3.66     2.33
2.89     YES
 L0041622         0   0.68070E-07  443716.7 3760466.2   203.6     3.66     2.33
2.89     YES
 L0041623         0   0.68070E-07  443721.7 3760466.2   203.6     3.66     2.33
2.89     YES
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0041624         0   0.68070E-07  443726.7 3760466.3   203.6     3.66     2.33
2.89     YES
 L0041625         0   0.68070E-07  443731.7 3760466.3   203.6     3.66     2.33
2.89     YES
 L0041626         0   0.68070E-07  443736.7 3760466.3   203.6     3.66     2.33
2.89     YES
 L0041627         0   0.68070E-07  443741.7 3760466.4   203.6     3.66     2.33
2.89     YES
 L0041628         0   0.68070E-07  443746.7 3760466.4   203.7     3.66     2.33
2.89     YES
 L0041629         0   0.68070E-07  443751.7 3760466.4   203.7     3.66     2.33
2.89     YES
 L0041630         0   0.68070E-07  443756.7 3760466.5   203.7     3.66     2.33
2.89     YES
 L0041631         0   0.68070E-07  443761.7 3760466.5   203.7     3.66     2.33
2.89     YES
 L0041632         0   0.68070E-07  443766.7 3760466.5   203.7     3.66     2.33
2.89     YES
 L0041633         0   0.68070E-07  443771.7 3760466.6   203.7     3.66     2.33
2.89     YES
```

L0041634	0	0.68070E-07	443776.7	3760466.6	203.8	3.66	2.33	2.89 YES
L0041635	0	0.68070E-07	443781.7	3760466.6	203.8	3.66	2.33	2.89 YES
L0041636	0	0.68070E-07	443786.7	3760466.7	203.8	3.66	2.33	2.89 YES
L0041637	0	0.68070E-07	443791.7	3760466.7	203.8	3.66	2.33	2.89 YES
L0041638	0	0.68070E-07	443796.7	3760466.7	203.9	3.66	2.33	2.89 YES
L0041639	0	0.68070E-07	443801.7	3760466.8	203.9	3.66	2.33	2.89 YES
L0041640	0	0.68070E-07	443806.7	3760466.8	203.9	3.66	2.33	2.89 YES
L0041641	0	0.68070E-07	443811.7	3760466.8	203.9	3.66	2.33	2.89 YES
L0041642	0	0.68070E-07	443816.7	3760466.9	204.0	3.66	2.33	2.89 YES
L0041643	0	0.68070E-07	443821.7	3760466.9	204.0	3.66	2.33	2.89 YES
L0041644	0	0.68070E-07	443826.7	3760466.9	204.0	3.66	2.33	2.89 YES
L0041645	0	0.68070E-07	443831.7	3760467.0	204.0	3.66	2.33	2.89 YES
L0041646	0	0.68070E-07	443836.7	3760467.0	204.0	3.66	2.33	2.89 YES
L0041647	0	0.68070E-07	443841.7	3760467.0	204.1	3.66	2.33	2.89 YES
L0041648	0	0.68070E-07	443846.7	3760467.1	204.1	3.66	2.33	2.89 YES
L0041649	0	0.68070E-07	443851.7	3760467.1	204.1	3.66	2.33	2.89 YES
L0041650	0	0.68070E-07	443856.7	3760467.1	204.2	3.66	2.33	2.89 YES
L0041651	0	0.68070E-07	443861.7	3760467.2	204.2	3.66	2.33	2.89 YES
L0041652	0	0.68070E-07	443866.7	3760467.2	204.2	3.66	2.33	2.89 YES
L0041653	0	0.68070E-07	443871.7	3760467.2	204.3	3.66	2.33	2.89 YES
L0041654	0	0.68070E-07	443876.7	3760467.3	204.3	3.66	2.33	2.89 YES
L0041655	0	0.68070E-07	443881.7	3760467.3	204.3	3.66	2.33	2.89 YES
L0041656	0	0.68070E-07	443886.7	3760467.3	204.3	3.66	2.33	2.89 YES
L0041657	0	0.68070E-07	443891.7	3760467.3	204.3	3.66	2.33	2.89 YES

 L0041658   0   0.68070E-07 443896.7 3760467.3   204.3   3.66   2.33
2.89   YES
 L0041659   0   0.68070E-07 443901.7 3760467.3   204.3   3.66   2.33
2.89   YES
 L0041660   0   0.68070E-07 443906.7 3760467.3   204.3   3.66   2.33
2.89   YES
 L0041661   0   0.68070E-07 443911.7 3760467.3   204.3   3.66   2.33
2.89   YES
 L0041662   0   0.68070E-07 443916.7 3760467.3   204.4   3.66   2.33
2.89   YES
 L0041663   0   0.68070E-07 443921.7 3760467.3   204.4   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0041664   0   0.68070E-07 443926.7 3760467.3   204.4   3.66   2.33
2.89   YES
 L0041665   0   0.68070E-07 443931.7 3760467.3   204.4   3.66   2.33
2.89   YES
 L0041666   0   0.68070E-07 443936.7 3760467.3   204.4   3.66   2.33
2.89   YES
 L0041667   0   0.68070E-07 443941.7 3760467.3   204.4   3.66   2.33
2.89   YES
 L0041668   0   0.68070E-07 443946.7 3760467.3   204.5   3.66   2.33
2.89   YES
 L0041669   0   0.68070E-07 443951.7 3760467.3   204.5   3.66   2.33
2.89   YES
 L0041670   0   0.68070E-07 443956.7 3760467.3   204.4   3.66   2.33
2.89   YES
 L0041671   0   0.68070E-07 443961.7 3760467.3   204.4   3.66   2.33
2.89   YES

L0041672	0	0.68070E-07	443966.7	3760467.3	204.4	3.66	2.33	2.89 YES
L0041673	0	0.68070E-07	443971.7	3760467.3	204.3	3.66	2.33	2.89 YES
L0041674	0	0.68070E-07	443976.7	3760467.3	204.3	3.66	2.33	2.89 YES
L0041675	0	0.68070E-07	443981.7	3760467.3	204.2	3.66	2.33	2.89 YES
L0041676	0	0.68070E-07	443986.7	3760467.1	204.1	3.66	2.33	2.89 YES
L0041677	0	0.68070E-07	443991.6	3760466.1	204.1	3.66	2.33	2.89 YES
L0041678	0	0.68070E-07	443996.5	3760465.1	204.0	3.66	2.33	2.89 YES
L0041679	0	0.68070E-07	444001.4	3760464.1	203.9	3.66	2.33	2.89 YES
L0041680	0	0.68070E-07	444006.3	3760463.1	203.8	3.66	2.33	2.89 YES
L0041681	0	0.68070E-07	444011.2	3760462.1	203.7	3.66	2.33	2.89 YES
L0041682	0	0.68070E-07	444016.1	3760461.1	203.6	3.66	2.33	2.89 YES
L0041683	0	0.68070E-07	444021.0	3760460.1	203.6	3.66	2.33	2.89 YES
L0041684	0	0.68070E-07	444025.9	3760459.1	203.5	3.66	2.33	2.89 YES
L0041685	0	0.68070E-07	444030.8	3760458.1	203.4	3.66	2.33	2.89 YES
L0041686	0	0.68070E-07	444035.6	3760456.9	203.4	3.66	2.33	2.89 YES
L0041687	0	0.68070E-07	444040.2	3760454.9	203.4	3.66	2.33	2.89 YES
L0041688	0	0.68070E-07	444044.7	3760452.9	203.3	3.66	2.33	2.89 YES
L0041689	0	0.68070E-07	444049.3	3760450.9	203.3	3.66	2.33	2.89 YES
L0041690	0	0.68070E-07	444053.9	3760448.9	203.3	3.66	2.33	2.89 YES
L0041691	0	0.68070E-07	444058.5	3760446.8	203.2	3.66	2.33	2.89 YES
L0041692	0	0.68070E-07	444063.1	3760444.8	203.2	3.66	2.33	2.89 YES
L0041693	0	0.68070E-07	444067.6	3760442.8	203.1	3.66	2.33	2.89 YES
L0041694	0	0.68070E-07	444072.2	3760440.8	203.1	3.66	2.33	2.89 YES
L0041695	0	0.68070E-07	444076.8	3760438.8	203.0	3.66	2.33	2.89 YES

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 L0041696         0   0.68070E-07  444081.4 3760436.8   203.0     3.66     2.33
2.89     YES
 L0041697         0   0.68070E-07  444086.0 3760434.8   202.9     3.66     2.33
2.89     YES
 L0041698         0   0.68070E-07  444090.7 3760433.3   202.9     3.66     2.33
2.89     YES
 L0041699         0   0.68070E-07  444095.5 3760431.8   202.8     3.66     2.33
2.89     YES
 L0041700         0   0.68070E-07  444100.3 3760430.3   202.8     3.66     2.33
2.89     YES
 L0041701         0   0.68070E-07  444105.0 3760428.8   202.7     3.66     2.33
2.89     YES
 L0041702         0   0.68070E-07  444109.8 3760427.4   202.7     3.66     2.33
2.89     YES
 L0041703         0   0.68070E-07  444114.6 3760425.9   202.7     3.66     2.33
2.89     YES
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                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0041704         0   0.68070E-07  444119.4 3760424.4   202.7     3.66     2.33
2.89     YES
 L0041705         0   0.68070E-07  444124.2 3760422.9   202.6     3.66     2.33
2.89     YES
 L0041706         0   0.68070E-07  444128.9 3760421.5   202.6     3.66     2.33
2.89     YES
 L0041707         0   0.68070E-07  444133.7 3760420.0   202.6     3.66     2.33
2.89     YES
 L0041708         0   0.68070E-07  444138.6 3760418.9   202.5     3.66     2.33
2.89     YES
 L0041709         0   0.68070E-07  444143.5 3760418.4   202.5     3.66     2.33
2.89     YES
```

L0041710	0	0.68070E-07	444148.5	3760417.8	202.4	3.66	2.33	2.89 YES
L0041711	0	0.68070E-07	444153.5	3760417.2	202.4	3.66	2.33	2.89 YES
L0041712	0	0.68070E-07	444158.4	3760416.6	202.3	3.66	2.33	2.89 YES
L0041713	0	0.68070E-07	444163.4	3760416.0	202.3	3.66	2.33	2.89 YES
L0041714	0	0.68070E-07	444168.4	3760415.5	202.3	3.66	2.33	2.89 YES
L0041715	0	0.68070E-07	444173.3	3760414.9	202.2	3.66	2.33	2.89 YES
L0041716	0	0.68070E-07	444178.3	3760414.3	202.2	3.66	2.33	2.89 YES
L0041717	0	0.68070E-07	444183.3	3760413.7	202.2	3.66	2.33	2.89 YES
L0041718	0	0.68070E-07	444188.2	3760413.2	202.2	3.66	2.33	2.89 YES
L0041719	0	0.68070E-07	444193.2	3760412.6	202.2	3.66	2.33	2.89 YES
L0041720	0	0.68070E-07	444198.2	3760412.4	202.1	3.66	2.33	2.89 YES
L0041721	0	0.68070E-07	444203.2	3760412.3	202.1	3.66	2.33	2.89 YES
L0041722	0	0.68070E-07	444208.2	3760412.3	202.1	3.66	2.33	2.89 YES
L0041723	0	0.68070E-07	444213.2	3760412.2	202.1	3.66	2.33	2.89 YES
L0041724	0	0.68070E-07	444218.2	3760412.2	202.1	3.66	2.33	2.89 YES
L0041725	0	0.68070E-07	444223.2	3760412.1	202.1	3.66	2.33	2.89 YES
L0041726	0	0.68070E-07	444228.2	3760412.1	202.1	3.66	2.33	2.89 YES
L0041727	0	0.68070E-07	444233.2	3760412.1	202.0	3.66	2.33	2.89 YES
L0041728	0	0.68070E-07	444238.2	3760412.0	202.0	3.66	2.33	2.89 YES
L0041729	0	0.68070E-07	444243.2	3760412.0	202.0	3.66	2.33	2.89 YES
L0041730	0	0.68070E-07	444248.2	3760411.9	202.0	3.66	2.33	2.89 YES
L0041731	0	0.68070E-07	444253.2	3760411.9	202.0	3.66	2.33	2.89 YES
L0041732	0	0.68070E-07	444258.2	3760411.8	202.0	3.66	2.33	2.89 YES
L0041733	0	0.68070E-07	444263.2	3760411.8	202.0	3.66	2.33	2.89 YES

 L0041734   0   0.68070E-07 444268.2 3760411.7   202.0   3.66   2.33
2.89   YES
 L0041735   0   0.68070E-07 444273.2 3760411.7   202.0   3.66   2.33
2.89   YES
 L0041736   0   0.68070E-07 444278.2 3760411.7   202.0   3.66   2.33
2.89   YES
 L0041737   0   0.68070E-07 444283.2 3760411.6   202.0   3.66   2.33
2.89   YES
 L0041738   0   0.68070E-07 444288.2 3760411.6   202.0   3.66   2.33
2.89   YES
 L0041739   0   0.68070E-07 444293.2 3760411.5   202.0   3.66   2.33
2.89   YES
 L0041740   0   0.68070E-07 444298.2 3760411.5   202.0   3.66   2.33
2.89   YES
 L0041741   0   0.68070E-07 444303.2 3760411.4   202.0   3.66   2.33
2.89   YES
 L0041742   0   0.68070E-07 444308.2 3760411.4   202.0   3.66   2.33
2.89   YES
 L0041743   0   0.68070E-07 444313.2 3760411.3   202.0   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0041744   0   0.68070E-07 444318.2 3760411.2   202.0   3.66   2.33
2.89   YES
 L0041745   0   0.68070E-07 444323.2 3760411.2   202.0   3.66   2.33
2.89   YES
 L0041746   0   0.68070E-07 444328.2 3760411.1   202.0   3.66   2.33
2.89   YES
 L0041747   0   0.68070E-07 444333.2 3760411.0   202.0   3.66   2.33
2.89   YES

L0041748	0	0.68070E-07	444338.2	3760411.0	202.0	3.66	2.33	2.89 YES
L0041749	0	0.68070E-07	444343.2	3760410.9	202.0	3.66	2.33	2.89 YES
L0041750	0	0.68070E-07	444348.2	3760410.8	202.0	3.66	2.33	2.89 YES
L0041751	0	0.68070E-07	444353.2	3760410.8	202.0	3.66	2.33	2.89 YES
L0041752	0	0.68070E-07	444358.2	3760410.7	202.0	3.66	2.33	2.89 YES
L0041753	0	0.68070E-07	444363.2	3760410.6	202.0	3.66	2.33	2.89 YES
L0041754	0	0.68070E-07	444368.2	3760410.6	202.0	3.66	2.33	2.89 YES
L0041755	0	0.68070E-07	444373.2	3760410.5	202.0	3.66	2.33	2.89 YES
L0041756	0	0.68070E-07	444378.2	3760410.5	202.0	3.66	2.33	2.89 YES
L0041757	0	0.68070E-07	444383.2	3760410.4	201.9	3.66	2.33	2.89 YES
L0041758	0	0.68070E-07	444388.2	3760410.3	201.9	3.66	2.33	2.89 YES
L0041759	0	0.68070E-07	444393.2	3760410.3	201.9	3.66	2.33	2.89 YES
L0041760	0	0.68070E-07	444398.2	3760410.2	201.9	3.66	2.33	2.89 YES
L0041761	0	0.68070E-07	444403.2	3760410.1	201.8	3.66	2.33	2.89 YES
L0041762	0	0.68070E-07	444408.2	3760410.1	201.8	3.66	2.33	2.89 YES
L0041763	0	0.68070E-07	444413.2	3760410.0	201.7	3.66	2.33	2.89 YES
L0041764	0	0.68070E-07	444418.2	3760409.9	201.7	3.66	2.33	2.89 YES
L0041765	0	0.68070E-07	444423.2	3760409.9	201.7	3.66	2.33	2.89 YES
L0041766	0	0.68070E-07	444428.2	3760409.8	201.7	3.66	2.33	2.89 YES
L0041767	0	0.68070E-07	444433.2	3760409.7	201.7	3.66	2.33	2.89 YES
L0041768	0	0.68070E-07	444438.2	3760409.7	201.7	3.66	2.33	2.89 YES
L0041769	0	0.68070E-07	444443.2	3760409.6	201.7	3.66	2.33	2.89 YES
L0041770	0	0.68070E-07	444448.2	3760409.5	201.7	3.66	2.33	2.89 YES
L0041771	0	0.68070E-07	444453.2	3760409.5	201.7	3.66	2.33	2.89 YES

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 L0041772         0   0.68070E-07  444458.2 3760409.4   201.7     3.66     2.33
2.89     YES
 L0041773         0   0.68070E-07  444463.2 3760409.4   201.7     3.66     2.33
2.89     YES
 L0041774         0   0.68070E-07  444468.2 3760409.3   201.8     3.66     2.33
2.89     YES
 L0041775         0   0.68070E-07  444473.2 3760409.3   201.8     3.66     2.33
2.89     YES
 L0041776         0   0.68070E-07  444478.2 3760409.3   201.8     3.66     2.33
2.89     YES
 L0041777         0   0.68070E-07  444483.2 3760409.3   201.8     3.66     2.33
2.89     YES
 L0041778         0   0.68070E-07  444488.2 3760409.3   201.8     3.66     2.33
2.89     YES
 L0041779         0   0.68070E-07  444493.2 3760409.4   201.8     3.66     2.33
2.89     YES
 L0041780         0   0.68070E-07  444498.2 3760409.4   201.9     3.66     2.33
2.89     YES
 L0041781         0   0.68070E-07  444503.2 3760409.4   201.9     3.66     2.33
2.89     YES
 L0041782         0   0.68070E-07  444508.2 3760409.4   201.9     3.66     2.33
2.89     YES
 L0041783         0   0.68070E-07  444513.2 3760409.4   201.9     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0041784         0   0.68070E-07  444518.2 3760409.4   201.9     3.66     2.33
2.89     YES
 L0041785         0   0.68070E-07  444523.2 3760409.5   201.9     3.66     2.33
2.89     YES
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L0041786	0	0.68070E-07	444528.2	3760409.5	201.9	3.66	2.33	2.89 YES
L0041787	0	0.68070E-07	444533.2	3760409.5	202.0	3.66	2.33	2.89 YES
L0041788	0	0.68070E-07	444538.2	3760409.5	202.0	3.66	2.33	2.89 YES
L0041789	0	0.68070E-07	444543.2	3760409.5	202.0	3.66	2.33	2.89 YES
L0041790	0	0.68070E-07	444548.2	3760409.6	202.0	3.66	2.33	2.89 YES
L0041791	0	0.68070E-07	444553.2	3760409.6	202.1	3.66	2.33	2.89 YES
L0041792	0	0.68070E-07	444558.2	3760409.6	202.1	3.66	2.33	2.89 YES
L0041793	0	0.68070E-07	444563.2	3760409.6	202.1	3.66	2.33	2.89 YES
L0041794	0	0.68070E-07	444568.2	3760409.6	202.1	3.66	2.33	2.89 YES
L0041795	0	0.68070E-07	444573.2	3760409.6	202.1	3.66	2.33	2.89 YES
L0041796	0	0.68070E-07	444578.2	3760409.7	202.1	3.66	2.33	2.89 YES
L0041797	0	0.68070E-07	444583.2	3760409.7	202.1	3.66	2.33	2.89 YES
L0041798	0	0.68070E-07	444588.2	3760409.7	202.1	3.66	2.33	2.89 YES
L0041799	0	0.68070E-07	444593.2	3760409.7	202.0	3.66	2.33	2.89 YES
L0041800	0	0.68070E-07	444598.2	3760409.7	201.2	3.66	2.33	2.89 YES
L0041801	0	0.68070E-07	444603.2	3760409.8	200.4	3.66	2.33	2.89 YES
L0041802	0	0.68070E-07	444608.2	3760409.8	199.7	3.66	2.33	2.89 YES
L0041803	0	0.68070E-07	444613.2	3760409.8	198.9	3.66	2.33	2.89 YES
L0041804	0	0.68070E-07	444618.2	3760409.8	198.1	3.66	2.33	2.89 YES
L0041805	0	0.68070E-07	444623.2	3760409.8	198.0	3.66	2.33	2.89 YES
L0041806	0	0.68070E-07	444628.2	3760409.9	197.9	3.66	2.33	2.89 YES
L0041807	0	0.68070E-07	444633.2	3760409.9	197.8	3.66	2.33	2.89 YES
L0041808	0	0.68070E-07	444638.2	3760409.9	197.7	3.66	2.33	2.89 YES
L0041809	0	0.68070E-07	444643.2	3760409.9	197.6	3.66	2.33	2.89 YES

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 L0041810         0   0.68070E-07  444648.2 3760409.7   198.3     3.66     2.33
2.89     YES
 L0041811         0   0.68070E-07  444653.2 3760409.5   199.2     3.66     2.33
2.89     YES
 L0041812         0   0.68070E-07  444658.2 3760409.4   200.0     3.66     2.33
2.89     YES
 L0041813         0   0.68070E-07  444663.2 3760409.2   200.9     3.66     2.33
2.89     YES
 L0041814         0   0.68070E-07  444668.2 3760409.1   201.7     3.66     2.33
2.89     YES
 L0041815         0   0.68070E-07  444673.2 3760408.9   202.0     3.66     2.33
2.89     YES
 L0041816         0   0.68070E-07  444678.2 3760408.7   202.0     3.66     2.33
2.89     YES
 L0041817         0   0.68070E-07  444683.2 3760408.6   202.0     3.66     2.33
2.89     YES
 L0041818         0   0.68070E-07  444688.2 3760408.4   202.1     3.66     2.33
2.89     YES
 L0041819         0   0.68070E-07  444693.2 3760408.3   202.1     3.66     2.33
2.89     YES
 L0041820         0   0.68070E-07  444698.2 3760408.1   202.1     3.66     2.33
2.89     YES
 L0041821         0   0.68070E-07  444703.1 3760408.0   202.0     3.66     2.33
2.89     YES
 L0041822         0   0.68070E-07  444708.1 3760407.8   202.0     3.66     2.33
2.89     YES
 L0041823         0   0.68070E-07  444713.1 3760407.6   201.9     3.66     2.33
2.89     YES
↑ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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L0041824	0	0.68070E-07	444718.1	3760407.5	201.9	3.66	2.33	2.89 YES
L0041825	0	0.68070E-07	444723.1	3760407.3	201.8	3.66	2.33	2.89 YES
L0041826	0	0.68070E-07	444728.1	3760407.2	201.8	3.66	2.33	2.89 YES
L0041827	0	0.68070E-07	444733.1	3760407.0	201.7	3.66	2.33	2.89 YES
L0041828	0	0.68070E-07	444738.1	3760406.9	201.7	3.66	2.33	2.89 YES
L0041829	0	0.68070E-07	444743.1	3760406.7	201.7	3.66	2.33	2.89 YES
L0041830	0	0.68070E-07	444748.1	3760406.5	201.6	3.66	2.33	2.89 YES
L0041831	0	0.68070E-07	444753.1	3760406.4	201.5	3.66	2.33	2.89 YES
L0041832	0	0.68070E-07	444758.1	3760406.2	201.4	3.66	2.33	2.89 YES
L0041833	0	0.68070E-07	444763.1	3760406.1	201.3	3.66	2.33	2.89 YES
L0041834	0	0.68070E-07	444768.1	3760405.9	201.2	3.66	2.33	2.89 YES
L0041835	0	0.68070E-07	444773.1	3760405.7	201.1	3.66	2.33	2.89 YES
L0041836	0	0.68070E-07	444778.1	3760405.6	201.0	3.66	2.33	2.89 YES
L0041837	0	0.68070E-07	444783.1	3760405.4	201.0	3.66	2.33	2.89 YES
L0041838	0	0.68070E-07	444788.1	3760405.3	200.9	3.66	2.33	2.89 YES
L0041839	0	0.68070E-07	444793.1	3760405.1	200.8	3.66	2.33	2.89 YES
L0041840	0	0.68070E-07	444798.1	3760405.0	200.8	3.66	2.33	2.89 YES
L0041841	0	0.68070E-07	444803.1	3760404.8	200.9	3.66	2.33	2.89 YES
L0041842	0	0.68070E-07	444808.1	3760404.6	201.0	3.66	2.33	2.89 YES
L0041843	0	0.68070E-07	444813.1	3760404.5	201.1	3.66	2.33	2.89 YES
L0041844	0	0.68070E-07	444818.1	3760404.3	201.2	3.66	2.33	2.89 YES
L0041845	0	0.68070E-07	444823.1	3760404.2	201.3	3.66	2.33	2.89 YES
L0041846	0	0.68070E-07	444828.1	3760404.0	201.3	3.66	2.33	2.89 YES
L0041847	0	0.68070E-07	444833.1	3760403.8	201.3	3.66	2.33	2.89 YES

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 L0041848         0   0.68070E-07  444838.1 3760403.7   201.3     3.66     2.33
2.89     YES
 L0041849         0   0.68070E-07  444843.1 3760403.5   201.3     3.66     2.33
2.89     YES
 L0041850         0   0.68070E-07  444848.1 3760403.4   201.2     3.66     2.33
2.89     YES
 L0041851         0   0.68070E-07  444853.1 3760403.3   201.2     3.66     2.33
2.89     YES
 L0041852         0   0.68070E-07  444858.1 3760403.2   201.2     3.66     2.33
2.89     YES
 L0041853         0   0.68070E-07  444863.1 3760403.1   201.2     3.66     2.33
2.89     YES
 L0041854         0   0.68070E-07  444868.1 3760403.1   201.1     3.66     2.33
2.89     YES
 L0041855         0   0.68070E-07  444873.1 3760403.0   201.1     3.66     2.33
2.89     YES
 L0041856         0   0.68070E-07  444878.1 3760402.9   201.1     3.66     2.33
2.89     YES
 L0041857         0   0.68070E-07  444883.1 3760402.8   201.1     3.66     2.33
2.89     YES
 L0041858         0   0.68070E-07  444888.1 3760402.7   201.1     3.66     2.33
2.89     YES
 L0041859         0   0.68070E-07  444893.1 3760402.6   201.1     3.66     2.33
2.89     YES
 L0041860         0   0.68070E-07  444898.1 3760402.5   201.1     3.66     2.33
2.89     YES
 L0041861         0   0.68070E-07  444903.1 3760402.4   201.1     3.66     2.33
2.89     YES
 L0041862         0   0.68070E-07  444908.1 3760402.4   201.2     3.66     2.33
2.89     YES
 L0041863         0   0.68070E-07  444913.1 3760402.3   201.2     3.66     2.33
2.89     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

(METERS) BY

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 L0041886         0   0.68070E-07  445028.0 3760400.3   201.7     3.66     2.33
2.89     YES
 L0041887         0   0.68070E-07  445033.0 3760400.2   201.7     3.66     2.33
2.89     YES
 L0041888         0   0.68070E-07  445038.0 3760400.1   201.7     3.66     2.33
2.89     YES
 L0041889         0   0.68070E-07  445043.0 3760400.0   201.7     3.66     2.33
2.89     YES
 L0041890         0   0.68070E-07  445048.0 3760400.0   201.7     3.66     2.33
2.89     YES
 L0041891         0   0.68070E-07  445053.0 3760399.9   201.7     3.66     2.33
2.89     YES
 L0041892         0   0.68070E-07  445058.0 3760399.8   201.7     3.66     2.33
2.89     YES
 L0041893         0   0.68070E-07  445063.0 3760399.7   201.7     3.66     2.33
2.89     YES
 L0041894         0   0.68070E-07  445068.0 3760399.6   201.7     3.66     2.33
2.89     YES
 L0041895         0   0.68070E-07  445073.0 3760399.5   201.6     3.66     2.33
2.89     YES
 L0041896         0   0.68070E-07  445078.0 3760399.4   201.6     3.66     2.33
2.89     YES
 L0041897         0   0.68070E-07  445083.0 3760399.4   201.6     3.66     2.33
2.89     YES
 L0041898         0   0.68070E-07  445088.0 3760399.3   201.6     3.66     2.33
2.89     YES
 L0041899         0   0.68070E-07  445093.0 3760399.2   201.6     3.66     2.33
2.89     YES
 L0041900         0   0.68070E-07  445098.0 3760399.1   201.6     3.66     2.33
2.89     YES
 L0041901         0   0.68070E-07  445103.0 3760399.0   201.6     3.66     2.33
2.89     YES
 L0041902         0   0.68070E-07  445108.0 3760398.9   201.6     3.66     2.33
2.89     YES
 L0041903         0   0.68070E-07  445113.0 3760398.8   201.6     3.66     2.33
2.89     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE   BASE   RELEASE   INIT.

INIT. SOURCE ID	URBAN PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE VARY BY
L0041904	0	0.68070E-07	445118.0	3760398.8	201.7	3.66	2.33	2.89	YES
L0041905	0	0.68070E-07	445123.0	3760398.7	201.7	3.66	2.33	2.89	YES
L0041906	0	0.68070E-07	445128.0	3760398.6	201.8	3.66	2.33	2.89	YES
L0041907	0	0.68070E-07	445133.0	3760398.5	201.8	3.66	2.33	2.89	YES
L0041908	0	0.68070E-07	445138.0	3760398.4	201.8	3.66	2.33	2.89	YES
L0041909	0	0.68070E-07	445143.0	3760398.3	201.8	3.66	2.33	2.89	YES
L0041910	0	0.68070E-07	445148.0	3760398.2	201.7	3.66	2.33	2.89	YES
L0041911	0	0.68070E-07	445153.0	3760398.3	201.7	3.66	2.33	2.89	YES
L0041912	0	0.68070E-07	445158.0	3760398.5	201.7	3.66	2.33	2.89	YES
L0041913	0	0.68070E-07	445163.0	3760398.7	201.6	3.66	2.33	2.89	YES
L0041914	0	0.68070E-07	445168.0	3760398.9	201.6	3.66	2.33	2.89	YES
L0041915	0	0.68070E-07	445173.0	3760399.1	201.5	3.66	2.33	2.89	YES
L0041916	0	0.68070E-07	445178.0	3760399.3	201.5	3.66	2.33	2.89	YES
L0041917	0	0.68070E-07	445183.0	3760399.5	201.4	3.66	2.33	2.89	YES
L0041918	0	0.68070E-07	445188.0	3760399.7	201.4	3.66	2.33	2.89	YES
L0041919	0	0.68070E-07	445193.0	3760399.9	201.4	3.66	2.33	2.89	YES
L0041920	0	0.55350E-07	440779.6	3760467.0	196.6	3.66	2.33	2.89	YES
L0041921	0	0.55350E-07	440784.6	3760467.0	196.7	3.66	2.33	2.89	YES
L0041922	0	0.55350E-07	440789.6	3760467.0	196.7	3.66	2.33	2.89	YES
L0041923	0	0.55350E-07	440794.6	3760466.9	196.7	3.66	2.33	2.89	YES

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 L0041924         0   0.55350E-07  440799.6 3760466.9   196.7     3.66     2.33
2.89     YES
 L0041925         0   0.55350E-07  440804.6 3760466.9   196.7     3.66     2.33
2.89     YES
 L0041926         0   0.55350E-07  440809.6 3760466.8   196.7     3.66     2.33
2.89     YES
 L0041927         0   0.55350E-07  440814.6 3760466.8   196.7     3.66     2.33
2.89     YES
 L0041928         0   0.55350E-07  440819.6 3760466.8   196.6     3.66     2.33
2.89     YES
 L0041929         0   0.55350E-07  440824.6 3760466.7   196.7     3.66     2.33
2.89     YES
 L0041930         0   0.55350E-07  440829.6 3760466.7   196.7     3.66     2.33
2.89     YES
 L0041931         0   0.55350E-07  440834.6 3760466.7   196.7     3.66     2.33
2.89     YES
 L0041932         0   0.55350E-07  440839.6 3760466.6   196.7     3.66     2.33
2.89     YES
 L0041933         0   0.55350E-07  440844.6 3760466.6   196.8     3.66     2.33
2.89     YES
 L0041934         0   0.55350E-07  440849.6 3760466.6   196.8     3.66     2.33
2.89     YES
 L0041935         0   0.55350E-07  440854.6 3760466.5   196.8     3.66     2.33
2.89     YES
 L0041936         0   0.55350E-07  440859.6 3760466.5   196.9     3.66     2.33
2.89     YES
 L0041937         0   0.55350E-07  440864.6 3760466.5   196.9     3.66     2.33
2.89     YES
 L0041938         0   0.55350E-07  440869.6 3760466.4   197.0     3.66     2.33
2.89     YES
 L0041939         0   0.55350E-07  440874.6 3760466.4   197.0     3.66     2.33
2.89     YES
 L0041940         0   0.55350E-07  440879.6 3760466.4   197.1     3.66     2.33
2.89     YES
 L0041941         0   0.55350E-07  440884.6 3760466.3   197.1     3.66     2.33
2.89     YES
 L0041942         0   0.55350E-07  440889.6 3760466.3   197.2     3.66     2.33
2.89     YES
 L0041943         0   0.55350E-07  440894.6 3760466.3   197.2     3.66     2.33
2.89     YES
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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0041944	0	0.55350E-07	440899.6	3760466.2	197.2	3.66	2.33	2.89	YES
L0041945	0	0.55350E-07	440904.6	3760466.2	197.3	3.66	2.33	2.89	YES
L0041946	0	0.55350E-07	440909.6	3760466.2	197.4	3.66	2.33	2.89	YES
L0041947	0	0.55350E-07	440914.6	3760466.1	197.4	3.66	2.33	2.89	YES
L0041948	0	0.55350E-07	440919.6	3760466.1	197.4	3.66	2.33	2.89	YES
L0041949	0	0.55350E-07	440924.6	3760466.1	197.5	3.66	2.33	2.89	YES
L0041950	0	0.55350E-07	440929.6	3760466.0	197.5	3.66	2.33	2.89	YES
L0041951	0	0.55350E-07	440934.6	3760466.0	197.5	3.66	2.33	2.89	YES
L0041952	0	0.55350E-07	440939.6	3760466.0	197.5	3.66	2.33	2.89	YES
L0041953	0	0.55350E-07	440944.6	3760465.9	197.6	3.66	2.33	2.89	YES
L0041954	0	0.55350E-07	440949.6	3760465.9	197.6	3.66	2.33	2.89	YES
L0041955	0	0.55350E-07	440954.6	3760465.9	197.6	3.66	2.33	2.89	YES
L0041956	0	0.55350E-07	440959.6	3760465.8	197.6	3.66	2.33	2.89	YES
L0041957	0	0.55350E-07	440964.6	3760465.8	197.6	3.66	2.33	2.89	YES
L0041958	0	0.55350E-07	440969.6	3760465.8	197.6	3.66	2.33	2.89	YES
L0041959	0	0.55350E-07	440974.6	3760465.7	197.6	3.66	2.33	2.89	YES
L0041960	0	0.55350E-07	440979.6	3760465.7	197.6	3.66	2.33	2.89	YES
L0041961	0	0.55350E-07	440984.6	3760465.7	197.7	3.66	2.33	2.89	YES

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 L0041962         0   0.55350E-07  440989.6 3760465.6   197.7     3.66     2.33
2.89     YES
 L0041963         0   0.46500E-07  440994.5 3760465.5   197.7     3.66     2.33
2.89     YES
 L0041964         0   0.46500E-07  440999.5 3760465.5   197.7     3.66     2.33
2.89     YES
 L0041965         0   0.46500E-07  441004.5 3760465.6   197.8     3.66     2.33
2.89     YES
 L0041966         0   0.46500E-07  441009.5 3760465.6   197.8     3.66     2.33
2.89     YES
 L0041967         0   0.46500E-07  441014.5 3760465.6   197.8     3.66     2.33
2.89     YES
 L0041968         0   0.46500E-07  441019.5 3760465.6   197.9     3.66     2.33
2.89     YES
 L0041969         0   0.46500E-07  441024.5 3760465.6   197.9     3.66     2.33
2.89     YES
 L0041970         0   0.46500E-07  441029.5 3760465.7   197.9     3.66     2.33
2.89     YES
 L0041971         0   0.46500E-07  441034.5 3760465.7   197.9     3.66     2.33
2.89     YES
 L0041972         0   0.46500E-07  441039.5 3760465.7   198.0     3.66     2.33
2.89     YES
 L0041973         0   0.46500E-07  441044.5 3760465.7   198.0     3.66     2.33
2.89     YES
 L0041974         0   0.46500E-07  441049.5 3760465.8   198.0     3.66     2.33
2.89     YES
 L0041975         0   0.46500E-07  441054.5 3760465.8   198.1     3.66     2.33
2.89     YES
 L0041976         0   0.46500E-07  441059.5 3760465.8   198.1     3.66     2.33
2.89     YES
 L0041977         0   0.46500E-07  441064.5 3760465.8   198.1     3.66     2.33
2.89     YES
 L0041978         0   0.46500E-07  441069.5 3760465.8   198.2     3.66     2.33
2.89     YES
 L0041979         0   0.46500E-07  441074.5 3760465.9   198.2     3.66     2.33
2.89     YES
 L0041980         0   0.46500E-07  441079.5 3760465.9   198.3     3.66     2.33
2.89     YES
 L0041981         0   0.46500E-07  441084.5 3760465.9   198.3     3.66     2.33
2.89     YES
 L0041982         0   0.46500E-07  441089.5 3760465.9   198.3     3.66     2.33
2.89     YES
 L0041983         0   0.46500E-07  441094.5 3760465.9   198.4     3.66     2.33
2.89     YES
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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY	EMISSION RATE
L0041984	0	0.46500E-07	441099.5	3760466.0	198.4	3.66	2.33	2.89	YES	
L0041985	0	0.46500E-07	441104.5	3760466.0	198.4	3.66	2.33	2.89	YES	
L0041986	0	0.46500E-07	441109.5	3760466.0	198.5	3.66	2.33	2.89	YES	
L0041987	0	0.46500E-07	441114.5	3760466.0	198.5	3.66	2.33	2.89	YES	
L0041988	0	0.46500E-07	441119.5	3760466.0	198.5	3.66	2.33	2.89	YES	
L0041989	0	0.46500E-07	441124.5	3760466.1	198.5	3.66	2.33	2.89	YES	
L0041990	0	0.46500E-07	441129.5	3760466.1	198.5	3.66	2.33	2.89	YES	
L0041991	0	0.46500E-07	441134.5	3760466.1	198.5	3.66	2.33	2.89	YES	
L0041992	0	0.46500E-07	441139.5	3760466.1	198.5	3.66	2.33	2.89	YES	
L0041993	0	0.46500E-07	441144.5	3760466.1	198.5	3.66	2.33	2.89	YES	
L0041994	0	0.46500E-07	441149.5	3760466.2	198.5	3.66	2.33	2.89	YES	
L0041995	0	0.46500E-07	441154.5	3760466.2	198.6	3.66	2.33	2.89	YES	
L0041996	0	0.46500E-07	441159.5	3760466.2	198.6	3.66	2.33	2.89	YES	
L0041997	0	0.46500E-07	441164.5	3760466.2	198.6	3.66	2.33	2.89	YES	
L0041998	0	0.46500E-07	441169.5	3760466.3	198.5	3.66	2.33	2.89	YES	
L0041999	0	0.46500E-07	441174.5	3760466.3	198.5	3.66	2.33	2.89	YES	

L0042000	0	0.46500E-07	441179.5	3760466.3	198.5	3.66	2.33	2.89 YES
L0042001	0	0.46500E-07	441184.5	3760466.3	198.6	3.66	2.33	2.89 YES
L0042002	0	0.46500E-07	441189.5	3760466.3	198.7	3.66	2.33	2.89 YES
L0042003	0	0.44720E-07	441192.1	3760466.2	198.8	3.66	2.33	2.89 YES
L0042004	0	0.44720E-07	441197.1	3760466.3	198.9	3.66	2.33	2.89 YES
L0042005	0	0.44720E-07	441202.1	3760466.3	199.0	3.66	2.33	2.89 YES
L0042006	0	0.44720E-07	441207.1	3760466.3	199.0	3.66	2.33	2.89 YES
L0042007	0	0.44720E-07	441212.1	3760466.3	198.9	3.66	2.33	2.89 YES
L0042008	0	0.44720E-07	441217.1	3760466.4	198.9	3.66	2.33	2.89 YES
L0042009	0	0.44720E-07	441222.1	3760466.4	198.8	3.66	2.33	2.89 YES
L0042010	0	0.44720E-07	441227.1	3760466.4	198.7	3.66	2.33	2.89 YES
L0042011	0	0.44720E-07	441232.1	3760466.4	198.6	3.66	2.33	2.89 YES
L0042012	0	0.44720E-07	441237.1	3760466.4	198.6	3.66	2.33	2.89 YES
L0042013	0	0.44720E-07	441242.1	3760466.4	198.6	3.66	2.33	2.89 YES
L0042014	0	0.44720E-07	441247.1	3760466.4	198.6	3.66	2.33	2.89 YES
L0042015	0	0.44720E-07	441252.1	3760466.4	198.6	3.66	2.33	2.89 YES
L0042016	0	0.44720E-07	441257.1	3760466.4	198.6	3.66	2.33	2.89 YES
L0042017	0	0.44720E-07	441262.1	3760466.4	198.7	3.66	2.33	2.89 YES
L0042018	0	0.44720E-07	441267.1	3760466.4	198.7	3.66	2.33	2.89 YES
L0042019	0	0.44720E-07	441272.1	3760466.4	198.7	3.66	2.33	2.89 YES
L0042020	0	0.44720E-07	441277.1	3760466.4	198.7	3.66	2.33	2.89 YES
L0042021	0	0.44720E-07	441282.1	3760466.4	198.7	3.66	2.33	2.89 YES
L0042022	0	0.44720E-07	441287.1	3760466.4	198.7	3.66	2.33	2.89 YES
L0042023	0	0.44720E-07	441292.1	3760466.4	198.7	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0042024	0	0.44720E-07	441297.1	3760466.4	198.8	3.66	2.33	2.89	YES	
L0042025	0	0.44720E-07	441302.1	3760466.4	198.8	3.66	2.33	2.89	YES	
L0042026	0	0.44720E-07	441307.1	3760466.4	198.8	3.66	2.33	2.89	YES	
L0042027	0	0.44720E-07	441312.1	3760466.4	198.8	3.66	2.33	2.89	YES	
L0042028	0	0.44720E-07	441317.1	3760466.4	198.8	3.66	2.33	2.89	YES	
L0042029	0	0.44720E-07	441322.1	3760466.4	198.9	3.66	2.33	2.89	YES	
L0042030	0	0.44720E-07	441327.1	3760466.4	198.9	3.66	2.33	2.89	YES	
L0042031	0	0.44720E-07	441332.1	3760466.4	198.9	3.66	2.33	2.89	YES	
L0042032	0	0.44720E-07	441337.1	3760466.4	198.9	3.66	2.33	2.89	YES	
L0042033	0	0.44720E-07	441342.1	3760466.4	198.9	3.66	2.33	2.89	YES	
L0042034	0	0.44720E-07	441347.1	3760466.4	199.0	3.66	2.33	2.89	YES	
L0042035	0	0.44720E-07	441352.1	3760466.4	199.0	3.66	2.33	2.89	YES	
L0042036	0	0.44720E-07	441357.1	3760466.4	199.0	3.66	2.33	2.89	YES	
L0042037	0	0.44720E-07	441362.1	3760466.4	199.0	3.66	2.33	2.89	YES	

L0042038	0	0.44720E-07	441367.1	3760466.4	199.1	3.66	2.33	2.89 YES
L0042039	0	0.44720E-07	441372.1	3760466.4	199.1	3.66	2.33	2.89 YES
L0042040	0	0.44720E-07	441377.1	3760466.4	199.1	3.66	2.33	2.89 YES
L0042041	0	0.44720E-07	441382.1	3760466.4	199.1	3.66	2.33	2.89 YES
L0042042	0	0.44720E-07	441387.1	3760466.4	199.2	3.66	2.33	2.89 YES
L0042043	0	0.44720E-07	441392.1	3760466.4	199.2	3.66	2.33	2.89 YES
L0042044	0	0.44720E-07	441397.1	3760466.4	199.2	3.66	2.33	2.89 YES
L0042045	0	0.44720E-07	441402.1	3760466.4	199.2	3.66	2.33	2.89 YES
L0042046	0	0.44720E-07	441407.1	3760466.4	199.2	3.66	2.33	2.89 YES
L0042047	0	0.44720E-07	441412.1	3760466.4	199.3	3.66	2.33	2.89 YES
L0042048	0	0.44720E-07	441417.1	3760466.4	199.3	3.66	2.33	2.89 YES
L0042049	0	0.44720E-07	441422.1	3760466.4	199.3	3.66	2.33	2.89 YES
L0042050	0	0.44720E-07	441427.1	3760466.4	199.3	3.66	2.33	2.89 YES
L0042051	0	0.44720E-07	441432.1	3760466.4	199.3	3.66	2.33	2.89 YES
L0042052	0	0.44720E-07	441437.1	3760466.3	199.3	3.66	2.33	2.89 YES
L0042053	0	0.44720E-07	441442.1	3760466.3	199.3	3.66	2.33	2.89 YES
L0042054	0	0.44720E-07	441447.1	3760466.3	199.3	3.66	2.33	2.89 YES
L0042055	0	0.44720E-07	441452.1	3760466.3	199.3	3.66	2.33	2.89 YES
L0042056	0	0.44720E-07	441457.1	3760466.3	199.3	3.66	2.33	2.89 YES
L0042057	0	0.44720E-07	441462.1	3760466.3	199.3	3.66	2.33	2.89 YES
L0042058	0	0.44720E-07	441467.1	3760466.3	199.4	3.66	2.33	2.89 YES
L0042059	0	0.44720E-07	441472.1	3760466.3	199.5	3.66	2.33	2.89 YES
L0042060	0	0.44720E-07	441477.1	3760466.3	199.5	3.66	2.33	2.89 YES
L0042061	0	0.44720E-07	441482.1	3760466.3	199.6	3.66	2.33	2.89 YES

 L0042062   0   0.44720E-07 441487.1 3760466.3   199.6   3.66   2.33
2.89   YES
 L0042063   0   0.44720E-07 441492.1 3760466.3   199.7   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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L0042076	0	0.34750E-07	441556.6	3760466.4	199.9	3.66	2.33	2.89 YES
L0042077	0	0.34750E-07	441561.6	3760466.4	199.9	3.66	2.33	2.89 YES
L0042078	0	0.34750E-07	441566.6	3760466.4	199.9	3.66	2.33	2.89 YES
L0042079	0	0.34750E-07	441571.6	3760466.5	200.0	3.66	2.33	2.89 YES
L0042080	0	0.34750E-07	441576.6	3760466.5	200.0	3.66	2.33	2.89 YES
L0042081	0	0.34750E-07	441581.6	3760466.5	200.0	3.66	2.33	2.89 YES
L0042082	0	0.34750E-07	441586.6	3760466.5	200.0	3.66	2.33	2.89 YES
L0042083	0	0.34750E-07	441591.6	3760466.6	200.0	3.66	2.33	2.89 YES
L0042084	0	0.34750E-07	441596.6	3760466.6	200.0	3.66	2.33	2.89 YES
L0042085	0	0.34750E-07	441601.6	3760466.6	200.0	3.66	2.33	2.89 YES
L0042086	0	0.34750E-07	441606.6	3760466.6	200.0	3.66	2.33	2.89 YES
L0042087	0	0.34750E-07	441611.6	3760466.7	200.0	3.66	2.33	2.89 YES
L0042088	0	0.34750E-07	441616.6	3760466.7	200.1	3.66	2.33	2.89 YES
L0042089	0	0.34750E-07	441621.6	3760466.7	200.1	3.66	2.33	2.89 YES
L0042090	0	0.34750E-07	441626.6	3760466.7	200.1	3.66	2.33	2.89 YES
L0042091	0	0.34750E-07	441631.6	3760466.8	200.1	3.66	2.33	2.89 YES
L0042092	0	0.34750E-07	441636.6	3760466.8	200.1	3.66	2.33	2.89 YES
L0042093	0	0.34750E-07	441641.6	3760466.8	200.2	3.66	2.33	2.89 YES
L0042094	0	0.34750E-07	441646.6	3760466.8	200.2	3.66	2.33	2.89 YES
L0042095	0	0.34750E-07	441651.6	3760466.8	200.1	3.66	2.33	2.89 YES
L0042096	0	0.34750E-07	441656.6	3760466.9	200.1	3.66	2.33	2.89 YES
L0042097	0	0.34750E-07	441661.6	3760466.9	200.1	3.66	2.33	2.89 YES
L0042098	0	0.34750E-07	441666.6	3760466.9	200.1	3.66	2.33	2.89 YES
L0042099	0	0.34750E-07	441671.6	3760466.9	200.1	3.66	2.33	2.89 YES

```
 L0042100         0   0.34750E-07  441676.6 3760467.0   200.1     3.66     2.33
2.89     YES
 L0042101         0   0.34750E-07  441681.6 3760467.0   200.1     3.66     2.33
2.89     YES
 L0042102         0   0.34750E-07  441686.6 3760467.0   200.1     3.66     2.33
2.89     YES
 L0042103         0   0.34750E-07  441691.6 3760467.0   200.1     3.66     2.33
2.89     YES
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0042104         0   0.34750E-07  441696.6 3760467.1   200.1     3.66     2.33
2.89     YES
 L0042105         0   0.34750E-07  441701.6 3760467.1   200.1     3.66     2.33
2.89     YES
 L0042106         0   0.34750E-07  441706.6 3760467.1   200.1     3.66     2.33
2.89     YES
 L0042107         0   0.34750E-07  441711.6 3760467.1   200.1     3.66     2.33
2.89     YES
 L0042108         0   0.34750E-07  441716.6 3760467.2   200.1     3.66     2.33
2.89     YES
 L0042109         0   0.34750E-07  441721.6 3760467.2   200.1     3.66     2.33
2.89     YES
 L0042110         0   0.34750E-07  441726.6 3760467.2   200.1     3.66     2.33
2.89     YES
 L0042111         0   0.34750E-07  441731.6 3760467.2   200.1     3.66     2.33
2.89     YES
 L0042112         0   0.34750E-07  441736.6 3760467.3   200.1     3.66     2.33
2.89     YES
 L0042113         0   0.34750E-07  441741.6 3760467.3   200.1     3.66     2.33
2.89     YES
```

L0042114	0	0.34750E-07	441746.6	3760467.3	200.0	3.66	2.33	2.89 YES
L0042115	0	0.23200E-07	441750.4	3760467.6	200.0	3.66	2.33	2.89 YES
L0042116	0	0.23200E-07	441755.4	3760467.6	200.0	3.66	2.33	2.89 YES
L0042117	0	0.23200E-07	441760.4	3760467.5	200.0	3.66	2.33	2.89 YES
L0042118	0	0.23200E-07	441765.4	3760467.5	200.0	3.66	2.33	2.89 YES
L0042119	0	0.23200E-07	441770.4	3760467.5	200.0	3.66	2.33	2.89 YES
L0042120	0	0.23200E-07	441775.4	3760467.5	200.1	3.66	2.33	2.89 YES
L0042121	0	0.23200E-07	441780.4	3760467.5	200.1	3.66	2.33	2.89 YES
L0042122	0	0.23200E-07	441785.4	3760467.4	200.1	3.66	2.33	2.89 YES
L0042123	0	0.23200E-07	441790.4	3760467.4	200.1	3.66	2.33	2.89 YES
L0042124	0	0.23200E-07	441795.4	3760467.4	200.1	3.66	2.33	2.89 YES
L0042125	0	0.23200E-07	441800.4	3760467.4	200.1	3.66	2.33	2.89 YES
L0042126	0	0.23200E-07	441805.4	3760467.3	200.1	3.66	2.33	2.89 YES
L0042127	0	0.23200E-07	441810.4	3760467.3	200.1	3.66	2.33	2.89 YES
L0042128	0	0.23200E-07	441815.4	3760467.3	200.1	3.66	2.33	2.89 YES
L0042129	0	0.23200E-07	441820.4	3760467.3	200.1	3.66	2.33	2.89 YES
L0042130	0	0.23200E-07	441825.4	3760467.3	200.1	3.66	2.33	2.89 YES
L0042131	0	0.23200E-07	441830.4	3760467.2	200.1	3.66	2.33	2.89 YES
L0042132	0	0.23200E-07	441835.4	3760467.2	200.1	3.66	2.33	2.89 YES
L0042133	0	0.23200E-07	441840.4	3760467.2	200.1	3.66	2.33	2.89 YES
L0042134	0	0.23200E-07	441845.4	3760467.2	200.1	3.66	2.33	2.89 YES
L0042135	0	0.23200E-07	441850.4	3760467.2	200.1	3.66	2.33	2.89 YES
L0042136	0	0.23200E-07	441855.4	3760467.1	200.1	3.66	2.33	2.89 YES
L0042137	0	0.23200E-07	441860.4	3760467.1	200.1	3.66	2.33	2.89 YES

 L0042138   0   0.23200E-07 441865.4 3760467.1   200.1   3.66   2.33
2.89   YES
 L0042139   0   0.23200E-07 441870.4 3760467.1   200.1   3.66   2.33
2.89   YES
 L0042140   0   0.23200E-07 441875.4 3760467.0   200.1   3.66   2.33
2.89   YES
 L0042141   0   0.23200E-07 441880.4 3760467.0   200.1   3.66   2.33
2.89   YES
 L0042142   0   0.23200E-07 441885.4 3760467.0   200.1   3.66   2.33
2.89   YES
 L0042143   0   0.23200E-07 441890.4 3760467.0   200.1   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** VOLUME SOURCE DATA ***

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

L0042152	0	0.23200E-07	441935.4	3760466.8	200.2	3.66	2.33	2.89 YES
L0042153	0	0.23200E-07	441940.4	3760466.8	200.2	3.66	2.33	2.89 YES
L0042154	0	0.23200E-07	441945.4	3760466.7	200.2	3.66	2.33	2.89 YES
L0042155	0	0.23200E-07	441950.4	3760466.7	200.2	3.66	2.33	2.89 YES
L0042156	0	0.23200E-07	441955.4	3760466.7	200.2	3.66	2.33	2.89 YES
L0042157	0	0.23200E-07	441960.4	3760466.7	200.2	3.66	2.33	2.89 YES
L0042158	0	0.23200E-07	441965.4	3760466.6	200.1	3.66	2.33	2.89 YES
L0042159	0	0.23200E-07	441970.4	3760466.6	200.1	3.66	2.33	2.89 YES
L0042160	0	0.23200E-07	441975.4	3760466.6	200.0	3.66	2.33	2.89 YES
L0042161	0	0.23200E-07	441980.4	3760466.6	200.0	3.66	2.33	2.89 YES
L0042162	0	0.23200E-07	441985.4	3760466.6	200.0	3.66	2.33	2.89 YES
L0042163	0	0.23200E-07	441990.4	3760466.5	199.9	3.66	2.33	2.89 YES
L0042164	0	0.23200E-07	441995.4	3760466.5	199.9	3.66	2.33	2.89 YES
L0042165	0	0.12040E-06	441189.8	3760472.8	198.9	3.66	2.33	2.89 YES
L0042166	0	0.12040E-06	441189.8	3760477.8	198.9	3.66	2.33	2.89 YES
L0042167	0	0.12040E-06	441189.8	3760482.8	199.0	3.66	2.33	2.89 YES
L0042168	0	0.12040E-06	441189.8	3760487.8	199.0	3.66	2.33	2.89 YES
L0042169	0	0.12040E-06	441189.8	3760492.8	199.1	3.66	2.33	2.89 YES
L0042170	0	0.12040E-06	441189.8	3760497.8	199.1	3.66	2.33	2.89 YES
L0042171	0	0.12040E-06	441189.8	3760502.8	199.2	3.66	2.33	2.89 YES
L0042172	0	0.12040E-06	441189.8	3760507.8	199.2	3.66	2.33	2.89 YES
L0042173	0	0.12040E-06	441189.8	3760512.8	199.3	3.66	2.33	2.89 YES
L0042174	0	0.12040E-06	441189.8	3760517.8	199.4	3.66	2.33	2.89 YES
L0042175	0	0.12040E-06	441189.8	3760522.8	199.4	3.66	2.33	2.89 YES

```
 L0042176         0   0.12040E-06  441189.8 3760527.8   199.5     3.66     2.33
2.89     YES
 L0042177         0   0.12040E-06  441189.8 3760532.8   199.6     3.66     2.33
2.89     YES
 L0042178         0   0.12040E-06  441189.8 3760537.8   199.6     3.66     2.33
2.89     YES
 L0042179         0   0.12040E-06  441189.8 3760542.8   199.7     3.66     2.33
2.89     YES
 L0042180         0   0.12040E-06  441189.8 3760547.8   199.7     3.66     2.33
2.89     YES
 L0042181         0   0.12040E-06  441189.9 3760552.8   199.7     3.66     2.33
2.89     YES
 L0042182         0   0.12040E-06  441189.9 3760557.8   199.8     3.66     2.33
2.89     YES
 L0042183         0   0.12040E-06  441189.9 3760562.8   199.8     3.66     2.33
2.89     YES
```



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                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0042184         0   0.12040E-06  441189.9 3760567.8   199.8     3.66     2.33
2.89     YES
 L0042185         0   0.12040E-06  441189.9 3760572.8   199.9     3.66     2.33
2.89     YES
 L0042186         0   0.12040E-06  441189.9 3760577.8   199.9     3.66     2.33
2.89     YES
 L0042187         0   0.12040E-06  441189.9 3760582.8   199.9     3.66     2.33
2.89     YES
 L0042188         0   0.12040E-06  441190.0 3760587.8   200.0     3.66     2.33
2.89     YES
 L0042189         0   0.12040E-06  441190.0 3760592.8   200.0     3.66     2.33
2.89     YES
```

L0042190	0	0.12040E-06	441190.0	3760597.8	200.1	3.66	2.33	2.89 YES
L0042191	0	0.12040E-06	441190.0	3760602.8	200.1	3.66	2.33	2.89 YES
L0042192	0	0.12040E-06	441190.0	3760607.8	200.1	3.66	2.33	2.89 YES
L0042193	0	0.12040E-06	441190.0	3760612.8	200.2	3.66	2.33	2.89 YES
L0042194	0	0.12040E-06	441190.0	3760617.8	200.2	3.66	2.33	2.89 YES
L0042195	0	0.12040E-06	441190.1	3760622.8	200.2	3.66	2.33	2.89 YES
L0042196	0	0.12040E-06	441190.1	3760627.8	200.3	3.66	2.33	2.89 YES
L0042197	0	0.12040E-06	441190.1	3760632.8	200.3	3.66	2.33	2.89 YES
L0042198	0	0.12040E-06	441190.1	3760637.8	200.3	3.66	2.33	2.89 YES
L0042199	0	0.12040E-06	441190.1	3760642.8	200.4	3.66	2.33	2.89 YES
L0042200	0	0.12040E-06	441190.1	3760647.8	200.4	3.66	2.33	2.89 YES
L0042201	0	0.12040E-06	441190.1	3760652.8	200.4	3.66	2.33	2.89 YES
L0042202	0	0.12040E-06	441190.2	3760657.8	200.4	3.66	2.33	2.89 YES
L0042203	0	0.12040E-06	441190.2	3760662.8	200.5	3.66	2.33	2.89 YES
L0042204	0	0.12040E-06	441190.2	3760667.8	200.5	3.66	2.33	2.89 YES
L0042205	0	0.12040E-06	441190.2	3760672.8	200.5	3.66	2.33	2.89 YES
L0042206	0	0.12040E-06	441190.2	3760677.8	200.5	3.66	2.33	2.89 YES
L0042207	0	0.12040E-06	441190.2	3760682.8	200.6	3.66	2.33	2.89 YES
L0042208	0	0.12040E-06	441190.2	3760687.8	200.6	3.66	2.33	2.89 YES
L0042209	0	0.12040E-06	441190.3	3760692.8	200.6	3.66	2.33	2.89 YES
L0042210	0	0.12040E-06	441190.3	3760697.8	200.7	3.66	2.33	2.89 YES
L0042211	0	0.12040E-06	441190.3	3760702.8	200.7	3.66	2.33	2.89 YES
L0042212	0	0.12040E-06	441190.3	3760707.8	200.7	3.66	2.33	2.89 YES
L0042213	0	0.12040E-06	441190.3	3760712.8	200.7	3.66	2.33	2.89 YES

```
 L0042214         0   0.12040E-06  441190.3 3760717.8   200.8     3.66     2.33
2.89     YES
 L0042215         0   0.12040E-06  441190.3 3760722.8   200.8     3.66     2.33
2.89     YES
 L0042216         0   0.12040E-06  441190.4 3760727.8   200.8     3.66     2.33
2.89     YES
 L0042217         0   0.12040E-06  441190.4 3760732.8   200.8     3.66     2.33
2.89     YES
 L0042218         0   0.12040E-06  441190.4 3760737.8   200.9     3.66     2.33
2.89     YES
 L0042219         0   0.12040E-06  441190.4 3760742.8   200.9     3.66     2.33
2.89     YES
 L0042220         0   0.12040E-06  441190.4 3760747.8   200.9     3.66     2.33
2.89     YES
 L0042221         0   0.12040E-06  441190.4 3760752.8   200.9     3.66     2.33
2.89     YES
 L0042222         0   0.12040E-06  441190.5 3760757.8   201.0     3.66     2.33
2.89     YES
 L0042223         0   0.12040E-06  441190.5 3760762.8   201.0     3.66     2.33
2.89     YES
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0042224	0	0.12040E-06	441190.5	3760767.8	201.0	3.66	2.33	2.89	YES	
L0042225	0	0.12040E-06	441190.5	3760772.8	201.0	3.66	2.33	2.89	YES	
L0042226	0	0.12040E-06	441190.5	3760777.8	201.1	3.66	2.33	2.89	YES	
L0042227	0	0.12040E-06	441190.5	3760782.8	201.1	3.66	2.33	2.89	YES	

L0042228	0	0.12040E-06	441190.5	3760787.8	201.1	3.66	2.33	2.89 YES
L0042229	0	0.12040E-06	441190.6	3760792.8	201.1	3.66	2.33	2.89 YES
L0042230	0	0.12040E-06	441190.6	3760797.8	201.1	3.66	2.33	2.89 YES
L0042231	0	0.12040E-06	441190.6	3760802.8	201.2	3.66	2.33	2.89 YES
L0042232	0	0.12040E-06	441190.6	3760807.8	201.2	3.66	2.33	2.89 YES
L0042233	0	0.12040E-06	441190.6	3760812.8	201.2	3.66	2.33	2.89 YES
L0042234	0	0.12040E-06	441190.6	3760817.8	201.2	3.66	2.33	2.89 YES
L0042235	0	0.12040E-06	441190.6	3760822.8	201.2	3.66	2.33	2.89 YES
L0042236	0	0.12040E-06	441190.7	3760827.8	201.2	3.66	2.33	2.89 YES
L0042237	0	0.12040E-06	441190.7	3760832.8	201.3	3.66	2.33	2.89 YES
L0042238	0	0.12040E-06	441190.7	3760837.8	201.3	3.66	2.33	2.89 YES
L0042239	0	0.12040E-06	441190.7	3760842.8	201.3	3.66	2.33	2.89 YES
L0042240	0	0.12040E-06	441190.7	3760847.8	201.3	3.66	2.33	2.89 YES
L0042241	0	0.12040E-06	441190.7	3760852.8	201.4	3.66	2.33	2.89 YES
L0042242	0	0.12040E-06	441190.7	3760857.8	201.4	3.66	2.33	2.89 YES
L0042243	0	0.12040E-06	441190.8	3760862.8	201.4	3.66	2.33	2.89 YES
L0042244	0	0.12040E-06	441190.8	3760867.8	201.4	3.66	2.33	2.89 YES
L0042245	0	0.12040E-06	441190.8	3760872.8	201.4	3.66	2.33	2.89 YES
L0042246	0	0.86670E-07	441190.7	3760875.9	201.4	3.66	2.33	2.89 YES
L0042247	0	0.86670E-07	441190.7	3760880.9	201.5	3.66	2.33	2.89 YES
L0042248	0	0.86670E-07	441190.6	3760885.9	201.5	3.66	2.33	2.89 YES
L0042249	0	0.86670E-07	441190.6	3760890.9	201.5	3.66	2.33	2.89 YES
L0042250	0	0.86670E-07	441190.6	3760895.9	201.6	3.66	2.33	2.89 YES
L0042251	0	0.86670E-07	441190.5	3760900.9	201.6	3.66	2.33	2.89 YES

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 L0042252         0   0.86670E-07  441190.5 3760905.9   201.6     3.66     2.33
2.89     YES
 L0042253         0   0.86670E-07  441190.5 3760910.9   201.7     3.66     2.33
2.89     YES
 L0042254         0   0.86670E-07  441190.5 3760915.9   201.7     3.66     2.33
2.89     YES
 L0042255         0   0.86670E-07  441190.4 3760920.9   201.7     3.66     2.33
2.89     YES
 L0042256         0   0.86670E-07  441190.4 3760925.9   201.8     3.66     2.33
2.89     YES
 L0042257         0   0.86670E-07  441190.4 3760930.9   201.8     3.66     2.33
2.89     YES
 L0042258         0   0.86670E-07  441190.3 3760935.9   201.8     3.66     2.33
2.89     YES
 L0042259         0   0.86670E-07  441190.3 3760940.9   201.9     3.66     2.33
2.89     YES
 L0042260         0   0.86670E-07  441190.3 3760945.9   201.9     3.66     2.33
2.89     YES
 L0042261         0   0.86670E-07  441190.2 3760950.9   201.9     3.66     2.33
2.89     YES
 L0042262         0   0.86670E-07  441190.2 3760955.9   202.0     3.66     2.33
2.89     YES
 L0042263         0   0.86670E-07  441190.2 3760960.9   202.0     3.66     2.33
2.89     YES
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0042264	0	0.86670E-07	441190.2	3760965.9	202.0	3.66	2.33	2.89	YES	
L0042265	0	0.86670E-07	441190.1	3760970.9	202.1	3.66	2.33	2.89	YES	

L0042266	0	0.86670E-07	441190.1	3760975.9	202.1	3.66	2.33	2.89 YES
L0042267	0	0.86670E-07	441190.1	3760980.9	202.1	3.66	2.33	2.89 YES
L0042268	0	0.86670E-07	441190.0	3760985.9	202.1	3.66	2.33	2.89 YES
L0042269	0	0.86670E-07	441190.0	3760990.9	202.2	3.66	2.33	2.89 YES
L0042270	0	0.86670E-07	441190.0	3760995.9	202.2	3.66	2.33	2.89 YES
L0042271	0	0.86670E-07	441190.0	3761000.9	202.2	3.66	2.33	2.89 YES
L0042272	0	0.86670E-07	441189.9	3761005.9	202.3	3.66	2.33	2.89 YES
L0042273	0	0.86670E-07	441189.9	3761010.9	202.3	3.66	2.33	2.89 YES
L0042274	0	0.86670E-07	441189.9	3761015.9	202.3	3.66	2.33	2.89 YES
L0042275	0	0.86670E-07	441189.8	3761020.9	202.4	3.66	2.33	2.89 YES
L0042276	0	0.86670E-07	441189.8	3761025.9	202.4	3.66	2.33	2.89 YES
L0042277	0	0.86670E-07	441189.8	3761030.9	202.5	3.66	2.33	2.89 YES
L0042278	0	0.86670E-07	441189.7	3761035.9	202.5	3.66	2.33	2.89 YES
L0042279	0	0.86670E-07	441189.7	3761040.9	202.5	3.66	2.33	2.89 YES
L0042280	0	0.86670E-07	441189.7	3761045.9	202.6	3.66	2.33	2.89 YES
L0042281	0	0.86670E-07	441189.7	3761050.9	202.6	3.66	2.33	2.89 YES
L0042282	0	0.86670E-07	441189.6	3761055.9	202.6	3.66	2.33	2.89 YES
L0042283	0	0.86670E-07	441189.6	3761060.9	202.7	3.66	2.33	2.89 YES
L0042284	0	0.86670E-07	441189.6	3761065.9	202.7	3.66	2.33	2.89 YES
L0042285	0	0.86670E-07	441189.5	3761070.9	202.7	3.66	2.33	2.89 YES
L0042286	0	0.86670E-07	441189.5	3761075.9	202.7	3.66	2.33	2.89 YES
L0042287	0	0.86670E-07	441189.5	3761080.9	202.7	3.66	2.33	2.89 YES
L0042288	0	0.86670E-07	441189.5	3761085.9	202.8	3.66	2.33	2.89 YES
L0042289	0	0.86670E-07	441189.4	3761090.9	202.8	3.66	2.33	2.89 YES

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 L0042290         0   0.86670E-07  441189.4 3761095.9   202.8     3.66     2.33
2.89     YES
 L0042291         0   0.86670E-07  441189.4 3761100.9   202.8     3.66     2.33
2.89     YES
 L0042292         0   0.86670E-07  441189.3 3761105.9   202.9     3.66     2.33
2.89     YES
 L0042293         0   0.86670E-07  441189.3 3761110.9   202.9     3.66     2.33
2.89     YES
 L0042294         0   0.86670E-07  441189.3 3761115.9   202.9     3.66     2.33
2.89     YES
 L0042295         0   0.86670E-07  441189.3 3761120.9   202.9     3.66     2.33
2.89     YES
 L0042296         0   0.86670E-07  441189.2 3761125.9   203.0     3.66     2.33
2.89     YES
 L0042297         0   0.86670E-07  441189.2 3761130.9   203.0     3.66     2.33
2.89     YES
 L0042298         0   0.86670E-07  441189.2 3761135.9   203.0     3.66     2.33
2.89     YES
 L0042299         0   0.86670E-07  441189.1 3761140.9   203.0     3.66     2.33
2.89     YES
 L0042300         0   0.56400E-07  441189.0 3761144.4   203.1     3.66     2.33
2.89     YES
 L0042301         0   0.56400E-07  441189.0 3761149.4   203.1     3.66     2.33
2.89     YES
 L0042302         0   0.56400E-07  441189.0 3761154.4   203.1     3.66     2.33
2.89     YES
 L0042303         0   0.56400E-07  441189.1 3761159.4   203.1     3.66     2.33
2.89     YES
↑ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
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L0042304	0	0.56400E-07	441189.1	3761164.4	203.2	3.66	2.33	2.89 YES
L0042305	0	0.56400E-07	441189.1	3761169.4	203.2	3.66	2.33	2.89 YES
L0042306	0	0.56400E-07	441189.1	3761174.4	203.2	3.66	2.33	2.89 YES
L0042307	0	0.56400E-07	441189.1	3761179.4	203.2	3.66	2.33	2.89 YES
L0042308	0	0.56400E-07	441189.1	3761184.4	203.3	3.66	2.33	2.89 YES
L0042309	0	0.56400E-07	441189.1	3761189.4	203.3	3.66	2.33	2.89 YES
L0042310	0	0.56400E-07	441189.1	3761194.4	203.4	3.66	2.33	2.89 YES
L0042311	0	0.56400E-07	441189.1	3761199.4	203.4	3.66	2.33	2.89 YES
L0042312	0	0.56400E-07	441189.1	3761204.4	203.4	3.66	2.33	2.89 YES
L0042313	0	0.56400E-07	441189.1	3761209.4	203.5	3.66	2.33	2.89 YES
L0042314	0	0.56400E-07	441189.1	3761214.4	203.5	3.66	2.33	2.89 YES
L0042315	0	0.56400E-07	441189.2	3761219.4	203.5	3.66	2.33	2.89 YES
L0042316	0	0.56400E-07	441189.2	3761224.4	203.6	3.66	2.33	2.89 YES
L0042317	0	0.56400E-07	441189.2	3761229.4	203.6	3.66	2.33	2.89 YES
L0042318	0	0.56400E-07	441189.2	3761234.4	203.7	3.66	2.33	2.89 YES
L0042319	0	0.56400E-07	441189.2	3761239.4	203.7	3.66	2.33	2.89 YES
L0042320	0	0.56400E-07	441189.2	3761244.4	203.8	3.66	2.33	2.89 YES
L0042321	0	0.56400E-07	441189.2	3761249.4	203.8	3.66	2.33	2.89 YES
L0042322	0	0.56400E-07	441189.2	3761254.4	203.9	3.66	2.33	2.89 YES
L0042323	0	0.56400E-07	441189.2	3761259.4	203.9	3.66	2.33	2.89 YES
L0042324	0	0.56400E-07	441189.2	3761264.4	204.0	3.66	2.33	2.89 YES
L0042325	0	0.41950E-07	441995.2	3760472.0	200.0	3.66	2.33	2.89 YES
L0042326	0	0.41950E-07	441995.1	3760477.0	200.0	3.66	2.33	2.89 YES
L0042327	0	0.41950E-07	441995.1	3760482.0	200.1	3.66	2.33	2.89 YES

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 L0042328         0   0.41950E-07  441995.0 3760487.0   200.1     3.66     2.33
2.89     YES
 L0042329         0   0.41950E-07  441995.0 3760492.0   200.2     3.66     2.33
2.89     YES
 L0042330         0   0.41950E-07  441995.0 3760497.0   200.2     3.66     2.33
2.89     YES
 L0042331         0   0.41950E-07  441994.9 3760502.0   200.3     3.66     2.33
2.89     YES
 L0042332         0   0.41950E-07  441994.9 3760507.0   200.3     3.66     2.33
2.89     YES
 L0042333         0   0.41950E-07  441994.9 3760512.0   200.4     3.66     2.33
2.89     YES
 L0042334         0   0.41950E-07  441994.8 3760517.0   200.4     3.66     2.33
2.89     YES
 L0042335         0   0.41950E-07  441994.8 3760522.0   200.4     3.66     2.33
2.89     YES
 L0042336         0   0.41950E-07  441994.8 3760527.0   200.5     3.66     2.33
2.89     YES
 L0042337         0   0.41950E-07  441994.8 3760532.0   200.5     3.66     2.33
2.89     YES
 L0042338         0   0.41950E-07  441994.8 3760537.0   200.5     3.66     2.33
2.89     YES
 L0042339         0   0.41950E-07  441994.8 3760542.0   200.6     3.66     2.33
2.89     YES
 L0042340         0   0.41950E-07  441994.8 3760547.0   200.6     3.66     2.33
2.89     YES
 L0042341         0   0.41950E-07  441994.8 3760552.0   200.6     3.66     2.33
2.89     YES
 L0042342         0   0.41950E-07  441994.8 3760557.0   200.6     3.66     2.33
2.89     YES
 L0042343         0   0.41950E-07  441994.9 3760562.0   200.7     3.66     2.33
2.89     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

(METERS) BY

- - - -

L0042366	0	0.41950E-07	441995.0	3760677.0	201.4	3.66	2.33	2.89 YES
L0042367	0	0.41950E-07	441995.0	3760682.0	201.4	3.66	2.33	2.89 YES
L0042368	0	0.41950E-07	441995.0	3760687.0	201.4	3.66	2.33	2.89 YES
L0042369	0	0.41950E-07	441995.0	3760692.0	201.5	3.66	2.33	2.89 YES
L0042370	0	0.41950E-07	441995.0	3760697.0	201.5	3.66	2.33	2.89 YES
L0042371	0	0.41950E-07	441995.0	3760702.0	201.5	3.66	2.33	2.89 YES
L0042372	0	0.41950E-07	441995.0	3760707.0	201.6	3.66	2.33	2.89 YES
L0042373	0	0.41950E-07	441995.0	3760712.0	201.6	3.66	2.33	2.89 YES
L0042374	0	0.41950E-07	441995.0	3760717.0	201.6	3.66	2.33	2.89 YES
L0042375	0	0.41950E-07	441995.1	3760722.0	201.7	3.66	2.33	2.89 YES
L0042376	0	0.41950E-07	441995.1	3760727.0	201.7	3.66	2.33	2.89 YES
L0042377	0	0.41950E-07	441995.1	3760732.0	201.8	3.66	2.33	2.89 YES
L0042378	0	0.41950E-07	441995.1	3760737.0	201.8	3.66	2.33	2.89 YES
L0042379	0	0.41950E-07	441995.1	3760742.0	201.8	3.66	2.33	2.89 YES
L0042380	0	0.41950E-07	441995.1	3760747.0	201.9	3.66	2.33	2.89 YES
L0042381	0	0.41950E-07	441995.1	3760752.0	201.9	3.66	2.33	2.89 YES
L0042382	0	0.41950E-07	441995.1	3760757.0	201.9	3.66	2.33	2.89 YES
L0042383	0	0.41950E-07	441995.1	3760762.0	202.0	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT.

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE SCALAR VARY BY
L0042384	0	0.41950E-07	441995.1	3760767.0	202.0	3.66	2.33	2.89	YES
L0042385	0	0.41950E-07	441995.1	3760772.0	202.0	3.66	2.33	2.89	YES
L0042386	0	0.41950E-07	441995.1	3760777.0	202.1	3.66	2.33	2.89	YES
L0042387	0	0.41950E-07	441995.1	3760782.0	202.1	3.66	2.33	2.89	YES
L0042388	0	0.41950E-07	441995.1	3760787.0	202.1	3.66	2.33	2.89	YES
L0042389	0	0.41950E-07	441995.1	3760792.0	202.1	3.66	2.33	2.89	YES
L0042390	0	0.41950E-07	441995.1	3760797.0	202.2	3.66	2.33	2.89	YES
L0042391	0	0.41950E-07	441995.2	3760802.0	202.2	3.66	2.33	2.89	YES
L0042392	0	0.41950E-07	441995.2	3760807.0	202.2	3.66	2.33	2.89	YES
L0042393	0	0.41950E-07	441995.2	3760812.0	202.2	3.66	2.33	2.89	YES
L0042394	0	0.41950E-07	441995.2	3760817.0	202.2	3.66	2.33	2.89	YES
L0042395	0	0.41950E-07	441995.2	3760822.0	202.3	3.66	2.33	2.89	YES
L0042396	0	0.41950E-07	441995.2	3760827.0	202.3	3.66	2.33	2.89	YES
L0042397	0	0.41950E-07	441995.2	3760832.0	202.3	3.66	2.33	2.89	YES
L0042398	0	0.41950E-07	441995.2	3760837.0	202.4	3.66	2.33	2.89	YES
L0042399	0	0.41950E-07	441995.2	3760842.0	202.4	3.66	2.33	2.89	YES
L0042400	0	0.41950E-07	441995.2	3760847.0	202.4	3.66	2.33	2.89	YES
L0042401	0	0.41950E-07	441995.2	3760852.0	202.5	3.66	2.33	2.89	YES
L0042402	0	0.80080E-08	441995.0	3760856.2	202.5	3.66	2.33	2.89	YES
L0042403	0	0.80080E-08	441994.9	3760861.2	202.5	3.66	2.33	2.89	YES

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 L0042404         0   0.80080E-08  441994.9 3760866.2   202.6     3.66     2.33
2.89     YES
 L0042405         0   0.80080E-08  441994.9 3760871.2   202.6     3.66     2.33
2.89     YES
 L0042406         0   0.80080E-08  441994.9 3760876.2   202.6     3.66     2.33
2.89     YES
 L0042407         0   0.80080E-08  441994.9 3760881.2   202.7     3.66     2.33
2.89     YES
 L0042408         0   0.80080E-08  441994.9 3760886.2   202.7     3.66     2.33
2.89     YES
 L0042409         0   0.80080E-08  441994.9 3760891.2   202.7     3.66     2.33
2.89     YES
 L0042410         0   0.80080E-08  441994.9 3760896.2   202.8     3.66     2.33
2.89     YES
 L0042411         0   0.80080E-08  441994.8 3760901.2   202.8     3.66     2.33
2.89     YES
 L0042412         0   0.80080E-08  441994.8 3760906.2   202.9     3.66     2.33
2.89     YES
 L0042413         0   0.80080E-08  441994.8 3760911.2   202.9     3.66     2.33
2.89     YES
 L0042414         0   0.80080E-08  441994.8 3760916.2   202.9     3.66     2.33
2.89     YES
 L0042415         0   0.80080E-08  441994.8 3760921.2   203.0     3.66     2.33
2.89     YES
 L0042416         0   0.80080E-08  441994.8 3760926.2   203.0     3.66     2.33
2.89     YES
 L0042417         0   0.80080E-08  441994.8 3760931.2   203.1     3.66     2.33
2.89     YES
 L0042418         0   0.80080E-08  441994.8 3760936.2   203.1     3.66     2.33
2.89     YES
 L0042419         0   0.80080E-08  441994.8 3760941.2   203.1     3.66     2.33
2.89     YES
 L0042420         0   0.80080E-08  441994.7 3760946.2   203.2     3.66     2.33
2.89     YES
 L0042421         0   0.80080E-08  441994.7 3760951.2   203.2     3.66     2.33
2.89     YES
 L0042422         0   0.80080E-08  441994.7 3760956.2   203.2     3.66     2.33
2.89     YES
 L0042423         0   0.80080E-08  441994.7 3760961.2   203.3     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0042424	0	0.80080E-08	441994.7	3760966.2	203.3	3.66	2.33	2.89	YES	
L0042425	0	0.80080E-08	441994.7	3760971.2	203.3	3.66	2.33	2.89	YES	
L0042426	0	0.80080E-08	441994.7	3760976.2	203.4	3.66	2.33	2.89	YES	
L0042427	0	0.80080E-08	441994.7	3760981.2	203.4	3.66	2.33	2.89	YES	
L0042428	0	0.80080E-08	441994.6	3760986.2	203.4	3.66	2.33	2.89	YES	
L0042429	0	0.80080E-08	441994.6	3760991.2	203.5	3.66	2.33	2.89	YES	
L0042430	0	0.80080E-08	441994.6	3760996.2	203.5	3.66	2.33	2.89	YES	
L0042431	0	0.80080E-08	441994.6	3761001.2	203.5	3.66	2.33	2.89	YES	
L0042432	0	0.80080E-08	441994.6	3761006.2	203.6	3.66	2.33	2.89	YES	
L0042433	0	0.80080E-08	441994.6	3761011.2	203.6	3.66	2.33	2.89	YES	
L0042434	0	0.80080E-08	441994.6	3761016.2	203.6	3.66	2.33	2.89	YES	
L0042435	0	0.80080E-08	441994.6	3761021.2	203.7	3.66	2.33	2.89	YES	
L0042436	0	0.80080E-08	441994.5	3761026.2	203.7	3.66	2.33	2.89	YES	
L0042437	0	0.80080E-08	441994.5	3761031.2	203.7	3.66	2.33	2.89	YES	
L0042438	0	0.80080E-08	441994.5	3761036.2	203.7	3.66	2.33	2.89	YES	
L0042439	0	0.80080E-08	441994.5	3761041.2	203.8	3.66	2.33	2.89	YES	
L0042440	0	0.80080E-08	441994.5	3761046.2	203.8	3.66	2.33	2.89	YES	
L0042441	0	0.80080E-08	441994.5	3761051.2	203.8	3.66	2.33	2.89	YES	

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 L0042442         0   0.80080E-08  441994.5 3761056.2   203.8     3.66     2.33
2.89     YES
 L0042443         0   0.80080E-08  441994.5 3761061.2   203.9     3.66     2.33
2.89     YES
 L0042444         0   0.80080E-08  441994.5 3761066.2   203.9     3.66     2.33
2.89     YES
 L0042445         0   0.80080E-08  441994.4 3761071.2   203.9     3.66     2.33
2.89     YES
 L0042446         0   0.80080E-08  441994.4 3761076.2   203.9     3.66     2.33
2.89     YES
 L0042447         0   0.80080E-08  441994.4 3761081.2   204.0     3.66     2.33
2.89     YES
 L0042448         0   0.80080E-08  441994.4 3761086.2   204.0     3.66     2.33
2.89     YES
 L0042449         0   0.80080E-08  441994.4 3761091.2   204.0     3.66     2.33
2.89     YES
 L0042450         0   0.80080E-08  441994.4 3761096.2   204.1     3.66     2.33
2.89     YES
 L0042451         0   0.80080E-08  441994.4 3761101.2   204.1     3.66     2.33
2.89     YES
 L0042452         0   0.80080E-08  441994.4 3761106.2   204.1     3.66     2.33
2.89     YES
 L0042453         0   0.80080E-08  441994.4 3761111.2   204.2     3.66     2.33
2.89     YES
 L0042454         0   0.80080E-08  441994.4 3761116.2   204.2     3.66     2.33
2.89     YES
 L0042455         0   0.80080E-08  441994.4 3761121.2   204.2     3.66     2.33
2.89     YES
 L0042456         0   0.80080E-08  441994.4 3761126.2   204.2     3.66     2.33
2.89     YES
 L0042457         0   0.80080E-08  441994.4 3761131.2   204.3     3.66     2.33
2.89     YES
 L0042458         0   0.80080E-08  441994.4 3761136.2   204.3     3.66     2.33
2.89     YES
 L0042459         0   0.80080E-08  441994.4 3761141.2   204.3     3.66     2.33
2.89     YES
 L0042460         0   0.80080E-08  441994.4 3761146.2   204.4     3.66     2.33
2.89     YES
 L0042461         0   0.80080E-08  441994.4 3761151.2   204.4     3.66     2.33
2.89     YES
 L0042462         0   0.80080E-08  441994.4 3761156.2   204.5     3.66     2.33
2.89     YES
 L0042463         0   0.80080E-08  441994.4 3761161.2   204.5     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0042464	0	0.80080E-08	441994.4	3761166.2	204.5	3.66	2.33	2.89	YES	
L0042465	0	0.80080E-08	441994.4	3761171.2	204.6	3.66	2.33	2.89	YES	
L0042466	0	0.80080E-08	441994.4	3761176.2	204.6	3.66	2.33	2.89	YES	
L0042467	0	0.80080E-08	441994.4	3761181.2	204.7	3.66	2.33	2.89	YES	
L0042468	0	0.80080E-08	441994.4	3761186.2	204.7	3.66	2.33	2.89	YES	
L0042469	0	0.80080E-08	441994.4	3761191.2	204.8	3.66	2.33	2.89	YES	
L0042470	0	0.80080E-08	441994.4	3761196.2	204.8	3.66	2.33	2.89	YES	
L0042471	0	0.80080E-08	441994.4	3761201.2	204.9	3.66	2.33	2.89	YES	
L0042472	0	0.80080E-08	441994.4	3761206.2	205.0	3.66	2.33	2.89	YES	
L0042473	0	0.80080E-08	441994.4	3761211.2	205.0	3.66	2.33	2.89	YES	
L0042474	0	0.80080E-08	441994.4	3761216.2	205.0	3.66	2.33	2.89	YES	
L0042475	0	0.80080E-08	441994.4	3761221.2	205.1	3.66	2.33	2.89	YES	
L0042476	0	0.80080E-08	441994.4	3761226.2	205.1	3.66	2.33	2.89	YES	
L0042477	0	0.80080E-08	441994.4	3761231.2	205.1	3.66	2.33	2.89	YES	
L0042478	0	0.80080E-08	441994.4	3761236.2	205.1	3.66	2.33	2.89	YES	
L0042479	0	0.80080E-08	441994.4	3761241.2	205.2	3.66	2.33	2.89	YES	

L0042480	0	0.80080E-08	441994.4	3761246.2	205.2	3.66	2.33	2.89 YES
L0042481	0	0.80080E-08	441994.4	3761251.2	205.2	3.66	2.33	2.89 YES
L0042482	0	0.80080E-08	441994.4	3761256.2	205.2	3.66	2.33	2.89 YES
L0042483	0	0.80080E-08	441994.4	3761261.2	205.3	3.66	2.33	2.89 YES
L0042484	0	0.80080E-08	441994.0	3761266.2	205.3	3.66	2.33	2.89 YES
L0042485	0	0.80080E-08	441991.7	3761269.9	205.4	3.66	2.33	2.89 YES
L0042486	0	0.80080E-08	441986.7	3761269.9	205.4	3.66	2.33	2.89 YES
L0042487	0	0.80080E-08	441981.7	3761269.9	205.5	3.66	2.33	2.89 YES
L0042488	0	0.80080E-08	441976.7	3761269.9	205.5	3.66	2.33	2.89 YES
L0042489	0	0.80080E-08	441971.7	3761270.0	205.6	3.66	2.33	2.89 YES
L0042490	0	0.80080E-08	441966.7	3761270.0	205.6	3.66	2.33	2.89 YES
L0042491	0	0.80080E-08	441961.7	3761270.0	205.7	3.66	2.33	2.89 YES
L0042492	0	0.80080E-08	441956.7	3761270.0	205.7	3.66	2.33	2.89 YES
L0042493	0	0.80080E-08	441951.7	3761270.1	205.7	3.66	2.33	2.89 YES
L0042494	0	0.80080E-08	441946.7	3761270.1	205.7	3.66	2.33	2.89 YES
L0042495	0	0.80080E-08	441941.7	3761270.1	205.7	3.66	2.33	2.89 YES
L0042496	0	0.80080E-08	441936.7	3761270.1	205.7	3.66	2.33	2.89 YES
L0042497	0	0.80080E-08	441931.7	3761270.2	205.8	3.66	2.33	2.89 YES
L0042498	0	0.80080E-08	441926.7	3761270.2	205.8	3.66	2.33	2.89 YES
L0042499	0	0.80080E-08	441921.7	3761270.2	205.8	3.66	2.33	2.89 YES
L0042500	0	0.80080E-08	441916.7	3761270.2	205.9	3.66	2.33	2.89 YES
L0042501	0	0.80080E-08	441911.7	3761270.3	205.9	3.66	2.33	2.89 YES
L0042502	0	0.80080E-08	441906.7	3761270.3	206.0	3.66	2.33	2.89 YES
L0042503	0	0.80080E-08	441901.7	3761270.3	206.0	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0042504	0	0.80080E-08	441896.7	3761270.3	206.0	3.66	2.33	2.89	YES	
L0042505	0	0.80080E-08	441891.7	3761270.4	206.0	3.66	2.33	2.89	YES	
L0042506	0	0.80080E-08	441886.7	3761270.4	206.0	3.66	2.33	2.89	YES	
L0042507	0	0.80080E-08	441881.7	3761270.4	206.0	3.66	2.33	2.89	YES	
L0042508	0	0.80080E-08	441876.7	3761270.4	206.0	3.66	2.33	2.89	YES	
L0042509	0	0.80080E-08	441871.7	3761270.5	206.0	3.66	2.33	2.89	YES	
L0042510	0	0.80080E-08	441866.7	3761270.5	206.0	3.66	2.33	2.89	YES	
L0042511	0	0.80080E-08	441861.7	3761270.5	206.0	3.66	2.33	2.89	YES	
L0042512	0	0.80080E-08	441856.7	3761270.6	206.0	3.66	2.33	2.89	YES	
L0042513	0	0.80080E-08	441851.7	3761270.6	206.0	3.66	2.33	2.89	YES	
L0042514	0	0.80080E-08	441846.7	3761270.6	205.9	3.66	2.33	2.89	YES	
L0042515	0	0.80080E-08	441841.7	3761270.6	205.8	3.66	2.33	2.89	YES	
L0042516	0	0.80080E-08	441836.7	3761270.7	205.8	3.66	2.33	2.89	YES	
L0042517	0	0.80080E-08	441831.7	3761270.7	205.7	3.66	2.33	2.89	YES	

L0042518	0	0.80080E-08	441826.7	3761270.7	205.7	3.66	2.33	2.89 YES
L0042519	0	0.80080E-08	441821.7	3761270.7	205.6	3.66	2.33	2.89 YES
L0042520	0	0.48610E-07	441191.4	3761269.6	204.1	3.66	2.33	2.89 YES
L0042521	0	0.48610E-07	441196.4	3761269.6	204.1	3.66	2.33	2.89 YES
L0042522	0	0.48610E-07	441201.4	3761269.6	204.2	3.66	2.33	2.89 YES
L0042523	0	0.48610E-07	441206.4	3761269.7	204.2	3.66	2.33	2.89 YES
L0042524	0	0.48610E-07	441211.4	3761269.7	204.3	3.66	2.33	2.89 YES
L0042525	0	0.48610E-07	441216.4	3761269.7	204.3	3.66	2.33	2.89 YES
L0042526	0	0.48610E-07	441221.4	3761269.7	204.3	3.66	2.33	2.89 YES
L0042527	0	0.48610E-07	441226.4	3761269.7	204.3	3.66	2.33	2.89 YES
L0042528	0	0.48610E-07	441231.4	3761269.7	204.4	3.66	2.33	2.89 YES
L0042529	0	0.48610E-07	441236.4	3761269.8	204.4	3.66	2.33	2.89 YES
L0042530	0	0.48610E-07	441241.4	3761269.8	204.4	3.66	2.33	2.89 YES
L0042531	0	0.48610E-07	441246.4	3761269.8	204.4	3.66	2.33	2.89 YES
L0042532	0	0.48610E-07	441251.4	3761269.8	204.4	3.66	2.33	2.89 YES
L0042533	0	0.48610E-07	441256.4	3761269.8	204.5	3.66	2.33	2.89 YES
L0042534	0	0.48610E-07	441261.4	3761269.9	204.5	3.66	2.33	2.89 YES
L0042535	0	0.48610E-07	441266.4	3761269.9	204.5	3.66	2.33	2.89 YES
L0042536	0	0.48610E-07	441271.4	3761269.9	204.5	3.66	2.33	2.89 YES
L0042537	0	0.48610E-07	441276.4	3761269.9	204.5	3.66	2.33	2.89 YES
L0042538	0	0.48610E-07	441281.4	3761269.9	204.5	3.66	2.33	2.89 YES
L0042539	0	0.48610E-07	441286.4	3761269.9	204.6	3.66	2.33	2.89 YES
L0042540	0	0.48610E-07	441291.4	3761270.0	204.6	3.66	2.33	2.89 YES
L0042541	0	0.48610E-07	441296.4	3761270.0	204.6	3.66	2.33	2.89 YES

 L0042542   0   0.48610E-07 441301.4 3761270.0   204.6   3.66   2.33
2.89   YES
 L0042543   0   0.48610E-07 441306.4 3761270.0   204.6   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0042544   0   0.48610E-07 441311.4 3761270.0   204.6   3.66   2.33
2.89   YES
 L0042545   0   0.48610E-07 441316.4 3761270.0   204.6   3.66   2.33
2.89   YES
 L0042546   0   0.48610E-07 441321.4 3761270.1   204.7   3.66   2.33
2.89   YES
 L0042547   0   0.48610E-07 441326.4 3761270.1   204.7   3.66   2.33
2.89   YES
 L0042548   0   0.48610E-07 441331.4 3761270.1   204.7   3.66   2.33
2.89   YES
 L0042549   0   0.48610E-07 441336.4 3761270.1   204.7   3.66   2.33
2.89   YES
 L0042550   0   0.48610E-07 441341.4 3761270.1   204.8   3.66   2.33
2.89   YES
 L0042551   0   0.48610E-07 441346.4 3761270.2   204.8   3.66   2.33
2.89   YES
 L0042552   0   0.48610E-07 441351.4 3761270.2   204.8   3.66   2.33
2.89   YES
 L0042553   0   0.48610E-07 441356.4 3761270.2   204.8   3.66   2.33
2.89   YES
 L0042554   0   0.48610E-07 441361.4 3761270.2   204.8   3.66   2.33
2.89   YES
 L0042555   0   0.48610E-07 441366.4 3761270.2   204.9   3.66   2.33
2.89   YES

L0042556	0	0.51790E-07	441370.2	3761270.3	204.9	3.66	2.33	2.89 YES
L0042557	0	0.51790E-07	441375.2	3761270.3	204.9	3.66	2.33	2.89 YES
L0042558	0	0.51790E-07	441380.2	3761270.2	204.9	3.66	2.33	2.89 YES
L0042559	0	0.51790E-07	441385.2	3761270.2	205.0	3.66	2.33	2.89 YES
L0042560	0	0.51790E-07	441390.2	3761270.2	205.0	3.66	2.33	2.89 YES
L0042561	0	0.51790E-07	441395.2	3761270.2	205.0	3.66	2.33	2.89 YES
L0042562	0	0.51790E-07	441400.2	3761270.2	205.0	3.66	2.33	2.89 YES
L0042563	0	0.51790E-07	441405.2	3761270.2	205.0	3.66	2.33	2.89 YES
L0042564	0	0.51790E-07	441410.2	3761270.2	205.0	3.66	2.33	2.89 YES
L0042565	0	0.51790E-07	441415.2	3761270.2	205.1	3.66	2.33	2.89 YES
L0042566	0	0.51790E-07	441420.2	3761270.1	205.1	3.66	2.33	2.89 YES
L0042567	0	0.51790E-07	441425.2	3761270.1	205.1	3.66	2.33	2.89 YES
L0042568	0	0.51790E-07	441430.2	3761270.1	205.0	3.66	2.33	2.89 YES
L0042569	0	0.51790E-07	441435.2	3761270.1	205.0	3.66	2.33	2.89 YES
L0042570	0	0.51790E-07	441440.2	3761270.1	205.0	3.66	2.33	2.89 YES
L0042571	0	0.51790E-07	441445.2	3761270.1	205.0	3.66	2.33	2.89 YES
L0042572	0	0.51790E-07	441450.2	3761270.1	204.9	3.66	2.33	2.89 YES
L0042573	0	0.51790E-07	441455.2	3761270.1	204.9	3.66	2.33	2.89 YES
L0042574	0	0.51790E-07	441460.2	3761270.1	204.8	3.66	2.33	2.89 YES
L0042575	0	0.51790E-07	441465.2	3761270.0	204.8	3.66	2.33	2.89 YES
L0042576	0	0.51790E-07	441470.2	3761270.0	204.7	3.66	2.33	2.89 YES
L0042577	0	0.51790E-07	441475.2	3761270.0	204.6	3.66	2.33	2.89 YES
L0042578	0	0.51790E-07	441480.2	3761270.0	204.5	3.66	2.33	2.89 YES
L0042579	0	0.51790E-07	441485.2	3761270.0	204.5	3.66	2.33	2.89 YES

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 L0042580         0   0.51790E-07  441490.2 3761270.0   204.4     3.66     2.33
2.89     YES
 L0042581         0   0.51790E-07  441495.2 3761270.0   204.4     3.66     2.33
2.89     YES
 L0042582         0   0.51790E-07  441500.2 3761270.0   204.5     3.66     2.33
2.89     YES
 L0042583         0   0.51790E-07  441505.2 3761270.0   204.6     3.66     2.33
2.89     YES
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0042584         0   0.34840E-07  441508.4 3761269.9   204.7     3.66     2.33
2.89     YES
 L0042585         0   0.34840E-07  441513.4 3761269.9   204.8     3.66     2.33
2.89     YES
 L0042586         0   0.34840E-07  441518.4 3761269.9   204.9     3.66     2.33
2.89     YES
 L0042587         0   0.34840E-07  441523.4 3761270.0   204.9     3.66     2.33
2.89     YES
 L0042588         0   0.34840E-07  441528.4 3761270.0   204.9     3.66     2.33
2.89     YES
 L0042589         0   0.34840E-07  441533.4 3761270.0   204.9     3.66     2.33
2.89     YES
 L0042590         0   0.34840E-07  441538.4 3761270.0   204.9     3.66     2.33
2.89     YES
 L0042591         0   0.34840E-07  441543.4 3761270.0   204.9     3.66     2.33
2.89     YES
 L0042592         0   0.34840E-07  441548.4 3761270.0   204.9     3.66     2.33
2.89     YES
 L0042593         0   0.34840E-07  441553.4 3761270.0   204.9     3.66     2.33
2.89     YES
```

L0042594	0	0.34840E-07	441558.4	3761270.0	205.0	3.66	2.33	2.89 YES
L0042595	0	0.34840E-07	441563.4	3761270.0	205.0	3.66	2.33	2.89 YES
L0042596	0	0.34840E-07	441568.4	3761270.0	205.0	3.66	2.33	2.89 YES
L0042597	0	0.34840E-07	441573.4	3761270.0	205.0	3.66	2.33	2.89 YES
L0042598	0	0.34840E-07	441578.4	3761270.0	205.1	3.66	2.33	2.89 YES
L0042599	0	0.34840E-07	441583.4	3761270.0	205.2	3.66	2.33	2.89 YES
L0042600	0	0.34840E-07	441588.4	3761270.0	205.2	3.66	2.33	2.89 YES
L0042601	0	0.34840E-07	441593.4	3761270.0	205.3	3.66	2.33	2.89 YES
L0042602	0	0.34840E-07	441598.4	3761270.0	205.3	3.66	2.33	2.89 YES
L0042603	0	0.34840E-07	441603.4	3761270.0	205.4	3.66	2.33	2.89 YES
L0042604	0	0.34840E-07	441608.4	3761270.0	205.5	3.66	2.33	2.89 YES
L0042605	0	0.34840E-07	441613.4	3761270.0	205.5	3.66	2.33	2.89 YES
L0042606	0	0.34840E-07	441618.4	3761270.0	205.6	3.66	2.33	2.89 YES
L0042607	0	0.34840E-07	441623.4	3761270.0	205.6	3.66	2.33	2.89 YES
L0042608	0	0.34840E-07	441628.4	3761270.0	205.6	3.66	2.33	2.89 YES
L0042609	0	0.34840E-07	441633.4	3761270.0	205.5	3.66	2.33	2.89 YES
L0042610	0	0.34840E-07	441638.4	3761270.0	205.5	3.66	2.33	2.89 YES
L0042611	0	0.34840E-07	441643.4	3761270.0	205.5	3.66	2.33	2.89 YES
L0042612	0	0.34840E-07	441648.4	3761270.0	205.4	3.66	2.33	2.89 YES
L0042613	0	0.34840E-07	441653.4	3761270.0	205.4	3.66	2.33	2.89 YES
L0042614	0	0.34840E-07	441658.4	3761270.0	205.4	3.66	2.33	2.89 YES
L0042615	0	0.19310E-07	441661.9	3761270.3	205.4	3.66	2.33	2.89 YES
L0042616	0	0.19310E-07	441666.9	3761270.3	205.4	3.66	2.33	2.89 YES
L0042617	0	0.19310E-07	441671.9	3761270.3	205.4	3.66	2.33	2.89 YES

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 L0042618         0   0.19310E-07  441676.9 3761270.3   205.4     3.66     2.33
2.89     YES
 L0042619         0   0.19310E-07  441681.9 3761270.3   205.4     3.66     2.33
2.89     YES
 L0042620         0   0.19310E-07  441686.9 3761270.3   205.4     3.66     2.33
2.89     YES
 L0042621         0   0.19310E-07  441691.9 3761270.4   205.4     3.66     2.33
2.89     YES
 L0042622         0   0.19310E-07  441696.9 3761270.4   205.4     3.66     2.33
2.89     YES
 L0042623         0   0.19310E-07  441701.9 3761270.4   205.5     3.66     2.33
2.89     YES
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0042624	0	0.19310E-07	441706.9	3761270.4	205.5	3.66	2.33	2.89	YES	
L0042625	0	0.19310E-07	441711.9	3761270.4	205.5	3.66	2.33	2.89	YES	
L0042626	0	0.19310E-07	441716.9	3761270.4	205.5	3.66	2.33	2.89	YES	
L0042627	0	0.19310E-07	441721.9	3761270.5	205.5	3.66	2.33	2.89	YES	
L0042628	0	0.19310E-07	441726.9	3761270.5	205.5	3.66	2.33	2.89	YES	
L0042629	0	0.19310E-07	441731.9	3761270.5	205.5	3.66	2.33	2.89	YES	
L0042630	0	0.19310E-07	441736.9	3761270.5	205.5	3.66	2.33	2.89	YES	
L0042631	0	0.19310E-07	441741.9	3761270.5	205.5	3.66	2.33	2.89	YES	

L0042632	0	0.19310E-07	441746.9	3761270.5	205.5	3.66	2.33	2.89 YES
L0042633	0	0.19310E-07	441751.9	3761270.6	205.5	3.66	2.33	2.89 YES
L0042634	0	0.19310E-07	441756.9	3761270.6	205.5	3.66	2.33	2.89 YES
L0042635	0	0.19310E-07	441761.9	3761270.6	205.5	3.66	2.33	2.89 YES
L0042636	0	0.19310E-07	441766.9	3761270.6	205.5	3.66	2.33	2.89 YES
L0042637	0	0.19310E-07	441771.9	3761270.6	205.5	3.66	2.33	2.89 YES
L0042638	0	0.19310E-07	441776.9	3761270.6	205.5	3.66	2.33	2.89 YES
L0042639	0	0.19310E-07	441781.9	3761270.6	205.5	3.66	2.33	2.89 YES
L0042640	0	0.19310E-07	441786.9	3761270.7	205.5	3.66	2.33	2.89 YES
L0042641	0	0.19310E-07	441791.9	3761270.7	205.5	3.66	2.33	2.89 YES
L0042642	0	0.19310E-07	441796.9	3761270.7	205.5	3.66	2.33	2.89 YES
L0042643	0	0.19310E-07	441801.9	3761270.7	205.6	3.66	2.33	2.89 YES
L0042644	0	0.19310E-07	441806.9	3761270.7	205.6	3.66	2.33	2.89 YES
L0042645	0	0.19310E-07	441811.9	3761270.7	205.6	3.66	2.33	2.89 YES
L0042646	0	0.19310E-07	441816.9	3761270.8	205.6	3.66	2.33	2.89 YES
L0042647	0	0.13920E-07	441370.7	3761267.2	204.8	3.66	2.33	2.89 YES
L0042648	0	0.13920E-07	441370.8	3761262.2	204.7	3.66	2.33	2.89 YES
L0042649	0	0.13920E-07	441370.9	3761257.2	204.6	3.66	2.33	2.89 YES
L0042650	0	0.13920E-07	441370.9	3761252.2	204.5	3.66	2.33	2.89 YES
L0042651	0	0.13920E-07	441371.0	3761247.2	204.4	3.66	2.33	2.89 YES
L0042652	0	0.13920E-07	441371.1	3761242.2	204.3	3.66	2.33	2.89 YES
L0042653	0	0.13920E-07	441371.2	3761237.2	204.3	3.66	2.33	2.89 YES
L0042654	0	0.13920E-07	441371.2	3761232.2	204.2	3.66	2.33	2.89 YES
L0042655	0	0.13920E-07	441371.3	3761227.2	204.2	3.66	2.33	2.89 YES

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 L0042656         0   0.13920E-07  441371.4 3761222.2   204.1     3.66     2.33
2.89     YES
 L0042657         0   0.13920E-07  441371.5 3761217.2   204.1     3.66     2.33
2.89     YES
 L0042658         0   0.13920E-07  441371.6 3761212.2   204.0     3.66     2.33
2.89     YES
 L0042659         0   0.13920E-07  441371.6 3761207.2   204.0     3.66     2.33
2.89     YES
 L0042660         0   0.13920E-07  441371.7 3761202.2   204.0     3.66     2.33
2.89     YES
 L0042661         0   0.13920E-07  441371.8 3761197.2   204.0     3.66     2.33
2.89     YES
 L0042662         0   0.13920E-07  441371.9 3761192.2   203.9     3.66     2.33
2.89     YES
 L0042663         0   0.13920E-07  441371.9 3761187.2   203.9     3.66     2.33
2.89     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0042664	0	0.13920E-07	441372.0	3761182.2	203.9	3.66	2.33	2.89	YES	
L0042665	0	0.13920E-07	441372.1	3761177.2	203.9	3.66	2.33	2.89	YES	
L0042666	0	0.13920E-07	441372.2	3761172.2	203.8	3.66	2.33	2.89	YES	
L0042667	0	0.13920E-07	441372.2	3761167.2	203.8	3.66	2.33	2.89	YES	
L0042668	0	0.13920E-07	441372.3	3761162.2	203.8	3.66	2.33	2.89	YES	
L0042669	0	0.13920E-07	441372.4	3761157.2	203.7	3.66	2.33	2.89	YES	

L0042670	0	0.13920E-07	441372.5	3761152.2	203.7	3.66	2.33	2.89 YES
L0042671	0	0.13920E-07	441372.5	3761147.2	203.7	3.66	2.33	2.89 YES
L0042672	0	0.13880E-07	441508.3	3761266.5	204.7	3.66	2.33	2.89 YES
L0042673	0	0.13880E-07	441508.3	3761261.5	204.6	3.66	2.33	2.89 YES
L0042674	0	0.13880E-07	441508.3	3761256.5	204.6	3.66	2.33	2.89 YES
L0042675	0	0.13880E-07	441508.4	3761251.5	204.6	3.66	2.33	2.89 YES
L0042676	0	0.13880E-07	441508.4	3761246.5	204.5	3.66	2.33	2.89 YES
L0042677	0	0.13880E-07	441508.4	3761241.5	204.5	3.66	2.33	2.89 YES
L0042678	0	0.13880E-07	441508.4	3761236.5	204.4	3.66	2.33	2.89 YES
L0042679	0	0.13880E-07	441508.5	3761231.5	204.4	3.66	2.33	2.89 YES
L0042680	0	0.13880E-07	441508.5	3761226.5	204.3	3.66	2.33	2.89 YES
L0042681	0	0.13880E-07	441508.5	3761221.5	204.2	3.66	2.33	2.89 YES
L0042682	0	0.13880E-07	441508.5	3761216.5	204.2	3.66	2.33	2.89 YES
L0042683	0	0.13880E-07	441508.6	3761211.5	204.1	3.66	2.33	2.89 YES
L0042684	0	0.13880E-07	441508.6	3761206.5	204.1	3.66	2.33	2.89 YES
L0042685	0	0.13880E-07	441508.6	3761201.5	204.1	3.66	2.33	2.89 YES
L0042686	0	0.13880E-07	441508.6	3761196.5	204.0	3.66	2.33	2.89 YES
L0042687	0	0.13880E-07	441508.7	3761191.5	204.0	3.66	2.33	2.89 YES
L0042688	0	0.13880E-07	441508.7	3761186.5	204.0	3.66	2.33	2.89 YES
L0042689	0	0.13880E-07	441508.7	3761181.5	203.9	3.66	2.33	2.89 YES
L0042690	0	0.13880E-07	441508.7	3761176.5	203.9	3.66	2.33	2.89 YES
L0042691	0	0.13880E-07	441508.8	3761171.5	203.9	3.66	2.33	2.89 YES
L0042692	0	0.13880E-07	441508.8	3761166.5	203.8	3.66	2.33	2.89 YES
L0042693	0	0.13880E-07	441508.8	3761161.5	203.8	3.66	2.33	2.89 YES

```
 L0042694         0   0.13880E-07  441508.8 3761156.5   203.8     3.66     2.33
2.89     YES
 L0042695         0   0.13880E-07  441508.8 3761151.5   203.7     3.66     2.33
2.89     YES
 L0042696         0   0.13880E-07  441508.9 3761146.5   203.7     3.66     2.33
2.89     YES
 L0042697         0   0.13920E-07  441659.1 3761266.7   205.4     3.66     2.33
2.89     YES
 L0042698         0   0.13920E-07  441659.2 3761261.7   205.3     3.66     2.33
2.89     YES
 L0042699         0   0.13920E-07  441659.2 3761256.7   205.3     3.66     2.33
2.89     YES
 L0042700         0   0.13920E-07  441659.2 3761251.7   205.2     3.66     2.33
2.89     YES
 L0042701         0   0.13920E-07  441659.3 3761246.7   205.2     3.66     2.33
2.89     YES
 L0042702         0   0.13920E-07  441659.3 3761241.7   205.1     3.66     2.33
2.89     YES
 L0042703         0   0.13920E-07  441659.3 3761236.7   205.1     3.66     2.33
2.89     YES
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0042704	0	0.13920E-07	441659.4	3761231.7	205.0	3.66	2.33	2.89	YES	
L0042705	0	0.13920E-07	441659.4	3761226.7	205.0	3.66	2.33	2.89	YES	
L0042706	0	0.13920E-07	441659.4	3761221.7	204.9	3.66	2.33	2.89	YES	
L0042707	0	0.13920E-07	441659.5	3761216.7	204.9	3.66	2.33	2.89	YES	

L0042708	0	0.13920E-07	441659.5	3761211.7	204.8	3.66	2.33	2.89 YES
L0042709	0	0.13920E-07	441659.5	3761206.7	204.8	3.66	2.33	2.89 YES
L0042710	0	0.13920E-07	441659.5	3761201.7	204.7	3.66	2.33	2.89 YES
L0042711	0	0.13920E-07	441659.6	3761196.7	204.7	3.66	2.33	2.89 YES
L0042712	0	0.13920E-07	441659.6	3761191.7	204.6	3.66	2.33	2.89 YES
L0042713	0	0.13920E-07	441659.6	3761186.7	204.6	3.66	2.33	2.89 YES
L0042714	0	0.13920E-07	441659.7	3761181.7	204.5	3.66	2.33	2.89 YES
L0042715	0	0.13920E-07	441659.7	3761176.7	204.5	3.66	2.33	2.89 YES
L0042716	0	0.13920E-07	441659.7	3761171.7	204.4	3.66	2.33	2.89 YES
L0042717	0	0.13920E-07	441659.8	3761166.7	204.4	3.66	2.33	2.89 YES
L0042718	0	0.13920E-07	441659.8	3761161.7	204.3	3.66	2.33	2.89 YES
L0042719	0	0.13920E-07	441659.8	3761156.7	204.2	3.66	2.33	2.89 YES
L0042720	0	0.13920E-07	441659.9	3761151.7	204.2	3.66	2.33	2.89 YES
L0042721	0	0.13920E-07	441659.9	3761146.7	204.2	3.66	2.33	2.89 YES
L0042722	0	0.27560E-07	441819.2	3761267.3	205.6	3.66	2.33	2.89 YES
L0042723	0	0.27560E-07	441819.2	3761262.3	205.6	3.66	2.33	2.89 YES
L0042724	0	0.27560E-07	441819.1	3761257.3	205.6	3.66	2.33	2.89 YES
L0042725	0	0.27560E-07	441819.1	3761252.3	205.5	3.66	2.33	2.89 YES
L0042726	0	0.27560E-07	441819.0	3761247.3	205.5	3.66	2.33	2.89 YES
L0042727	0	0.27560E-07	441819.0	3761242.3	205.5	3.66	2.33	2.89 YES
L0042728	0	0.27560E-07	441819.0	3761237.3	205.4	3.66	2.33	2.89 YES
L0042729	0	0.27560E-07	441818.9	3761232.3	205.4	3.66	2.33	2.89 YES
L0042730	0	0.27560E-07	441818.9	3761227.3	205.3	3.66	2.33	2.89 YES
L0042731	0	0.27560E-07	441818.8	3761222.3	205.2	3.66	2.33	2.89 YES

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 L0042732         0   0.27560E-07  441818.8 3761217.3   205.2     3.66     2.33
2.89     YES
 L0042733         0   0.27560E-07  441818.8 3761212.3   205.1     3.66     2.33
2.89     YES
 L0042734         0   0.27560E-07  441818.7 3761207.3   205.0     3.66     2.33
2.89     YES
 L0042735         0   0.27560E-07  441818.7 3761202.3   205.0     3.66     2.33
2.89     YES
 L0042736         0   0.27560E-07  441818.6 3761197.3   204.9     3.66     2.33
2.89     YES
 L0042737         0   0.27560E-07  441818.6 3761192.3   204.9     3.66     2.33
2.89     YES
 L0042738         0   0.27560E-07  441818.6 3761187.3   204.8     3.66     2.33
2.89     YES
 L0042739         0   0.27560E-07  441818.5 3761182.3   204.8     3.66     2.33
2.89     YES
 L0042740         0   0.27560E-07  441818.5 3761177.3   204.7     3.66     2.33
2.89     YES
 L0042741         0   0.27560E-07  441818.5 3761172.3   204.7     3.66     2.33
2.89     YES
 L0042742         0   0.27560E-07  441818.4 3761167.3   204.6     3.66     2.33
2.89     YES
 L0042743         0   0.27560E-07  441818.4 3761162.3   204.6     3.66     2.33
2.89     YES
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0042744	0	0.27560E-07	441818.3	3761157.3	204.6	3.66	2.33	2.89	YES	
L0042745	0	0.27560E-07	441818.3	3761152.3	204.5	3.66	2.33	2.89	YES	

L0042746	0	0.27560E-07	441818.3	3761147.3	204.5	3.66	2.33	2.89 YES
L0042747	0	0.82240E-07	441960.2	3760855.8	202.7	3.66	2.33	2.89 YES
L0042748	0	0.82240E-07	441955.2	3760855.8	202.8	3.66	2.33	2.89 YES
L0042749	0	0.82240E-07	441950.2	3760855.8	202.8	3.66	2.33	2.89 YES
L0042750	0	0.82240E-07	441945.2	3760855.8	202.8	3.66	2.33	2.89 YES
L0042751	0	0.82240E-07	441940.2	3760855.9	202.8	3.66	2.33	2.89 YES
L0042752	0	0.82240E-07	441935.2	3760855.9	202.7	3.66	2.33	2.89 YES
L0042753	0	0.82240E-07	441930.2	3760855.9	202.7	3.66	2.33	2.89 YES
L0042754	0	0.82240E-07	441925.2	3760855.9	202.7	3.66	2.33	2.89 YES
L0042755	0	0.82240E-07	441920.2	3760855.9	202.6	3.66	2.33	2.89 YES
L0042756	0	0.82240E-07	441915.2	3760856.0	202.6	3.66	2.33	2.89 YES
L0042757	0	0.82240E-07	441910.2	3760856.0	202.6	3.66	2.33	2.89 YES
L0042758	0	0.82240E-07	441905.2	3760856.0	202.6	3.66	2.33	2.89 YES
L0042759	0	0.82240E-07	441900.2	3760856.0	202.5	3.66	2.33	2.89 YES
L0042760	0	0.82240E-07	441895.2	3760856.1	202.5	3.66	2.33	2.89 YES
L0042761	0	0.82240E-07	441890.2	3760856.1	202.5	3.66	2.33	2.89 YES
L0042762	0	0.82240E-07	441885.2	3760856.1	202.5	3.66	2.33	2.89 YES
L0042763	0	0.82240E-07	441880.2	3760856.1	202.4	3.66	2.33	2.89 YES
L0042764	0	0.82240E-07	441875.2	3760856.2	202.4	3.66	2.33	2.89 YES
L0042765	0	0.82240E-07	441870.2	3760856.2	202.4	3.66	2.33	2.89 YES
L0042766	0	0.82240E-07	441865.2	3760856.2	202.4	3.66	2.33	2.89 YES
L0042767	0	0.82240E-07	441860.2	3760856.2	202.4	3.66	2.33	2.89 YES
L0042768	0	0.82240E-07	441855.2	3760856.3	202.3	3.66	2.33	2.89 YES
L0042769	0	0.82240E-07	441850.2	3760856.3	202.3	3.66	2.33	2.89 YES

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 L0042770         0   0.82240E-07  441845.2 3760856.3   202.3     3.66     2.33
2.89     YES
 L0042771         0   0.82240E-07  441840.2 3760856.3   202.3     3.66     2.33
2.89     YES
 L0042772         0   0.82240E-07  441835.2 3760856.4   202.3     3.66     2.33
2.89     YES
 L0042773         0   0.82240E-07  441830.2 3760856.4   202.3     3.66     2.33
2.89     YES
 L0042774         0   0.82240E-07  441825.2 3760856.4   202.4     3.66     2.33
2.89     YES
 L0042775         0   0.82240E-07  441820.2 3760856.4   202.4     3.66     2.33
2.89     YES
 L0042776         0   0.82240E-07  441815.2 3760856.5   202.4     3.66     2.33
2.89     YES
 L0042777         0   0.82240E-07  441810.2 3760856.5   202.4     3.66     2.33
2.89     YES
 L0042778         0   0.82240E-07  441805.2 3760856.5   202.4     3.66     2.33
2.89     YES
 L0042779         0   0.82240E-07  441800.2 3760856.5   202.4     3.66     2.33
2.89     YES
 L0042780         0   0.82240E-07  441795.2 3760856.6   202.3     3.66     2.33
2.89     YES
 L0042781         0   0.82240E-07  441790.2 3760856.6   202.3     3.66     2.33
2.89     YES
 L0042782         0   0.82240E-07  441785.2 3760856.6   202.3     3.66     2.33
2.89     YES
 L0042783         0   0.82240E-07  441780.2 3760856.6   202.3     3.66     2.33
2.89     YES
↑ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
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L0042784	0	0.82240E-07	441775.2	3760856.7	202.3	3.66	2.33	2.89 YES
L0042785	0	0.82240E-07	441770.2	3760856.7	202.3	3.66	2.33	2.89 YES
L0042786	0	0.82240E-07	441765.2	3760856.7	202.3	3.66	2.33	2.89 YES
L0042787	0	0.82240E-07	441760.2	3760856.7	202.3	3.66	2.33	2.89 YES
L0042788	0	0.82240E-07	441755.2	3760856.8	202.3	3.66	2.33	2.89 YES
L0042789	0	0.82240E-07	441750.2	3760856.8	202.2	3.66	2.33	2.89 YES
L0042790	0	0.82240E-07	441745.2	3760856.8	202.2	3.66	2.33	2.89 YES
L0042791	0	0.82240E-07	441740.2	3760856.8	202.2	3.66	2.33	2.89 YES
L0042792	0	0.82240E-07	441735.2	3760856.9	202.2	3.66	2.33	2.89 YES
L0042793	0	0.82240E-07	441730.2	3760856.9	202.2	3.66	2.33	2.89 YES
L0042794	0	0.82240E-07	441725.2	3760856.9	202.2	3.66	2.33	2.89 YES
L0042795	0	0.82240E-07	441720.2	3760856.9	202.2	3.66	2.33	2.89 YES
L0042796	0	0.82240E-07	441715.2	3760857.0	202.2	3.66	2.33	2.89 YES
L0042797	0	0.82240E-07	441710.2	3760857.0	202.2	3.66	2.33	2.89 YES
L0042798	0	0.82240E-07	441705.2	3760857.0	202.2	3.66	2.33	2.89 YES
L0042799	0	0.82240E-07	441700.2	3760857.0	202.1	3.66	2.33	2.89 YES
L0042800	0	0.82240E-07	441695.2	3760857.1	202.1	3.66	2.33	2.89 YES
L0042801	0	0.82240E-07	441690.2	3760857.1	202.1	3.66	2.33	2.89 YES
L0042802	0	0.82240E-07	441685.2	3760857.1	202.1	3.66	2.33	2.89 YES
L0042803	0	0.82240E-07	441680.2	3760857.1	202.1	3.66	2.33	2.89 YES
L0042804	0	0.82240E-07	441675.2	3760857.2	202.1	3.66	2.33	2.89 YES
L0042805	0	0.82240E-07	441670.2	3760857.2	202.1	3.66	2.33	2.89 YES
L0042806	0	0.82240E-07	441665.2	3760857.2	202.1	3.66	2.33	2.89 YES
L0042807	0	0.82240E-07	441660.2	3760857.2	202.1	3.66	2.33	2.89 YES

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 L0042808         0   0.82240E-07  441655.2 3760857.2   202.1     3.66     2.33
2.89     YES
 L0042809         0   0.82240E-07  441650.2 3760857.3   202.1     3.66     2.33
2.89     YES
 L0042810         0   0.82240E-07  441645.2 3760857.3   202.1     3.66     2.33
2.89     YES
 L0042811         0   0.82240E-07  441640.2 3760857.3   202.1     3.66     2.33
2.89     YES
 L0042812         0   0.82240E-07  441635.2 3760857.3   202.1     3.66     2.33
2.89     YES
 L0042813         0   0.82240E-07  441630.2 3760857.4   202.1     3.66     2.33
2.89     YES
 L0042814         0   0.82240E-07  441625.2 3760857.4   202.1     3.66     2.33
2.89     YES
 L0042815         0   0.82240E-07  441620.2 3760857.4   202.1     3.66     2.33
2.89     YES
 L0042816         0   0.82240E-07  441615.2 3760857.4   202.1     3.66     2.33
2.89     YES
 L0042817         0   0.82240E-07  441610.2 3760857.5   202.0     3.66     2.33
2.89     YES
 L0042818         0   0.82240E-07  441605.2 3760857.5   202.0     3.66     2.33
2.89     YES
 L0042819         0   0.82240E-07  441600.2 3760857.5   201.9     3.66     2.33
2.89     YES
 L0042820         0   0.82240E-07  441595.2 3760857.5   201.9     3.66     2.33
2.89     YES
 L0042821         0   0.82240E-07  441590.2 3760857.6   201.9     3.66     2.33
2.89     YES
 L0042822         0   0.82240E-07  441585.2 3760857.6   201.8     3.66     2.33
2.89     YES
 L0042823         0   0.82240E-07  441580.2 3760857.6   201.8     3.66     2.33
2.89     YES
↟ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
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(METERS) BY

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L0042846	0	0.81750E-07	441534.1	3760513.7	199.6	3.66	2.33	2.89 YES
L0042847	0	0.81750E-07	441530.9	3760517.6	199.6	3.66	2.33	2.89 YES
L0042848	0	0.33830E-07	441746.7	3760472.7	200.1	3.66	2.33	2.89 YES
L0042849	0	0.33830E-07	441746.7	3760477.7	200.1	3.66	2.33	2.89 YES
L0042850	0	0.33830E-07	441746.7	3760482.7	200.1	3.66	2.33	2.89 YES
L0042851	0	0.33830E-07	441746.7	3760487.7	200.1	3.66	2.33	2.89 YES
L0042852	0	0.33830E-07	441746.7	3760492.7	200.0	3.66	2.33	2.89 YES
L0042853	0	0.33830E-07	441746.7	3760497.7	200.0	3.66	2.33	2.89 YES
L0042854	0	0.25800E-07	441184.0	3760874.8	201.3	3.66	2.33	2.89 YES
L0042855	0	0.25800E-07	441179.0	3760874.8	201.3	3.66	2.33	2.89 YES
L0042856	0	0.25800E-07	441174.0	3760874.8	201.3	3.66	2.33	2.89 YES
L0042857	0	0.25800E-07	441169.0	3760874.8	201.3	3.66	2.33	2.89 YES
L0042858	0	0.25800E-07	441164.0	3760874.8	201.3	3.66	2.33	2.89 YES
L0042859	0	0.25800E-07	441159.0	3760874.8	201.3	3.66	2.33	2.89 YES
L0042860	0	0.25800E-07	441154.0	3760874.8	201.3	3.66	2.33	2.89 YES
L0042861	0	0.25800E-07	441149.0	3760874.8	201.4	3.66	2.33	2.89 YES
L0042862	0	0.25800E-07	441144.0	3760874.7	201.4	3.66	2.33	2.89 YES
L0042863	0	0.25800E-07	441139.0	3760874.7	201.4	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT.

INIT. SOURCE ID	URBAN PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE VARY BY
L0042864	0	0.75250E-07	440992.0	3760470.5	197.8	3.66	2.33	2.89	YES
L0042865	0	0.75250E-07	440992.0	3760475.5	197.8	3.66	2.33	2.89	YES
L0042866	0	0.75250E-07	440992.0	3760480.5	198.0	3.66	2.33	2.89	YES
L0042867	0	0.75250E-07	440992.0	3760485.5	198.1	3.66	2.33	2.89	YES
L0042868	0	0.75250E-07	440992.0	3760490.5	198.2	3.66	2.33	2.89	YES
L0042869	0	0.75250E-07	440992.0	3760495.5	198.4	3.66	2.33	2.89	YES
L0042870	0	0.75250E-07	440992.0	3760500.5	198.5	3.66	2.33	2.89	YES
L0042871	0	0.75250E-07	440991.9	3760505.5	198.6	3.66	2.33	2.89	YES
L0042872	0	0.56930E-07	440778.6	3760472.1	196.7	3.66	2.33	2.89	YES
L0042873	0	0.56930E-07	440778.6	3760477.1	196.8	3.66	2.33	2.89	YES
L0042874	0	0.56930E-07	440778.6	3760482.1	196.8	3.66	2.33	2.89	YES
L0042875	0	0.56930E-07	440778.6	3760487.1	196.8	3.66	2.33	2.89	YES
L0042876	0	0.56930E-07	440778.6	3760492.1	196.9	3.66	2.33	2.89	YES
L0042877	0	0.56930E-07	440778.7	3760497.1	196.9	3.66	2.33	2.89	YES
L0042878	0	0.56930E-07	440778.7	3760502.1	196.9	3.66	2.33	2.89	YES
L0042879	0	0.56930E-07	440778.7	3760507.1	196.9	3.66	2.33	2.89	YES
L0042880	0	0.56930E-07	440778.7	3760512.1	197.0	3.66	2.33	2.89	YES
L0042881	0	0.56930E-07	440778.7	3760517.1	197.0	3.66	2.33	2.89	YES
L0042882	0	0.56930E-07	440778.8	3760522.1	197.1	3.66	2.33	2.89	YES
L0042883	0	0.56930E-07	440778.8	3760527.1	197.1	3.66	2.33	2.89	YES

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 L0042884         0   0.56930E-07  440778.8 3760532.1   197.1     3.66     2.33
2.89     YES
 L0042885         0   0.56930E-07  440778.8 3760537.1   197.2     3.66     2.33
2.89     YES
 L0042886         0   0.56930E-07  440778.8 3760542.1   197.2     3.66     2.33
2.89     YES
 L0042887         0   0.56930E-07  440778.9 3760547.1   197.2     3.66     2.33
2.89     YES
 L0042888         0   0.56930E-07  440778.9 3760552.1   197.3     3.66     2.33
2.89     YES
 L0042889         0   0.56930E-07  440778.9 3760557.1   197.3     3.66     2.33
2.89     YES
 L0042890         0   0.56930E-07  440778.9 3760562.1   197.4     3.66     2.33
2.89     YES
 L0042891         0   0.56930E-07  440778.9 3760567.1   197.4     3.66     2.33
2.89     YES
 L0042892         0   0.56930E-07  440778.9 3760572.1   197.5     3.66     2.33
2.89     YES
 L0042893         0   0.56930E-07  440779.0 3760577.1   197.5     3.66     2.33
2.89     YES
 L0042894         0   0.56930E-07  440779.0 3760582.1   197.5     3.66     2.33
2.89     YES
 L0042895         0   0.56930E-07  440779.0 3760587.1   197.6     3.66     2.33
2.89     YES
 L0042896         0   0.56930E-07  440779.0 3760592.1   197.6     3.66     2.33
2.89     YES
 L0042897         0   0.56930E-07  440779.0 3760597.1   197.7     3.66     2.33
2.89     YES
 L0042898         0   0.56930E-07  440779.1 3760602.1   197.7     3.66     2.33
2.89     YES
 L0042899         0   0.56930E-07  440779.1 3760607.1   197.8     3.66     2.33
2.89     YES
 L0042900         0   0.56930E-07  440779.1 3760612.1   197.8     3.66     2.33
2.89     YES
 L0042901         0   0.56930E-07  440779.1 3760617.1   197.8     3.66     2.33
2.89     YES
 L0042902         0   0.56930E-07  440779.1 3760622.1   197.9     3.66     2.33
2.89     YES
 L0042903         0   0.56930E-07  440779.1 3760627.1   197.9     3.66     2.33
2.89     YES
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0042904	0	0.56930E-07	440779.2	3760632.1	198.0	3.66	2.33	2.89	YES
L0042905	0	0.56930E-07	440779.2	3760637.1	198.0	3.66	2.33	2.89	YES
L0042906	0	0.56930E-07	440779.2	3760642.1	198.0	3.66	2.33	2.89	YES
L0042907	0	0.56930E-07	440779.2	3760647.1	198.1	3.66	2.33	2.89	YES
L0042908	0	0.56930E-07	440779.2	3760652.1	198.1	3.66	2.33	2.89	YES
L0042909	0	0.56930E-07	440779.3	3760657.1	198.2	3.66	2.33	2.89	YES
L0042910	0	0.56930E-07	440779.3	3760662.1	198.2	3.66	2.33	2.89	YES
L0042911	0	0.56930E-07	440779.3	3760667.1	198.3	3.66	2.33	2.89	YES
L0042912	0	0.56930E-07	440779.3	3760672.1	198.3	3.66	2.33	2.89	YES
L0042913	0	0.56930E-07	440779.3	3760677.1	198.4	3.66	2.33	2.89	YES
L0042914	0	0.56930E-07	440779.3	3760682.1	198.4	3.66	2.33	2.89	YES
L0042915	0	0.56930E-07	440779.4	3760687.1	198.4	3.66	2.33	2.89	YES
L0042916	0	0.56930E-07	440779.4	3760692.1	198.5	3.66	2.33	2.89	YES
L0042917	0	0.56930E-07	440779.4	3760697.1	198.5	3.66	2.33	2.89	YES
L0042918	0	0.56930E-07	440779.4	3760702.1	198.6	3.66	2.33	2.89	YES
L0042919	0	0.56930E-07	440779.4	3760707.1	198.6	3.66	2.33	2.89	YES
L0042920	0	0.56930E-07	440779.5	3760712.1	198.6	3.66	2.33	2.89	YES
L0042921	0	0.56930E-07	440779.5	3760717.1	198.7	3.66	2.33	2.89	YES

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 L0042922         0   0.56930E-07  440779.5 3760722.1   198.7     3.66     2.33
2.89     YES
 L0042923         0   0.56930E-07  440779.5 3760727.1   198.8     3.66     2.33
2.89     YES
 L0042924         0   0.56930E-07  440779.5 3760732.1   198.8     3.66     2.33
2.89     YES
 L0042925         0   0.56930E-07  440779.6 3760737.1   198.8     3.66     2.33
2.89     YES
 L0042926         0   0.56930E-07  440779.6 3760742.1   198.8     3.66     2.33
2.89     YES
 L0042927         0   0.56930E-07  440779.6 3760747.1   198.9     3.66     2.33
2.89     YES
 L0042928         0   0.56930E-07  440779.6 3760752.1   198.9     3.66     2.33
2.89     YES
 L0042929         0   0.56930E-07  440779.6 3760757.1   199.0     3.66     2.33
2.89     YES
 L0042930         0   0.56930E-07  440779.6 3760762.1   199.1     3.66     2.33
2.89     YES
 L0042931         0   0.56930E-07  440779.7 3760767.1   199.1     3.66     2.33
2.89     YES
 L0042932         0   0.56930E-07  440779.7 3760772.1   199.2     3.66     2.33
2.89     YES
 L0042933         0   0.56930E-07  440779.7 3760777.1   199.3     3.66     2.33
2.89     YES
 L0042934         0   0.56930E-07  440779.7 3760782.1   199.4     3.66     2.33
2.89     YES
 L0042935         0   0.56930E-07  440779.7 3760787.1   199.5     3.66     2.33
2.89     YES
 L0042936         0   0.56930E-07  440779.8 3760792.1   199.5     3.66     2.33
2.89     YES
 L0042937         0   0.56930E-07  440779.8 3760797.1   199.5     3.66     2.33
2.89     YES
 L0042938         0   0.56930E-07  440779.8 3760802.1   199.5     3.66     2.33
2.89     YES
 L0042939         0   0.56930E-07  440779.8 3760807.1   199.5     3.66     2.33
2.89     YES
 L0042940         0   0.56930E-07  440779.8 3760812.1   199.5     3.66     2.33
2.89     YES
 L0042941         0   0.56930E-07  440779.8 3760817.1   199.5     3.66     2.33
2.89     YES
 L0042942         0   0.56930E-07  440779.9 3760822.1   199.5     3.66     2.33
2.89     YES
 L0042943         0   0.56930E-07  440779.9 3760827.1   199.5     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0042944	0	0.56930E-07	440779.9	3760832.1	199.5	3.66	2.33	2.89	YES	
L0042945	0	0.56930E-07	440779.9	3760837.1	199.5	3.66	2.33	2.89	YES	
L0042946	0	0.56930E-07	440779.9	3760842.1	199.5	3.66	2.33	2.89	YES	
L0042947	0	0.22670E-07	440779.6	3760847.3	199.5	3.66	2.33	2.89	YES	
L0042948	0	0.22670E-07	440779.6	3760852.3	199.5	3.66	2.33	2.89	YES	
L0042949	0	0.22670E-07	440779.6	3760857.3	199.5	3.66	2.33	2.89	YES	
L0042950	0	0.22670E-07	440779.6	3760862.3	199.6	3.66	2.33	2.89	YES	
L0042951	0	0.22670E-07	440779.6	3760867.3	199.6	3.66	2.33	2.89	YES	
L0042952	0	0.22670E-07	440779.6	3760872.3	199.6	3.66	2.33	2.89	YES	
L0042953	0	0.22670E-07	440779.6	3760877.3	199.7	3.66	2.33	2.89	YES	
L0042954	0	0.22670E-07	440779.6	3760882.3	199.7	3.66	2.33	2.89	YES	
L0042955	0	0.22670E-07	440779.6	3760887.3	199.7	3.66	2.33	2.89	YES	
L0042956	0	0.22670E-07	440779.6	3760892.3	199.8	3.66	2.33	2.89	YES	
L0042957	0	0.22670E-07	440779.6	3760897.3	199.8	3.66	2.33	2.89	YES	
L0042958	0	0.22670E-07	440779.6	3760902.3	199.8	3.66	2.33	2.89	YES	
L0042959	0	0.22670E-07	440779.6	3760907.3	199.9	3.66	2.33	2.89	YES	

L0042960	0	0.22670E-07	440779.6	3760912.3	199.9	3.66	2.33	2.89 YES
L0042961	0	0.22670E-07	440779.6	3760917.3	200.0	3.66	2.33	2.89 YES
L0042962	0	0.22670E-07	440779.6	3760922.3	200.0	3.66	2.33	2.89 YES
L0042963	0	0.22670E-07	440779.7	3760927.3	200.0	3.66	2.33	2.89 YES
L0042964	0	0.22670E-07	440779.7	3760932.3	200.1	3.66	2.33	2.89 YES
L0042965	0	0.22670E-07	440779.7	3760937.3	200.1	3.66	2.33	2.89 YES
L0042966	0	0.22670E-07	440779.7	3760942.3	200.1	3.66	2.33	2.89 YES
L0042967	0	0.22670E-07	440779.7	3760947.3	200.2	3.66	2.33	2.89 YES
L0042968	0	0.22670E-07	440779.7	3760952.3	200.2	3.66	2.33	2.89 YES
L0042969	0	0.22670E-07	440779.7	3760957.3	200.2	3.66	2.33	2.89 YES
L0042970	0	0.22670E-07	440779.7	3760962.3	200.3	3.66	2.33	2.89 YES
L0042971	0	0.22670E-07	440779.7	3760967.3	200.3	3.66	2.33	2.89 YES
L0042972	0	0.22670E-07	440779.7	3760972.3	200.4	3.66	2.33	2.89 YES
L0042973	0	0.22670E-07	440779.7	3760977.3	200.4	3.66	2.33	2.89 YES
L0042974	0	0.22670E-07	440779.7	3760982.3	200.4	3.66	2.33	2.89 YES
L0042975	0	0.22670E-07	440779.7	3760987.3	200.5	3.66	2.33	2.89 YES
L0042976	0	0.22670E-07	440779.7	3760992.3	200.5	3.66	2.33	2.89 YES
L0042977	0	0.22670E-07	440779.7	3760997.3	200.6	3.66	2.33	2.89 YES
L0042978	0	0.22670E-07	440779.7	3761002.3	200.6	3.66	2.33	2.89 YES
L0042979	0	0.22670E-07	440779.7	3761007.3	200.6	3.66	2.33	2.89 YES
L0042980	0	0.22670E-07	440779.7	3761012.3	200.7	3.66	2.33	2.89 YES
L0042981	0	0.22670E-07	440779.7	3761017.3	200.7	3.66	2.33	2.89 YES
L0042982	0	0.22670E-07	440779.7	3761022.3	200.7	3.66	2.33	2.89 YES
L0042983	0	0.22670E-07	440779.7	3761027.3	200.8	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0042984	0	0.22670E-07	440779.7	3761032.3	200.8	3.66	2.33	2.89	YES	
L0042985	0	0.22670E-07	440779.7	3761037.3	200.9	3.66	2.33	2.89	YES	
L0042986	0	0.22670E-07	440779.8	3761042.3	200.9	3.66	2.33	2.89	YES	
L0042987	0	0.22670E-07	440779.8	3761047.3	200.9	3.66	2.33	2.89	YES	
L0042988	0	0.22670E-07	440779.8	3761052.3	201.0	3.66	2.33	2.89	YES	
L0042989	0	0.22670E-07	440779.8	3761057.3	201.0	3.66	2.33	2.89	YES	
L0042990	0	0.22670E-07	440779.8	3761062.3	201.1	3.66	2.33	2.89	YES	
L0042991	0	0.22670E-07	440779.8	3761067.3	201.1	3.66	2.33	2.89	YES	
L0042992	0	0.22670E-07	440779.8	3761072.3	201.1	3.66	2.33	2.89	YES	
L0042993	0	0.22670E-07	440779.8	3761077.3	201.2	3.66	2.33	2.89	YES	
L0042994	0	0.22670E-07	440779.8	3761082.3	201.2	3.66	2.33	2.89	YES	
L0042995	0	0.22670E-07	440779.8	3761087.3	201.2	3.66	2.33	2.89	YES	
L0042996	0	0.22670E-07	440779.8	3761092.3	201.3	3.66	2.33	2.89	YES	
L0042997	0	0.22670E-07	440779.8	3761097.3	201.3	3.66	2.33	2.89	YES	

L0042998	0	0.22670E-07	440779.8	3761102.3	201.4	3.66	2.33	2.89 YES
L0042999	0	0.22670E-07	440779.8	3761107.3	201.4	3.66	2.33	2.89 YES
L0043000	0	0.22670E-07	440779.8	3761112.3	201.5	3.66	2.33	2.89 YES
L0043001	0	0.22670E-07	440779.8	3761117.3	201.5	3.66	2.33	2.89 YES
L0043002	0	0.22670E-07	440779.8	3761122.3	201.6	3.66	2.33	2.89 YES
L0043003	0	0.22670E-07	440779.8	3761127.3	201.6	3.66	2.33	2.89 YES
L0043004	0	0.22670E-07	440779.8	3761132.3	201.7	3.66	2.33	2.89 YES
L0043005	0	0.22670E-07	440779.8	3761137.3	201.7	3.66	2.33	2.89 YES
L0043006	0	0.22670E-07	440779.8	3761142.3	201.8	3.66	2.33	2.89 YES
L0043007	0	0.67600E-08	440779.6	3761146.7	201.8	3.66	2.33	2.89 YES
L0043008	0	0.67600E-08	440779.6	3761151.7	201.9	3.66	2.33	2.89 YES
L0043009	0	0.67600E-08	440779.6	3761156.7	201.9	3.66	2.33	2.89 YES
L0043010	0	0.67600E-08	440779.6	3761161.7	202.0	3.66	2.33	2.89 YES
L0043011	0	0.67600E-08	440779.6	3761166.7	202.1	3.66	2.33	2.89 YES
L0043012	0	0.67600E-08	440779.6	3761171.7	202.1	3.66	2.33	2.89 YES
L0043013	0	0.67600E-08	440779.6	3761176.7	202.2	3.66	2.33	2.89 YES
L0043014	0	0.67600E-08	440779.6	3761181.7	202.2	3.66	2.33	2.89 YES
L0043015	0	0.67600E-08	440779.6	3761186.7	202.3	3.66	2.33	2.89 YES
L0043016	0	0.67600E-08	440779.6	3761191.7	202.3	3.66	2.33	2.89 YES
L0043017	0	0.67600E-08	440779.6	3761196.7	202.4	3.66	2.33	2.89 YES
L0043018	0	0.67600E-08	440779.6	3761201.7	202.5	3.66	2.33	2.89 YES
L0043019	0	0.67600E-08	440779.6	3761206.7	202.5	3.66	2.33	2.89 YES
L0043020	0	0.67600E-08	440779.6	3761211.7	202.6	3.66	2.33	2.89 YES
L0043021	0	0.67600E-08	440779.6	3761216.7	202.6	3.66	2.33	2.89 YES

 L0043022   0   0.67600E-08 440779.6 3761221.7   202.7   3.66   2.33
2.89   YES
 L0043023   0   0.67600E-08 440779.6 3761226.7   202.8   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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L0043036	0	0.68180E-08	440801.7	3761269.1	203.6	3.66	2.33	2.89 YES
L0043037	0	0.68180E-08	440806.7	3761269.0	203.6	3.66	2.33	2.89 YES
L0043038	0	0.68180E-08	440811.7	3761269.0	203.6	3.66	2.33	2.89 YES
L0043039	0	0.68180E-08	440816.7	3761269.0	203.6	3.66	2.33	2.89 YES
L0043040	0	0.68180E-08	440821.7	3761268.9	203.7	3.66	2.33	2.89 YES
L0043041	0	0.68180E-08	440826.7	3761268.9	203.7	3.66	2.33	2.89 YES
L0043042	0	0.68180E-08	440831.7	3761268.8	203.7	3.66	2.33	2.89 YES
L0043043	0	0.68180E-08	440836.7	3761268.8	203.8	3.66	2.33	2.89 YES
L0043044	0	0.68180E-08	440841.7	3761268.8	203.8	3.66	2.33	2.89 YES
L0043045	0	0.68180E-08	440846.7	3761268.7	203.9	3.66	2.33	2.89 YES
L0043046	0	0.68180E-08	440851.7	3761268.7	203.9	3.66	2.33	2.89 YES
L0043047	0	0.68180E-08	440856.7	3761268.7	203.9	3.66	2.33	2.89 YES
L0043048	0	0.68180E-08	440861.7	3761268.6	203.9	3.66	2.33	2.89 YES
L0043049	0	0.68180E-08	440866.7	3761268.6	203.9	3.66	2.33	2.89 YES
L0043050	0	0.68180E-08	440871.7	3761268.6	204.0	3.66	2.33	2.89 YES
L0043051	0	0.68180E-08	440876.7	3761268.5	204.0	3.66	2.33	2.89 YES
L0043052	0	0.68180E-08	440881.7	3761268.5	204.0	3.66	2.33	2.89 YES
L0043053	0	0.68180E-08	440886.7	3761268.4	204.0	3.66	2.33	2.89 YES
L0043054	0	0.68180E-08	440891.7	3761268.4	204.0	3.66	2.33	2.89 YES
L0043055	0	0.68180E-08	440896.7	3761268.4	204.0	3.66	2.33	2.89 YES
L0043056	0	0.68180E-08	440901.7	3761268.3	204.0	3.66	2.33	2.89 YES
L0043057	0	0.68180E-08	440906.7	3761268.3	204.0	3.66	2.33	2.89 YES
L0043058	0	0.68180E-08	440911.7	3761268.3	204.1	3.66	2.33	2.89 YES
L0043059	0	0.68180E-08	440916.7	3761268.2	204.1	3.66	2.33	2.89 YES

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 L0043060         0   0.68180E-08  440921.7 3761268.2   204.1     3.66     2.33
2.89     YES
 L0043061         0   0.68180E-08  440926.7 3761268.2   204.1     3.66     2.33
2.89     YES
 L0043062         0   0.68180E-08  440931.7 3761268.1   204.1     3.66     2.33
2.89     YES
 L0043063         0   0.68180E-08  440936.7 3761268.1   204.1     3.66     2.33
2.89     YES
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0043064         0   0.68180E-08  440941.7 3761268.0   204.1     3.66     2.33
2.89     YES
 L0043065         0   0.69180E-08  440945.1 3761268.1   204.1     3.66     2.33
2.89     YES
 L0043066         0   0.69180E-08  440950.1 3761268.2   204.1     3.66     2.33
2.89     YES
 L0043067         0   0.69180E-08  440955.1 3761268.2   204.1     3.66     2.33
2.89     YES
 L0043068         0   0.69180E-08  440960.1 3761268.2   204.1     3.66     2.33
2.89     YES
 L0043069         0   0.69180E-08  440965.1 3761268.2   204.1     3.66     2.33
2.89     YES
 L0043070         0   0.69180E-08  440970.1 3761268.3   204.1     3.66     2.33
2.89     YES
 L0043071         0   0.69180E-08  440975.1 3761268.3   204.1     3.66     2.33
2.89     YES
 L0043072         0   0.69180E-08  440980.1 3761268.3   204.1     3.66     2.33
2.89     YES
 L0043073         0   0.69180E-08  440985.1 3761268.3   204.1     3.66     2.33
2.89     YES
```

L0043074	0	0.69180E-08	440990.1	3761268.4	204.2	3.66	2.33	2.89 YES
L0043075	0	0.69180E-08	440995.1	3761268.4	204.2	3.66	2.33	2.89 YES
L0043076	0	0.69180E-08	441000.1	3761268.4	204.2	3.66	2.33	2.89 YES
L0043077	0	0.69180E-08	441005.1	3761268.5	204.2	3.66	2.33	2.89 YES
L0043078	0	0.69180E-08	441010.1	3761268.5	204.2	3.66	2.33	2.89 YES
L0043079	0	0.69180E-08	441015.1	3761268.5	204.2	3.66	2.33	2.89 YES
L0043080	0	0.69180E-08	441020.1	3761268.5	204.2	3.66	2.33	2.89 YES
L0043081	0	0.69180E-08	441025.1	3761268.6	204.2	3.66	2.33	2.89 YES
L0043082	0	0.69180E-08	441030.1	3761268.6	204.2	3.66	2.33	2.89 YES
L0043083	0	0.69180E-08	441035.1	3761268.6	204.2	3.66	2.33	2.89 YES
L0043084	0	0.69180E-08	441040.1	3761268.6	204.2	3.66	2.33	2.89 YES
L0043085	0	0.69180E-08	441045.1	3761268.7	204.2	3.66	2.33	2.89 YES
L0043086	0	0.69180E-08	441050.1	3761268.7	204.1	3.66	2.33	2.89 YES
L0043087	0	0.69180E-08	441055.1	3761268.7	204.1	3.66	2.33	2.89 YES
L0043088	0	0.69180E-08	441060.1	3761268.8	204.1	3.66	2.33	2.89 YES
L0043089	0	0.69180E-08	441065.1	3761268.8	204.1	3.66	2.33	2.89 YES
L0043090	0	0.69180E-08	441070.1	3761268.8	204.1	3.66	2.33	2.89 YES
L0043091	0	0.69180E-08	441075.1	3761268.8	204.1	3.66	2.33	2.89 YES
L0043092	0	0.69180E-08	441080.1	3761268.9	204.0	3.66	2.33	2.89 YES
L0043093	0	0.69180E-08	441085.1	3761268.9	204.0	3.66	2.33	2.89 YES
L0043094	0	0.69180E-08	441090.1	3761268.9	204.0	3.66	2.33	2.89 YES
L0043095	0	0.69180E-08	441095.1	3761268.9	204.0	3.66	2.33	2.89 YES
L0043096	0	0.69180E-08	441100.1	3761269.0	204.0	3.66	2.33	2.89 YES
L0043097	0	0.69180E-08	441105.1	3761269.0	204.0	3.66	2.33	2.89 YES

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 L0043098         0   0.69180E-08  441110.1 3761269.0   204.0     3.66     2.33
2.89     YES
 L0043099         0   0.69180E-08  441115.1 3761269.0   204.0     3.66     2.33
2.89     YES
 L0043100         0   0.69180E-08  441120.1 3761269.1   204.0     3.66     2.33
2.89     YES
 L0043101         0   0.69180E-08  441125.1 3761269.1   204.0     3.66     2.33
2.89     YES
 L0043102         0   0.69180E-08  441130.1 3761269.1   204.1     3.66     2.33
2.89     YES
 L0043103         0   0.69180E-08  441135.1 3761269.2   204.1     3.66     2.33
2.89     YES
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                                                    *** VOLUME SOURCE DATA ***

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

 L0043104         0   0.69180E-08  441140.1 3761269.2   204.1     3.66     2.33
2.89     YES
 L0043105         0   0.69180E-08  441145.1 3761269.2   204.1     3.66     2.33
2.89     YES
 L0043106         0   0.69180E-08  441150.1 3761269.2   204.1     3.66     2.33
2.89     YES
 L0043107         0   0.69180E-08  441155.1 3761269.3   204.1     3.66     2.33
2.89     YES
 L0043108         0   0.69180E-08  441160.1 3761269.3   204.1     3.66     2.33
2.89     YES
 L0043109         0   0.69180E-08  441165.1 3761269.3   204.1     3.66     2.33
2.89     YES
 L0043110         0   0.69180E-08  441170.1 3761269.3   204.1     3.66     2.33
2.89     YES
 L0043111         0   0.69180E-08  441175.1 3761269.4   204.1     3.66     2.33
2.89     YES
```

L0043112	0	0.69180E-08	441180.1	3761269.4	204.0	3.66	2.33	2.89 YES
L0043113	0	0.69180E-08	441185.1	3761269.4	204.0	3.66	2.33	2.89 YES
L0043114	0	0.16640E-08	441184.0	3761151.7	203.0	3.66	2.33	2.89 YES
L0043115	0	0.16640E-08	441179.0	3761151.8	203.0	3.66	2.33	2.89 YES
L0043116	0	0.16640E-08	441174.0	3761151.9	202.9	3.66	2.33	2.89 YES
L0043117	0	0.16640E-08	441169.0	3761152.0	202.9	3.66	2.33	2.89 YES
L0043118	0	0.16640E-08	441164.0	3761152.2	202.8	3.66	2.33	2.89 YES
L0043119	0	0.16640E-08	441159.0	3761152.3	202.8	3.66	2.33	2.89 YES
L0043120	0	0.16640E-08	441154.0	3761152.4	202.8	3.66	2.33	2.89 YES
L0043121	0	0.16640E-08	441149.0	3761152.5	202.9	3.66	2.33	2.89 YES
L0043122	0	0.16640E-08	441144.0	3761152.7	202.9	3.66	2.33	2.89 YES
L0043123	0	0.16640E-08	441139.0	3761152.8	202.9	3.66	2.33	2.89 YES
L0043124	0	0.16640E-08	441134.0	3761152.9	202.9	3.66	2.33	2.89 YES
L0043125	0	0.12800E-07	440943.4	3761264.7	204.1	3.66	2.33	2.89 YES
L0043126	0	0.12800E-07	440943.5	3761259.7	204.1	3.66	2.33	2.89 YES
L0043127	0	0.12800E-07	440943.5	3761254.7	204.1	3.66	2.33	2.89 YES
L0043128	0	0.12800E-07	440943.6	3761249.7	204.1	3.66	2.33	2.89 YES
L0043129	0	0.12800E-07	440943.6	3761244.7	204.1	3.66	2.33	2.89 YES
L0043130	0	0.12800E-07	440943.7	3761239.7	204.1	3.66	2.33	2.89 YES
L0043131	0	0.12800E-07	440943.7	3761234.7	204.1	3.66	2.33	2.89 YES
L0043132	0	0.17000E-07	440784.7	3761145.5	201.9	3.66	2.33	2.89 YES
L0043133	0	0.17000E-07	440789.7	3761145.4	201.9	3.66	2.33	2.89 YES
L0043134	0	0.17000E-07	440794.7	3761145.4	202.0	3.66	2.33	2.89 YES
L0043135	0	0.17000E-07	440799.7	3761145.4	202.0	3.66	2.33	2.89 YES

```
 L0043136         0   0.17000E-07  440804.7 3761145.3   202.1     3.66     2.33
2.89     YES
 L0043137         0   0.17000E-07  440809.7 3761145.3   202.2     3.66     2.33
2.89     YES
 L0043138         0   0.32250E-07  440784.6 3760845.5   199.5     3.66     2.33
2.89     YES
 L0043139         0   0.32250E-07  440789.6 3760845.5   199.5     3.66     2.33
2.89     YES
 L0043140         0   0.32250E-07  440794.6 3760845.4   199.6     3.66     2.33
2.89     YES
 L0043141         0   0.32250E-07  440799.6 3760845.4   199.6     3.66     2.33
2.89     YES
 L0043142         0   0.32250E-07  440804.6 3760845.4   199.6     3.66     2.33
2.89     YES
 L0043143         0   0.32250E-07  440809.6 3760845.3   199.7     3.66     2.33
2.89     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0043144	0	0.32250E-07	440814.6	3760845.3	199.7	3.66	2.33	2.89	YES	
L0043145	0	0.32250E-07	440819.6	3760845.3	199.7	3.66	2.33	2.89	YES	
L0043146	0	0.68590E-07	441213.3	3761143.1	203.4	3.66	2.33	2.89	YES	
L0043147	0	0.68590E-07	441218.3	3761143.1	203.5	3.66	2.33	2.89	YES	
L0043148	0	0.68590E-07	441223.3	3761143.1	203.5	3.66	2.33	2.89	YES	
L0043149	0	0.68590E-07	441228.3	3761143.1	203.5	3.66	2.33	2.89	YES	

L0043150	0	0.68590E-07	441233.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043151	0	0.68590E-07	441238.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043152	0	0.68590E-07	441243.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043153	0	0.68590E-07	441248.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043154	0	0.68590E-07	441253.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043155	0	0.68590E-07	441258.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043156	0	0.68590E-07	441263.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043157	0	0.68590E-07	441268.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043158	0	0.68590E-07	441273.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043159	0	0.68590E-07	441278.3	3761143.0	203.5	3.66	2.33	2.89 YES
L0043160	0	0.68590E-07	441283.3	3761142.9	203.5	3.66	2.33	2.89 YES
L0043161	0	0.68590E-07	441288.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043162	0	0.68590E-07	441293.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043163	0	0.68590E-07	441298.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043164	0	0.68590E-07	441303.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043165	0	0.68590E-07	441308.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043166	0	0.68590E-07	441313.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043167	0	0.68590E-07	441318.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043168	0	0.68590E-07	441323.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043169	0	0.68590E-07	441328.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043170	0	0.68590E-07	441333.3	3761142.9	203.6	3.66	2.33	2.89 YES
L0043171	0	0.68590E-07	441338.3	3761142.8	203.6	3.66	2.33	2.89 YES
L0043172	0	0.68590E-07	441343.3	3761142.8	203.6	3.66	2.33	2.89 YES
L0043173	0	0.68590E-07	441348.3	3761142.8	203.6	3.66	2.33	2.89 YES

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 L0043174         0   0.68590E-07  441353.3 3761142.8   203.6     3.66     2.33
2.89     YES
 L0043175         0   0.68590E-07  441358.3 3761142.8   203.6     3.66     2.33
2.89     YES
 L0043176         0   0.68590E-07  441363.3 3761142.8   203.7     3.66     2.33
2.89     YES
 L0043177         0   0.68590E-07  441368.3 3761142.8   203.7     3.66     2.33
2.89     YES
 L0043178         0   0.68590E-07  441373.3 3761142.8   203.7     3.66     2.33
2.89     YES
 L0043179         0   0.68590E-07  441378.3 3761142.8   203.7     3.66     2.33
2.89     YES
 L0043180         0   0.68590E-07  441383.3 3761142.8   203.7     3.66     2.33
2.89     YES
 L0043181         0   0.68590E-07  441388.3 3761142.8   203.7     3.66     2.33
2.89     YES
 L0043182         0   0.68590E-07  441393.3 3761142.7   203.7     3.66     2.33
2.89     YES
 L0043183         0   0.68590E-07  441398.3 3761142.7   203.6     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0043184         0   0.68590E-07  441403.3 3761142.7   203.6     3.66     2.33
2.89     YES
 L0043185         0   0.68590E-07  441408.3 3761142.7   203.6     3.66     2.33
2.89     YES
 L0043186         0   0.68590E-07  441413.3 3761142.7   203.6     3.66     2.33
2.89     YES
 L0043187         0   0.68590E-07  441418.3 3761142.7   203.6     3.66     2.33
2.89     YES
```

L0043188	0	0.68590E-07	441423.3	3761142.7	203.6	3.66	2.33	2.89 YES
L0043189	0	0.68590E-07	441428.3	3761142.7	203.6	3.66	2.33	2.89 YES
L0043190	0	0.68590E-07	441433.3	3761142.7	203.6	3.66	2.33	2.89 YES
L0043191	0	0.68590E-07	441438.3	3761142.7	203.6	3.66	2.33	2.89 YES
L0043192	0	0.68590E-07	441443.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043193	0	0.68590E-07	441448.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043194	0	0.68590E-07	441453.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043195	0	0.68590E-07	441458.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043196	0	0.68590E-07	441463.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043197	0	0.68590E-07	441468.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043198	0	0.68590E-07	441473.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043199	0	0.68590E-07	441478.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043200	0	0.68590E-07	441483.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043201	0	0.68590E-07	441488.3	3761142.6	203.6	3.66	2.33	2.89 YES
L0043202	0	0.68590E-07	441493.3	3761142.5	203.6	3.66	2.33	2.89 YES
L0043203	0	0.68590E-07	441498.3	3761142.5	203.6	3.66	2.33	2.89 YES
L0043204	0	0.68590E-07	441503.3	3761142.5	203.7	3.66	2.33	2.89 YES
L0043205	0	0.68590E-07	441508.3	3761142.5	203.7	3.66	2.33	2.89 YES
L0043206	0	0.68590E-07	441513.3	3761142.5	203.7	3.66	2.33	2.89 YES
L0043207	0	0.68590E-07	441518.3	3761142.5	203.7	3.66	2.33	2.89 YES
L0043208	0	0.68590E-07	441523.3	3761142.5	203.7	3.66	2.33	2.89 YES
L0043209	0	0.68590E-07	441528.3	3761142.5	203.7	3.66	2.33	2.89 YES
L0043210	0	0.68590E-07	441533.3	3761142.5	203.7	3.66	2.33	2.89 YES
L0043211	0	0.68590E-07	441538.3	3761142.5	203.7	3.66	2.33	2.89 YES

```
 L0043212         0   0.68590E-07  441543.3 3761142.5   203.7     3.66     2.33
2.89     YES
 L0043213         0   0.68590E-07  441548.3 3761142.4   203.8     3.66     2.33
2.89     YES
 L0043214         0   0.68590E-07  441553.3 3761142.4   203.8     3.66     2.33
2.89     YES
 L0043215         0   0.68590E-07  441558.3 3761142.4   203.9     3.66     2.33
2.89     YES
 L0043216         0   0.68590E-07  441563.3 3761142.4   203.9     3.66     2.33
2.89     YES
 L0043217         0   0.68590E-07  441568.3 3761142.4   203.9     3.66     2.33
2.89     YES
 L0043218         0   0.68590E-07  441573.3 3761142.4   204.0     3.66     2.33
2.89     YES
 L0043219         0   0.68590E-07  441578.3 3761142.4   204.0     3.66     2.33
2.89     YES
 L0043220         0   0.68590E-07  441583.3 3761142.4   204.1     3.66     2.33
2.89     YES
 L0043221         0   0.68590E-07  441588.3 3761142.4   204.1     3.66     2.33
2.89     YES
 L0043222         0   0.68590E-07  441593.3 3761142.4   204.2     3.66     2.33
2.89     YES
 L0043223         0   0.68590E-07  441598.3 3761142.3   204.2     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0043224         0   0.68590E-07  441603.3 3761142.3   204.3     3.66     2.33
2.89     YES
 L0043225         0   0.68590E-07  441608.3 3761142.3   204.4     3.66     2.33
2.89     YES
```

L0043226	0	0.68590E-07	441613.3	3761142.3	204.4	3.66	2.33	2.89 YES
L0043227	0	0.68590E-07	441618.3	3761142.3	204.5	3.66	2.33	2.89 YES
L0043228	0	0.68590E-07	441623.3	3761142.3	204.5	3.66	2.33	2.89 YES
L0043229	0	0.68590E-07	441628.3	3761142.3	204.5	3.66	2.33	2.89 YES
L0043230	0	0.68590E-07	441633.3	3761142.3	204.4	3.66	2.33	2.89 YES
L0043231	0	0.68590E-07	441638.3	3761142.3	204.4	3.66	2.33	2.89 YES
L0043232	0	0.68590E-07	441643.3	3761142.3	204.3	3.66	2.33	2.89 YES
L0043233	0	0.68590E-07	441648.3	3761142.3	204.3	3.66	2.33	2.89 YES
L0043234	0	0.68590E-07	441653.3	3761142.2	204.2	3.66	2.33	2.89 YES
L0043235	0	0.68590E-07	441658.3	3761142.2	204.2	3.66	2.33	2.89 YES
L0043236	0	0.68590E-07	441663.3	3761142.2	204.1	3.66	2.33	2.89 YES
L0043237	0	0.68590E-07	441668.3	3761142.2	204.0	3.66	2.33	2.89 YES
L0043238	0	0.68590E-07	441673.3	3761142.2	204.0	3.66	2.33	2.89 YES
L0043239	0	0.68590E-07	441678.3	3761142.2	203.9	3.66	2.33	2.89 YES
L0043240	0	0.68590E-07	441683.3	3761142.2	203.9	3.66	2.33	2.89 YES
L0043241	0	0.68590E-07	441688.3	3761142.2	203.8	3.66	2.33	2.89 YES
L0043242	0	0.68590E-07	441693.3	3761142.2	203.8	3.66	2.33	2.89 YES
L0043243	0	0.68590E-07	441698.3	3761142.2	203.7	3.66	2.33	2.89 YES
L0043244	0	0.68590E-07	441703.3	3761142.1	203.8	3.66	2.33	2.89 YES
L0043245	0	0.68590E-07	441708.3	3761142.1	203.8	3.66	2.33	2.89 YES
L0043246	0	0.68590E-07	441713.3	3761142.1	203.8	3.66	2.33	2.89 YES
L0043247	0	0.68590E-07	441718.3	3761142.1	203.9	3.66	2.33	2.89 YES
L0043248	0	0.68590E-07	441723.3	3761142.1	203.9	3.66	2.33	2.89 YES
L0043249	0	0.68590E-07	441728.3	3761142.1	204.0	3.66	2.33	2.89 YES

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 L0043250         0   0.68590E-07  441733.3 3761142.1   204.1     3.66     2.33
2.89     YES
 L0043251         0   0.68590E-07  441738.3 3761142.1   204.2     3.66     2.33
2.89     YES
 L0043252         0   0.68590E-07  441743.3 3761142.1   204.2     3.66     2.33
2.89     YES
 L0043253         0   0.68590E-07  441748.3 3761142.1   204.3     3.66     2.33
2.89     YES
 L0043254         0   0.68590E-07  441753.3 3761142.1   204.4     3.66     2.33
2.89     YES
 L0043255         0   0.68590E-07  441758.3 3761142.0   204.4     3.66     2.33
2.89     YES
 L0043256         0   0.68590E-07  441763.3 3761142.0   204.4     3.66     2.33
2.89     YES
 L0043257         0   0.68590E-07  441768.3 3761142.0   204.5     3.66     2.33
2.89     YES
 L0043258         0   0.68590E-07  441773.3 3761142.0   204.5     3.66     2.33
2.89     YES
 L0043259         0   0.68590E-07  441778.3 3761142.0   204.5     3.66     2.33
2.89     YES
 L0043260         0   0.68590E-07  441783.3 3761142.0   204.5     3.66     2.33
2.89     YES
 L0043261         0   0.68590E-07  441788.3 3761142.0   204.5     3.66     2.33
2.89     YES
 L0043262         0   0.68590E-07  441793.3 3761142.0   204.5     3.66     2.33
2.89     YES
 L0043263         0   0.68590E-07  441798.3 3761142.0   204.6     3.66     2.33
2.89     YES
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

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

L0043264	0	0.68590E-07	441803.3	3761142.0	204.5	3.66	2.33	2.89 YES
L0043265	0	0.68590E-07	441808.3	3761141.9	204.5	3.66	2.33	2.89 YES
L0043266	0	0.68590E-07	441813.3	3761141.9	204.4	3.66	2.33	2.89 YES
L0043267	0	0.68590E-07	441818.3	3761141.9	204.4	3.66	2.33	2.89 YES
L0043268	0	0.68590E-07	441823.3	3761141.9	204.3	3.66	2.33	2.89 YES
L0043269	0	0.68590E-07	441828.3	3761141.9	204.3	3.66	2.33	2.89 YES
L0043270	0	0.68590E-07	441833.3	3761141.9	204.2	3.66	2.33	2.89 YES
L0043271	0	0.68590E-07	441838.3	3761141.9	204.1	3.66	2.33	2.89 YES
L0043272	0	0.68590E-07	441843.3	3761141.9	204.1	3.66	2.33	2.89 YES
L0043273	0	0.68590E-07	441848.3	3761141.9	204.0	3.66	2.33	2.89 YES
L0043274	0	0.68590E-07	441853.3	3761141.9	203.9	3.66	2.33	2.89 YES
L0043275	0	0.68590E-07	441858.3	3761141.9	203.9	3.66	2.33	2.89 YES
L0043276	0	0.68590E-07	441863.3	3761141.8	203.9	3.66	2.33	2.89 YES
L0043277	0	0.68590E-07	441868.3	3761141.8	203.8	3.66	2.33	2.89 YES
L0043278	0	0.68590E-07	441873.3	3761141.8	203.8	3.66	2.33	2.89 YES
L0043279	0	0.68590E-07	441878.3	3761141.8	203.8	3.66	2.33	2.89 YES
L0043280	0	0.68590E-07	441883.3	3761141.8	203.8	3.66	2.33	2.89 YES
L0043281	0	0.68590E-07	441888.3	3761141.8	203.9	3.66	2.33	2.89 YES
L0043282	0	0.68590E-07	441893.3	3761141.8	204.0	3.66	2.33	2.89 YES
L0043283	0	0.68590E-07	441898.3	3761141.8	204.0	3.66	2.33	2.89 YES
L0043284	0	0.68590E-07	441903.3	3761141.8	204.1	3.66	2.33	2.89 YES
L0043285	0	0.68590E-07	441908.3	3761141.8	204.2	3.66	2.33	2.89 YES
L0043286	0	0.68590E-07	441913.3	3761141.8	204.3	3.66	2.33	2.89 YES
L0043287	0	0.68590E-07	441918.3	3761141.7	204.5	3.66	2.33	2.89 YES

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 L0043288         0   0.68590E-07  441923.3 3761141.7   204.6     3.66     2.33
2.89     YES
 L0043289         0   0.68590E-07  441928.3 3761141.7   204.7     3.66     2.33
2.89     YES
 L0043290         0   0.68590E-07  441933.3 3761141.7   204.7     3.66     2.33
2.89     YES
 L0043291         0   0.68590E-07  441938.3 3761141.7   204.7     3.66     2.33
2.89     YES
 L0043292         0   0.68590E-07  441943.3 3761141.7   204.7     3.66     2.33
2.89     YES
 L0043293         0   0.68590E-07  441948.3 3761141.7   204.7     3.66     2.33
2.89     YES
 L0043294         0   0.68590E-07  441953.3 3761141.7   204.7     3.66     2.33
2.89     YES
 L0043295         0   0.68590E-07  441958.3 3761141.7   204.7     3.66     2.33
2.89     YES
 L0043296         0   0.68590E-07  441963.3 3761141.7   204.6     3.66     2.33
2.89     YES
 L0043297         0   0.68590E-07  441968.3 3761141.6   204.5     3.66     2.33
2.89     YES
 L0043298         0   0.68590E-07  441973.3 3761141.6   204.4     3.66     2.33
2.89     YES
 L0043299         0   0.68590E-07  441978.3 3761141.6   204.4     3.66     2.33
2.89     YES
 L0043300         0   0.68590E-07  441983.3 3761141.6   204.3     3.66     2.33
2.89     YES
 L0043301         0   0.68590E-07  441988.3 3761141.6   204.3     3.66     2.33
2.89     YES
 L0043302         0   0.59210E-07  441236.4 3761136.9   203.5     3.66     2.33
2.89     YES
 L0043303         0   0.59210E-07  441236.4 3761131.9   203.5     3.66     2.33
2.89     YES
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

(METERS) BY

- - - -

L0043326	0	0.59210E-07	441235.5	3761016.9	202.8	3.66	2.33	2.89 YES
L0043327	0	0.59210E-07	441235.5	3761011.9	202.7	3.66	2.33	2.89 YES
L0043328	0	0.59210E-07	441235.4	3761006.9	202.7	3.66	2.33	2.89 YES
L0043329	0	0.59210E-07	441235.4	3761001.9	202.7	3.66	2.33	2.89 YES
L0043330	0	0.59210E-07	441235.3	3760996.9	202.6	3.66	2.33	2.89 YES
L0043331	0	0.59210E-07	441235.3	3760991.9	202.6	3.66	2.33	2.89 YES
L0043332	0	0.59210E-07	441235.3	3760986.9	202.6	3.66	2.33	2.89 YES
L0043333	0	0.59210E-07	441235.2	3760981.9	202.5	3.66	2.33	2.89 YES
L0043334	0	0.59210E-07	441235.2	3760976.9	202.5	3.66	2.33	2.89 YES
L0043335	0	0.59210E-07	441235.1	3760971.9	202.5	3.66	2.33	2.89 YES
L0043336	0	0.59210E-07	441235.1	3760966.9	202.4	3.66	2.33	2.89 YES
L0043337	0	0.59210E-07	441235.1	3760961.9	202.4	3.66	2.33	2.89 YES
L0043338	0	0.59210E-07	441235.0	3760956.9	202.4	3.66	2.33	2.89 YES
L0043339	0	0.59210E-07	441235.0	3760951.9	202.3	3.66	2.33	2.89 YES
L0043340	0	0.59210E-07	441234.9	3760946.9	202.3	3.66	2.33	2.89 YES
L0043341	0	0.59210E-07	441234.9	3760941.9	202.3	3.66	2.33	2.89 YES
L0043342	0	0.59210E-07	441234.9	3760936.9	202.2	3.66	2.33	2.89 YES
L0043343	0	0.59210E-07	441234.8	3760931.9	202.2	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT.

INIT. SOURCE ID	URBAN PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE VARY BY
L0043344	0	0.59210E-07	441234.8	3760926.9	202.2	3.66	2.33	2.89	YES
L0043345	0	0.59210E-07	441234.7	3760921.9	202.1	3.66	2.33	2.89	YES
L0043346	0	0.59210E-07	441234.7	3760916.9	202.1	3.66	2.33	2.89	YES
L0043347	0	0.59210E-07	441234.7	3760911.9	202.1	3.66	2.33	2.89	YES
L0043348	0	0.59210E-07	441234.6	3760906.9	202.1	3.66	2.33	2.89	YES
L0043349	0	0.59210E-07	441234.6	3760901.9	202.0	3.66	2.33	2.89	YES
L0043350	0	0.59210E-07	441234.6	3760896.9	202.0	3.66	2.33	2.89	YES
L0043351	0	0.59210E-07	441234.5	3760891.9	202.0	3.66	2.33	2.89	YES
L0043352	0	0.59210E-07	441234.5	3760886.9	201.9	3.66	2.33	2.89	YES
L0043353	0	0.59210E-07	441234.4	3760881.9	201.9	3.66	2.33	2.89	YES
L0043354	0	0.59210E-07	441234.4	3760876.9	201.9	3.66	2.33	2.89	YES
L0043355	0	0.59210E-07	441234.4	3760871.9	201.9	3.66	2.33	2.89	YES
L0043356	0	0.59210E-07	441234.3	3760866.9	201.8	3.66	2.33	2.89	YES
L0043357	0	0.59210E-07	441234.3	3760861.9	201.8	3.66	2.33	2.89	YES
L0043358	0	0.59210E-07	441234.2	3760856.9	201.8	3.66	2.33	2.89	YES
L0043359	0	0.59210E-07	441234.2	3760851.9	201.7	3.66	2.33	2.89	YES
L0043360	0	0.59210E-07	441234.2	3760846.9	201.7	3.66	2.33	2.89	YES
L0043361	0	0.59210E-07	441234.1	3760841.9	201.7	3.66	2.33	2.89	YES
L0043362	0	0.59210E-07	441234.1	3760836.9	201.6	3.66	2.33	2.89	YES
L0043363	0	0.59210E-07	441234.0	3760831.9	201.6	3.66	2.33	2.89	YES

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 L0043364         0   0.59210E-07  441234.0 3760826.9   201.6     3.66     2.33
2.89     YES
 L0043365         0   0.59210E-07  441234.0 3760821.9   201.5     3.66     2.33
2.89     YES
 L0043366         0   0.59210E-07  441233.9 3760816.9   201.5     3.66     2.33
2.89     YES
 L0043367         0   0.59210E-07  441233.9 3760811.9   201.5     3.66     2.33
2.89     YES
 L0043368         0   0.59210E-07  441233.8 3760806.9   201.4     3.66     2.33
2.89     YES
 L0043369         0   0.59210E-07  441233.8 3760801.9   201.4     3.66     2.33
2.89     YES
 L0043370         0   0.59210E-07  441233.8 3760796.9   201.4     3.66     2.33
2.89     YES
 L0043371         0   0.59210E-07  441233.7 3760791.9   201.4     3.66     2.33
2.89     YES
 L0043372         0   0.59210E-07  441233.7 3760786.9   201.3     3.66     2.33
2.89     YES
 L0043373         0   0.59210E-07  441233.6 3760781.9   201.3     3.66     2.33
2.89     YES
 L0043374         0   0.59210E-07  441233.6 3760776.9   201.3     3.66     2.33
2.89     YES
 L0043375         0   0.59210E-07  441233.6 3760771.9   201.2     3.66     2.33
2.89     YES
 L0043376         0   0.59210E-07  441233.5 3760766.9   201.2     3.66     2.33
2.89     YES
 L0043377         0   0.59210E-07  441233.5 3760761.9   201.2     3.66     2.33
2.89     YES
 L0043378         0   0.59210E-07  441233.4 3760756.9   201.1     3.66     2.33
2.89     YES
 L0043379         0   0.59210E-07  441233.4 3760751.9   201.1     3.66     2.33
2.89     YES
 L0043380         0   0.59210E-07  441233.4 3760746.9   201.1     3.66     2.33
2.89     YES
 L0043381         0   0.59210E-07  441233.3 3760741.9   201.1     3.66     2.33
2.89     YES
 L0043382         0   0.59210E-07  441233.3 3760736.9   201.0     3.66     2.33
2.89     YES
 L0043383         0   0.59210E-07  441233.2 3760731.9   201.0     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0043384	0	0.59210E-07	441233.2	3760726.9	201.0	3.66	2.33	2.89	YES
L0043385	0	0.59210E-07	441233.2	3760721.9	200.9	3.66	2.33	2.89	YES
L0043386	0	0.59210E-07	441233.1	3760716.9	200.9	3.66	2.33	2.89	YES
L0043387	0	0.59210E-07	441233.1	3760711.9	200.9	3.66	2.33	2.89	YES
L0043388	0	0.59210E-07	441233.1	3760706.9	200.8	3.66	2.33	2.89	YES
L0043389	0	0.59210E-07	441233.0	3760701.9	200.8	3.66	2.33	2.89	YES
L0043390	0	0.59210E-07	441233.0	3760696.9	200.8	3.66	2.33	2.89	YES
L0043391	0	0.59210E-07	441232.9	3760691.9	200.7	3.66	2.33	2.89	YES
L0043392	0	0.59210E-07	441232.9	3760686.9	200.7	3.66	2.33	2.89	YES
L0043393	0	0.59210E-07	441232.9	3760681.9	200.7	3.66	2.33	2.89	YES
L0043394	0	0.59210E-07	441232.8	3760676.9	200.6	3.66	2.33	2.89	YES
L0043395	0	0.59210E-07	441232.8	3760671.9	200.6	3.66	2.33	2.89	YES
L0043396	0	0.59210E-07	441232.7	3760666.9	200.6	3.66	2.33	2.89	YES
L0043397	0	0.59210E-07	441232.7	3760661.9	200.6	3.66	2.33	2.89	YES
L0043398	0	0.59210E-07	441232.7	3760656.9	200.5	3.66	2.33	2.89	YES
L0043399	0	0.59210E-07	441232.6	3760651.9	200.5	3.66	2.33	2.89	YES
L0043400	0	0.59210E-07	441232.6	3760646.9	200.5	3.66	2.33	2.89	YES
L0043401	0	0.59210E-07	441232.5	3760641.9	200.4	3.66	2.33	2.89	YES

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 L0043402         0   0.59210E-07  441232.5 3760636.9   200.4     3.66     2.33
2.89     YES
 L0043403         0   0.59210E-07  441232.5 3760631.9   200.4     3.66     2.33
2.89     YES
 L0043404         0   0.59210E-07  441232.4 3760626.9   200.3     3.66     2.33
2.89     YES
 L0043405         0   0.59210E-07  441232.4 3760621.9   200.3     3.66     2.33
2.89     YES
 L0043406         0   0.59210E-07  441232.3 3760616.9   200.3     3.66     2.33
2.89     YES
 L0043407         0   0.59210E-07  441232.3 3760611.9   200.3     3.66     2.33
2.89     YES
 L0043408         0   0.59210E-07  441232.3 3760606.9   200.2     3.66     2.33
2.89     YES
 L0043409         0   0.59210E-07  441232.2 3760601.9   200.2     3.66     2.33
2.89     YES
 L0043410         0   0.59210E-07  441232.2 3760596.9   200.2     3.66     2.33
2.89     YES
 L0043411         0   0.59210E-07  441232.1 3760591.9   200.2     3.66     2.33
2.89     YES
 L0043412         0   0.59210E-07  441232.1 3760586.9   200.1     3.66     2.33
2.89     YES
 L0043413         0   0.59210E-07  441232.1 3760581.9   200.1     3.66     2.33
2.89     YES
 L0043414         0   0.59210E-07  441232.2 3760576.9   200.1     3.66     2.33
2.89     YES
 L0043415         0   0.59210E-07  441232.5 3760571.9   200.1     3.66     2.33
2.89     YES
 L0043416         0   0.59210E-07  441232.8 3760566.9   200.1     3.66     2.33
2.89     YES
 L0043417         0   0.59210E-07  441233.1 3760561.9   200.0     3.66     2.33
2.89     YES
 L0043418         0   0.59210E-07  441233.4 3760556.9   200.0     3.66     2.33
2.89     YES
 L0043419         0   0.59210E-07  441233.7 3760551.9   200.0     3.66     2.33
2.89     YES
 L0043420         0   0.59210E-07  441234.0 3760546.9   199.9     3.66     2.33
2.89     YES
 L0043421         0   0.59210E-07  441235.6 3760542.3   199.9     3.66     2.33
2.89     YES
 L0043422         0   0.59210E-07  441237.6 3760537.7   199.9     3.66     2.33
2.89     YES
 L0043423         0   0.59210E-07  441239.7 3760533.2   199.7     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0043424	0	0.59210E-07	441241.8	3760528.6	199.4	3.66	2.33	2.89	YES	
L0043425	0	0.59210E-07	441243.9	3760524.1	199.2	3.66	2.33	2.89	YES	
L0043426	0	0.59210E-07	441246.3	3760519.8	198.9	3.66	2.33	2.89	YES	
L0043427	0	0.59210E-07	441250.5	3760517.0	198.8	3.66	2.33	2.89	YES	
L0043428	0	0.59210E-07	441254.6	3760514.2	198.6	3.66	2.33	2.89	YES	
L0043429	0	0.59210E-07	441258.7	3760511.4	198.4	3.66	2.33	2.89	YES	
L0043430	0	0.59210E-07	441262.8	3760508.6	198.3	3.66	2.33	2.89	YES	
L0043431	0	0.59210E-07	441267.0	3760505.7	198.1	3.66	2.33	2.89	YES	
L0043432	0	0.59210E-07	441271.6	3760504.6	198.1	3.66	2.33	2.89	YES	
L0043433	0	0.59210E-07	441276.6	3760504.4	198.1	3.66	2.33	2.89	YES	
L0043434	0	0.59210E-07	441281.6	3760504.3	198.2	3.66	2.33	2.89	YES	
L0043435	0	0.59210E-07	441286.6	3760504.2	198.2	3.66	2.33	2.89	YES	
L0043436	0	0.59210E-07	441291.6	3760504.0	198.2	3.66	2.33	2.89	YES	
L0043437	0	0.59210E-07	441296.6	3760503.9	198.2	3.66	2.33	2.89	YES	
L0043438	0	0.59210E-07	441301.6	3760503.8	198.2	3.66	2.33	2.89	YES	
L0043439	0	0.59210E-07	441306.6	3760503.6	198.3	3.66	2.33	2.89	YES	

L0043440	0	0.59210E-07	441311.6	3760503.5	198.3	3.66	2.33	2.89 YES
L0043441	0	0.59210E-07	441316.6	3760503.3	198.3	3.66	2.33	2.89 YES
L0043442	0	0.59210E-07	441321.6	3760503.2	198.3	3.66	2.33	2.89 YES
L0043443	0	0.59210E-07	441326.6	3760503.1	198.3	3.66	2.33	2.89 YES
L0043444	0	0.59210E-07	441331.6	3760502.9	198.4	3.66	2.33	2.89 YES
L0043445	0	0.59210E-07	441336.6	3760502.8	198.4	3.66	2.33	2.89 YES
L0043446	0	0.59210E-07	441341.6	3760502.6	198.4	3.66	2.33	2.89 YES
L0043447	0	0.59210E-07	441346.6	3760502.5	198.4	3.66	2.33	2.89 YES
L0043448	0	0.59210E-07	441351.6	3760502.4	198.4	3.66	2.33	2.89 YES
L0043449	0	0.59210E-07	441356.6	3760502.2	198.5	3.66	2.33	2.89 YES
L0043450	0	0.59210E-07	441361.6	3760502.1	198.5	3.66	2.33	2.89 YES
L0043451	0	0.59210E-07	441366.6	3760501.9	198.5	3.66	2.33	2.89 YES
L0043452	0	0.59210E-07	441371.6	3760501.8	198.5	3.66	2.33	2.89 YES
L0043453	0	0.58660E-07	441375.9	3760501.9	198.5	3.66	2.33	2.89 YES
L0043454	0	0.58660E-07	441380.9	3760501.8	198.6	3.66	2.33	2.89 YES
L0043455	0	0.58660E-07	441385.9	3760501.7	198.6	3.66	2.33	2.89 YES
L0043456	0	0.58660E-07	441390.9	3760501.6	198.6	3.66	2.33	2.89 YES
L0043457	0	0.58660E-07	441395.9	3760501.6	198.7	3.66	2.33	2.89 YES
L0043458	0	0.58660E-07	441400.9	3760501.5	198.7	3.66	2.33	2.89 YES
L0043459	0	0.58660E-07	441405.9	3760501.4	198.8	3.66	2.33	2.89 YES
L0043460	0	0.58660E-07	441410.9	3760501.3	198.8	3.66	2.33	2.89 YES
L0043461	0	0.58660E-07	441415.9	3760501.3	198.8	3.66	2.33	2.89 YES
L0043462	0	0.58660E-07	441420.9	3760501.3	198.8	3.66	2.33	2.89 YES
L0043463	0	0.58660E-07	441425.9	3760501.3	198.8	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0043464	0	0.58660E-07	441430.9	3760501.3	198.8	3.66	2.33	2.89	YES	
L0043465	0	0.58660E-07	441435.9	3760501.3	198.8	3.66	2.33	2.89	YES	
L0043466	0	0.58660E-07	441440.9	3760501.3	198.9	3.66	2.33	2.89	YES	
L0043467	0	0.58660E-07	441445.9	3760501.3	198.9	3.66	2.33	2.89	YES	
L0043468	0	0.58660E-07	441450.9	3760501.3	198.9	3.66	2.33	2.89	YES	
L0043469	0	0.58660E-07	441455.9	3760501.3	199.0	3.66	2.33	2.89	YES	
L0043470	0	0.58660E-07	441460.9	3760501.3	199.0	3.66	2.33	2.89	YES	
L0043471	0	0.58660E-07	441465.9	3760501.4	199.1	3.66	2.33	2.89	YES	
L0043472	0	0.58660E-07	441470.9	3760501.5	199.2	3.66	2.33	2.89	YES	
L0043473	0	0.58660E-07	441475.9	3760501.6	199.4	3.66	2.33	2.89	YES	
L0043474	0	0.58660E-07	441480.9	3760501.5	199.5	3.66	2.33	2.89	YES	
L0043475	0	0.58660E-07	441485.9	3760501.4	199.6	3.66	2.33	2.89	YES	
L0043476	0	0.58660E-07	441490.9	3760501.4	199.7	3.66	2.33	2.89	YES	
L0043477	0	0.58660E-07	441495.9	3760501.3	199.6	3.66	2.33	2.89	YES	

L0043478	0	0.58660E-07	441500.9	3760501.3	199.6	3.66	2.33	2.89 YES
L0043479	0	0.58660E-07	441505.9	3760501.3	199.5	3.66	2.33	2.89 YES
L0043480	0	0.58660E-07	441510.8	3760502.2	199.5	3.66	2.33	2.89 YES
L0043481	0	0.58660E-07	441515.5	3760503.5	199.4	3.66	2.33	2.89 YES
L0043482	0	0.58660E-07	441519.2	3760506.9	199.5	3.66	2.33	2.89 YES
L0043483	0	0.58660E-07	441522.8	3760510.3	199.5	3.66	2.33	2.89 YES
L0043484	0	0.58660E-07	441525.0	3760514.8	199.5	3.66	2.33	2.89 YES
L0043485	0	0.58660E-07	441527.1	3760519.3	199.5	3.66	2.33	2.89 YES
L0043486	0	0.58660E-07	441529.1	3760523.9	199.6	3.66	2.33	2.89 YES
L0043487	0	0.58660E-07	441529.1	3760528.9	199.6	3.66	2.33	2.89 YES
L0043488	0	0.58660E-07	441529.1	3760533.9	199.6	3.66	2.33	2.89 YES
L0043489	0	0.58660E-07	441529.2	3760538.9	199.6	3.66	2.33	2.89 YES
L0043490	0	0.58660E-07	441529.2	3760543.9	199.7	3.66	2.33	2.89 YES
L0043491	0	0.58660E-07	441529.2	3760548.9	199.7	3.66	2.33	2.89 YES
L0043492	0	0.58660E-07	441529.2	3760553.9	199.8	3.66	2.33	2.89 YES
L0043493	0	0.58660E-07	441529.2	3760558.9	199.9	3.66	2.33	2.89 YES
L0043494	0	0.58660E-07	441529.2	3760563.9	199.9	3.66	2.33	2.89 YES
L0043495	0	0.58660E-07	441529.3	3760568.9	200.0	3.66	2.33	2.89 YES
L0043496	0	0.58660E-07	441529.3	3760573.9	199.9	3.66	2.33	2.89 YES
L0043497	0	0.58660E-07	441529.3	3760578.9	199.9	3.66	2.33	2.89 YES
L0043498	0	0.58660E-07	441529.3	3760583.9	199.9	3.66	2.33	2.89 YES
L0043499	0	0.58660E-07	441529.3	3760588.9	199.9	3.66	2.33	2.89 YES
L0043500	0	0.58660E-07	441529.3	3760593.9	199.9	3.66	2.33	2.89 YES
L0043501	0	0.58660E-07	441529.4	3760598.9	199.9	3.66	2.33	2.89 YES

 L0043502   0   0.58660E-07 441529.4 3760603.9   200.0   3.66   2.33
2.89   YES
 L0043503   0   0.58660E-07 441529.4 3760608.9   200.0   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

L0043516	0	0.58660E-07	441529.6	3760673.9	200.6	3.66	2.33	2.89 YES
L0043517	0	0.58660E-07	441529.6	3760678.9	200.7	3.66	2.33	2.89 YES
L0043518	0	0.58660E-07	441529.7	3760683.9	200.7	3.66	2.33	2.89 YES
L0043519	0	0.58660E-07	441529.7	3760688.9	200.7	3.66	2.33	2.89 YES
L0043520	0	0.58660E-07	441529.7	3760693.9	200.7	3.66	2.33	2.89 YES
L0043521	0	0.58660E-07	441529.7	3760698.9	200.8	3.66	2.33	2.89 YES
L0043522	0	0.58660E-07	441529.7	3760703.9	200.8	3.66	2.33	2.89 YES
L0043523	0	0.58660E-07	441529.7	3760708.9	200.8	3.66	2.33	2.89 YES
L0043524	0	0.58660E-07	441529.8	3760713.9	200.9	3.66	2.33	2.89 YES
L0043525	0	0.58660E-07	441529.8	3760718.9	200.9	3.66	2.33	2.89 YES
L0043526	0	0.58660E-07	441529.8	3760723.9	200.9	3.66	2.33	2.89 YES
L0043527	0	0.58660E-07	441529.8	3760728.9	201.0	3.66	2.33	2.89 YES
L0043528	0	0.58660E-07	441529.8	3760733.9	201.0	3.66	2.33	2.89 YES
L0043529	0	0.58660E-07	441529.8	3760738.9	201.0	3.66	2.33	2.89 YES
L0043530	0	0.58660E-07	441529.9	3760743.9	201.0	3.66	2.33	2.89 YES
L0043531	0	0.58660E-07	441529.9	3760748.9	201.0	3.66	2.33	2.89 YES
L0043532	0	0.58660E-07	441529.9	3760753.9	201.0	3.66	2.33	2.89 YES
L0043533	0	0.58660E-07	441529.9	3760758.9	201.1	3.66	2.33	2.89 YES
L0043534	0	0.58660E-07	441529.9	3760763.9	201.1	3.66	2.33	2.89 YES
L0043535	0	0.58660E-07	441530.0	3760768.9	201.2	3.66	2.33	2.89 YES
L0043536	0	0.58660E-07	441530.0	3760773.9	201.2	3.66	2.33	2.89 YES
L0043537	0	0.58660E-07	441530.0	3760778.9	201.2	3.66	2.33	2.89 YES
L0043538	0	0.58660E-07	441530.0	3760783.9	201.3	3.66	2.33	2.89 YES
L0043539	0	0.58660E-07	441530.0	3760788.9	201.4	3.66	2.33	2.89 YES

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 L0043540         0   0.58660E-07  441530.0 3760793.9   201.5     3.66     2.33
2.89     YES
 L0043541         0   0.58660E-07  441530.1 3760798.9   201.6     3.66     2.33
2.89     YES
 L0043542         0   0.58660E-07  441530.1 3760803.9   201.6     3.66     2.33
2.89     YES
 L0043543         0   0.58660E-07  441530.1 3760808.9   201.7     3.66     2.33
2.89     YES
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0043544         0   0.58660E-07  441530.1 3760813.9   201.8     3.66     2.33
2.89     YES
 L0043545         0   0.58660E-07  441530.1 3760818.9   201.8     3.66     2.33
2.89     YES
 L0043546         0   0.58660E-07  441530.1 3760823.9   201.8     3.66     2.33
2.89     YES
 L0043547         0   0.58660E-07  441530.2 3760828.9   201.8     3.66     2.33
2.89     YES
 L0043548         0   0.58660E-07  441530.2 3760833.9   201.8     3.66     2.33
2.89     YES
 L0043549         0   0.58660E-07  441530.2 3760838.9   201.8     3.66     2.33
2.89     YES
 L0043550         0   0.58660E-07  441530.2 3760843.9   201.8     3.66     2.33
2.89     YES
 L0043551         0   0.58660E-07  441530.2 3760848.9   201.9     3.66     2.33
2.89     YES
 L0043552         0   0.58660E-07  441530.2 3760853.9   202.0     3.66     2.33
2.89     YES
 L0043553         0   0.58660E-07  441530.3 3760858.9   202.0     3.66     2.33
2.89     YES
```

L0043554	0	0.58660E-07	441530.3	3760863.9	202.1	3.66	2.33	2.89 YES
L0043555	0	0.58660E-07	441530.3	3760868.9	202.2	3.66	2.33	2.89 YES
L0043556	0	0.58660E-07	441530.3	3760873.9	202.2	3.66	2.33	2.89 YES
L0043557	0	0.58660E-07	441530.3	3760878.9	202.2	3.66	2.33	2.89 YES
L0043558	0	0.58660E-07	441530.3	3760883.9	202.2	3.66	2.33	2.89 YES
L0043559	0	0.58660E-07	441530.4	3760888.9	202.2	3.66	2.33	2.89 YES
L0043560	0	0.58660E-07	441530.4	3760893.9	202.2	3.66	2.33	2.89 YES
L0043561	0	0.58660E-07	441530.4	3760898.9	202.2	3.66	2.33	2.89 YES
L0043562	0	0.58660E-07	441530.4	3760903.9	202.2	3.66	2.33	2.89 YES
L0043563	0	0.58660E-07	441530.4	3760908.9	202.2	3.66	2.33	2.89 YES
L0043564	0	0.58660E-07	441530.5	3760913.9	202.2	3.66	2.33	2.89 YES
L0043565	0	0.58660E-07	441530.5	3760918.9	202.2	3.66	2.33	2.89 YES
L0043566	0	0.58660E-07	441530.5	3760923.9	202.3	3.66	2.33	2.89 YES
L0043567	0	0.58660E-07	441530.5	3760928.9	202.3	3.66	2.33	2.89 YES
L0043568	0	0.58660E-07	441530.5	3760933.9	202.3	3.66	2.33	2.89 YES
L0043569	0	0.58660E-07	441530.5	3760938.9	202.3	3.66	2.33	2.89 YES
L0043570	0	0.58660E-07	441530.6	3760943.9	202.4	3.66	2.33	2.89 YES
L0043571	0	0.58660E-07	441530.6	3760948.9	202.4	3.66	2.33	2.89 YES
L0043572	0	0.58660E-07	441530.6	3760953.9	202.4	3.66	2.33	2.89 YES
L0043573	0	0.58660E-07	441530.6	3760958.9	202.4	3.66	2.33	2.89 YES
L0043574	0	0.58660E-07	441530.6	3760963.9	202.5	3.66	2.33	2.89 YES
L0043575	0	0.58660E-07	441530.6	3760968.9	202.5	3.66	2.33	2.89 YES
L0043576	0	0.58660E-07	441530.7	3760973.9	202.5	3.66	2.33	2.89 YES
L0043577	0	0.58660E-07	441530.7	3760978.9	202.6	3.66	2.33	2.89 YES

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 L0043578         0   0.58660E-07  441530.7 3760983.9   202.6     3.66     2.33
2.89     YES
 L0043579         0   0.58660E-07  441530.7 3760988.9   202.6     3.66     2.33
2.89     YES
 L0043580         0   0.58660E-07  441530.7 3760993.9   202.6     3.66     2.33
2.89     YES
 L0043581         0   0.58660E-07  441530.7 3760998.9   202.7     3.66     2.33
2.89     YES
 L0043582         0   0.58660E-07  441530.8 3761003.9   202.7     3.66     2.33
2.89     YES
 L0043583         0   0.58660E-07  441530.8 3761008.9   202.7     3.66     2.33
2.89     YES
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0043584	0	0.58660E-07	441530.8	3761013.9	202.8	3.66	2.33	2.89	YES	
L0043585	0	0.58660E-07	441530.8	3761018.9	202.8	3.66	2.33	2.89	YES	
L0043586	0	0.58660E-07	441530.8	3761023.9	202.8	3.66	2.33	2.89	YES	
L0043587	0	0.58660E-07	441530.9	3761028.9	202.9	3.66	2.33	2.89	YES	
L0043588	0	0.58660E-07	441530.9	3761033.9	202.9	3.66	2.33	2.89	YES	
L0043589	0	0.58660E-07	441530.9	3761038.9	202.9	3.66	2.33	2.89	YES	
L0043590	0	0.58660E-07	441530.9	3761043.9	203.0	3.66	2.33	2.89	YES	
L0043591	0	0.58660E-07	441530.9	3761048.9	203.0	3.66	2.33	2.89	YES	

L0043592	0	0.58660E-07	441530.9	3761053.9	203.0	3.66	2.33	2.89 YES
L0043593	0	0.58660E-07	441531.0	3761058.9	203.1	3.66	2.33	2.89 YES
L0043594	0	0.58660E-07	441531.0	3761063.9	203.1	3.66	2.33	2.89 YES
L0043595	0	0.58660E-07	441531.0	3761068.9	203.1	3.66	2.33	2.89 YES
L0043596	0	0.58660E-07	441531.0	3761073.9	203.2	3.66	2.33	2.89 YES
L0043597	0	0.58660E-07	441531.0	3761078.9	203.2	3.66	2.33	2.89 YES
L0043598	0	0.58660E-07	441531.0	3761083.9	203.2	3.66	2.33	2.89 YES
L0043599	0	0.58660E-07	441531.1	3761088.9	203.3	3.66	2.33	2.89 YES
L0043600	0	0.58660E-07	441531.1	3761093.9	203.3	3.66	2.33	2.89 YES
L0043601	0	0.58660E-07	441531.1	3761098.9	203.4	3.66	2.33	2.89 YES
L0043602	0	0.58660E-07	441531.1	3761103.9	203.4	3.66	2.33	2.89 YES
L0043603	0	0.58660E-07	441531.1	3761108.9	203.4	3.66	2.33	2.89 YES
L0043604	0	0.58660E-07	441531.1	3761113.9	203.5	3.66	2.33	2.89 YES
L0043605	0	0.58660E-07	441531.2	3761118.9	203.5	3.66	2.33	2.89 YES
L0043606	0	0.58660E-07	441531.2	3761123.9	203.6	3.66	2.33	2.89 YES
L0043607	0	0.58660E-07	441531.2	3761128.9	203.6	3.66	2.33	2.89 YES
L0043608	0	0.58660E-07	441531.2	3761133.9	203.6	3.66	2.33	2.89 YES
L0043609	0	0.58660E-07	441531.2	3761138.9	203.7	3.66	2.33	2.89 YES
L0043610	0	0.00000E+00	441258.5	3761193.8	203.9	3.66	1.40	2.89 YES
L0043611	0	0.00000E+00	441261.5	3761193.8	203.9	3.66	1.40	2.89 YES
L0043612	0	0.00000E+00	441264.5	3761193.9	203.9	3.66	1.40	2.89 YES
L0043613	0	0.00000E+00	441267.5	3761193.9	203.9	3.66	1.40	2.89 YES
L0043614	0	0.00000E+00	441270.5	3761193.9	203.9	3.66	1.40	2.89 YES
L0043615	0	0.00000E+00	441273.5	3761194.0	203.9	3.66	1.40	2.89 YES

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 L0043616         0   0.00000E+00  441276.5 3761194.0   203.9     3.66     1.40
2.89     YES
 L0043617         0   0.00000E+00  441279.5 3761194.0   203.9     3.66     1.40
2.89     YES
 L0043618         0   0.00000E+00  441282.5 3761194.0   203.9     3.66     1.40
2.89     YES
 L0043619         0   0.00000E+00  441285.5 3761194.1   203.9     3.66     1.40
2.89     YES
 L0043620         0   0.00000E+00  441288.5 3761194.1   203.9     3.66     1.40
2.89     YES
 L0043621         0   0.00000E+00  441291.5 3761194.1   203.9     3.66     1.40
2.89     YES
 L0043622         0   0.00000E+00  441294.5 3761194.2   203.9     3.66     1.40
2.89     YES
 L0043623         0   0.00000E+00  441297.5 3761194.2   203.9     3.66     1.40
2.89     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0043624	0	0.00000E+00	441300.5	3761194.2	203.9	3.66	1.40	2.89	YES	
L0043625	0	0.00000E+00	441303.5	3761194.2	203.9	3.66	1.40	2.89	YES	
L0043626	0	0.00000E+00	441306.5	3761194.3	203.9	3.66	1.40	2.89	YES	
L0043627	0	0.00000E+00	441309.5	3761194.3	203.9	3.66	1.40	2.89	YES	
L0043628	0	0.00000E+00	441312.5	3761194.3	203.9	3.66	1.40	2.89	YES	
L0043629	0	0.00000E+00	441315.5	3761194.4	203.9	3.66	1.40	2.89	YES	

L0043630	0	0.00000E+00	441417.6	3761195.5	203.9	3.66	1.40	2.89 YES
L0043631	0	0.00000E+00	441420.6	3761195.5	203.9	3.66	1.40	2.89 YES
L0043632	0	0.00000E+00	441423.6	3761195.5	203.9	3.66	1.40	2.89 YES
L0043633	0	0.00000E+00	441426.6	3761195.5	203.9	3.66	1.40	2.89 YES
L0043634	0	0.00000E+00	441429.6	3761195.5	203.9	3.66	1.40	2.89 YES
L0043635	0	0.00000E+00	441432.6	3761195.5	203.9	3.66	1.40	2.89 YES
L0043636	0	0.00000E+00	441435.6	3761195.4	203.9	3.66	1.40	2.89 YES
L0043637	0	0.00000E+00	441438.6	3761195.4	203.9	3.66	1.40	2.89 YES
L0043638	0	0.00000E+00	441441.6	3761195.4	203.9	3.66	1.40	2.89 YES
L0043639	0	0.00000E+00	441444.6	3761195.4	203.9	3.66	1.40	2.89 YES
L0043640	0	0.00000E+00	441447.6	3761195.4	203.9	3.66	1.40	2.89 YES
L0043641	0	0.00000E+00	441450.6	3761195.4	204.0	3.66	1.40	2.89 YES
L0043642	0	0.00000E+00	441453.6	3761195.3	204.0	3.66	1.40	2.89 YES
L0043643	0	0.00000E+00	441456.6	3761195.3	204.0	3.66	1.40	2.89 YES
L0043644	0	0.00000E+00	441459.6	3761195.3	204.0	3.66	1.40	2.89 YES
L0043645	0	0.00000E+00	441462.6	3761195.3	204.0	3.66	1.40	2.89 YES
L0043646	0	0.00000E+00	441465.6	3761195.3	204.0	3.66	1.40	2.89 YES
L0043647	0	0.00000E+00	441468.6	3761195.3	204.0	3.66	1.40	2.89 YES
L0043648	0	0.00000E+00	441471.6	3761195.2	204.0	3.66	1.40	2.89 YES
L0043649	0	0.00000E+00	441474.6	3761195.2	204.0	3.66	1.40	2.89 YES
L0043650	0	0.00000E+00	441554.3	3761194.6	204.2	3.66	1.40	2.89 YES
L0043651	0	0.00000E+00	441557.3	3761194.6	204.2	3.66	1.40	2.89 YES
L0043652	0	0.00000E+00	441560.3	3761194.6	204.2	3.66	1.40	2.89 YES
L0043653	0	0.00000E+00	441563.3	3761194.6	204.3	3.66	1.40	2.89 YES

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 L0043654         0   0.00000E+00  441566.3 3761194.7   204.3     3.66     1.40
2.89     YES
 L0043655         0   0.00000E+00  441569.3 3761194.7   204.3     3.66     1.40
2.89     YES
 L0043656         0   0.00000E+00  441572.3 3761194.7   204.4     3.66     1.40
2.89     YES
 L0043657         0   0.00000E+00  441575.3 3761194.7   204.4     3.66     1.40
2.89     YES
 L0043658         0   0.00000E+00  441578.3 3761194.7   204.4     3.66     1.40
2.89     YES
 L0043659         0   0.00000E+00  441581.3 3761194.7   204.5     3.66     1.40
2.89     YES
 L0043660         0   0.00000E+00  441584.3 3761194.8   204.5     3.66     1.40
2.89     YES
 L0043661         0   0.00000E+00  441587.3 3761194.8   204.5     3.66     1.40
2.89     YES
 L0043662         0   0.00000E+00  441590.3 3761194.8   204.5     3.66     1.40
2.89     YES
 L0043663         0   0.00000E+00  441593.3 3761194.8   204.6     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0043664         0   0.00000E+00  441596.3 3761194.8   204.6     3.66     1.40
2.89     YES
 L0043665         0   0.00000E+00  441599.3 3761194.8   204.6     3.66     1.40
2.89     YES
 L0043666         0   0.00000E+00  441602.3 3761194.8   204.6     3.66     1.40
2.89     YES
 L0043667         0   0.00000E+00  441605.3 3761194.9   204.7     3.66     1.40
2.89     YES
```

L0043668	0	0.00000E+00	441608.3	3761194.9	204.7	3.66	1.40	2.89 YES
L0043669	0	0.00000E+00	441611.3	3761194.9	204.7	3.66	1.40	2.89 YES
L0043670	0	0.00000E+00	441614.3	3761194.9	204.8	3.66	1.40	2.89 YES
L0043671	0	0.00000E+00	441617.3	3761194.9	204.8	3.66	1.40	2.89 YES
L0043672	0	0.00000E+00	441708.2	3761196.1	204.8	3.66	1.40	2.89 YES
L0043673	0	0.00000E+00	441711.2	3761196.1	204.8	3.66	1.40	2.89 YES
L0043674	0	0.00000E+00	441714.2	3761196.1	204.8	3.66	1.40	2.89 YES
L0043675	0	0.00000E+00	441717.2	3761196.1	204.8	3.66	1.40	2.89 YES
L0043676	0	0.00000E+00	441720.2	3761196.1	204.8	3.66	1.40	2.89 YES
L0043677	0	0.00000E+00	441723.2	3761196.1	204.8	3.66	1.40	2.89 YES
L0043678	0	0.00000E+00	441726.2	3761196.1	204.8	3.66	1.40	2.89 YES
L0043679	0	0.00000E+00	441729.2	3761196.1	204.8	3.66	1.40	2.89 YES
L0043680	0	0.00000E+00	441732.2	3761196.1	204.8	3.66	1.40	2.89 YES
L0043681	0	0.00000E+00	441735.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043682	0	0.00000E+00	441738.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043683	0	0.00000E+00	441741.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043684	0	0.00000E+00	441744.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043685	0	0.00000E+00	441747.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043686	0	0.00000E+00	441750.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043687	0	0.00000E+00	441753.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043688	0	0.00000E+00	441756.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043689	0	0.00000E+00	441759.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043690	0	0.00000E+00	441762.2	3761196.1	204.7	3.66	1.40	2.89 YES
L0043691	0	0.00000E+00	441765.2	3761196.1	204.7	3.66	1.40	2.89 YES

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 L0043692         0   0.00000E+00  441768.2 3761196.1   204.8     3.66     1.40
2.89     YES
 L0043693         0   0.00000E+00  441771.2 3761196.1   204.8     3.66     1.40
2.89     YES
 L0043694         0   0.00000E+00  441878.9 3761193.8   204.3     3.66     1.40
2.89     YES
 L0043695         0   0.00000E+00  441881.9 3761193.8   204.4     3.66     1.40
2.89     YES
 L0043696         0   0.00000E+00  441884.9 3761193.8   204.4     3.66     1.40
2.89     YES
 L0043697         0   0.00000E+00  441887.9 3761193.9   204.4     3.66     1.40
2.89     YES
 L0043698         0   0.00000E+00  441890.9 3761193.9   204.5     3.66     1.40
2.89     YES
 L0043699         0   0.00000E+00  441893.9 3761193.9   204.5     3.66     1.40
2.89     YES
 L0043700         0   0.00000E+00  441896.9 3761193.9   204.5     3.66     1.40
2.89     YES
 L0043701         0   0.00000E+00  441899.9 3761193.9   204.5     3.66     1.40
2.89     YES
 L0043702         0   0.00000E+00  441902.9 3761193.9   204.6     3.66     1.40
2.89     YES
 L0043703         0   0.00000E+00  441905.9 3761194.0   204.6     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0043704         0   0.00000E+00  441908.9 3761194.0   204.7     3.66     1.40
2.89     YES
 L0043705         0   0.00000E+00  441911.9 3761194.0   204.7     3.66     1.40
2.89     YES
```

L0043706	0	0.00000E+00	441914.9	3761194.0	204.8	3.66	1.40	2.89 YES
L0043707	0	0.00000E+00	441917.9	3761194.0	204.8	3.66	1.40	2.89 YES
L0043708	0	0.00000E+00	441920.9	3761194.0	204.9	3.66	1.40	2.89 YES
L0043709	0	0.00000E+00	441923.9	3761194.1	204.9	3.66	1.40	2.89 YES
L0043710	0	0.00000E+00	441926.9	3761194.1	205.0	3.66	1.40	2.89 YES
L0043711	0	0.00000E+00	441929.9	3761194.1	205.0	3.66	1.40	2.89 YES
L0043712	0	0.00000E+00	441932.9	3761194.1	205.1	3.66	1.40	2.89 YES
L0043713	0	0.00000E+00	441935.9	3761194.1	205.1	3.66	1.40	2.89 YES
L0043714	0	0.00000E+00	441938.9	3761194.1	205.1	3.66	1.40	2.89 YES
L0043715	0	0.00000E+00	441626.1	3761087.8	204.1	3.66	1.40	2.89 YES
L0043716	0	0.00000E+00	441629.1	3761087.7	204.0	3.66	1.40	2.89 YES
L0043717	0	0.00000E+00	441632.1	3761087.7	204.0	3.66	1.40	2.89 YES
L0043718	0	0.00000E+00	441635.1	3761087.7	204.0	3.66	1.40	2.89 YES
L0043719	0	0.00000E+00	441638.1	3761087.7	204.0	3.66	1.40	2.89 YES
L0043720	0	0.00000E+00	441641.1	3761087.7	204.0	3.66	1.40	2.89 YES
L0043721	0	0.00000E+00	441644.1	3761087.7	203.9	3.66	1.40	2.89 YES
L0043722	0	0.00000E+00	441647.1	3761087.6	203.9	3.66	1.40	2.89 YES
L0043723	0	0.00000E+00	441650.1	3761087.6	203.9	3.66	1.40	2.89 YES
L0043724	0	0.00000E+00	441653.1	3761087.6	203.9	3.66	1.40	2.89 YES
L0043725	0	0.00000E+00	441656.1	3761087.6	203.9	3.66	1.40	2.89 YES
L0043726	0	0.00000E+00	441659.1	3761087.6	203.9	3.66	1.40	2.89 YES
L0043727	0	0.00000E+00	441662.1	3761087.5	203.8	3.66	1.40	2.89 YES
L0043728	0	0.00000E+00	441665.1	3761087.5	203.8	3.66	1.40	2.89 YES
L0043729	0	0.00000E+00	441668.1	3761087.5	203.8	3.66	1.40	2.89 YES

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 L0043730         0   0.00000E+00  441671.1 3761087.5   203.8     3.66     1.40
2.89     YES
 L0043731         0   0.00000E+00  441674.1 3761087.5   203.7     3.66     1.40
2.89     YES
 L0043732         0   0.00000E+00  441677.1 3761087.5   203.7     3.66     1.40
2.89     YES
 L0043733         0   0.00000E+00  441680.1 3761087.4   203.6     3.66     1.40
2.89     YES
 L0043734         0   0.00000E+00  441683.1 3761087.4   203.6     3.66     1.40
2.89     YES
 L0043735         0   0.00000E+00  441686.1 3761087.4   203.5     3.66     1.40
2.89     YES
 L0043736         0   0.00000E+00  441689.1 3761087.4   203.5     3.66     1.40
2.89     YES
 L0043737         0   0.00000E+00  441692.1 3761087.4   203.4     3.66     1.40
2.89     YES
 L0043738         0   0.00000E+00  441695.1 3761087.3   203.4     3.66     1.40
2.89     YES
 L0043739         0   0.00000E+00  441698.1 3761087.3   203.4     3.66     1.40
2.89     YES
 L0043740         0   0.00000E+00  441701.1 3761087.3   203.4     3.66     1.40
2.89     YES
 L0043741         0   0.00000E+00  441704.1 3761087.3   203.4     3.66     1.40
2.89     YES
 L0043742         0   0.00000E+00  441707.1 3761087.3   203.4     3.66     1.40
2.89     YES
 L0043743         0   0.00000E+00  441710.1 3761087.2   203.4     3.66     1.40
2.89     YES
↑ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
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L0043744	0	0.00000E+00	441713.1	3761087.2	203.5	3.66	1.40	2.89 YES
L0043745	0	0.00000E+00	441716.1	3761087.2	203.5	3.66	1.40	2.89 YES
L0043746	0	0.00000E+00	441719.1	3761087.2	203.5	3.66	1.40	2.89 YES
L0043747	0	0.00000E+00	441722.1	3761087.2	203.5	3.66	1.40	2.89 YES
L0043748	0	0.00000E+00	441725.1	3761087.2	203.6	3.66	1.40	2.89 YES
L0043749	0	0.00000E+00	441728.1	3761087.1	203.6	3.66	1.40	2.89 YES
L0043750	0	0.00000E+00	441731.1	3761087.1	203.6	3.66	1.40	2.89 YES
L0043751	0	0.00000E+00	441734.1	3761087.1	203.7	3.66	1.40	2.89 YES
L0043752	0	0.00000E+00	441737.1	3761087.1	203.7	3.66	1.40	2.89 YES
L0043753	0	0.00000E+00	441740.1	3761087.1	203.8	3.66	1.40	2.89 YES
L0043754	0	0.00000E+00	441743.1	3761087.0	203.8	3.66	1.40	2.89 YES
L0043755	0	0.00000E+00	441746.1	3761087.0	203.9	3.66	1.40	2.89 YES
L0043756	0	0.00000E+00	441749.1	3761087.0	203.9	3.66	1.40	2.89 YES
L0043757	0	0.00000E+00	441752.1	3761087.0	203.9	3.66	1.40	2.89 YES
L0043758	0	0.00000E+00	441755.1	3761087.0	203.9	3.66	1.40	2.89 YES
L0043759	0	0.00000E+00	441758.1	3761087.0	204.0	3.66	1.40	2.89 YES
L0043760	0	0.00000E+00	441761.1	3761086.9	204.0	3.66	1.40	2.89 YES
L0043761	0	0.00000E+00	441764.1	3761086.9	204.0	3.66	1.40	2.89 YES
L0043762	0	0.00000E+00	441767.1	3761086.9	204.0	3.66	1.40	2.89 YES
L0043763	0	0.00000E+00	441770.1	3761086.9	204.1	3.66	1.40	2.89 YES
L0043764	0	0.00000E+00	441773.1	3761086.9	204.1	3.66	1.40	2.89 YES
L0043765	0	0.00000E+00	441776.1	3761086.8	204.1	3.66	1.40	2.89 YES
L0043766	0	0.00000E+00	441779.1	3761086.8	204.1	3.66	1.40	2.89 YES
L0043767	0	0.00000E+00	441782.1	3761086.8	204.1	3.66	1.40	2.89 YES

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 L0043768         0   0.00000E+00  441785.1 3761086.8   204.1     3.66     1.40
2.89     YES
 L0043769         0   0.00000E+00  441788.1 3761086.8   204.1     3.66     1.40
2.89     YES
 L0043770         0   0.00000E+00  441791.1 3761086.7   204.1     3.66     1.40
2.89     YES
 L0043771         0   0.00000E+00  441794.1 3761086.7   204.1     3.66     1.40
2.89     YES
 L0043772         0   0.00000E+00  441797.1 3761086.7   204.1     3.66     1.40
2.89     YES
 L0043773         0   0.00000E+00  441800.1 3761086.7   204.1     3.66     1.40
2.89     YES
 L0043774         0   0.00000E+00  441803.1 3761086.7   204.1     3.66     1.40
2.89     YES
 L0043775         0   0.00000E+00  441806.1 3761086.7   204.0     3.66     1.40
2.89     YES
 L0043776         0   0.00000E+00  441809.1 3761086.6   204.0     3.66     1.40
2.89     YES
 L0043777         0   0.00000E+00  441812.1 3761086.6   203.9     3.66     1.40
2.89     YES
 L0043778         0   0.00000E+00  441815.1 3761086.6   203.9     3.66     1.40
2.89     YES
 L0043779         0   0.00000E+00  441818.1 3761086.6   203.9     3.66     1.40
2.89     YES
 L0043780         0   0.00000E+00  441821.1 3761086.6   203.8     3.66     1.40
2.89     YES
 L0043781         0   0.00000E+00  441824.1 3761086.5   203.8     3.66     1.40
2.89     YES
 L0043782         0   0.00000E+00  441827.1 3761086.5   203.7     3.66     1.40
2.89     YES
 L0043783         0   0.00000E+00  441830.1 3761086.5   203.7     3.66     1.40
2.89     YES
↟ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
```

(METERS) BY

- - - -

L0043806	0	0.00000E+00	441899.1	3761086.1	203.7	3.66	1.40	2.89 YES
L0043807	0	0.00000E+00	441902.1	3761086.1	203.7	3.66	1.40	2.89 YES
L0043808	0	0.00000E+00	441905.1	3761086.0	203.8	3.66	1.40	2.89 YES
L0043809	0	0.00000E+00	441908.1	3761086.0	203.8	3.66	1.40	2.89 YES
L0043810	0	0.00000E+00	441911.1	3761086.0	203.9	3.66	1.40	2.89 YES
L0043811	0	0.00000E+00	441624.2	3760908.8	202.6	3.66	1.40	2.89 YES
L0043812	0	0.00000E+00	441627.2	3760908.8	202.6	3.66	1.40	2.89 YES
L0043813	0	0.00000E+00	441630.2	3760908.9	202.5	3.66	1.40	2.89 YES
L0043814	0	0.00000E+00	441633.2	3760908.9	202.5	3.66	1.40	2.89 YES
L0043815	0	0.00000E+00	441636.2	3760908.9	202.5	3.66	1.40	2.89 YES
L0043816	0	0.00000E+00	441639.2	3760908.9	202.5	3.66	1.40	2.89 YES
L0043817	0	0.00000E+00	441642.2	3760908.9	202.5	3.66	1.40	2.89 YES
L0043818	0	0.00000E+00	441645.2	3760908.9	202.5	3.66	1.40	2.89 YES
L0043819	0	0.00000E+00	441648.2	3760908.9	202.4	3.66	1.40	2.89 YES
L0043820	0	0.00000E+00	441651.2	3760908.9	202.4	3.66	1.40	2.89 YES
L0043821	0	0.00000E+00	441654.2	3760908.9	202.4	3.66	1.40	2.89 YES
L0043822	0	0.00000E+00	441657.2	3760909.0	202.4	3.66	1.40	2.89 YES
L0043823	0	0.00000E+00	441660.2	3760909.0	202.4	3.66	1.40	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE		BASE	RELEASE	INIT.

INIT. SOURCE ID	URBAN PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE VARY BY
L0043824	0	0.00000E+00	441663.2	3760909.0	202.4	3.66	1.40	2.89	YES
L0043825	0	0.00000E+00	441666.2	3760909.0	202.4	3.66	1.40	2.89	YES
L0043826	0	0.00000E+00	441669.2	3760909.0	202.4	3.66	1.40	2.89	YES
L0043827	0	0.00000E+00	441672.2	3760909.0	202.4	3.66	1.40	2.89	YES
L0043828	0	0.00000E+00	441675.2	3760909.0	202.4	3.66	1.40	2.89	YES
L0043829	0	0.00000E+00	441678.2	3760909.0	202.4	3.66	1.40	2.89	YES
L0043830	0	0.00000E+00	441681.2	3760909.0	202.4	3.66	1.40	2.89	YES
L0043831	0	0.00000E+00	441684.2	3760909.1	202.3	3.66	1.40	2.89	YES
L0043832	0	0.00000E+00	441687.2	3760909.1	202.3	3.66	1.40	2.89	YES
L0043833	0	0.00000E+00	441690.2	3760909.1	202.3	3.66	1.40	2.89	YES
L0043834	0	0.00000E+00	441693.2	3760909.1	202.3	3.66	1.40	2.89	YES
L0043835	0	0.00000E+00	441696.2	3760909.1	202.3	3.66	1.40	2.89	YES
L0043836	0	0.00000E+00	441699.2	3760909.1	202.3	3.66	1.40	2.89	YES
L0043837	0	0.00000E+00	441702.2	3760909.1	202.3	3.66	1.40	2.89	YES
L0043838	0	0.00000E+00	441705.2	3760909.1	202.3	3.66	1.40	2.89	YES
L0043839	0	0.00000E+00	441708.2	3760909.2	202.3	3.66	1.40	2.89	YES
L0043840	0	0.00000E+00	441711.2	3760909.2	202.3	3.66	1.40	2.89	YES
L0043841	0	0.00000E+00	441714.2	3760909.2	202.3	3.66	1.40	2.89	YES
L0043842	0	0.00000E+00	441717.2	3760909.2	202.3	3.66	1.40	2.89	YES
L0043843	0	0.00000E+00	441720.2	3760909.2	202.3	3.66	1.40	2.89	YES

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 L0043844         0   0.00000E+00  441723.2 3760909.2   202.3     3.66     1.40
2.89     YES
 L0043845         0   0.00000E+00  441726.2 3760909.2   202.4     3.66     1.40
2.89     YES
 L0043846         0   0.00000E+00  441729.2 3760909.2   202.4     3.66     1.40
2.89     YES
 L0043847         0   0.00000E+00  441732.2 3760909.2   202.4     3.66     1.40
2.89     YES
 L0043848         0   0.00000E+00  441735.2 3760909.3   202.4     3.66     1.40
2.89     YES
 L0043849         0   0.00000E+00  441738.2 3760909.3   202.5     3.66     1.40
2.89     YES
 L0043850         0   0.00000E+00  441741.2 3760909.3   202.5     3.66     1.40
2.89     YES
 L0043851         0   0.00000E+00  441744.2 3760909.3   202.5     3.66     1.40
2.89     YES
 L0043852         0   0.00000E+00  441747.2 3760909.3   202.5     3.66     1.40
2.89     YES
 L0043853         0   0.00000E+00  441750.2 3760909.3   202.6     3.66     1.40
2.89     YES
 L0043854         0   0.00000E+00  441753.2 3760909.3   202.6     3.66     1.40
2.89     YES
 L0043855         0   0.00000E+00  441756.2 3760909.3   202.6     3.66     1.40
2.89     YES
 L0043856         0   0.00000E+00  441759.2 3760909.3   202.6     3.66     1.40
2.89     YES
 L0043857         0   0.00000E+00  441762.2 3760909.4   202.7     3.66     1.40
2.89     YES
 L0043858         0   0.00000E+00  441765.2 3760909.4   202.7     3.66     1.40
2.89     YES
 L0043859         0   0.00000E+00  441768.2 3760909.4   202.7     3.66     1.40
2.89     YES
 L0043860         0   0.00000E+00  441771.2 3760909.4   202.7     3.66     1.40
2.89     YES
 L0043861         0   0.00000E+00  441774.2 3760909.4   202.7     3.66     1.40
2.89     YES
 L0043862         0   0.00000E+00  441777.2 3760909.4   202.7     3.66     1.40
2.89     YES
 L0043863         0   0.00000E+00  441780.2 3760909.4   202.7     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE SCALAR VARY BY	(GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0043864	0	0.00000E+00		441783.2	3760909.4	202.7	3.66	1.40	2.89	YES
L0043865	0	0.00000E+00		441786.2	3760909.4	202.8	3.66	1.40	2.89	YES
L0043866	0	0.00000E+00		441789.2	3760909.5	202.8	3.66	1.40	2.89	YES
L0043867	0	0.00000E+00		441792.2	3760909.5	202.8	3.66	1.40	2.89	YES
L0043868	0	0.00000E+00		441795.2	3760909.5	202.8	3.66	1.40	2.89	YES
L0043869	0	0.00000E+00		441798.2	3760909.5	202.8	3.66	1.40	2.89	YES
L0043870	0	0.00000E+00		441801.2	3760909.5	202.8	3.66	1.40	2.89	YES
L0043871	0	0.00000E+00		441804.2	3760909.5	202.7	3.66	1.40	2.89	YES
L0043872	0	0.00000E+00		441807.2	3760909.5	202.7	3.66	1.40	2.89	YES
L0043873	0	0.00000E+00		441810.2	3760909.5	202.7	3.66	1.40	2.89	YES
L0043874	0	0.00000E+00		441813.2	3760909.5	202.7	3.66	1.40	2.89	YES
L0043875	0	0.00000E+00		441816.2	3760909.6	202.6	3.66	1.40	2.89	YES
L0043876	0	0.00000E+00		441819.2	3760909.6	202.6	3.66	1.40	2.89	YES
L0043877	0	0.00000E+00		441822.2	3760909.6	202.6	3.66	1.40	2.89	YES
L0043878	0	0.00000E+00		441825.2	3760909.6	202.6	3.66	1.40	2.89	YES
L0043879	0	0.00000E+00		441828.2	3760909.6	202.5	3.66	1.40	2.89	YES
L0043880	0	0.00000E+00		441831.2	3760909.6	202.5	3.66	1.40	2.89	YES
L0043881	0	0.00000E+00		441834.2	3760909.6	202.5	3.66	1.40	2.89	YES

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 L0043882         0   0.00000E+00  441837.2 3760909.6   202.4     3.66     1.40
2.89     YES
 L0043883         0   0.00000E+00  441840.2 3760909.7   202.4     3.66     1.40
2.89     YES
 L0043884         0   0.00000E+00  441843.2 3760909.7   202.4     3.66     1.40
2.89     YES
 L0043885         0   0.00000E+00  441846.2 3760909.7   202.4     3.66     1.40
2.89     YES
 L0043886         0   0.00000E+00  441849.2 3760909.7   202.3     3.66     1.40
2.89     YES
 L0043887         0   0.00000E+00  441852.2 3760909.7   202.3     3.66     1.40
2.89     YES
 L0043888         0   0.00000E+00  441855.2 3760909.7   202.3     3.66     1.40
2.89     YES
 L0043889         0   0.00000E+00  441858.2 3760909.7   202.3     3.66     1.40
2.89     YES
 L0043890         0   0.00000E+00  441861.2 3760909.7   202.3     3.66     1.40
2.89     YES
 L0043891         0   0.00000E+00  441864.2 3760909.7   202.3     3.66     1.40
2.89     YES
 L0043892         0   0.00000E+00  441867.2 3760909.8   202.3     3.66     1.40
2.89     YES
 L0043893         0   0.00000E+00  441870.2 3760909.8   202.3     3.66     1.40
2.89     YES
 L0043894         0   0.00000E+00  441873.2 3760909.8   202.4     3.66     1.40
2.89     YES
 L0043895         0   0.00000E+00  441876.2 3760909.8   202.4     3.66     1.40
2.89     YES
 L0043896         0   0.00000E+00  441879.2 3760909.8   202.4     3.66     1.40
2.89     YES
 L0043897         0   0.00000E+00  441882.2 3760909.8   202.4     3.66     1.40
2.89     YES
 L0043898         0   0.00000E+00  441885.2 3760909.8   202.5     3.66     1.40
2.89     YES
 L0043899         0   0.00000E+00  441888.2 3760909.8   202.5     3.66     1.40
2.89     YES
 L0043900         0   0.00000E+00  441891.2 3760909.8   202.6     3.66     1.40
2.89     YES
 L0043901         0   0.00000E+00  441894.2 3760909.9   202.6     3.66     1.40
2.89     YES
 L0043902         0   0.00000E+00  441897.2 3760909.9   202.6     3.66     1.40
2.89     YES
 L0043903         0   0.00000E+00  441900.2 3760909.9   202.7     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0043904	0	0.00000E+00	441903.2	3760909.9	202.7	3.66	1.40	2.89	YES	
L0043905	0	0.00000E+00	441906.2	3760909.9	202.8	3.66	1.40	2.89	YES	
L0043906	0	0.00000E+00	441909.2	3760909.9	202.8	3.66	1.40	2.89	YES	
L0043907	0	0.00000E+00	441902.9	3760783.4	201.8	3.66	1.40	2.89	YES	
L0043908	0	0.00000E+00	441899.9	3760783.5	201.8	3.66	1.40	2.89	YES	
L0043909	0	0.00000E+00	441896.9	3760783.5	201.7	3.66	1.40	2.89	YES	
L0043910	0	0.00000E+00	441893.9	3760783.6	201.7	3.66	1.40	2.89	YES	
L0043911	0	0.00000E+00	441890.9	3760783.7	201.7	3.66	1.40	2.89	YES	
L0043912	0	0.00000E+00	441887.9	3760783.7	201.7	3.66	1.40	2.89	YES	
L0043913	0	0.00000E+00	441884.9	3760783.8	201.7	3.66	1.40	2.89	YES	
L0043914	0	0.00000E+00	441881.9	3760783.9	201.6	3.66	1.40	2.89	YES	
L0043915	0	0.00000E+00	441878.9	3760783.9	201.6	3.66	1.40	2.89	YES	
L0043916	0	0.00000E+00	441875.9	3760784.0	201.6	3.66	1.40	2.89	YES	
L0043917	0	0.00000E+00	441872.9	3760784.0	201.6	3.66	1.40	2.89	YES	
L0043918	0	0.00000E+00	441869.9	3760784.1	201.6	3.66	1.40	2.89	YES	
L0043919	0	0.00000E+00	441866.9	3760784.2	201.6	3.66	1.40	2.89	YES	

L0043920	0	0.00000E+00	441863.9	3760784.2	201.6	3.66	1.40	2.89 YES
L0043921	0	0.00000E+00	441860.9	3760784.3	201.6	3.66	1.40	2.89 YES
L0043922	0	0.00000E+00	441857.9	3760784.4	201.6	3.66	1.40	2.89 YES
L0043923	0	0.00000E+00	441854.9	3760784.4	201.6	3.66	1.40	2.89 YES
L0043924	0	0.00000E+00	441851.9	3760784.5	201.5	3.66	1.40	2.89 YES
L0043925	0	0.00000E+00	441848.9	3760784.6	201.5	3.66	1.40	2.89 YES
L0043926	0	0.00000E+00	441845.9	3760784.6	201.5	3.66	1.40	2.89 YES
L0043927	0	0.00000E+00	441842.9	3760784.7	201.5	3.66	1.40	2.89 YES
L0043928	0	0.00000E+00	441839.9	3760784.7	201.5	3.66	1.40	2.89 YES
L0043929	0	0.00000E+00	441836.9	3760784.8	201.5	3.66	1.40	2.89 YES
L0043930	0	0.00000E+00	441833.9	3760784.9	201.5	3.66	1.40	2.89 YES
L0043931	0	0.00000E+00	441830.9	3760784.9	201.5	3.66	1.40	2.89 YES
L0043932	0	0.00000E+00	441827.9	3760785.0	201.5	3.66	1.40	2.89 YES
L0043933	0	0.00000E+00	441824.9	3760785.1	201.5	3.66	1.40	2.89 YES
L0043934	0	0.00000E+00	441821.9	3760785.1	201.5	3.66	1.40	2.89 YES
L0043935	0	0.00000E+00	441818.9	3760785.2	201.5	3.66	1.40	2.89 YES
L0043936	0	0.00000E+00	441815.9	3760785.3	201.5	3.66	1.40	2.89 YES
L0043937	0	0.00000E+00	441812.9	3760785.3	201.5	3.66	1.40	2.89 YES
L0043938	0	0.00000E+00	441809.9	3760785.4	201.5	3.66	1.40	2.89 YES
L0043939	0	0.00000E+00	441806.9	3760785.4	201.5	3.66	1.40	2.89 YES
L0043940	0	0.00000E+00	441803.9	3760785.5	201.4	3.66	1.40	2.89 YES
L0043941	0	0.00000E+00	441800.9	3760785.6	201.4	3.66	1.40	2.89 YES
L0043942	0	0.00000E+00	441797.9	3760785.6	201.4	3.66	1.40	2.89 YES
L0043943	0	0.00000E+00	441794.9	3760785.7	201.4	3.66	1.40	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0043944	0	0.00000E+00	441791.9	3760785.8	201.4	3.66	1.40	2.89	YES	
L0043945	0	0.00000E+00	441788.9	3760785.8	201.5	3.66	1.40	2.89	YES	
L0043946	0	0.00000E+00	441785.9	3760785.9	201.5	3.66	1.40	2.89	YES	
L0043947	0	0.00000E+00	441782.9	3760786.0	201.5	3.66	1.40	2.89	YES	
L0043948	0	0.00000E+00	441779.9	3760786.0	201.5	3.66	1.40	2.89	YES	
L0043949	0	0.00000E+00	441776.9	3760786.1	201.5	3.66	1.40	2.89	YES	
L0043950	0	0.00000E+00	441773.9	3760786.1	201.5	3.66	1.40	2.89	YES	
L0043951	0	0.00000E+00	441770.9	3760786.2	201.5	3.66	1.40	2.89	YES	
L0043952	0	0.00000E+00	441767.9	3760786.3	201.5	3.66	1.40	2.89	YES	
L0043953	0	0.00000E+00	441764.9	3760786.3	201.5	3.66	1.40	2.89	YES	
L0043954	0	0.00000E+00	441761.9	3760786.4	201.5	3.66	1.40	2.89	YES	
L0043955	0	0.00000E+00	441758.9	3760786.5	201.4	3.66	1.40	2.89	YES	
L0043956	0	0.00000E+00	441755.9	3760786.5	201.4	3.66	1.40	2.89	YES	
L0043957	0	0.00000E+00	441752.9	3760786.6	201.4	3.66	1.40	2.89	YES	

L0043958	0	0.00000E+00	441749.9	3760786.7	201.4	3.66	1.40	2.89 YES
L0043959	0	0.00000E+00	441746.9	3760786.7	201.4	3.66	1.40	2.89 YES
L0043960	0	0.00000E+00	441743.9	3760786.8	201.4	3.66	1.40	2.89 YES
L0043961	0	0.00000E+00	441740.9	3760786.8	201.4	3.66	1.40	2.89 YES
L0043962	0	0.00000E+00	441737.9	3760786.9	201.4	3.66	1.40	2.89 YES
L0043963	0	0.00000E+00	441734.9	3760787.0	201.4	3.66	1.40	2.89 YES
L0043964	0	0.00000E+00	441731.9	3760787.0	201.4	3.66	1.40	2.89 YES
L0043965	0	0.00000E+00	441728.9	3760787.1	201.4	3.66	1.40	2.89 YES
L0043966	0	0.00000E+00	441725.9	3760787.2	201.4	3.66	1.40	2.89 YES
L0043967	0	0.00000E+00	441722.9	3760787.2	201.4	3.66	1.40	2.89 YES
L0043968	0	0.00000E+00	441719.9	3760787.3	201.4	3.66	1.40	2.89 YES
L0043969	0	0.00000E+00	441716.9	3760787.4	201.4	3.66	1.40	2.89 YES
L0043970	0	0.00000E+00	441713.9	3760787.4	201.4	3.66	1.40	2.89 YES
L0043971	0	0.00000E+00	441710.9	3760787.5	201.4	3.66	1.40	2.89 YES
L0043972	0	0.00000E+00	441707.9	3760787.5	201.4	3.66	1.40	2.89 YES
L0043973	0	0.00000E+00	441704.9	3760787.6	201.4	3.66	1.40	2.89 YES
L0043974	0	0.00000E+00	441701.9	3760787.7	201.3	3.66	1.40	2.89 YES
L0043975	0	0.00000E+00	441698.9	3760787.7	201.3	3.66	1.40	2.89 YES
L0043976	0	0.00000E+00	441695.9	3760787.8	201.3	3.66	1.40	2.89 YES
L0043977	0	0.00000E+00	441692.9	3760787.9	201.3	3.66	1.40	2.89 YES
L0043978	0	0.00000E+00	441689.9	3760787.9	201.3	3.66	1.40	2.89 YES
L0043979	0	0.00000E+00	441686.9	3760788.0	201.3	3.66	1.40	2.89 YES
L0043980	0	0.00000E+00	441683.9	3760788.1	201.3	3.66	1.40	2.89 YES
L0043981	0	0.00000E+00	441680.9	3760788.1	201.3	3.66	1.40	2.89 YES

 L0043982   0   0.00000E+00 441677.9 3760788.2   201.2   3.66   1.40
2.89   YES
 L0043983   0   0.00000E+00 441674.9 3760788.2   201.2   3.66   1.40
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

L0043996	0	0.00000E+00	441635.9	3760789.1	201.3	3.66	1.40	2.89 YES
L0043997	0	0.00000E+00	441632.9	3760789.1	201.3	3.66	1.40	2.89 YES
L0043998	0	0.00000E+00	441629.9	3760789.2	201.3	3.66	1.40	2.89 YES
L0043999	0	0.00000E+00	441626.9	3760789.3	201.3	3.66	1.40	2.89 YES
L0044000	0	0.00000E+00	441623.9	3760789.3	201.3	3.66	1.40	2.89 YES
L0044001	0	0.00000E+00	441620.9	3760789.4	201.3	3.66	1.40	2.89 YES
L0044002	0	0.00000E+00	441617.9	3760789.5	201.4	3.66	1.40	2.89 YES
L0044003	0	0.00000E+00	441614.9	3760789.5	201.4	3.66	1.40	2.89 YES
L0044004	0	0.00000E+00	441611.9	3760789.6	201.4	3.66	1.40	2.89 YES
L0044005	0	0.00000E+00	441290.6	3761089.7	203.2	3.66	1.40	2.89 YES
L0044006	0	0.00000E+00	441290.6	3761086.7	203.2	3.66	1.40	2.89 YES
L0044007	0	0.00000E+00	441290.6	3761083.7	203.2	3.66	1.40	2.89 YES
L0044008	0	0.00000E+00	441290.6	3761080.7	203.2	3.66	1.40	2.89 YES
L0044009	0	0.00000E+00	441290.6	3761077.7	203.1	3.66	1.40	2.89 YES
L0044010	0	0.00000E+00	441290.6	3761074.7	203.1	3.66	1.40	2.89 YES
L0044011	0	0.00000E+00	441290.6	3761071.7	203.1	3.66	1.40	2.89 YES
L0044012	0	0.00000E+00	441290.6	3761068.7	203.1	3.66	1.40	2.89 YES
L0044013	0	0.00000E+00	441290.6	3761065.7	203.1	3.66	1.40	2.89 YES
L0044014	0	0.00000E+00	441290.6	3761062.7	203.0	3.66	1.40	2.89 YES
L0044015	0	0.00000E+00	441290.6	3761059.7	203.0	3.66	1.40	2.89 YES
L0044016	0	0.00000E+00	441290.6	3761056.7	203.0	3.66	1.40	2.89 YES
L0044017	0	0.00000E+00	441290.6	3761053.7	203.0	3.66	1.40	2.89 YES
L0044018	0	0.00000E+00	441290.6	3761050.7	203.0	3.66	1.40	2.89 YES
L0044019	0	0.00000E+00	441290.6	3761047.7	202.9	3.66	1.40	2.89 YES

```
 L0044020         0   0.00000E+00  441290.6 3761044.7   202.9     3.66     1.40
2.89     YES
 L0044021         0   0.00000E+00  441290.6 3761041.7   202.9     3.66     1.40
2.89     YES
 L0044022         0   0.00000E+00  441290.6 3761038.7   202.9     3.66     1.40
2.89     YES
 L0044023         0   0.00000E+00  441290.6 3761035.7   202.9     3.66     1.40
2.89     YES
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0044024         0   0.00000E+00  441290.6 3761032.7   202.8     3.66     1.40
2.89     YES
 L0044025         0   0.00000E+00  441290.6 3761029.7   202.8     3.66     1.40
2.89     YES
 L0044026         0   0.00000E+00  441290.6 3761026.7   202.8     3.66     1.40
2.89     YES
 L0044027         0   0.00000E+00  441290.6 3761023.7   202.8     3.66     1.40
2.89     YES
 L0044028         0   0.00000E+00  441290.6 3761020.7   202.8     3.66     1.40
2.89     YES
 L0044029         0   0.00000E+00  441290.6 3761017.7   202.7     3.66     1.40
2.89     YES
 L0044030         0   0.00000E+00  441290.6 3761014.7   202.7     3.66     1.40
2.89     YES
 L0044031         0   0.00000E+00  441290.6 3761011.7   202.7     3.66     1.40
2.89     YES
 L0044032         0   0.00000E+00  441290.6 3761008.7   202.7     3.66     1.40
2.89     YES
 L0044033         0   0.00000E+00  441290.6 3761005.7   202.7     3.66     1.40
2.89     YES
```

L0044034	0	0.00000E+00	441290.6	3761002.7	202.6	3.66	1.40	2.89 YES
L0044035	0	0.00000E+00	441290.6	3760999.7	202.6	3.66	1.40	2.89 YES
L0044036	0	0.00000E+00	441290.6	3760996.7	202.6	3.66	1.40	2.89 YES
L0044037	0	0.00000E+00	441290.6	3760993.7	202.6	3.66	1.40	2.89 YES
L0044038	0	0.00000E+00	441290.6	3760990.7	202.6	3.66	1.40	2.89 YES
L0044039	0	0.00000E+00	441290.6	3760987.7	202.6	3.66	1.40	2.89 YES
L0044040	0	0.00000E+00	441290.6	3760984.7	202.5	3.66	1.40	2.89 YES
L0044041	0	0.00000E+00	441290.6	3760981.7	202.5	3.66	1.40	2.89 YES
L0044042	0	0.00000E+00	441290.6	3760978.7	202.5	3.66	1.40	2.89 YES
L0044043	0	0.00000E+00	441290.6	3760975.7	202.5	3.66	1.40	2.89 YES
L0044044	0	0.00000E+00	441290.6	3760972.7	202.5	3.66	1.40	2.89 YES
L0044045	0	0.00000E+00	441290.6	3760969.7	202.4	3.66	1.40	2.89 YES
L0044046	0	0.00000E+00	441290.6	3760966.7	202.4	3.66	1.40	2.89 YES
L0044047	0	0.00000E+00	441290.6	3760963.7	202.4	3.66	1.40	2.89 YES
L0044048	0	0.00000E+00	441290.6	3760960.7	202.4	3.66	1.40	2.89 YES
L0044049	0	0.00000E+00	441290.6	3760957.7	202.4	3.66	1.40	2.89 YES
L0044050	0	0.00000E+00	441290.6	3760954.7	202.4	3.66	1.40	2.89 YES
L0044051	0	0.00000E+00	441290.6	3760951.7	202.3	3.66	1.40	2.89 YES
L0044052	0	0.00000E+00	441290.6	3760948.7	202.3	3.66	1.40	2.89 YES
L0044053	0	0.00000E+00	441290.6	3760945.7	202.3	3.66	1.40	2.89 YES
L0044054	0	0.00000E+00	441290.6	3760942.7	202.3	3.66	1.40	2.89 YES
L0044055	0	0.00000E+00	441290.6	3760939.7	202.3	3.66	1.40	2.89 YES
L0044056	0	0.00000E+00	441290.6	3760936.7	202.2	3.66	1.40	2.89 YES
L0044057	0	0.00000E+00	441290.6	3760933.7	202.2	3.66	1.40	2.89 YES

```
 L0044058         0   0.00000E+00  441290.6 3760930.7   202.2     3.66     1.40
2.89     YES
 L0044059         0   0.00000E+00  441290.6 3760927.7   202.2     3.66     1.40
2.89     YES
 L0044060         0   0.00000E+00  441290.6 3760924.7   202.2     3.66     1.40
2.89     YES
 L0044061         0   0.00000E+00  441290.6 3760921.7   202.2     3.66     1.40
2.89     YES
 L0044062         0   0.00000E+00  441290.6 3760918.7   202.1     3.66     1.40
2.89     YES
 L0044063         0   0.00000E+00  441290.6 3760915.7   202.1     3.66     1.40
2.89     YES
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0044064         0   0.00000E+00  441290.6 3760912.7   202.1     3.66     1.40
2.89     YES
 L0044065         0   0.00000E+00  441290.6 3760909.7   202.1     3.66     1.40
2.89     YES
 L0044066         0   0.00000E+00  441290.6 3760906.7   202.1     3.66     1.40
2.89     YES
 L0044067         0   0.00000E+00  441290.6 3760903.7   202.0     3.66     1.40
2.89     YES
 L0044068         0   0.00000E+00  441290.6 3760900.7   202.0     3.66     1.40
2.89     YES
 L0044069         0   0.00000E+00  441290.6 3760897.7   202.0     3.66     1.40
2.89     YES
 L0044070         0   0.00000E+00  441290.6 3760894.7   202.0     3.66     1.40
2.89     YES
 L0044071         0   0.00000E+00  441290.6 3760891.7   202.0     3.66     1.40
2.89     YES
```

L0044072	0	0.00000E+00	441290.6	3760888.7	201.9	3.66	1.40	2.89 YES
L0044073	0	0.00000E+00	441290.6	3760885.7	201.9	3.66	1.40	2.89 YES
L0044074	0	0.00000E+00	441290.6	3760882.7	201.9	3.66	1.40	2.89 YES
L0044075	0	0.00000E+00	441290.6	3760879.7	201.9	3.66	1.40	2.89 YES
L0044076	0	0.00000E+00	441290.6	3760876.7	201.9	3.66	1.40	2.89 YES
L0044077	0	0.00000E+00	441290.6	3760873.7	201.8	3.66	1.40	2.89 YES
L0044078	0	0.00000E+00	441290.6	3760870.7	201.8	3.66	1.40	2.89 YES
L0044079	0	0.00000E+00	441290.6	3760867.7	201.8	3.66	1.40	2.89 YES
L0044080	0	0.00000E+00	441290.6	3760864.7	201.8	3.66	1.40	2.89 YES
L0044081	0	0.00000E+00	441290.6	3760861.7	201.8	3.66	1.40	2.89 YES
L0044082	0	0.00000E+00	441290.6	3760858.7	201.8	3.66	1.40	2.89 YES
L0044083	0	0.00000E+00	441290.6	3760855.7	201.7	3.66	1.40	2.89 YES
L0044084	0	0.00000E+00	441290.6	3760852.7	201.7	3.66	1.40	2.89 YES
L0044085	0	0.00000E+00	441290.6	3760849.7	201.7	3.66	1.40	2.89 YES
L0044086	0	0.00000E+00	441290.6	3760846.7	201.7	3.66	1.40	2.89 YES
L0044087	0	0.00000E+00	441290.6	3760843.7	201.7	3.66	1.40	2.89 YES
L0044088	0	0.00000E+00	441290.6	3760840.7	201.6	3.66	1.40	2.89 YES
L0044089	0	0.00000E+00	441290.6	3760837.7	201.6	3.66	1.40	2.89 YES
L0044090	0	0.00000E+00	441290.6	3760834.7	201.6	3.66	1.40	2.89 YES
L0044091	0	0.00000E+00	441290.6	3760831.7	201.6	3.66	1.40	2.89 YES
L0044092	0	0.00000E+00	441290.6	3760828.7	201.6	3.66	1.40	2.89 YES
L0044093	0	0.00000E+00	441290.6	3760825.7	201.5	3.66	1.40	2.89 YES
L0044094	0	0.00000E+00	441290.6	3760822.7	201.5	3.66	1.40	2.89 YES
L0044095	0	0.00000E+00	441290.6	3760819.7	201.5	3.66	1.40	2.89 YES

```
 L0044096         0   0.00000E+00  441290.6 3760816.7   201.5     3.66     1.40
2.89     YES
 L0044097         0   0.00000E+00  441290.6 3760813.7   201.5     3.66     1.40
2.89     YES
 L0044098         0   0.00000E+00  441290.6 3760810.7   201.4     3.66     1.40
2.89     YES
 L0044099         0   0.00000E+00  441290.6 3760807.7   201.4     3.66     1.40
2.89     YES
 L0044100         0   0.00000E+00  441290.6 3760804.7   201.4     3.66     1.40
2.89     YES
 L0044101         0   0.00000E+00  441290.6 3760801.7   201.4     3.66     1.40
2.89     YES
 L0044102         0   0.00000E+00  441290.6 3760798.7   201.4     3.66     1.40
2.89     YES
 L0044103         0   0.00000E+00  441290.6 3760795.7   201.3     3.66     1.40
2.89     YES
```



```
                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0044104         0   0.00000E+00  441290.6 3760792.7   201.3     3.66     1.40
2.89     YES
 L0044105         0   0.00000E+00  441290.6 3760789.7   201.3     3.66     1.40
2.89     YES
 L0044106         0   0.00000E+00  441290.6 3760786.7   201.3     3.66     1.40
2.89     YES
 L0044107         0   0.00000E+00  441290.6 3760783.7   201.3     3.66     1.40
2.89     YES
 L0044108         0   0.00000E+00  441290.6 3760780.7   201.2     3.66     1.40
2.89     YES
 L0044109         0   0.00000E+00  441290.6 3760777.7   201.2     3.66     1.40
2.89     YES
```

L0044110	0	0.00000E+00	441290.6	3760774.7	201.2	3.66	1.40	2.89 YES
L0044111	0	0.00000E+00	441290.6	3760771.7	201.2	3.66	1.40	2.89 YES
L0044112	0	0.00000E+00	441290.6	3760768.7	201.2	3.66	1.40	2.89 YES
L0044113	0	0.00000E+00	441290.6	3760765.7	201.2	3.66	1.40	2.89 YES
L0044114	0	0.00000E+00	441290.6	3760762.7	201.1	3.66	1.40	2.89 YES
L0044115	0	0.00000E+00	441290.6	3760759.7	201.1	3.66	1.40	2.89 YES
L0044116	0	0.00000E+00	441290.6	3760756.7	201.1	3.66	1.40	2.89 YES
L0044117	0	0.00000E+00	441290.6	3760753.7	201.1	3.66	1.40	2.89 YES
L0044118	0	0.00000E+00	441290.6	3760750.7	201.1	3.66	1.40	2.89 YES
L0044119	0	0.00000E+00	441290.6	3760747.7	201.0	3.66	1.40	2.89 YES
L0044120	0	0.00000E+00	441290.6	3760744.7	201.0	3.66	1.40	2.89 YES
L0044121	0	0.00000E+00	441290.6	3760741.7	201.0	3.66	1.40	2.89 YES
L0044122	0	0.00000E+00	441290.6	3760738.7	201.0	3.66	1.40	2.89 YES
L0044123	0	0.00000E+00	441290.6	3760735.7	201.0	3.66	1.40	2.89 YES
L0044124	0	0.00000E+00	441290.6	3760732.7	200.9	3.66	1.40	2.89 YES
L0044125	0	0.00000E+00	441290.6	3760729.7	200.9	3.66	1.40	2.89 YES
L0044126	0	0.00000E+00	441290.6	3760726.7	200.9	3.66	1.40	2.89 YES
L0044127	0	0.00000E+00	441290.6	3760723.7	200.9	3.66	1.40	2.89 YES
L0044128	0	0.00000E+00	441290.6	3760720.7	200.9	3.66	1.40	2.89 YES
L0044129	0	0.00000E+00	441290.6	3760717.7	200.9	3.66	1.40	2.89 YES
L0044130	0	0.00000E+00	441290.6	3760714.7	200.8	3.66	1.40	2.89 YES
L0044131	0	0.00000E+00	441290.6	3760711.7	200.8	3.66	1.40	2.89 YES
L0044132	0	0.00000E+00	441290.6	3760708.7	200.8	3.66	1.40	2.89 YES
L0044133	0	0.00000E+00	441290.6	3760705.7	200.8	3.66	1.40	2.89 YES

```
 L0044134         0   0.00000E+00  441290.6 3760702.7   200.8     3.66     1.40
2.89     YES
 L0044135         0   0.00000E+00  441290.6 3760699.7   200.8     3.66     1.40
2.89     YES
 L0044136         0   0.00000E+00  441290.6 3760696.7   200.7     3.66     1.40
2.89     YES
 L0044137         0   0.00000E+00  441290.6 3760693.7   200.7     3.66     1.40
2.89     YES
 L0044138         0   0.00000E+00  441290.6 3760690.7   200.7     3.66     1.40
2.89     YES
 L0044139         0   0.00000E+00  441290.6 3760687.7   200.7     3.66     1.40
2.89     YES
 L0044140         0   0.00000E+00  441290.6 3760684.7   200.7     3.66     1.40
2.89     YES
 L0044141         0   0.00000E+00  441290.6 3760681.7   200.7     3.66     1.40
2.89     YES
 L0044142         0   0.00000E+00  441290.6 3760678.7   200.6     3.66     1.40
2.89     YES
 L0044143         0   0.00000E+00  441290.6 3760675.7   200.6     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                   PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0044144         0   0.00000E+00  441290.6 3760672.7   200.6     3.66     1.40
2.89     YES
 L0044145         0   0.00000E+00  441290.6 3760669.7   200.6     3.66     1.40
2.89     YES
 L0044146         0   0.00000E+00  441290.6 3760666.7   200.6     3.66     1.40
2.89     YES
 L0044147         0   0.00000E+00  441290.6 3760663.7   200.5     3.66     1.40
2.89     YES
```

L0044148	0	0.00000E+00	441290.6	3760660.7	200.5	3.66	1.40	2.89 YES
L0044149	0	0.00000E+00	441290.6	3760657.7	200.5	3.66	1.40	2.89 YES
L0044150	0	0.00000E+00	441290.6	3760654.7	200.5	3.66	1.40	2.89 YES
L0044151	0	0.00000E+00	441290.6	3760651.7	200.5	3.66	1.40	2.89 YES
L0044152	0	0.00000E+00	441290.6	3760648.7	200.5	3.66	1.40	2.89 YES
L0044153	0	0.00000E+00	441290.6	3760645.7	200.5	3.66	1.40	2.89 YES
L0044154	0	0.00000E+00	441290.6	3760642.7	200.4	3.66	1.40	2.89 YES
L0044155	0	0.00000E+00	441290.6	3760639.7	200.4	3.66	1.40	2.89 YES
L0044156	0	0.00000E+00	441290.6	3760636.7	200.4	3.66	1.40	2.89 YES
L0044157	0	0.00000E+00	441290.6	3760633.7	200.4	3.66	1.40	2.89 YES
L0044158	0	0.00000E+00	441290.6	3760630.7	200.4	3.66	1.40	2.89 YES
L0044159	0	0.00000E+00	441290.6	3760627.7	200.4	3.66	1.40	2.89 YES
L0044160	0	0.00000E+00	441290.6	3760624.7	200.4	3.66	1.40	2.89 YES
L0044161	0	0.00000E+00	441290.6	3760621.7	200.3	3.66	1.40	2.89 YES
L0044162	0	0.00000E+00	441290.6	3760618.7	200.3	3.66	1.40	2.89 YES
L0044163	0	0.00000E+00	441290.6	3760615.7	200.3	3.66	1.40	2.89 YES
L0044164	0	0.00000E+00	441290.6	3760612.7	200.3	3.66	1.40	2.89 YES
L0044165	0	0.00000E+00	441290.6	3760609.7	200.3	3.66	1.40	2.89 YES
L0044166	0	0.00000E+00	441290.6	3760606.7	200.3	3.66	1.40	2.89 YES
L0044167	0	0.00000E+00	441290.6	3760603.7	200.3	3.66	1.40	2.89 YES
L0044168	0	0.00000E+00	441290.6	3760600.7	200.2	3.66	1.40	2.89 YES
L0044169	0	0.00000E+00	441290.6	3760597.7	200.2	3.66	1.40	2.89 YES
L0044170	0	0.00000E+00	441290.6	3760594.7	200.2	3.66	1.40	2.89 YES
L0044171	0	0.00000E+00	441471.5	3761091.1	203.3	3.66	1.40	2.89 YES

```
 L0044172         0   0.00000E+00  441471.4 3761088.1   203.3     3.66     1.40
2.89     YES
 L0044173         0   0.00000E+00  441471.4 3761085.1   203.2     3.66     1.40
2.89     YES
 L0044174         0   0.00000E+00  441471.4 3761082.1   203.2     3.66     1.40
2.89     YES
 L0044175         0   0.00000E+00  441471.4 3761079.1   203.2     3.66     1.40
2.89     YES
 L0044176         0   0.00000E+00  441471.4 3761076.1   203.2     3.66     1.40
2.89     YES
 L0044177         0   0.00000E+00  441471.4 3761073.1   203.2     3.66     1.40
2.89     YES
 L0044178         0   0.00000E+00  441471.4 3761070.1   203.1     3.66     1.40
2.89     YES
 L0044179         0   0.00000E+00  441471.4 3761067.1   203.1     3.66     1.40
2.89     YES
 L0044180         0   0.00000E+00  441471.4 3761064.1   203.1     3.66     1.40
2.89     YES
 L0044181         0   0.00000E+00  441471.4 3761061.1   203.1     3.66     1.40
2.89     YES
 L0044182         0   0.00000E+00  441471.4 3761058.1   203.1     3.66     1.40
2.89     YES
 L0044183         0   0.00000E+00  441471.3 3761055.1   203.0     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0044184         0   0.00000E+00  441471.3 3761052.1   203.0     3.66     1.40
2.89     YES
 L0044185         0   0.00000E+00  441471.3 3761049.1   203.0     3.66     1.40
2.89     YES
```

L0044186	0	0.00000E+00	441471.3	3761046.1	203.0	3.66	1.40	2.89 YES
L0044187	0	0.00000E+00	441471.3	3761043.1	202.9	3.66	1.40	2.89 YES
L0044188	0	0.00000E+00	441471.3	3761040.1	202.9	3.66	1.40	2.89 YES
L0044189	0	0.00000E+00	441471.3	3761037.1	202.9	3.66	1.40	2.89 YES
L0044190	0	0.00000E+00	441471.3	3761034.1	202.9	3.66	1.40	2.89 YES
L0044191	0	0.00000E+00	441471.3	3761031.1	202.9	3.66	1.40	2.89 YES
L0044192	0	0.00000E+00	441471.3	3761028.1	202.8	3.66	1.40	2.89 YES
L0044193	0	0.00000E+00	441471.3	3761025.1	202.8	3.66	1.40	2.89 YES
L0044194	0	0.00000E+00	441471.2	3761022.1	202.8	3.66	1.40	2.89 YES
L0044195	0	0.00000E+00	441471.2	3761019.1	202.8	3.66	1.40	2.89 YES
L0044196	0	0.00000E+00	441471.2	3761016.1	202.7	3.66	1.40	2.89 YES
L0044197	0	0.00000E+00	441471.2	3761013.1	202.7	3.66	1.40	2.89 YES
L0044198	0	0.00000E+00	441471.2	3761010.1	202.7	3.66	1.40	2.89 YES
L0044199	0	0.00000E+00	441471.2	3761007.1	202.6	3.66	1.40	2.89 YES
L0044200	0	0.00000E+00	441471.2	3761004.1	202.6	3.66	1.40	2.89 YES
L0044201	0	0.00000E+00	441471.2	3761001.1	202.6	3.66	1.40	2.89 YES
L0044202	0	0.00000E+00	441471.2	3760998.1	202.6	3.66	1.40	2.89 YES
L0044203	0	0.00000E+00	441471.2	3760995.1	202.5	3.66	1.40	2.89 YES
L0044204	0	0.00000E+00	441471.2	3760992.1	202.5	3.66	1.40	2.89 YES
L0044205	0	0.00000E+00	441471.1	3760989.1	202.5	3.66	1.40	2.89 YES
L0044206	0	0.00000E+00	441471.1	3760986.1	202.4	3.66	1.40	2.89 YES
L0044207	0	0.00000E+00	441471.1	3760983.1	202.4	3.66	1.40	2.89 YES
L0044208	0	0.00000E+00	441471.1	3760980.1	202.4	3.66	1.40	2.89 YES
L0044209	0	0.00000E+00	441471.1	3760977.1	202.3	3.66	1.40	2.89 YES

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 L0044210         0   0.00000E+00  441471.1 3760974.1   202.3     3.66     1.40
2.89     YES
 L0044211         0   0.00000E+00  441471.1 3760971.1   202.2     3.66     1.40
2.89     YES
 L0044212         0   0.00000E+00  441471.1 3760968.1   202.2     3.66     1.40
2.89     YES
 L0044213         0   0.00000E+00  441471.1 3760965.1   202.2     3.66     1.40
2.89     YES
 L0044214         0   0.00000E+00  441471.1 3760962.1   202.2     3.66     1.40
2.89     YES
 L0044215         0   0.00000E+00  441471.1 3760959.1   202.2     3.66     1.40
2.89     YES
 L0044216         0   0.00000E+00  441471.1 3760956.1   202.1     3.66     1.40
2.89     YES
 L0044217         0   0.00000E+00  441471.0 3760953.1   202.1     3.66     1.40
2.89     YES
 L0044218         0   0.00000E+00  441471.0 3760950.1   202.1     3.66     1.40
2.89     YES
 L0044219         0   0.00000E+00  441471.0 3760947.1   202.1     3.66     1.40
2.89     YES
 L0044220         0   0.00000E+00  441471.0 3760944.1   202.1     3.66     1.40
2.89     YES
 L0044221         0   0.00000E+00  441471.0 3760941.1   202.1     3.66     1.40
2.89     YES
 L0044222         0   0.00000E+00  441471.0 3760938.1   202.0     3.66     1.40
2.89     YES
 L0044223         0   0.00000E+00  441471.0 3760935.1   202.0     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
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L0044224	0	0.00000E+00	441471.0	3760932.1	202.0	3.66	1.40	2.89 YES
L0044225	0	0.00000E+00	441471.0	3760929.1	202.0	3.66	1.40	2.89 YES
L0044226	0	0.00000E+00	441471.0	3760926.1	202.0	3.66	1.40	2.89 YES
L0044227	0	0.00000E+00	441471.0	3760923.1	202.0	3.66	1.40	2.89 YES
L0044228	0	0.00000E+00	441470.9	3760920.1	202.0	3.66	1.40	2.89 YES
L0044229	0	0.00000E+00	441470.9	3760917.1	202.0	3.66	1.40	2.89 YES
L0044230	0	0.00000E+00	441470.9	3760914.1	202.0	3.66	1.40	2.89 YES
L0044231	0	0.00000E+00	441470.9	3760911.1	202.0	3.66	1.40	2.89 YES
L0044232	0	0.00000E+00	441470.9	3760908.1	201.9	3.66	1.40	2.89 YES
L0044233	0	0.00000E+00	441470.9	3760905.1	201.9	3.66	1.40	2.89 YES
L0044234	0	0.00000E+00	441470.9	3760902.1	201.9	3.66	1.40	2.89 YES
L0044235	0	0.00000E+00	441470.9	3760899.1	202.0	3.66	1.40	2.89 YES
L0044236	0	0.00000E+00	441470.9	3760896.1	202.0	3.66	1.40	2.89 YES
L0044237	0	0.00000E+00	441470.9	3760893.1	202.0	3.66	1.40	2.89 YES
L0044238	0	0.00000E+00	441470.9	3760890.1	202.0	3.66	1.40	2.89 YES
L0044239	0	0.00000E+00	441470.8	3760887.1	202.0	3.66	1.40	2.89 YES
L0044240	0	0.00000E+00	441470.8	3760884.1	202.0	3.66	1.40	2.89 YES
L0044241	0	0.00000E+00	441470.8	3760881.1	202.1	3.66	1.40	2.89 YES
L0044242	0	0.00000E+00	441470.8	3760878.1	202.1	3.66	1.40	2.89 YES
L0044243	0	0.00000E+00	441470.8	3760875.1	202.1	3.66	1.40	2.89 YES
L0044244	0	0.00000E+00	441470.8	3760872.1	202.1	3.66	1.40	2.89 YES
L0044245	0	0.00000E+00	441470.8	3760869.1	202.1	3.66	1.40	2.89 YES
L0044246	0	0.00000E+00	441470.8	3760866.1	202.1	3.66	1.40	2.89 YES
L0044247	0	0.00000E+00	441470.8	3760863.1	202.1	3.66	1.40	2.89 YES

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 L0044248         0   0.00000E+00  441470.8 3760860.1   202.0     3.66     1.40
2.89     YES
 L0044249         0   0.00000E+00  441470.8 3760857.1   202.0     3.66     1.40
2.89     YES
 L0044250         0   0.00000E+00  441470.8 3760854.1   202.0     3.66     1.40
2.89     YES
 L0044251         0   0.00000E+00  441470.7 3760851.1   202.0     3.66     1.40
2.89     YES
 L0044252         0   0.00000E+00  441470.7 3760848.1   202.0     3.66     1.40
2.89     YES
 L0044253         0   0.00000E+00  441470.7 3760845.1   202.0     3.66     1.40
2.89     YES
 L0044254         0   0.00000E+00  441470.7 3760842.1   202.0     3.66     1.40
2.89     YES
 L0044255         0   0.00000E+00  441470.7 3760839.1   202.0     3.66     1.40
2.89     YES
 L0044256         0   0.00000E+00  441470.7 3760836.1   201.9     3.66     1.40
2.89     YES
 L0044257         0   0.00000E+00  441470.7 3760833.1   201.9     3.66     1.40
2.89     YES
 L0044258         0   0.00000E+00  441470.7 3760830.1   201.9     3.66     1.40
2.89     YES
 L0044259         0   0.00000E+00  441470.7 3760827.1   201.9     3.66     1.40
2.89     YES
 L0044260         0   0.00000E+00  441470.7 3760824.1   201.9     3.66     1.40
2.89     YES
 L0044261         0   0.00000E+00  441470.7 3760821.1   201.8     3.66     1.40
2.89     YES
 L0044262         0   0.00000E+00  441470.6 3760818.1   201.8     3.66     1.40
2.89     YES
 L0044263         0   0.00000E+00  441470.6 3760815.1   201.8     3.66     1.40
2.89     YES
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

(METERS) BY

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 L0044286         0   0.00000E+00  441470.4 3760746.1   201.0     3.66     1.40
2.89     YES
 L0044287         0   0.00000E+00  441470.4 3760743.1   201.0     3.66     1.40
2.89     YES
 L0044288         0   0.00000E+00  441470.4 3760740.1   201.0     3.66     1.40
2.89     YES
 L0044289         0   0.00000E+00  441470.4 3760737.1   201.0     3.66     1.40
2.89     YES
 L0044290         0   0.00000E+00  441470.4 3760734.1   201.0     3.66     1.40
2.89     YES
 L0044291         0   0.00000E+00  441470.4 3760731.1   201.0     3.66     1.40
2.89     YES
 L0044292         0   0.00000E+00  441470.4 3760728.1   200.9     3.66     1.40
2.89     YES
 L0044293         0   0.00000E+00  441470.4 3760725.1   200.9     3.66     1.40
2.89     YES
 L0044294         0   0.00000E+00  441470.4 3760722.1   200.9     3.66     1.40
2.89     YES
 L0044295         0   0.00000E+00  441470.4 3760719.1   200.9     3.66     1.40
2.89     YES
 L0044296         0   0.00000E+00  441470.3 3760716.1   200.9     3.66     1.40
2.89     YES
 L0044297         0   0.00000E+00  441470.3 3760713.1   200.9     3.66     1.40
2.89     YES
 L0044298         0   0.00000E+00  441470.3 3760710.1   200.8     3.66     1.40
2.89     YES
 L0044299         0   0.00000E+00  441470.3 3760707.1   200.8     3.66     1.40
2.89     YES
 L0044300         0   0.00000E+00  441470.3 3760704.1   200.8     3.66     1.40
2.89     YES
 L0044301         0   0.00000E+00  441470.3 3760701.1   200.8     3.66     1.40
2.89     YES
 L0044302         0   0.00000E+00  441470.3 3760698.1   200.7     3.66     1.40
2.89     YES
 L0044303         0   0.00000E+00  441470.3 3760695.1   200.7     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:50:42

                                  PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
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SOURCE ID	INIT. PART. CATS.	URBAN SOURCE SCALAR VARY BY	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)
L0044304	0		0.00000E+00	441470.3	3760692.1	200.7	3.66	1.40	2.89
YES									
L0044305	0		0.00000E+00	441470.3	3760689.1	200.7	3.66	1.40	2.89
YES									
L0044306	0		0.00000E+00	441470.3	3760686.1	200.7	3.66	1.40	2.89
YES									
L0044307	0		0.00000E+00	441470.2	3760683.1	200.6	3.66	1.40	2.89
YES									
L0044308	0		0.00000E+00	441470.2	3760680.1	200.6	3.66	1.40	2.89
YES									
L0044309	0		0.00000E+00	441470.2	3760677.1	200.6	3.66	1.40	2.89
YES									
L0044310	0		0.00000E+00	441470.2	3760674.1	200.6	3.66	1.40	2.89
YES									
L0044311	0		0.00000E+00	441470.2	3760671.1	200.6	3.66	1.40	2.89
YES									
L0044312	0		0.00000E+00	441470.2	3760668.1	200.6	3.66	1.40	2.89
YES									
L0044313	0		0.00000E+00	441470.2	3760665.1	200.6	3.66	1.40	2.89
YES									
L0044314	0		0.00000E+00	441470.2	3760662.1	200.6	3.66	1.40	2.89
YES									
L0044315	0		0.00000E+00	441470.2	3760659.1	200.6	3.66	1.40	2.89
YES									
L0044316	0		0.00000E+00	441470.2	3760656.1	200.5	3.66	1.40	2.89
YES									
L0044317	0		0.00000E+00	441470.2	3760653.1	200.5	3.66	1.40	2.89
YES									
L0044318	0		0.00000E+00	441470.1	3760650.1	200.5	3.66	1.40	2.89
YES									
L0044319	0		0.00000E+00	441470.1	3760647.1	200.5	3.66	1.40	2.89
YES									
L0044320	0		0.00000E+00	441470.1	3760644.1	200.5	3.66	1.40	2.89
YES									
L0044321	0		0.00000E+00	441470.1	3760641.1	200.4	3.66	1.40	2.89
YES									
L0044322	0		0.00000E+00	441470.1	3760638.1	200.4	3.66	1.40	2.89
YES									
L0044323	0		0.00000E+00	441470.1	3760635.1	200.4	3.66	1.40	2.89
YES									

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 L0044324         0   0.00000E+00  441470.1 3760632.1   200.4     3.66     1.40
2.89     YES
 L0044325         0   0.00000E+00  441470.1 3760629.1   200.4     3.66     1.40
2.89     YES
 L0044326         0   0.00000E+00  441470.1 3760626.1   200.3     3.66     1.40
2.89     YES
 L0044327         0   0.00000E+00  441470.1 3760623.1   200.3     3.66     1.40
2.89     YES
 L0044328         0   0.00000E+00  441470.1 3760620.1   200.3     3.66     1.40
2.89     YES
 L0044329         0   0.00000E+00  441470.1 3760617.1   200.3     3.66     1.40
2.89     YES
 L0044330         0   0.00000E+00  441470.0 3760614.1   200.3     3.66     1.40
2.89     YES
 L0044331         0   0.00000E+00  441470.0 3760611.1   200.2     3.66     1.40
2.89     YES
 L0044332         0   0.00000E+00  441470.0 3760608.1   200.2     3.66     1.40
2.89     YES
 L0044333         0   0.00000E+00  441470.0 3760605.1   200.2     3.66     1.40
2.89     YES
 L0044334         0   0.00000E+00  440858.0 3761185.9   203.0     3.66     1.40
2.89     YES
 L0044335         0   0.00000E+00  440861.0 3761185.9   203.1     3.66     1.40
2.89     YES
 L0044336         0   0.00000E+00  440864.0 3761185.9   203.1     3.66     1.40
2.89     YES
 L0044337         0   0.00000E+00  440867.0 3761185.9   203.2     3.66     1.40
2.89     YES
 L0044338         0   0.00000E+00  440870.0 3761185.9   203.2     3.66     1.40
2.89     YES
 L0044339         0   0.00000E+00  440873.0 3761186.0   203.3     3.66     1.40
2.89     YES
 L0044340         0   0.00000E+00  440876.0 3761186.0   203.4     3.66     1.40
2.89     YES
 L0044341         0   0.00000E+00  440879.0 3761186.0   203.5     3.66     1.40
2.89     YES
 L0044342         0   0.00000E+00  440882.0 3761186.0   203.5     3.66     1.40
2.89     YES
 L0044343         0   0.00000E+00  440885.0 3761186.0   203.6     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY
L0044344	0	0.00000E+00	440888.0	3761186.0	203.7	3.66	1.40	2.89	YES
L0044345	0	0.00000E+00	440891.0	3761186.0	203.8	3.66	1.40	2.89	YES
L0044346	0	0.00000E+00	440894.0	3761186.0	203.9	3.66	1.40	2.89	YES
L0044347	0	0.00000E+00	440897.0	3761186.0	204.0	3.66	1.40	2.89	YES
L0044348	0	0.00000E+00	440900.0	3761186.1	204.1	3.66	1.40	2.89	YES
L0044349	0	0.00000E+00	440903.0	3761186.1	204.1	3.66	1.40	2.89	YES
L0044350	0	0.00000E+00	440906.0	3761186.1	204.2	3.66	1.40	2.89	YES
L0044351	0	0.00000E+00	440909.0	3761186.1	204.2	3.66	1.40	2.89	YES
L0044352	0	0.00000E+00	440912.0	3761186.1	204.3	3.66	1.40	2.89	YES
L0044353	0	0.00000E+00	440915.0	3761186.1	204.3	3.66	1.40	2.89	YES
L0044354	0	0.00000E+00	440918.0	3761186.1	204.4	3.66	1.40	2.89	YES
L0044355	0	0.00000E+00	440921.0	3761186.1	204.4	3.66	1.40	2.89	YES
L0044356	0	0.00000E+00	440924.0	3761186.1	204.5	3.66	1.40	2.89	YES
L0044357	0	0.00000E+00	440927.0	3761186.1	204.5	3.66	1.40	2.89	YES
L0044358	0	0.00000E+00	440930.0	3761186.2	204.5	3.66	1.40	2.89	YES
L0044359	0	0.00000E+00	440933.0	3761186.2	204.6	3.66	1.40	2.89	YES
L0044360	0	0.00000E+00	440936.0	3761186.2	204.6	3.66	1.40	2.89	YES
L0044361	0	0.00000E+00	440939.0	3761186.2	204.6	3.66	1.40	2.89	YES

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 L0044362         0   0.00000E+00  440942.0 3761186.2   204.6     3.66     1.40
2.89     YES
 L0044363         0   0.00000E+00  440945.0 3761186.2   204.6     3.66     1.40
2.89     YES
 L0044364         0   0.00000E+00  440948.0 3761186.2   204.6     3.66     1.40
2.89     YES
 L0044365         0   0.00000E+00  440951.0 3761186.2   204.7     3.66     1.40
2.89     YES
 L0044366         0   0.00000E+00  440954.0 3761186.2   204.7     3.66     1.40
2.89     YES
 L0044367         0   0.00000E+00  440957.0 3761186.3   204.6     3.66     1.40
2.89     YES
 L0044368         0   0.00000E+00  440960.0 3761186.3   204.6     3.66     1.40
2.89     YES
 L0044369         0   0.00000E+00  440963.0 3761186.3   204.5     3.66     1.40
2.89     YES
 L0044370         0   0.00000E+00  440966.0 3761186.3   204.5     3.66     1.40
2.89     YES
 L0044371         0   0.00000E+00  440969.0 3761186.3   204.4     3.66     1.40
2.89     YES
 L0044372         0   0.00000E+00  440972.0 3761186.3   204.4     3.66     1.40
2.89     YES
 L0044373         0   0.00000E+00  440975.0 3761186.3   204.3     3.66     1.40
2.89     YES
 L0044374         0   0.00000E+00  440978.0 3761186.3   204.2     3.66     1.40
2.89     YES
 L0044375         0   0.00000E+00  440981.0 3761186.3   204.2     3.66     1.40
2.89     YES
 L0044376         0   0.00000E+00  440984.0 3761186.3   204.1     3.66     1.40
2.89     YES
 L0044377         0   0.00000E+00  440987.0 3761186.4   204.0     3.66     1.40
2.89     YES
 L0044378         0   0.00000E+00  440990.0 3761186.4   203.9     3.66     1.40
2.89     YES
 L0044379         0   0.00000E+00  440993.0 3761186.4   203.8     3.66     1.40
2.89     YES
 L0044380         0   0.00000E+00  440996.0 3761186.4   203.7     3.66     1.40
2.89     YES
 L0044381         0   0.00000E+00  440999.0 3761186.4   203.6     3.66     1.40
2.89     YES
 L0044382         0   0.00000E+00  441002.0 3761186.4   203.5     3.66     1.40
2.89     YES
 L0044383         0   0.00000E+00  441005.0 3761186.4   203.4     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0044384	0	0.00000E+00	441008.0	3761186.4	203.4	3.66	1.40	2.89	YES	
L0044385	0	0.00000E+00	441011.0	3761186.4	203.4	3.66	1.40	2.89	YES	
L0044386	0	0.00000E+00	441014.0	3761186.5	203.4	3.66	1.40	2.89	YES	
L0044387	0	0.00000E+00	441017.0	3761186.5	203.4	3.66	1.40	2.89	YES	
L0044388	0	0.00000E+00	441020.0	3761186.5	203.4	3.66	1.40	2.89	YES	
L0044389	0	0.00000E+00	441023.0	3761186.5	203.4	3.66	1.40	2.89	YES	
L0044390	0	0.00000E+00	441026.0	3761186.5	203.4	3.66	1.40	2.89	YES	
L0044391	0	0.00000E+00	441029.0	3761186.5	203.3	3.66	1.40	2.89	YES	
L0044392	0	0.00000E+00	441032.0	3761186.5	203.3	3.66	1.40	2.89	YES	
L0044393	0	0.00000E+00	441035.0	3761186.5	203.4	3.66	1.40	2.89	YES	
L0044394	0	0.00000E+00	441038.0	3761186.5	203.4	3.66	1.40	2.89	YES	
L0044395	0	0.00000E+00	441041.0	3761186.6	203.4	3.66	1.40	2.89	YES	
L0044396	0	0.00000E+00	441044.0	3761186.6	203.5	3.66	1.40	2.89	YES	
L0044397	0	0.00000E+00	441047.0	3761186.6	203.5	3.66	1.40	2.89	YES	
L0044398	0	0.00000E+00	441050.0	3761186.6	203.5	3.66	1.40	2.89	YES	
L0044399	0	0.00000E+00	441053.0	3761186.6	203.5	3.66	1.40	2.89	YES	

L0044400	0	0.00000E+00	441056.0	3761186.6	203.6	3.66	1.40	2.89 YES
L0044401	0	0.00000E+00	441059.0	3761186.6	203.6	3.66	1.40	2.89 YES
L0044402	0	0.00000E+00	441062.0	3761186.6	203.6	3.66	1.40	2.89 YES
L0044403	0	0.00000E+00	441065.0	3761186.6	203.6	3.66	1.40	2.89 YES
L0044404	0	0.00000E+00	441068.0	3761186.6	203.7	3.66	1.40	2.89 YES
L0044405	0	0.00000E+00	441071.0	3761186.7	203.7	3.66	1.40	2.89 YES
L0044406	0	0.00000E+00	441074.0	3761186.7	203.7	3.66	1.40	2.89 YES
L0044407	0	0.00000E+00	441077.0	3761186.7	203.8	3.66	1.40	2.89 YES
L0044408	0	0.00000E+00	441080.0	3761186.7	203.8	3.66	1.40	2.89 YES
L0044409	0	0.00000E+00	441083.0	3761186.7	203.8	3.66	1.40	2.89 YES
L0044410	0	0.00000E+00	441086.0	3761186.7	203.8	3.66	1.40	2.89 YES
L0044411	0	0.00000E+00	441089.0	3761186.7	203.7	3.66	1.40	2.89 YES
L0044412	0	0.00000E+00	441092.0	3761186.7	203.7	3.66	1.40	2.89 YES
L0044413	0	0.00000E+00	441095.0	3761186.7	203.7	3.66	1.40	2.89 YES
L0044414	0	0.00000E+00	441098.0	3761186.8	203.6	3.66	1.40	2.89 YES
L0044415	0	0.00000E+00	441101.0	3761186.8	203.6	3.66	1.40	2.89 YES
L0044416	0	0.00000E+00	441104.0	3761186.8	203.6	3.66	1.40	2.89 YES
L0044417	0	0.00000E+00	441107.0	3761186.8	203.5	3.66	1.40	2.89 YES
L0044418	0	0.00000E+00	440885.1	3761001.7	201.8	3.66	1.40	2.89 YES
L0044419	0	0.00000E+00	440885.1	3760998.7	201.7	3.66	1.40	2.89 YES
L0044420	0	0.00000E+00	440885.1	3760995.7	201.7	3.66	1.40	2.89 YES
L0044421	0	0.00000E+00	440885.1	3760992.7	201.7	3.66	1.40	2.89 YES
L0044422	0	0.00000E+00	440885.1	3760989.7	201.6	3.66	1.40	2.89 YES
L0044423	0	0.00000E+00	440885.1	3760986.7	201.6	3.66	1.40	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0044424	0	0.00000E+00	440885.1	3760983.7	201.6	3.66	1.40	2.89	YES	
L0044425	0	0.00000E+00	440885.1	3760980.7	201.5	3.66	1.40	2.89	YES	
L0044426	0	0.00000E+00	440885.1	3760977.7	201.5	3.66	1.40	2.89	YES	
L0044427	0	0.00000E+00	440885.1	3760974.7	201.5	3.66	1.40	2.89	YES	
L0044428	0	0.00000E+00	440885.1	3760971.7	201.4	3.66	1.40	2.89	YES	
L0044429	0	0.00000E+00	440885.1	3760968.7	201.4	3.66	1.40	2.89	YES	
L0044430	0	0.00000E+00	440885.1	3760965.7	201.4	3.66	1.40	2.89	YES	
L0044431	0	0.00000E+00	440885.1	3760962.7	201.4	3.66	1.40	2.89	YES	
L0044432	0	0.00000E+00	440885.1	3760959.7	201.4	3.66	1.40	2.89	YES	
L0044433	0	0.00000E+00	440885.1	3760956.7	201.3	3.66	1.40	2.89	YES	
L0044434	0	0.00000E+00	440885.1	3760953.7	201.3	3.66	1.40	2.89	YES	
L0044435	0	0.00000E+00	440885.1	3760950.7	201.3	3.66	1.40	2.89	YES	
L0044436	0	0.00000E+00	440885.1	3760947.7	201.3	3.66	1.40	2.89	YES	
L0044437	0	0.00000E+00	440885.1	3760944.7	201.3	3.66	1.40	2.89	YES	

L0044438	0	0.00000E+00	440885.1	3760941.7	201.3	3.66	1.40	2.89 YES
L0044439	0	0.00000E+00	440885.1	3760938.7	201.2	3.66	1.40	2.89 YES
L0044440	0	0.00000E+00	440885.1	3760935.7	201.2	3.66	1.40	2.89 YES
L0044441	0	0.00000E+00	440885.1	3760932.7	201.2	3.66	1.40	2.89 YES
L0044442	0	0.00000E+00	440885.1	3760929.7	201.2	3.66	1.40	2.89 YES
L0044443	0	0.00000E+00	440885.1	3760926.7	201.1	3.66	1.40	2.89 YES
L0044444	0	0.00000E+00	440885.1	3760923.7	201.1	3.66	1.40	2.89 YES
L0044445	0	0.00000E+00	440885.1	3760920.7	201.1	3.66	1.40	2.89 YES
L0044446	0	0.00000E+00	440885.1	3760917.7	201.0	3.66	1.40	2.89 YES
L0044447	0	0.00000E+00	440885.1	3760914.7	201.0	3.66	1.40	2.89 YES
L0044448	0	0.00000E+00	440885.1	3760911.7	201.0	3.66	1.40	2.89 YES
L0044449	0	0.00000E+00	440885.1	3760908.7	200.9	3.66	1.40	2.89 YES
L0044450	0	0.00000E+00	440885.1	3760905.7	200.9	3.66	1.40	2.89 YES
L0044451	0	0.00000E+00	440885.1	3760902.7	200.8	3.66	1.40	2.89 YES
L0044452	0	0.00000E+00	440885.1	3760899.7	200.8	3.66	1.40	2.89 YES
L0044453	0	0.00000E+00	440885.1	3760896.7	200.7	3.66	1.40	2.89 YES
L0044454	0	0.00000E+00	440885.1	3760893.7	200.7	3.66	1.40	2.89 YES
L0044455	0	0.00000E+00	440885.1	3760890.7	200.6	3.66	1.40	2.89 YES
L0044456	0	0.00000E+00	440885.1	3760887.7	200.6	3.66	1.40	2.89 YES
L0044457	0	0.00000E+00	440885.1	3760884.7	200.5	3.66	1.40	2.89 YES
L0044458	0	0.00000E+00	440885.1	3760881.7	200.5	3.66	1.40	2.89 YES
L0044459	0	0.00000E+00	440885.1	3760878.7	200.4	3.66	1.40	2.89 YES
L0044460	0	0.00000E+00	440885.1	3760875.7	200.3	3.66	1.40	2.89 YES
L0044461	0	0.00000E+00	440885.1	3760872.7	200.1	3.66	1.40	2.89 YES

 L0044462   0   0.00000E+00 440885.1 3760869.7   200.0   3.66   1.40
2.89   YES
 L0044463   0   0.00000E+00 440885.1 3760866.7   199.8   3.66   1.40
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

L0044476	0	0.00000E+00	440885.1	3760827.7	199.1	3.66	1.40	2.89 YES
L0044477	0	0.00000E+00	440885.1	3760824.7	199.2	3.66	1.40	2.89 YES
L0044478	0	0.00000E+00	440885.1	3760821.7	199.2	3.66	1.40	2.89 YES
L0044479	0	0.00000E+00	440885.1	3760818.7	199.3	3.66	1.40	2.89 YES
L0044480	0	0.00000E+00	440885.1	3760815.7	199.3	3.66	1.40	2.89 YES
L0044481	0	0.00000E+00	440885.1	3760812.7	199.3	3.66	1.40	2.89 YES
L0044482	0	0.00000E+00	440885.1	3760809.7	199.4	3.66	1.40	2.89 YES
L0044483	0	0.00000E+00	440885.1	3760806.7	199.4	3.66	1.40	2.89 YES
L0044484	0	0.00000E+00	440885.1	3760803.7	199.5	3.66	1.40	2.89 YES
L0044485	0	0.00000E+00	440885.1	3760800.7	199.5	3.66	1.40	2.89 YES
L0044486	0	0.00000E+00	440885.1	3760797.7	199.6	3.66	1.40	2.89 YES
L0044487	0	0.00000E+00	440885.1	3760794.7	199.6	3.66	1.40	2.89 YES
L0044488	0	0.00000E+00	440885.1	3760791.7	199.6	3.66	1.40	2.89 YES
L0044489	0	0.00000E+00	440885.1	3760788.7	199.7	3.66	1.40	2.89 YES
L0044490	0	0.00000E+00	440885.1	3760785.7	199.7	3.66	1.40	2.89 YES
L0044491	0	0.00000E+00	440885.1	3760782.7	199.7	3.66	1.40	2.89 YES
L0044492	0	0.00000E+00	440885.1	3760779.7	199.7	3.66	1.40	2.89 YES
L0044493	0	0.00000E+00	440885.1	3760776.7	199.7	3.66	1.40	2.89 YES
L0044494	0	0.00000E+00	440885.1	3760773.7	199.6	3.66	1.40	2.89 YES
L0044495	0	0.00000E+00	440885.1	3760770.7	199.6	3.66	1.40	2.89 YES
L0044496	0	0.00000E+00	440885.1	3760767.7	199.6	3.66	1.40	2.89 YES
L0044497	0	0.00000E+00	440885.1	3760764.7	199.6	3.66	1.40	2.89 YES
L0044498	0	0.00000E+00	440885.1	3760761.7	199.6	3.66	1.40	2.89 YES
L0044499	0	0.00000E+00	440885.1	3760758.7	199.5	3.66	1.40	2.89 YES

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 L0044500         0   0.00000E+00  440885.1 3760755.7   199.5     3.66     1.40
2.89     YES
 L0044501         0   0.00000E+00  440885.1 3760752.7   199.5     3.66     1.40
2.89     YES
 L0044502         0   0.00000E+00  440885.1 3760749.7   199.5     3.66     1.40
2.89     YES
 L0044503         0   0.00000E+00  440885.1 3760746.7   199.5     3.66     1.40
2.89     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0044504	0	0.00000E+00	440885.1	3760743.7	199.4	3.66	1.40	2.89	YES	
L0044505	0	0.00000E+00	440885.1	3760740.7	199.4	3.66	1.40	2.89	YES	
L0044506	0	0.00000E+00	440885.1	3760737.7	199.4	3.66	1.40	2.89	YES	
L0044507	0	0.00000E+00	440885.1	3760734.7	199.4	3.66	1.40	2.89	YES	
L0044508	0	0.00000E+00	440885.1	3760731.7	199.4	3.66	1.40	2.89	YES	
L0044509	0	0.00000E+00	440885.1	3760728.7	199.3	3.66	1.40	2.89	YES	
L0044510	0	0.00000E+00	440885.1	3760725.7	199.3	3.66	1.40	2.89	YES	
L0044511	0	0.00000E+00	440885.1	3760722.7	199.3	3.66	1.40	2.89	YES	
L0044512	0	0.00000E+00	440885.1	3760719.7	199.3	3.66	1.40	2.89	YES	
L0044513	0	0.00000E+00	440885.1	3760716.7	199.2	3.66	1.40	2.89	YES	

L0044514	0	0.00000E+00	440885.1	3760713.7	199.2	3.66	1.40	2.89 YES
L0044515	0	0.00000E+00	440885.1	3760710.7	199.2	3.66	1.40	2.89 YES
L0044516	0	0.00000E+00	440885.1	3760707.7	199.2	3.66	1.40	2.89 YES
L0044517	0	0.00000E+00	440885.1	3760704.7	199.2	3.66	1.40	2.89 YES
L0044518	0	0.00000E+00	440885.1	3760701.7	199.2	3.66	1.40	2.89 YES
L0044519	0	0.00000E+00	440885.1	3760698.7	199.1	3.66	1.40	2.89 YES
L0044520	0	0.00000E+00	440885.1	3760695.7	199.1	3.66	1.40	2.89 YES
L0044521	0	0.00000E+00	440885.1	3760692.7	199.1	3.66	1.40	2.89 YES
L0044522	0	0.00000E+00	440885.1	3760689.7	199.1	3.66	1.40	2.89 YES
L0044523	0	0.00000E+00	440885.1	3760686.7	199.0	3.66	1.40	2.89 YES
L0044524	0	0.00000E+00	440885.1	3760683.7	199.0	3.66	1.40	2.89 YES
L0044525	0	0.00000E+00	440885.1	3760680.7	199.0	3.66	1.40	2.89 YES
L0044526	0	0.00000E+00	440885.1	3760677.7	199.0	3.66	1.40	2.89 YES
L0044527	0	0.00000E+00	440885.1	3760674.7	199.0	3.66	1.40	2.89 YES
L0044528	0	0.00000E+00	440885.1	3760671.7	198.9	3.66	1.40	2.89 YES
L0044529	0	0.00000E+00	440885.1	3760668.7	198.9	3.66	1.40	2.89 YES
L0044530	0	0.00000E+00	440885.1	3760665.7	198.9	3.66	1.40	2.89 YES
L0044531	0	0.00000E+00	440885.1	3760662.7	198.9	3.66	1.40	2.89 YES
L0044532	0	0.00000E+00	440885.1	3760659.7	198.8	3.66	1.40	2.89 YES
L0044533	0	0.00000E+00	440885.1	3760656.7	198.8	3.66	1.40	2.89 YES
L0044534	0	0.00000E+00	440885.1	3760653.7	198.8	3.66	1.40	2.89 YES
L0044535	0	0.00000E+00	440885.1	3760650.7	198.8	3.66	1.40	2.89 YES
L0044536	0	0.00000E+00	440885.1	3760647.7	198.7	3.66	1.40	2.89 YES
L0044537	0	0.00000E+00	440885.1	3760644.7	198.7	3.66	1.40	2.89 YES

```
 L0044538         0   0.00000E+00  440885.1 3760641.7   198.7     3.66     1.40
2.89     YES
 L0044539         0   0.00000E+00  440885.1 3760638.7   198.7     3.66     1.40
2.89     YES
 L0044540         0   0.00000E+00  440885.1 3760635.7   198.6     3.66     1.40
2.89     YES
 L0044541         0   0.00000E+00  440885.1 3760632.7   198.6     3.66     1.40
2.89     YES
 L0044542         0   0.00000E+00  440885.1 3760629.7   198.6     3.66     1.40
2.89     YES
 L0044543         0   0.00000E+00  440885.1 3760626.7   198.6     3.66     1.40
2.89     YES
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0044544	0	0.00000E+00	440885.1	3760623.7	198.6	3.66	1.40	2.89	YES	
L0044545	0	0.00000E+00	440885.1	3760620.7	198.5	3.66	1.40	2.89	YES	
L0044546	0	0.00000E+00	440885.1	3760617.7	198.5	3.66	1.40	2.89	YES	
L0044547	0	0.00000E+00	440885.1	3760614.7	198.5	3.66	1.40	2.89	YES	
L0044548	0	0.00000E+00	440885.1	3760611.7	198.5	3.66	1.40	2.89	YES	
L0044549	0	0.00000E+00	440885.1	3760608.7	198.4	3.66	1.40	2.89	YES	
L0044550	0	0.00000E+00	440885.1	3760605.7	198.4	3.66	1.40	2.89	YES	
L0044551	0	0.00000E+00	440885.1	3760602.7	198.4	3.66	1.40	2.89	YES	

L0044552	0	0.00000E+00	440885.1	3760599.7	198.4	3.66	1.40	2.89 YES
L0044553	0	0.00000E+00	440885.1	3760596.7	198.3	3.66	1.40	2.89 YES
L0044554	0	0.00000E+00	440885.1	3760593.7	198.3	3.66	1.40	2.89 YES
L0044555	0	0.00000E+00	440885.1	3760590.7	198.3	3.66	1.40	2.89 YES
L0044556	0	0.00000E+00	441082.8	3761000.0	202.2	3.66	1.40	2.89 YES
L0044557	0	0.00000E+00	441082.8	3760997.0	202.2	3.66	1.40	2.89 YES
L0044558	0	0.00000E+00	441082.8	3760994.0	202.2	3.66	1.40	2.89 YES
L0044559	0	0.00000E+00	441082.7	3760991.0	202.2	3.66	1.40	2.89 YES
L0044560	0	0.00000E+00	441082.7	3760988.0	202.1	3.66	1.40	2.89 YES
L0044561	0	0.00000E+00	441082.7	3760985.0	202.1	3.66	1.40	2.89 YES
L0044562	0	0.00000E+00	441082.7	3760982.0	202.1	3.66	1.40	2.89 YES
L0044563	0	0.00000E+00	441082.7	3760979.0	202.0	3.66	1.40	2.89 YES
L0044564	0	0.00000E+00	441082.7	3760976.0	202.0	3.66	1.40	2.89 YES
L0044565	0	0.00000E+00	441082.6	3760973.0	202.0	3.66	1.40	2.89 YES
L0044566	0	0.00000E+00	441082.6	3760970.0	201.9	3.66	1.40	2.89 YES
L0044567	0	0.00000E+00	441082.6	3760967.0	201.9	3.66	1.40	2.89 YES
L0044568	0	0.00000E+00	441082.6	3760964.0	201.9	3.66	1.40	2.89 YES
L0044569	0	0.00000E+00	441082.6	3760961.0	201.9	3.66	1.40	2.89 YES
L0044570	0	0.00000E+00	441082.5	3760958.0	201.8	3.66	1.40	2.89 YES
L0044571	0	0.00000E+00	441082.5	3760955.0	201.8	3.66	1.40	2.89 YES
L0044572	0	0.00000E+00	441082.5	3760952.0	201.8	3.66	1.40	2.89 YES
L0044573	0	0.00000E+00	441082.5	3760949.0	201.7	3.66	1.40	2.89 YES
L0044574	0	0.00000E+00	441082.5	3760946.0	201.7	3.66	1.40	2.89 YES
L0044575	0	0.00000E+00	441082.5	3760943.0	201.7	3.66	1.40	2.89 YES

```
 L0044576         0   0.00000E+00  441082.4 3760940.0   201.6     3.66     1.40
2.89     YES
 L0044577         0   0.00000E+00  441082.4 3760937.0   201.6     3.66     1.40
2.89     YES
 L0044578         0   0.00000E+00  441082.4 3760934.0   201.6     3.66     1.40
2.89     YES
 L0044579         0   0.00000E+00  441082.4 3760931.0   201.6     3.66     1.40
2.89     YES
 L0044580         0   0.00000E+00  441082.4 3760928.0   201.5     3.66     1.40
2.89     YES
 L0044581         0   0.00000E+00  441082.3 3760925.0   201.5     3.66     1.40
2.89     YES
 L0044582         0   0.00000E+00  441082.3 3760922.0   201.5     3.66     1.40
2.89     YES
 L0044583         0   0.00000E+00  441082.3 3760919.0   201.4     3.66     1.40
2.89     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0044584	0	0.00000E+00	441082.3	3760916.0	201.4	3.66	1.40	2.89	YES	
L0044585	0	0.00000E+00	441082.3	3760913.0	201.4	3.66	1.40	2.89	YES	
L0044586	0	0.00000E+00	441082.3	3760910.0	201.3	3.66	1.40	2.89	YES	
L0044587	0	0.00000E+00	441082.2	3760907.0	201.3	3.66	1.40	2.89	YES	
L0044588	0	0.00000E+00	441082.2	3760904.0	201.3	3.66	1.40	2.89	YES	
L0044589	0	0.00000E+00	441082.2	3760901.0	201.3	3.66	1.40	2.89	YES	

L0044590	0	0.00000E+00	441082.2	3760898.0	201.2	3.66	1.40	2.89 YES
L0044591	0	0.00000E+00	441082.2	3760895.0	201.2	3.66	1.40	2.89 YES
L0044592	0	0.00000E+00	441082.2	3760892.0	201.2	3.66	1.40	2.89 YES
L0044593	0	0.00000E+00	441082.1	3760889.0	201.2	3.66	1.40	2.89 YES
L0044594	0	0.00000E+00	441082.1	3760886.0	201.1	3.66	1.40	2.89 YES
L0044595	0	0.00000E+00	441082.1	3760883.0	201.1	3.66	1.40	2.89 YES
L0044596	0	0.00000E+00	441082.1	3760880.0	201.1	3.66	1.40	2.89 YES
L0044597	0	0.00000E+00	441082.1	3760877.0	201.1	3.66	1.40	2.89 YES
L0044598	0	0.00000E+00	441082.0	3760874.0	201.1	3.66	1.40	2.89 YES
L0044599	0	0.00000E+00	441082.0	3760871.0	201.1	3.66	1.40	2.89 YES
L0044600	0	0.00000E+00	441082.0	3760868.0	201.1	3.66	1.40	2.89 YES
L0044601	0	0.00000E+00	441082.0	3760865.0	201.1	3.66	1.40	2.89 YES
L0044602	0	0.00000E+00	441082.0	3760862.0	201.1	3.66	1.40	2.89 YES
L0044603	0	0.00000E+00	441082.0	3760859.0	201.1	3.66	1.40	2.89 YES
L0044604	0	0.00000E+00	441081.9	3760856.0	201.1	3.66	1.40	2.89 YES
L0044605	0	0.00000E+00	441081.9	3760853.0	201.1	3.66	1.40	2.89 YES
L0044606	0	0.00000E+00	441081.9	3760850.0	201.1	3.66	1.40	2.89 YES
L0044607	0	0.00000E+00	441081.9	3760847.0	201.1	3.66	1.40	2.89 YES
L0044608	0	0.00000E+00	441081.9	3760844.0	201.1	3.66	1.40	2.89 YES
L0044609	0	0.00000E+00	441081.9	3760841.0	201.1	3.66	1.40	2.89 YES
L0044610	0	0.00000E+00	441081.8	3760838.0	201.1	3.66	1.40	2.89 YES
L0044611	0	0.00000E+00	441081.8	3760835.0	201.1	3.66	1.40	2.89 YES
L0044612	0	0.00000E+00	441081.8	3760832.0	201.1	3.66	1.40	2.89 YES
L0044613	0	0.00000E+00	441081.8	3760829.0	201.0	3.66	1.40	2.89 YES

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 L0044614         0   0.00000E+00  441081.8 3760826.0   201.0     3.66     1.40
2.89     YES
 L0044615         0   0.00000E+00  441081.7 3760823.0   201.0     3.66     1.40
2.89     YES
 L0044616         0   0.00000E+00  441081.7 3760820.0   201.0     3.66     1.40
2.89     YES
 L0044617         0   0.00000E+00  441081.7 3760817.0   201.0     3.66     1.40
2.89     YES
 L0044618         0   0.00000E+00  441081.7 3760814.0   201.0     3.66     1.40
2.89     YES
 L0044619         0   0.00000E+00  441081.7 3760811.0   200.9     3.66     1.40
2.89     YES
 L0044620         0   0.00000E+00  441081.7 3760808.0   200.9     3.66     1.40
2.89     YES
 L0044621         0   0.00000E+00  441081.6 3760805.0   200.9     3.66     1.40
2.89     YES
 L0044622         0   0.00000E+00  441081.6 3760802.0   200.8     3.66     1.40
2.89     YES
 L0044623         0   0.00000E+00  441081.6 3760799.0   200.8     3.66     1.40
2.89     YES
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0044624	0	0.00000E+00	441081.6	3760796.0	200.8	3.66	1.40	2.89	YES	
L0044625	0	0.00000E+00	441081.6	3760793.0	200.7	3.66	1.40	2.89	YES	
L0044626	0	0.00000E+00	441081.5	3760790.0	200.7	3.66	1.40	2.89	YES	
L0044627	0	0.00000E+00	441081.5	3760787.0	200.7	3.66	1.40	2.89	YES	

L0044628	0	0.00000E+00	441081.5	3760784.0	200.7	3.66	1.40	2.89 YES
L0044629	0	0.00000E+00	441081.5	3760781.0	200.6	3.66	1.40	2.89 YES
L0044630	0	0.00000E+00	441081.5	3760778.0	200.6	3.66	1.40	2.89 YES
L0044631	0	0.00000E+00	441081.5	3760775.0	200.6	3.66	1.40	2.89 YES
L0044632	0	0.00000E+00	441081.4	3760772.0	200.6	3.66	1.40	2.89 YES
L0044633	0	0.00000E+00	441081.4	3760769.0	200.6	3.66	1.40	2.89 YES
L0044634	0	0.00000E+00	441081.4	3760766.0	200.6	3.66	1.40	2.89 YES
L0044635	0	0.00000E+00	441081.4	3760763.0	200.6	3.66	1.40	2.89 YES
L0044636	0	0.00000E+00	441081.4	3760760.0	200.6	3.66	1.40	2.89 YES
L0044637	0	0.00000E+00	441081.4	3760757.0	200.6	3.66	1.40	2.89 YES
L0044638	0	0.00000E+00	441081.3	3760754.0	200.6	3.66	1.40	2.89 YES
L0044639	0	0.00000E+00	441081.3	3760751.0	200.5	3.66	1.40	2.89 YES
L0044640	0	0.00000E+00	441081.3	3760748.0	200.5	3.66	1.40	2.89 YES
L0044641	0	0.00000E+00	441081.3	3760745.0	200.5	3.66	1.40	2.89 YES
L0044642	0	0.00000E+00	441081.3	3760742.0	200.5	3.66	1.40	2.89 YES
L0044643	0	0.00000E+00	441081.2	3760739.0	200.5	3.66	1.40	2.89 YES
L0044644	0	0.00000E+00	441081.2	3760736.0	200.5	3.66	1.40	2.89 YES
L0044645	0	0.00000E+00	441081.2	3760733.0	200.5	3.66	1.40	2.89 YES
L0044646	0	0.00000E+00	441081.2	3760730.0	200.5	3.66	1.40	2.89 YES
L0044647	0	0.00000E+00	441081.2	3760727.0	200.5	3.66	1.40	2.89 YES
L0044648	0	0.00000E+00	441081.2	3760724.0	200.5	3.66	1.40	2.89 YES
L0044649	0	0.00000E+00	441081.1	3760721.0	200.5	3.66	1.40	2.89 YES
L0044650	0	0.00000E+00	441081.1	3760718.0	200.5	3.66	1.40	2.89 YES
L0044651	0	0.00000E+00	441081.1	3760715.0	200.5	3.66	1.40	2.89 YES

```
 L0044652         0   0.00000E+00  441081.1 3760712.0   200.5     3.66     1.40
2.89     YES
 L0044653         0   0.00000E+00  441081.1 3760709.0   200.5     3.66     1.40
2.89     YES
 L0044654         0   0.00000E+00  441081.0 3760706.0   200.5     3.66     1.40
2.89     YES
 L0044655         0   0.00000E+00  441081.0 3760703.0   200.5     3.66     1.40
2.89     YES
 L0044656         0   0.00000E+00  441081.0 3760700.0   200.5     3.66     1.40
2.89     YES
 L0044657         0   0.00000E+00  441081.0 3760697.0   200.5     3.66     1.40
2.89     YES
 L0044658         0   0.00000E+00  441081.0 3760694.0   200.5     3.66     1.40
2.89     YES
 L0044659         0   0.00000E+00  441081.0 3760691.0   200.5     3.66     1.40
2.89     YES
 L0044660         0   0.00000E+00  441080.9 3760688.0   200.4     3.66     1.40
2.89     YES
 L0044661         0   0.00000E+00  441080.9 3760685.0   200.4     3.66     1.40
2.89     YES
 L0044662         0   0.00000E+00  441080.9 3760682.0   200.4     3.66     1.40
2.89     YES
 L0044663         0   0.00000E+00  441080.9 3760679.0   200.4     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0044664         0   0.00000E+00  441080.9 3760676.0   200.3     3.66     1.40
2.89     YES
 L0044665         0   0.00000E+00  441080.9 3760673.0   200.3     3.66     1.40
2.89     YES
```

L0044666	0	0.00000E+00	441080.8	3760670.0	200.3	3.66	1.40	2.89 YES
L0044667	0	0.00000E+00	441080.8	3760667.0	200.3	3.66	1.40	2.89 YES
L0044668	0	0.00000E+00	441080.8	3760664.0	200.2	3.66	1.40	2.89 YES
L0044669	0	0.00000E+00	441080.8	3760661.0	200.2	3.66	1.40	2.89 YES
L0044670	0	0.00000E+00	441080.8	3760658.0	200.2	3.66	1.40	2.89 YES
L0044671	0	0.00000E+00	441080.7	3760655.0	200.2	3.66	1.40	2.89 YES
L0044672	0	0.00000E+00	441080.7	3760652.0	200.2	3.66	1.40	2.89 YES
L0044673	0	0.00000E+00	441080.7	3760649.0	200.2	3.66	1.40	2.89 YES
L0044674	0	0.00000E+00	441080.7	3760646.0	200.2	3.66	1.40	2.89 YES
L0044675	0	0.00000E+00	441080.7	3760643.0	200.2	3.66	1.40	2.89 YES
L0044676	0	0.00000E+00	441080.7	3760640.0	200.1	3.66	1.40	2.89 YES
L0044677	0	0.00000E+00	441080.6	3760637.0	200.1	3.66	1.40	2.89 YES
L0044678	0	0.00000E+00	441080.6	3760634.0	200.1	3.66	1.40	2.89 YES
L0044679	0	0.00000E+00	441080.6	3760631.0	200.1	3.66	1.40	2.89 YES
L0044680	0	0.00000E+00	441080.6	3760628.0	200.1	3.66	1.40	2.89 YES
L0044681	0	0.00000E+00	441080.6	3760625.0	200.1	3.66	1.40	2.89 YES
L0044682	0	0.00000E+00	441080.6	3760622.0	200.1	3.66	1.40	2.89 YES
L0044683	0	0.00000E+00	441080.5	3760619.0	200.0	3.66	1.40	2.89 YES
L0044684	0	0.00000E+00	441080.5	3760616.0	200.0	3.66	1.40	2.89 YES
L0044685	0	0.00000E+00	441080.5	3760613.0	200.0	3.66	1.40	2.89 YES
L0044686	0	0.00000E+00	441080.5	3760610.0	200.0	3.66	1.40	2.89 YES
L0044687	0	0.00000E+00	441080.5	3760607.0	200.0	3.66	1.40	2.89 YES
L0044688	0	0.00000E+00	441080.4	3760604.0	199.9	3.66	1.40	2.89 YES
L0044689	0	0.00000E+00	441080.4	3760601.0	199.9	3.66	1.40	2.89 YES

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 L0044690         0   0.00000E+00  441080.4 3760598.0   199.9     3.66     1.40
2.89     YES
 L0044691         0   0.00000E+00  441080.4 3760595.0   199.9     3.66     1.40
2.89     YES
 L0044692         0   0.00000E+00  441080.4 3760592.0   199.9     3.66     1.40
2.89     YES
 L0044693         0   0.00000E+00  441080.4 3760589.0   199.9     3.66     1.40
2.89     YES
 L0035433         0   0.00000E+00  440815.1 3761148.5   202.2     3.66     2.33
2.89     YES
 L0035434         0   0.00000E+00  440813.6 3761153.2   202.3     3.66     2.33
2.89     YES
 L0035435         0   0.00000E+00  440812.0 3761158.0   202.3     3.66     2.33
2.89     YES
 L0035436         0   0.00000E+00  440810.4 3761162.7   202.3     3.66     2.33
2.89     YES
 L0035437         0   0.00000E+00  440808.9 3761167.5   202.4     3.66     2.33
2.89     YES
 L0035438         0   0.00000E+00  440807.4 3761172.2   202.4     3.66     2.33
2.89     YES
 L0035439         0   0.00000E+00  440808.5 3761177.1   202.5     3.66     2.33
2.89     YES
 L0035440         0   0.00000E+00  440809.6 3761182.0   202.5     3.66     2.33
2.89     YES
 L0035441         0   0.00000E+00  440810.6 3761186.9   202.6     3.66     2.33
2.89     YES
 L0035442         0   0.00000E+00  440811.7 3761191.8   202.7     3.66     2.33
2.89     YES
↟ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
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L0035443	0	0.00000E+00	440812.8	3761196.7	202.7	3.66	2.33	2.89 YES
L0035444	0	0.00000E+00	440813.8	3761201.5	202.8	3.66	2.33	2.89 YES
L0035445	0	0.00000E+00	440814.9	3761206.4	202.9	3.66	2.33	2.89 YES
L0035446	0	0.00000E+00	440817.5	3761210.3	202.9	3.66	2.33	2.89 YES
L0035447	0	0.00000E+00	440821.6	3761213.2	203.0	3.66	2.33	2.89 YES
L0035448	0	0.00000E+00	440825.7	3761216.0	203.1	3.66	2.33	2.89 YES
L0035449	0	0.00000E+00	440829.8	3761218.9	203.1	3.66	2.33	2.89 YES
L0035450	0	0.00000E+00	440833.9	3761221.8	203.2	3.66	2.33	2.89 YES
L0035451	0	0.00000E+00	440838.0	3761224.6	203.2	3.66	2.33	2.89 YES
L0035452	0	0.00000E+00	440842.9	3761225.3	203.3	3.66	2.33	2.89 YES
L0035453	0	0.00000E+00	440847.9	3761226.0	203.3	3.66	2.33	2.89 YES
L0035454	0	0.00000E+00	440852.8	3761226.7	203.4	3.66	2.33	2.89 YES
L0035455	0	0.00000E+00	440857.8	3761227.4	203.5	3.66	2.33	2.89 YES
L0035456	0	0.00000E+00	440862.7	3761228.1	203.6	3.66	2.33	2.89 YES
L0035457	0	0.00000E+00	440867.7	3761228.8	203.7	3.66	2.33	2.89 YES
L0035458	0	0.00000E+00	440872.6	3761229.5	203.8	3.66	2.33	2.89 YES
L0035459	0	0.00000E+00	440877.6	3761230.2	203.9	3.66	2.33	2.89 YES
L0035460	0	0.00000E+00	440882.5	3761230.9	203.9	3.66	2.33	2.89 YES
L0035461	0	0.00000E+00	440887.5	3761231.1	203.9	3.66	2.33	2.89 YES
L0035462	0	0.00000E+00	440892.5	3761231.1	204.0	3.66	2.33	2.89 YES
L0035463	0	0.00000E+00	440897.5	3761231.2	204.0	3.66	2.33	2.89 YES
L0035464	0	0.00000E+00	440902.5	3761231.3	204.0	3.66	2.33	2.89 YES
L0035465	0	0.00000E+00	440907.5	3761231.4	204.0	3.66	2.33	2.89 YES
L0035466	0	0.00000E+00	440912.5	3761231.5	204.1	3.66	2.33	2.89 YES

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 L0035467         0   0.00000E+00  440917.5 3761231.6   204.1     3.66     2.33
2.89     YES
 L0035468         0   0.00000E+00  440922.5 3761231.7   204.1     3.66     2.33
2.89     YES
 L0035469         0   0.00000E+00  440927.5 3761231.8   204.1     3.66     2.33
2.89     YES
 L0035470         0   0.00000E+00  440932.5 3761231.9   204.1     3.66     2.33
2.89     YES
 L0035471         0   0.00000E+00  440937.5 3761232.0   204.1     3.66     2.33
2.89     YES
 L0035472         0   0.00000E+00  440942.5 3761232.1   204.1     3.66     2.33
2.89     YES
 L0035473         0   0.00000E+00  440947.5 3761232.2   204.2     3.66     2.33
2.89     YES
 L0035474         0   0.00000E+00  440952.5 3761232.3   204.2     3.66     2.33
2.89     YES
 L0035475         0   0.00000E+00  440957.5 3761232.4   204.2     3.66     2.33
2.89     YES
 L0035476         0   0.00000E+00  440962.5 3761232.4   204.1     3.66     2.33
2.89     YES
 L0035477         0   0.00000E+00  440967.5 3761232.5   204.1     3.66     2.33
2.89     YES
 L0035478         0   0.00000E+00  440972.5 3761232.6   204.1     3.66     2.33
2.89     YES
 L0035479         0   0.00000E+00  440977.5 3761232.7   204.1     3.66     2.33
2.89     YES
 L0035480         0   0.00000E+00  440982.5 3761232.7   204.0     3.66     2.33
2.89     YES
 L0035481         0   0.00000E+00  440987.5 3761232.7   204.0     3.66     2.33
2.89     YES
 L0035482         0   0.00000E+00  440992.5 3761232.7   203.9     3.66     2.33
2.89     YES
↟ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
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(METERS) BY

- - - -

L0035505	0	0.00000E+00	441107.4	3761231.2	203.6	3.66	2.33	2.89 YES
L0035506	0	0.00000E+00	441112.1	3761229.6	203.5	3.66	2.33	2.89 YES
L0035507	0	0.00000E+00	441116.9	3761228.1	203.5	3.66	2.33	2.89 YES
L0035508	0	0.00000E+00	441121.6	3761226.5	203.5	3.66	2.33	2.89 YES
L0035509	0	0.00000E+00	441125.5	3761223.8	203.4	3.66	2.33	2.89 YES
L0035510	0	0.00000E+00	441127.9	3761219.5	203.3	3.66	2.33	2.89 YES
L0035511	0	0.00000E+00	441130.3	3761215.1	203.3	3.66	2.33	2.89 YES
L0035512	0	0.00000E+00	441132.8	3761210.8	203.2	3.66	2.33	2.89 YES
L0035513	0	0.00000E+00	441135.2	3761206.4	203.2	3.66	2.33	2.89 YES
L0035514	0	0.00000E+00	441135.1	3761201.4	203.2	3.66	2.33	2.89 YES
L0035515	0	0.00000E+00	441135.1	3761196.4	203.1	3.66	2.33	2.89 YES
L0035516	0	0.00000E+00	441135.0	3761191.4	203.1	3.66	2.33	2.89 YES
L0035517	0	0.00000E+00	441135.0	3761186.4	203.1	3.66	2.33	2.89 YES
L0035518	0	0.00000E+00	441134.9	3761181.4	203.1	3.66	2.33	2.89 YES
L0035519	0	0.00000E+00	441134.9	3761176.4	203.0	3.66	2.33	2.89 YES
L0035520	0	0.00000E+00	441134.7	3761171.4	203.0	3.66	2.33	2.89 YES
L0035521	0	0.00000E+00	441134.3	3761166.4	203.0	3.66	2.33	2.89 YES
L0035522	0	0.00000E+00	441133.8	3761161.4	203.0	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT.

SOURCE ID	INIT. PART. CATS.	URBAN SOURCE SCALAR VARY BY	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)
L0035523	0		0.00000E+00	441133.4	3761156.4	202.9	3.66	2.33	2.89
YES									
L0035524	0		0.00000E+00	441131.3	3761152.6	203.0	3.66	2.33	2.89
YES									
L0035525	0		0.00000E+00	441126.8	3761150.5	203.1	3.66	2.33	2.89
YES									
L0035526	0		0.00000E+00	441122.3	3761148.3	203.1	3.66	2.33	2.89
YES									
L0035527	0		0.00000E+00	441117.7	3761146.5	203.2	3.66	2.33	2.89
YES									
L0035528	0		0.00000E+00	441112.7	3761146.5	203.3	3.66	2.33	2.89
YES									
L0035529	0		0.00000E+00	441107.7	3761146.4	203.4	3.66	2.33	2.89
YES									
L0035530	0		0.00000E+00	441102.7	3761146.4	203.4	3.66	2.33	2.89
YES									
L0035531	0		0.00000E+00	441097.7	3761146.4	203.5	3.66	2.33	2.89
YES									
L0035532	0		0.00000E+00	441092.7	3761146.3	203.5	3.66	2.33	2.89
YES									
L0035533	0		0.00000E+00	441087.7	3761146.3	203.5	3.66	2.33	2.89
YES									
L0035534	0		0.00000E+00	441082.7	3761146.3	203.5	3.66	2.33	2.89
YES									
L0035535	0		0.00000E+00	441077.7	3761146.2	203.5	3.66	2.33	2.89
YES									
L0035536	0		0.00000E+00	441072.7	3761146.2	203.5	3.66	2.33	2.89
YES									
L0035537	0		0.00000E+00	441067.7	3761146.2	203.4	3.66	2.33	2.89
YES									
L0035538	0		0.00000E+00	441062.7	3761146.1	203.4	3.66	2.33	2.89
YES									
L0035539	0		0.00000E+00	441057.7	3761146.1	203.4	3.66	2.33	2.89
YES									
L0035540	0		0.00000E+00	441052.7	3761146.1	203.3	3.66	2.33	2.89
YES									
L0035541	0		0.00000E+00	441047.7	3761146.0	203.2	3.66	2.33	2.89
YES									
L0035542	0		0.00000E+00	441042.7	3761146.0	203.2	3.66	2.33	2.89
YES									

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 L0035543         0   0.00000E+00  441037.7 3761146.0   203.1     3.66     2.33
2.89     YES
 L0035544         0   0.00000E+00  441032.7 3761146.0   203.0     3.66     2.33
2.89     YES
 L0035545         0   0.00000E+00  441027.7 3761145.9   203.0     3.66     2.33
2.89     YES
 L0035546         0   0.00000E+00  441022.7 3761145.9   203.0     3.66     2.33
2.89     YES
 L0035547         0   0.00000E+00  441017.7 3761145.9   203.0     3.66     2.33
2.89     YES
 L0035548         0   0.00000E+00  441012.7 3761145.8   203.0     3.66     2.33
2.89     YES
 L0035549         0   0.00000E+00  441007.7 3761145.8   203.0     3.66     2.33
2.89     YES
 L0035550         0   0.00000E+00  441002.7 3761145.8   203.1     3.66     2.33
2.89     YES
 L0035551         0   0.00000E+00  440997.7 3761145.8   203.3     3.66     2.33
2.89     YES
 L0035552         0   0.00000E+00  440992.7 3761145.7   203.5     3.66     2.33
2.89     YES
 L0035553         0   0.00000E+00  440987.7 3761145.7   203.6     3.66     2.33
2.89     YES
 L0035554         0   0.00000E+00  440982.7 3761145.7   203.8     3.66     2.33
2.89     YES
 L0035555         0   0.00000E+00  440977.7 3761145.7   204.0     3.66     2.33
2.89     YES
 L0035556         0   0.00000E+00  440972.7 3761145.6   204.1     3.66     2.33
2.89     YES
 L0035557         0   0.00000E+00  440967.7 3761145.6   204.2     3.66     2.33
2.89     YES
 L0035558         0   0.00000E+00  440962.7 3761145.6   204.2     3.66     2.33
2.89     YES
 L0035559         0   0.00000E+00  440957.7 3761145.6   204.3     3.66     2.33
2.89     YES
 L0035560         0   0.00000E+00  440952.7 3761145.5   204.4     3.66     2.33
2.89     YES
 L0035561         0   0.00000E+00  440947.7 3761145.5   204.4     3.66     2.33
2.89     YES
 L0035562         0   0.00000E+00  440942.7 3761145.5   204.4     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0035563	0	0.00000E+00	440937.7	3761145.5	204.4	3.66	2.33	2.89	YES	
L0035564	0	0.00000E+00	440932.7	3761145.4	204.4	3.66	2.33	2.89	YES	
L0035565	0	0.00000E+00	440927.7	3761145.4	204.3	3.66	2.33	2.89	YES	
L0035566	0	0.00000E+00	440922.7	3761145.4	204.2	3.66	2.33	2.89	YES	
L0035567	0	0.00000E+00	440917.7	3761145.4	204.1	3.66	2.33	2.89	YES	
L0035568	0	0.00000E+00	440912.7	3761145.3	204.0	3.66	2.33	2.89	YES	
L0035569	0	0.00000E+00	440907.7	3761145.3	203.9	3.66	2.33	2.89	YES	
L0035570	0	0.00000E+00	440902.7	3761145.3	203.8	3.66	2.33	2.89	YES	
L0035571	0	0.00000E+00	440897.7	3761145.3	203.6	3.66	2.33	2.89	YES	
L0035572	0	0.00000E+00	440892.7	3761145.2	203.4	3.66	2.33	2.89	YES	
L0035573	0	0.00000E+00	440887.7	3761145.2	203.2	3.66	2.33	2.89	YES	
L0035574	0	0.00000E+00	440882.7	3761145.2	203.0	3.66	2.33	2.89	YES	
L0035575	0	0.00000E+00	440877.7	3761145.2	202.9	3.66	2.33	2.89	YES	
L0035576	0	0.00000E+00	440872.7	3761145.2	202.8	3.66	2.33	2.89	YES	
L0035577	0	0.00000E+00	440867.7	3761145.2	202.7	3.66	2.33	2.89	YES	
L0035578	0	0.00000E+00	440862.7	3761145.2	202.7	3.66	2.33	2.89	YES	
L0035579	0	0.00000E+00	440857.7	3761145.2	202.6	3.66	2.33	2.89	YES	
L0035580	0	0.00000E+00	440852.7	3761145.2	202.5	3.66	2.33	2.89	YES	

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 L0035581         0   0.00000E+00  440847.7 3761145.2   202.5     3.66     2.33
2.89     YES
 L0035582         0   0.00000E+00  440842.7 3761145.2   202.5     3.66     2.33
2.89     YES
 L0035583         0   0.00000E+00  440837.7 3761145.2   202.4     3.66     2.33
2.89     YES
 L0035584         0   0.00000E+00  440832.7 3761145.2   202.4     3.66     2.33
2.89     YES
 L0035585         0   0.00000E+00  440827.7 3761145.2   202.4     3.66     2.33
2.89     YES
 L0035586         0   0.00000E+00  440822.7 3761145.2   202.3     3.66     2.33
2.89     YES
 L0035587         0   0.00000E+00  440817.7 3761145.2   202.2     3.66     2.33
2.89     YES
 L0044694         0   0.00000E+00  441656.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044695         0   0.00000E+00  441659.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044696         0   0.00000E+00  441662.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044697         0   0.00000E+00  441665.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044698         0   0.00000E+00  441668.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044699         0   0.00000E+00  441671.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044700         0   0.00000E+00  441674.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044701         0   0.00000E+00  441677.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044702         0   0.00000E+00  441680.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044703         0   0.00000E+00  441683.1 3760562.5   200.4     3.66     1.40
2.89     YES
 L0044704         0   0.00000E+00  441686.1 3760562.5   200.5     3.66     1.40
2.89     YES
 L0044705         0   0.00000E+00  441689.1 3760562.5   200.5     3.66     1.40
2.89     YES
 L0044706         0   0.00000E+00  441692.1 3760562.5   200.5     3.66     1.40
2.89     YES
 L0044707         0   0.00000E+00  441695.1 3760562.5   200.5     3.66     1.40
2.89     YES
 L0044708         0   0.00000E+00  441698.1 3760562.5   200.5     3.66     1.40
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0044709	0	0.00000E+00	441701.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044710	0	0.00000E+00	441704.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044711	0	0.00000E+00	441707.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044712	0	0.00000E+00	441710.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044713	0	0.00000E+00	441713.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044714	0	0.00000E+00	441716.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044715	0	0.00000E+00	441719.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044716	0	0.00000E+00	441722.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044717	0	0.00000E+00	441725.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044718	0	0.00000E+00	441728.1	3760562.5	200.5	3.66	1.40	2.89	YES	
L0044719	0	0.00000E+00	441731.1	3760562.5	200.4	3.66	1.40	2.89	YES	
L0044720	0	0.00000E+00	441734.1	3760562.5	200.4	3.66	1.40	2.89	YES	
L0044721	0	0.00000E+00	441737.1	3760562.5	200.4	3.66	1.40	2.89	YES	
L0044722	0	0.00000E+00	441740.1	3760562.5	200.4	3.66	1.40	2.89	YES	
L0044723	0	0.00000E+00	441743.1	3760562.5	200.4	3.66	1.40	2.89	YES	
L0044724	0	0.00000E+00	441746.1	3760562.5	200.4	3.66	1.40	2.89	YES	

L0044725	0	0.00000E+00	441749.1	3760562.5	200.4	3.66	1.40	2.89 YES
L0044726	0	0.00000E+00	441752.1	3760562.5	200.4	3.66	1.40	2.89 YES
L0044727	0	0.00000E+00	441755.1	3760562.5	200.4	3.66	1.40	2.89 YES
L0044728	0	0.00000E+00	441758.1	3760562.5	200.4	3.66	1.40	2.89 YES
L0044729	0	0.00000E+00	441761.1	3760562.5	200.4	3.66	1.40	2.89 YES
L0044730	0	0.00000E+00	441764.1	3760562.5	200.4	3.66	1.40	2.89 YES
L0044731	0	0.00000E+00	441767.1	3760562.5	200.4	3.66	1.40	2.89 YES
L0044732	0	0.00000E+00	441770.1	3760562.5	200.4	3.66	1.40	2.89 YES
L0044733	0	0.00000E+00	441773.1	3760562.5	200.4	3.66	1.40	2.89 YES
L0044734	0	0.00000E+00	441776.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044735	0	0.00000E+00	441779.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044736	0	0.00000E+00	441782.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044737	0	0.00000E+00	441785.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044738	0	0.00000E+00	441788.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044739	0	0.00000E+00	441791.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044740	0	0.00000E+00	441794.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044741	0	0.00000E+00	441797.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044742	0	0.00000E+00	441800.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044743	0	0.00000E+00	441803.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044744	0	0.00000E+00	441806.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044745	0	0.00000E+00	441809.1	3760562.5	200.3	3.66	1.40	2.89 YES
L0044746	0	0.00000E+00	441812.1	3760562.5	200.2	3.66	1.40	2.89 YES
L0044747	0	0.00000E+00	441815.1	3760562.5	200.2	3.66	1.40	2.89 YES
L0044748	0	0.00000E+00	441818.1	3760562.5	200.2	3.66	1.40	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0044749	0	0.00000E+00	441821.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044750	0	0.00000E+00	441824.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044751	0	0.00000E+00	441827.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044752	0	0.00000E+00	441830.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044753	0	0.00000E+00	441833.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044754	0	0.00000E+00	441836.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044755	0	0.00000E+00	441839.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044756	0	0.00000E+00	441842.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044757	0	0.00000E+00	441845.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044758	0	0.00000E+00	441848.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044759	0	0.00000E+00	441851.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044760	0	0.00000E+00	441854.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044761	0	0.00000E+00	441857.1	3760562.5	200.2	3.66	1.40	2.89	YES	
L0044762	0	0.00000E+00	441860.1	3760562.5	200.2	3.66	1.40	2.89	YES	

L0044763	0	0.00000E+00	441863.1	3760562.5	200.2	3.66	1.40	2.89 YES
L0044764	0	0.00000E+00	441866.1	3760562.5	200.2	3.66	1.40	2.89 YES
L0044765	0	0.00000E+00	441869.1	3760562.5	200.2	3.66	1.40	2.89 YES
L0044766	0	0.00000E+00	441872.1	3760562.5	200.2	3.66	1.40	2.89 YES
L0044767	0	0.00000E+00	441875.1	3760562.5	200.2	3.66	1.40	2.89 YES
L0044768	0	0.00000E+00	441878.1	3760562.5	200.2	3.66	1.40	2.89 YES
L0044769	0	0.34410E-07	441750.5	3760499.5	200.0	3.66	2.33	2.89 YES
L0044770	0	0.34410E-07	441755.5	3760499.9	200.0	3.66	2.33	2.89 YES
L0044771	0	0.34410E-07	441760.5	3760500.3	200.0	3.66	2.33	2.89 YES
L0044772	0	0.34410E-07	441765.4	3760500.7	200.0	3.66	2.33	2.89 YES
L0044773	0	0.34410E-07	441770.4	3760501.1	200.0	3.66	2.33	2.89 YES
L0044774	0	0.34410E-07	441775.4	3760501.5	200.0	3.66	2.33	2.89 YES
L0044775	0	0.34410E-07	441780.4	3760501.9	200.0	3.66	2.33	2.89 YES
L0044776	0	0.34410E-07	441785.4	3760502.3	200.0	3.66	2.33	2.89 YES
L0044777	0	0.34410E-07	441790.4	3760502.8	200.0	3.66	2.33	2.89 YES
L0044778	0	0.34410E-07	441795.3	3760503.2	200.0	3.66	2.33	2.89 YES
L0044779	0	0.34410E-07	441800.3	3760503.6	200.0	3.66	2.33	2.89 YES
L0044780	0	0.34410E-07	441805.3	3760504.0	200.0	3.66	2.33	2.89 YES
L0044781	0	0.34410E-07	441810.3	3760504.4	200.0	3.66	2.33	2.89 YES
L0044782	0	0.34410E-07	441815.3	3760504.8	199.9	3.66	2.33	2.89 YES
L0044783	0	0.34410E-07	441820.2	3760505.3	199.9	3.66	2.33	2.89 YES
L0044784	0	0.34410E-07	441825.2	3760505.8	199.9	3.66	2.33	2.89 YES
L0044785	0	0.34410E-07	441830.2	3760506.4	199.9	3.66	2.33	2.89 YES
L0044786	0	0.34410E-07	441835.2	3760506.9	199.9	3.66	2.33	2.89 YES

 L0044787   0   0.34410E-07 441840.1 3760507.5   199.9   3.66   2.33
2.89   YES
 L0044788   0   0.34410E-07 441845.1 3760508.0   199.9   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0044789   0   0.34410E-07 441850.1 3760508.6   199.9   3.66   2.33
2.89   YES
 L0044790   0   0.34410E-07 441855.0 3760509.2   199.9   3.66   2.33
2.89   YES
 L0044791   0   0.34410E-07 441860.0 3760509.7   199.9   3.66   2.33
2.89   YES
 L0044792   0   0.34410E-07 441865.0 3760510.3   199.9   3.66   2.33
2.89   YES
 L0044793   0   0.34410E-07 441869.9 3760510.8   199.9   3.66   2.33
2.89   YES
 L0044794   0   0.34410E-07 441874.9 3760511.4   200.0   3.66   2.33
2.89   YES
 L0044795   0   0.34410E-07 441879.9 3760511.9   200.0   3.66   2.33
2.89   YES
 L0044796   0   0.34410E-07 441884.8 3760512.5   200.0   3.66   2.33
2.89   YES
 L0044797   0   0.34410E-07 441889.8 3760513.0   200.0   3.66   2.33
2.89   YES
 L0044798   0   0.34410E-07 441894.8 3760513.6   200.0   3.66   2.33
2.89   YES
 L0044799   0   0.34410E-07 441899.8 3760514.1   200.0   3.66   2.33
2.89   YES
 L0044800   0   0.34410E-07 441904.7 3760514.7   200.0   3.66   2.33
2.89   YES

L0044801	0	0.34410E-07	441909.5	3760515.7	200.1	3.66	2.33	2.89 YES
L0044802	0	0.34410E-07	441913.6	3760518.6	200.1	3.66	2.33	2.89 YES
L0044803	0	0.34410E-07	441917.6	3760521.5	200.1	3.66	2.33	2.89 YES
L0044804	0	0.34410E-07	441921.7	3760524.5	200.2	3.66	2.33	2.89 YES
L0044805	0	0.34410E-07	441925.8	3760527.4	200.2	3.66	2.33	2.89 YES
L0044806	0	0.34410E-07	441929.8	3760530.3	200.2	3.66	2.33	2.89 YES
L0044807	0	0.34410E-07	441931.7	3760534.6	200.3	3.66	2.33	2.89 YES
L0044808	0	0.34410E-07	441932.8	3760539.5	200.3	3.66	2.33	2.89 YES
L0044809	0	0.34410E-07	441933.9	3760544.4	200.4	3.66	2.33	2.89 YES
L0044810	0	0.34410E-07	441935.0	3760549.3	200.4	3.66	2.33	2.89 YES
L0044811	0	0.34410E-07	441936.1	3760554.2	200.5	3.66	2.33	2.89 YES
L0044812	0	0.34410E-07	441936.0	3760559.1	200.5	3.66	2.33	2.89 YES
L0044813	0	0.34410E-07	441935.6	3760564.1	200.5	3.66	2.33	2.89 YES
L0044814	0	0.34410E-07	441935.2	3760569.1	200.6	3.66	2.33	2.89 YES
L0044815	0	0.34410E-07	441934.8	3760574.1	200.6	3.66	2.33	2.89 YES
L0044816	0	0.34410E-07	441934.4	3760579.0	200.6	3.66	2.33	2.89 YES
L0044817	0	0.34410E-07	441934.0	3760584.0	200.7	3.66	2.33	2.89 YES
L0044818	0	0.34410E-07	441933.0	3760588.8	200.7	3.66	2.33	2.89 YES
L0044819	0	0.34410E-07	441929.7	3760592.5	200.7	3.66	2.33	2.89 YES
L0044820	0	0.34410E-07	441926.3	3760596.2	200.7	3.66	2.33	2.89 YES
L0044821	0	0.34410E-07	441922.9	3760599.9	200.8	3.66	2.33	2.89 YES
L0044822	0	0.34410E-07	441919.6	3760603.6	200.8	3.66	2.33	2.89 YES
L0044823	0	0.34410E-07	441916.0	3760607.0	200.8	3.66	2.33	2.89 YES
L0044824	0	0.34410E-07	441911.4	3760608.9	200.9	3.66	2.33	2.89 YES

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 L0044825         0   0.34410E-07  441906.8 3760610.7   200.9     3.66     2.33
2.89     YES
 L0044826         0   0.34410E-07  441902.1 3760612.6   200.9     3.66     2.33
2.89     YES
 L0044827         0   0.34410E-07  441897.5 3760614.5   200.9     3.66     2.33
2.89     YES
 L0044828         0   0.34410E-07  441892.8 3760616.3   201.0     3.66     2.33
2.89     YES
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	ADJ_U* EMISSION RATE SCALAR VARY
L0044829	0	0.34410E-07	441888.0	3760617.6	201.0	3.66	2.33	2.89	YES	
L0044830	0	0.34410E-07	441883.1	3760618.2	201.0	3.66	2.33	2.89	YES	
L0044831	0	0.34410E-07	441878.1	3760618.7	201.0	3.66	2.33	2.89	YES	
L0044832	0	0.34410E-07	441873.1	3760619.2	201.0	3.66	2.33	2.89	YES	
L0044833	0	0.34410E-07	441868.2	3760619.7	201.0	3.66	2.33	2.89	YES	
L0044834	0	0.34410E-07	441863.2	3760620.2	201.0	3.66	2.33	2.89	YES	
L0044835	0	0.34410E-07	441858.2	3760620.8	201.0	3.66	2.33	2.89	YES	
L0044836	0	0.34410E-07	441853.2	3760621.3	201.1	3.66	2.33	2.89	YES	
L0044837	0	0.34410E-07	441848.3	3760621.8	201.1	3.66	2.33	2.89	YES	
L0044838	0	0.34410E-07	441843.3	3760622.3	201.1	3.66	2.33	2.89	YES	

L0044839	0	0.34410E-07	441838.3	3760622.7	201.1	3.66	2.33	2.89 YES
L0044840	0	0.34410E-07	441833.3	3760622.6	201.1	3.66	2.33	2.89 YES
L0044841	0	0.34410E-07	441828.3	3760622.5	201.1	3.66	2.33	2.89 YES
L0044842	0	0.34410E-07	441823.3	3760622.4	201.1	3.66	2.33	2.89 YES
L0044843	0	0.34410E-07	441818.3	3760622.3	201.1	3.66	2.33	2.89 YES
L0044844	0	0.34410E-07	441813.3	3760622.2	201.1	3.66	2.33	2.89 YES
L0044845	0	0.34410E-07	441808.3	3760622.1	201.1	3.66	2.33	2.89 YES
L0044846	0	0.34410E-07	441803.3	3760622.0	201.2	3.66	2.33	2.89 YES
L0044847	0	0.34410E-07	441798.3	3760621.9	201.2	3.66	2.33	2.89 YES
L0044848	0	0.34410E-07	441793.3	3760621.8	201.2	3.66	2.33	2.89 YES
L0044849	0	0.34410E-07	441788.3	3760621.7	201.1	3.66	2.33	2.89 YES
L0044850	0	0.34410E-07	441783.3	3760621.6	201.1	3.66	2.33	2.89 YES
L0044851	0	0.34410E-07	441778.3	3760621.5	201.1	3.66	2.33	2.89 YES
L0044852	0	0.34410E-07	441773.3	3760621.4	201.1	3.66	2.33	2.89 YES
L0044853	0	0.34410E-07	441768.3	3760621.3	201.1	3.66	2.33	2.89 YES
L0044854	0	0.34410E-07	441763.3	3760621.2	201.1	3.66	2.33	2.89 YES
L0044855	0	0.34410E-07	441758.3	3760621.1	201.1	3.66	2.33	2.89 YES
L0044856	0	0.34410E-07	441753.3	3760621.0	201.1	3.66	2.33	2.89 YES
L0044857	0	0.34410E-07	441748.3	3760620.9	201.1	3.66	2.33	2.89 YES
L0044858	0	0.34410E-07	441743.3	3760620.8	201.1	3.66	2.33	2.89 YES
L0044859	0	0.34410E-07	441738.3	3760620.7	201.1	3.66	2.33	2.89 YES
L0044860	0	0.34410E-07	441733.3	3760620.6	201.1	3.66	2.33	2.89 YES
L0044861	0	0.34410E-07	441728.3	3760620.5	201.1	3.66	2.33	2.89 YES
L0044862	0	0.34410E-07	441723.3	3760620.4	201.1	3.66	2.33	2.89 YES

 L0044863   0   0.34410E-07 441718.3 3760620.3   201.1   3.66   2.33
2.89   YES
 L0044864   0   0.34410E-07 441713.3 3760620.2   201.1   3.66   2.33
2.89   YES
 L0044865   0   0.34410E-07 441708.3 3760620.1   201.1   3.66   2.33
2.89   YES
 L0044866   0   0.34410E-07 441703.3 3760619.9   201.1   3.66   2.33
2.89   YES
 L0044867   0   0.34410E-07 441698.3 3760619.8   201.1   3.66   2.33
2.89   YES
 L0044868   0   0.34410E-07 441693.3 3760619.7   201.1   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** VOLUME SOURCE DATA ***

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

 L0044869   0   0.34410E-07 441688.3 3760619.6   201.0   3.66   2.33
2.89   YES
 L0044870   0   0.34410E-07 441683.3 3760619.5   201.0   3.66   2.33
2.89   YES
 L0044871   0   0.34410E-07 441678.3 3760619.4   201.0   3.66   2.33
2.89   YES
 L0044872   0   0.34410E-07 441673.4 3760619.3   200.9   3.66   2.33
2.89   YES
 L0044873   0   0.34410E-07 441668.4 3760619.2   200.9   3.66   2.33
2.89   YES
 L0044874   0   0.34410E-07 441663.4 3760618.7   200.9   3.66   2.33
2.89   YES
 L0044875   0   0.34410E-07 441658.5 3760617.6   200.8   3.66   2.33
2.89   YES
 L0044876   0   0.34410E-07 441653.6 3760616.6   200.8   3.66   2.33
2.89   YES

L0044877	0	0.34410E-07	441648.7	3760615.6	200.8	3.66	2.33	2.89 YES
L0044878	0	0.34410E-07	441643.8	3760614.5	200.8	3.66	2.33	2.89 YES
L0044879	0	0.34410E-07	441638.9	3760613.5	200.8	3.66	2.33	2.89 YES
L0044880	0	0.34410E-07	441634.1	3760612.5	200.8	3.66	2.33	2.89 YES
L0044881	0	0.34410E-07	441629.2	3760611.4	200.7	3.66	2.33	2.89 YES
L0044882	0	0.34410E-07	441624.3	3760610.4	200.7	3.66	2.33	2.89 YES
L0044883	0	0.34410E-07	441619.4	3760609.4	200.7	3.66	2.33	2.89 YES
L0044884	0	0.34410E-07	441614.9	3760607.8	200.7	3.66	2.33	2.89 YES
L0044885	0	0.34410E-07	441612.5	3760603.4	200.6	3.66	2.33	2.89 YES
L0044886	0	0.34410E-07	441610.2	3760599.0	200.6	3.66	2.33	2.89 YES
L0044887	0	0.34410E-07	441607.8	3760594.6	200.5	3.66	2.33	2.89 YES
L0044888	0	0.34410E-07	441605.5	3760590.2	200.5	3.66	2.33	2.89 YES
L0044889	0	0.34410E-07	441603.1	3760585.8	200.4	3.66	2.33	2.89 YES
L0044890	0	0.34410E-07	441601.0	3760581.3	200.4	3.66	2.33	2.89 YES
L0044891	0	0.34410E-07	441600.2	3760576.3	200.3	3.66	2.33	2.89 YES
L0044892	0	0.34410E-07	441599.4	3760571.4	200.3	3.66	2.33	2.89 YES
L0044893	0	0.34410E-07	441598.6	3760566.5	200.2	3.66	2.33	2.89 YES
L0044894	0	0.34410E-07	441597.8	3760561.5	200.2	3.66	2.33	2.89 YES
L0044895	0	0.34410E-07	441597.0	3760556.6	200.2	3.66	2.33	2.89 YES
L0044896	0	0.34410E-07	441597.5	3760551.8	200.1	3.66	2.33	2.89 YES
L0044897	0	0.34410E-07	441599.3	3760547.1	200.1	3.66	2.33	2.89 YES
L0044898	0	0.34410E-07	441601.0	3760542.4	200.1	3.66	2.33	2.89 YES
L0044899	0	0.34410E-07	441602.7	3760537.7	200.1	3.66	2.33	2.89 YES
L0044900	0	0.34410E-07	441604.5	3760533.0	200.0	3.66	2.33	2.89 YES

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 L0044901         0   0.34410E-07  441607.2 3760529.1   200.0     3.66     2.33
2.89     YES
 L0044902         0   0.34410E-07  441611.3 3760526.4   200.0     3.66     2.33
2.89     YES
 L0044903         0   0.34410E-07  441615.5 3760523.6   200.1     3.66     2.33
2.89     YES
 L0044904         0   0.34410E-07  441619.7 3760520.8   200.1     3.66     2.33
2.89     YES
 L0044905         0   0.34410E-07  441623.8 3760518.0   200.1     3.66     2.33
2.89     YES
 L0044906         0   0.34410E-07  441628.0 3760515.3   200.2     3.66     2.33
2.89     YES
 L0044907         0   0.34410E-07  441632.5 3760513.3   200.2     3.66     2.33
2.89     YES
 L0044908         0   0.34410E-07  441637.3 3760511.8   200.2     3.66     2.33
2.89     YES
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE VARY
L0044909	0	0.34410E-07	441642.1	3760510.2	200.3	3.66	2.33	2.89	YES	
L0044910	0	0.34410E-07	441646.8	3760508.7	200.2	3.66	2.33	2.89	YES	
L0044911	0	0.34410E-07	441651.6	3760507.2	200.2	3.66	2.33	2.89	YES	
L0044912	0	0.34410E-07	441656.4	3760505.7	200.2	3.66	2.33	2.89	YES	
L0044913	0	0.34410E-07	441661.1	3760504.2	200.2	3.66	2.33	2.89	YES	
L0044914	0	0.34410E-07	441665.9	3760502.6	200.1	3.66	2.33	2.89	YES	

L0044915	0	0.34410E-07	441670.6	3760501.1	200.1	3.66	2.33	2.89 YES
L0044916	0	0.34410E-07	441675.6	3760500.8	200.1	3.66	2.33	2.89 YES
L0044917	0	0.34410E-07	441680.6	3760500.8	200.1	3.66	2.33	2.89 YES
L0044918	0	0.34410E-07	441685.6	3760500.7	200.1	3.66	2.33	2.89 YES
L0044919	0	0.34410E-07	441690.6	3760500.6	200.1	3.66	2.33	2.89 YES
L0044920	0	0.34410E-07	441695.6	3760500.5	200.1	3.66	2.33	2.89 YES
L0044921	0	0.34410E-07	441700.6	3760500.4	200.1	3.66	2.33	2.89 YES
L0044922	0	0.34410E-07	441705.6	3760500.3	200.1	3.66	2.33	2.89 YES
L0044923	0	0.34410E-07	441710.6	3760500.2	200.1	3.66	2.33	2.89 YES
L0044924	0	0.34410E-07	441715.6	3760500.1	200.1	3.66	2.33	2.89 YES
L0044925	0	0.34410E-07	441720.6	3760500.0	200.1	3.66	2.33	2.89 YES
L0044926	0	0.34410E-07	441725.6	3760499.9	200.1	3.66	2.33	2.89 YES
L0044927	0	0.34410E-07	441730.6	3760499.9	200.1	3.66	2.33	2.89 YES
L0044928	0	0.34410E-07	441735.6	3760499.8	200.0	3.66	2.33	2.89 YES
L0044929	0	0.34410E-07	441740.6	3760499.7	200.0	3.66	2.33	2.89 YES
L0044930	0	0.13240E-06	441964.3	3760855.9	202.7	3.66	2.33	2.89 YES
L0044931	0	0.13240E-06	441969.3	3760855.9	202.7	3.66	2.33	2.89 YES
L0044932	0	0.13240E-06	441974.3	3760855.8	202.6	3.66	2.33	2.89 YES
L0044933	0	0.13240E-06	441979.3	3760855.8	202.6	3.66	2.33	2.89 YES
L0044934	0	0.13240E-06	441984.3	3760855.8	202.6	3.66	2.33	2.89 YES
L0044935	0	0.13240E-06	441989.3	3760855.8	202.5	3.66	2.33	2.89 YES
L0044936	0	0.13240E-06	441994.3	3760855.8	202.5	3.66	2.33	2.89 YES
L0044937	0	0.54550E-07	440992.8	3760508.7	198.7	3.66	2.33	2.89 YES
L0044938	0	0.54550E-07	440997.8	3760509.3	198.9	3.66	2.33	2.89 YES

 L0044939   0   0.54550E-07 441002.8 3760509.9   199.0   3.66   2.33
2.89   YES
 L0044940   0   0.54550E-07 441007.7 3760510.4   199.0   3.66   2.33
2.89   YES
 L0044941   0   0.54550E-07 441012.7 3760511.0   199.1   3.66   2.33
2.89   YES
 L0044942   0   0.54550E-07 441017.7 3760511.5   199.1   3.66   2.33
2.89   YES
 L0044943   0   0.54550E-07 441022.6 3760512.1   199.2   3.66   2.33
2.89   YES
 L0044944   0   0.54550E-07 441027.6 3760512.7   199.2   3.66   2.33
2.89   YES
 L0044945   0   0.54550E-07 441032.5 3760513.6   199.2   3.66   2.33
2.89   YES
 L0044946   0   0.54550E-07 441037.3 3760514.9   199.3   3.66   2.33
2.89   YES
 L0044947   0   0.54550E-07 441042.1 3760516.2   199.3   3.66   2.33
2.89   YES
 L0044948   0   0.54550E-07 441047.0 3760517.5   199.3   3.66   2.33
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** VOLUME SOURCE DATA ***

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

 L0044949   0   0.54550E-07 441051.8 3760518.9   199.3   3.66   2.33
2.89   YES
 L0044950   0   0.54550E-07 441056.6 3760520.2   199.4   3.66   2.33
2.89   YES
 L0044951   0   0.54550E-07 441061.4 3760521.5   199.4   3.66   2.33
2.89   YES
 L0044952   0   0.54550E-07 441066.2 3760522.9   199.4   3.66   2.33
2.89   YES

L0044953	0	0.54550E-07	441071.1	3760524.2	199.4	3.66	2.33	2.89 YES
L0044954	0	0.54550E-07	441075.9	3760525.5	199.4	3.66	2.33	2.89 YES
L0044955	0	0.54550E-07	441080.7	3760526.8	199.4	3.66	2.33	2.89 YES
L0044956	0	0.54550E-07	441085.5	3760528.2	199.4	3.66	2.33	2.89 YES
L0044957	0	0.54550E-07	441089.5	3760531.2	199.4	3.66	2.33	2.89 YES
L0044958	0	0.54550E-07	441093.5	3760534.2	199.4	3.66	2.33	2.89 YES
L0044959	0	0.54550E-07	441097.5	3760537.3	199.4	3.66	2.33	2.89 YES
L0044960	0	0.54550E-07	441101.4	3760540.3	199.4	3.66	2.33	2.89 YES
L0044961	0	0.54550E-07	441105.4	3760543.3	199.4	3.66	2.33	2.89 YES
L0044962	0	0.54550E-07	441109.4	3760546.4	199.5	3.66	2.33	2.89 YES
L0044963	0	0.54550E-07	441113.3	3760549.4	199.5	3.66	2.33	2.89 YES
L0044964	0	0.54550E-07	441117.3	3760552.4	199.5	3.66	2.33	2.89 YES
L0044965	0	0.54550E-07	441121.3	3760555.5	199.6	3.66	2.33	2.89 YES
L0044966	0	0.54550E-07	441125.3	3760558.5	199.6	3.66	2.33	2.89 YES
L0044967	0	0.54550E-07	441127.0	3760563.0	199.7	3.66	2.33	2.89 YES
L0044968	0	0.54550E-07	441128.2	3760567.8	199.7	3.66	2.33	2.89 YES
L0044969	0	0.54550E-07	441129.3	3760572.7	199.8	3.66	2.33	2.89 YES
L0044970	0	0.54550E-07	441130.4	3760577.6	199.8	3.66	2.33	2.89 YES
L0044971	0	0.54550E-07	441131.6	3760582.4	199.9	3.66	2.33	2.89 YES
L0044972	0	0.54550E-07	441132.7	3760587.3	199.9	3.66	2.33	2.89 YES
L0044973	0	0.54550E-07	441133.9	3760592.2	199.9	3.66	2.33	2.89 YES
L0044974	0	0.54550E-07	441135.0	3760597.1	200.0	3.66	2.33	2.89 YES
L0044975	0	0.54550E-07	441136.1	3760601.9	200.0	3.66	2.33	2.89 YES
L0044976	0	0.54550E-07	441136.3	3760606.9	200.1	3.66	2.33	2.89 YES

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 L0044977         0   0.54550E-07  441136.4 3760611.9   200.1     3.66     2.33
2.89     YES
 L0044978         0   0.54550E-07  441136.4 3760616.9   200.2     3.66     2.33
2.89     YES
 L0044979         0   0.54550E-07  441136.5 3760621.9   200.2     3.66     2.33
2.89     YES
 L0044980         0   0.54550E-07  441136.5 3760626.9   200.3     3.66     2.33
2.89     YES
 L0044981         0   0.54550E-07  441136.5 3760631.9   200.3     3.66     2.33
2.89     YES
 L0044982         0   0.54550E-07  441136.6 3760636.9   200.4     3.66     2.33
2.89     YES
 L0044983         0   0.54550E-07  441136.6 3760641.9   200.4     3.66     2.33
2.89     YES
 L0044984         0   0.54550E-07  441136.7 3760646.9   200.4     3.66     2.33
2.89     YES
 L0044985         0   0.54550E-07  441136.7 3760651.9   200.4     3.66     2.33
2.89     YES
 L0044986         0   0.54550E-07  441136.8 3760656.9   200.4     3.66     2.33
2.89     YES
 L0044987         0   0.54550E-07  441136.8 3760661.9   200.5     3.66     2.33
2.89     YES
 L0044988         0   0.54550E-07  441136.9 3760666.9   200.5     3.66     2.33
2.89     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0044989	0	0.54550E-07	441136.9	3760671.9	200.6	3.66	2.33	2.89	YES	
L0044990	0	0.54550E-07	441136.9	3760676.9	200.6	3.66	2.33	2.89	YES	

L0044991	0	0.54550E-07	441137.0	3760681.9	200.7	3.66	2.33	2.89 YES
L0044992	0	0.54550E-07	441137.0	3760686.9	200.7	3.66	2.33	2.89 YES
L0044993	0	0.54550E-07	441137.1	3760691.9	200.8	3.66	2.33	2.89 YES
L0044994	0	0.54550E-07	441137.1	3760696.9	200.7	3.66	2.33	2.89 YES
L0044995	0	0.54550E-07	441137.2	3760701.9	200.7	3.66	2.33	2.89 YES
L0044996	0	0.54550E-07	441137.2	3760706.9	200.7	3.66	2.33	2.89 YES
L0044997	0	0.54550E-07	441137.3	3760711.9	200.7	3.66	2.33	2.89 YES
L0044998	0	0.54550E-07	441137.3	3760716.9	200.6	3.66	2.33	2.89 YES
L0044999	0	0.54550E-07	441137.3	3760721.9	200.6	3.66	2.33	2.89 YES
L0045000	0	0.54550E-07	441137.4	3760726.9	200.6	3.66	2.33	2.89 YES
L0045001	0	0.54550E-07	441137.4	3760731.9	200.6	3.66	2.33	2.89 YES
L0045002	0	0.54550E-07	441137.5	3760736.9	200.6	3.66	2.33	2.89 YES
L0045003	0	0.54550E-07	441137.5	3760741.9	200.6	3.66	2.33	2.89 YES
L0045004	0	0.54550E-07	441137.6	3760746.9	200.6	3.66	2.33	2.89 YES
L0045005	0	0.54550E-07	441137.6	3760751.9	200.6	3.66	2.33	2.89 YES
L0045006	0	0.54550E-07	441137.6	3760756.9	200.6	3.66	2.33	2.89 YES
L0045007	0	0.54550E-07	441137.7	3760761.9	200.6	3.66	2.33	2.89 YES
L0045008	0	0.54550E-07	441137.7	3760766.9	200.7	3.66	2.33	2.89 YES
L0045009	0	0.54550E-07	441137.8	3760771.9	200.7	3.66	2.33	2.89 YES
L0045010	0	0.54550E-07	441137.8	3760776.9	200.7	3.66	2.33	2.89 YES
L0045011	0	0.54550E-07	441137.9	3760781.9	200.7	3.66	2.33	2.89 YES
L0045012	0	0.54550E-07	441137.9	3760786.9	200.8	3.66	2.33	2.89 YES
L0045013	0	0.54550E-07	441138.0	3760791.9	200.8	3.66	2.33	2.89 YES
L0045014	0	0.54550E-07	441137.9	3760796.9	200.9	3.66	2.33	2.89 YES

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 L0045015         0   0.54550E-07  441137.8 3760801.9   201.0     3.66     2.33
2.89     YES
 L0045016         0   0.54550E-07  441137.7 3760806.9   201.1     3.66     2.33
2.89     YES
 L0045017         0   0.54550E-07  441137.6 3760811.9   201.1     3.66     2.33
2.89     YES
 L0045018         0   0.54550E-07  441137.5 3760816.9   201.2     3.66     2.33
2.89     YES
 L0045019         0   0.54550E-07  441137.4 3760821.9   201.2     3.66     2.33
2.89     YES
 L0045020         0   0.54550E-07  441137.4 3760826.9   201.3     3.66     2.33
2.89     YES
 L0045021         0   0.54550E-07  441137.3 3760831.9   201.3     3.66     2.33
2.89     YES
 L0045022         0   0.54550E-07  441137.2 3760836.9   201.4     3.66     2.33
2.89     YES
 L0045023         0   0.54550E-07  441137.1 3760841.9   201.4     3.66     2.33
2.89     YES
 L0045024         0   0.54550E-07  441137.0 3760846.9   201.4     3.66     2.33
2.89     YES
 L0045025         0   0.54550E-07  441136.9 3760851.9   201.4     3.66     2.33
2.89     YES
 L0045026         0   0.54550E-07  441136.8 3760856.9   201.4     3.66     2.33
2.89     YES
 L0045027         0   0.54550E-07  441136.7 3760861.9   201.4     3.66     2.33
2.89     YES
 L0045028         0   0.54550E-07  441136.6 3760866.9   201.4     3.66     2.33
2.89     YES
↟ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
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L0045029	0	0.54550E-07	441136.5	3760871.9	201.4	3.66	2.33	2.89 YES
L0045030	0	0.54550E-07	441136.4	3760876.9	201.4	3.66	2.33	2.89 YES
L0045031	0	0.54550E-07	441136.3	3760881.9	201.5	3.66	2.33	2.89 YES
L0045032	0	0.54550E-07	441136.2	3760886.9	201.5	3.66	2.33	2.89 YES
L0045033	0	0.54550E-07	441136.1	3760891.9	201.5	3.66	2.33	2.89 YES
L0045034	0	0.54550E-07	441136.0	3760896.9	201.5	3.66	2.33	2.89 YES
L0045035	0	0.54550E-07	441136.0	3760901.9	201.5	3.66	2.33	2.89 YES
L0045036	0	0.54550E-07	441135.9	3760906.9	201.6	3.66	2.33	2.89 YES
L0045037	0	0.54550E-07	441135.8	3760911.9	201.6	3.66	2.33	2.89 YES
L0045038	0	0.54550E-07	441135.7	3760916.9	201.6	3.66	2.33	2.89 YES
L0045039	0	0.54550E-07	441135.6	3760921.9	201.6	3.66	2.33	2.89 YES
L0045040	0	0.54550E-07	441135.6	3760926.9	201.6	3.66	2.33	2.89 YES
L0045041	0	0.54550E-07	441135.6	3760931.9	201.6	3.66	2.33	2.89 YES
L0045042	0	0.54550E-07	441135.5	3760936.9	201.7	3.66	2.33	2.89 YES
L0045043	0	0.54550E-07	441135.5	3760941.9	201.7	3.66	2.33	2.89 YES
L0045044	0	0.54550E-07	441135.4	3760946.9	201.7	3.66	2.33	2.89 YES
L0045045	0	0.54550E-07	441135.4	3760951.9	201.8	3.66	2.33	2.89 YES
L0045046	0	0.54550E-07	441135.3	3760956.9	201.8	3.66	2.33	2.89 YES
L0045047	0	0.54550E-07	441135.3	3760961.9	201.8	3.66	2.33	2.89 YES
L0045048	0	0.54550E-07	441135.2	3760966.9	201.9	3.66	2.33	2.89 YES
L0045049	0	0.54550E-07	441135.2	3760971.9	201.9	3.66	2.33	2.89 YES
L0045050	0	0.54550E-07	441135.1	3760976.9	201.9	3.66	2.33	2.89 YES
L0045051	0	0.54550E-07	441135.1	3760981.9	202.0	3.66	2.33	2.89 YES
L0045052	0	0.54550E-07	441135.0	3760986.9	202.0	3.66	2.33	2.89 YES

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 L0045053         0   0.54550E-07  441135.0 3760991.9   202.0     3.66     2.33
2.89     YES
 L0045054         0   0.54550E-07  441134.9 3760996.9   202.1     3.66     2.33
2.89     YES
 L0045055         0   0.54550E-07  441134.9 3761001.9   202.1     3.66     2.33
2.89     YES
 L0045056         0   0.54550E-07  441134.8 3761006.9   202.1     3.66     2.33
2.89     YES
 L0045057         0   0.54550E-07  441134.2 3761011.8   202.2     3.66     2.33
2.89     YES
 L0045058         0   0.54550E-07  441133.5 3761016.8   202.2     3.66     2.33
2.89     YES
 L0045059         0   0.54550E-07  441132.9 3761021.7   202.2     3.66     2.33
2.89     YES
 L0045060         0   0.54550E-07  441132.3 3761026.7   202.3     3.66     2.33
2.89     YES
 L0045061         0   0.54550E-07  441131.6 3761031.7   202.3     3.66     2.33
2.89     YES
 L0045062         0   0.54550E-07  441131.0 3761036.6   202.4     3.66     2.33
2.89     YES
 L0045063         0   0.54550E-07  441127.2 3761039.8   202.5     3.66     2.33
2.89     YES
 L0045064         0   0.54550E-07  441123.3 3761042.8   202.5     3.66     2.33
2.89     YES
 L0045065         0   0.54550E-07  441119.3 3761045.9   202.6     3.66     2.33
2.89     YES
 L0045066         0   0.54550E-07  441115.3 3761048.9   202.7     3.66     2.33
2.89     YES
 L0045067         0   0.54550E-07  441111.3 3761051.9   202.7     3.66     2.33
2.89     YES
 L0045068         0   0.54550E-07  441107.4 3761055.0   202.8     3.66     2.33
2.89     YES
↟ *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
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(METERS) BY

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L0045091	0	0.54550E-07	440994.1	3761064.3	202.5	3.66	2.33	2.89 YES
L0045092	0	0.54550E-07	440989.1	3761064.4	202.7	3.66	2.33	2.89 YES
L0045093	0	0.54690E-07	440985.5	3761064.3	202.8	3.66	2.33	2.89 YES
L0045094	0	0.54690E-07	440980.5	3761064.0	202.9	3.66	2.33	2.89 YES
L0045095	0	0.54690E-07	440975.5	3761063.8	203.0	3.66	2.33	2.89 YES
L0045096	0	0.54690E-07	440970.5	3761063.5	203.1	3.66	2.33	2.89 YES
L0045097	0	0.54690E-07	440965.5	3761063.3	203.2	3.66	2.33	2.89 YES
L0045098	0	0.54690E-07	440960.6	3761063.0	203.2	3.66	2.33	2.89 YES
L0045099	0	0.54690E-07	440955.6	3761062.7	203.3	3.66	2.33	2.89 YES
L0045100	0	0.54690E-07	440950.6	3761062.5	203.4	3.66	2.33	2.89 YES
L0045101	0	0.54690E-07	440945.6	3761062.2	203.4	3.66	2.33	2.89 YES
L0045102	0	0.54690E-07	440940.6	3761062.0	203.4	3.66	2.33	2.89 YES
L0045103	0	0.54690E-07	440935.6	3761061.7	203.4	3.66	2.33	2.89 YES
L0045104	0	0.54690E-07	440930.6	3761061.4	203.4	3.66	2.33	2.89 YES
L0045105	0	0.54690E-07	440925.6	3761061.2	203.4	3.66	2.33	2.89 YES
L0045106	0	0.54690E-07	440920.6	3761060.9	203.2	3.66	2.33	2.89 YES
L0045107	0	0.54690E-07	440915.6	3761060.7	203.1	3.66	2.33	2.89 YES
L0045108	0	0.54690E-07	440910.6	3761060.4	203.0	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT.

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE SCALAR VARY BY
L0045109	0	0.54690E-07	440905.6	3761060.2	202.9	3.66	2.33	2.89	YES
L0045110	0	0.54690E-07	440900.6	3761060.0	202.8	3.66	2.33	2.89	YES
L0045111	0	0.54690E-07	440895.6	3761059.7	202.6	3.66	2.33	2.89	YES
L0045112	0	0.54690E-07	440890.6	3761059.5	202.4	3.66	2.33	2.89	YES
L0045113	0	0.54690E-07	440885.7	3761059.3	202.3	3.66	2.33	2.89	YES
L0045114	0	0.54690E-07	440880.7	3761058.6	202.1	3.66	2.33	2.89	YES
L0045115	0	0.54690E-07	440876.0	3761056.9	201.9	3.66	2.33	2.89	YES
L0045116	0	0.54690E-07	440871.3	3761055.2	201.9	3.66	2.33	2.89	YES
L0045117	0	0.54690E-07	440866.6	3761053.5	201.8	3.66	2.33	2.89	YES
L0045118	0	0.54690E-07	440861.9	3761051.9	201.8	3.66	2.33	2.89	YES
L0045119	0	0.54690E-07	440857.2	3761050.2	201.7	3.66	2.33	2.89	YES
L0045120	0	0.54690E-07	440853.9	3761046.5	201.6	3.66	2.33	2.89	YES
L0045121	0	0.54690E-07	440851.0	3761042.5	201.5	3.66	2.33	2.89	YES
L0045122	0	0.54690E-07	440848.0	3761038.5	201.5	3.66	2.33	2.89	YES
L0045123	0	0.54690E-07	440845.1	3761034.5	201.4	3.66	2.33	2.89	YES
L0045124	0	0.54690E-07	440842.1	3761030.4	201.3	3.66	2.33	2.89	YES
L0045125	0	0.54690E-07	440839.2	3761026.4	201.2	3.66	2.33	2.89	YES
L0045126	0	0.54690E-07	440836.2	3761022.4	201.1	3.66	2.33	2.89	YES
L0045127	0	0.54690E-07	440835.6	3761017.4	201.1	3.66	2.33	2.89	YES
L0045128	0	0.54690E-07	440834.9	3761012.4	201.0	3.66	2.33	2.89	YES

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 L0045129         0   0.54690E-07  440834.3 3761007.5   200.9     3.66     2.33
2.89     YES
 L0045130         0   0.54690E-07  440833.6 3761002.5   200.8     3.66     2.33
2.89     YES
 L0045131         0   0.54690E-07  440833.0 3760997.6   200.8     3.66     2.33
2.89     YES
 L0045132         0   0.54690E-07  440832.4 3760992.6   200.8     3.66     2.33
2.89     YES
 L0045133         0   0.54690E-07  440831.7 3760987.6   200.7     3.66     2.33
2.89     YES
 L0045134         0   0.54690E-07  440831.1 3760982.7   200.7     3.66     2.33
2.89     YES
 L0045135         0   0.54690E-07  440830.4 3760977.7   200.6     3.66     2.33
2.89     YES
 L0045136         0   0.54690E-07  440829.8 3760972.8   200.6     3.66     2.33
2.89     YES
 L0045137         0   0.54690E-07  440829.2 3760967.8   200.6     3.66     2.33
2.89     YES
 L0045138         0   0.54690E-07  440828.5 3760962.8   200.5     3.66     2.33
2.89     YES
 L0045139         0   0.54690E-07  440827.9 3760957.9   200.5     3.66     2.33
2.89     YES
 L0045140         0   0.54690E-07  440827.2 3760952.9   200.5     3.66     2.33
2.89     YES
 L0045141         0   0.54690E-07  440826.6 3760948.0   200.4     3.66     2.33
2.89     YES
 L0045142         0   0.54690E-07  440826.0 3760943.0   200.4     3.66     2.33
2.89     YES
 L0045143         0   0.54690E-07  440825.3 3760938.1   200.4     3.66     2.33
2.89     YES
 L0045144         0   0.54690E-07  440825.1 3760933.1   200.3     3.66     2.33
2.89     YES
 L0045145         0   0.54690E-07  440825.0 3760928.1   200.3     3.66     2.33
2.89     YES
 L0045146         0   0.54690E-07  440824.9 3760923.1   200.2     3.66     2.33
2.89     YES
 L0045147         0   0.54690E-07  440824.8 3760918.1   200.2     3.66     2.33
2.89     YES
 L0045148         0   0.54690E-07  440824.7 3760913.1   200.1     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY
L0045149	0	0.54690E-07	440824.6	3760908.1	200.1	3.66	2.33	2.89	YES
L0045150	0	0.54690E-07	440824.5	3760903.1	200.1	3.66	2.33	2.89	YES
L0045151	0	0.54690E-07	440824.4	3760898.1	200.0	3.66	2.33	2.89	YES
L0045152	0	0.54690E-07	440824.3	3760893.1	200.0	3.66	2.33	2.89	YES
L0045153	0	0.54690E-07	440824.2	3760888.1	199.9	3.66	2.33	2.89	YES
L0045154	0	0.54690E-07	440824.1	3760883.1	199.9	3.66	2.33	2.89	YES
L0045155	0	0.54690E-07	440823.9	3760878.1	199.9	3.66	2.33	2.89	YES
L0045156	0	0.54690E-07	440823.8	3760873.1	199.8	3.66	2.33	2.89	YES
L0045157	0	0.54690E-07	440823.7	3760868.1	199.8	3.66	2.33	2.89	YES
L0045158	0	0.54690E-07	440823.6	3760863.1	199.8	3.66	2.33	2.89	YES
L0045159	0	0.54690E-07	440823.5	3760858.1	199.8	3.66	2.33	2.89	YES
L0045160	0	0.54690E-07	440823.4	3760853.1	199.8	3.66	2.33	2.89	YES
L0045161	0	0.54690E-07	440823.3	3760848.1	199.8	3.66	2.33	2.89	YES
L0045162	0	0.54690E-07	440823.2	3760843.1	199.7	3.66	2.33	2.89	YES
L0045163	0	0.54690E-07	440823.1	3760838.1	199.7	3.66	2.33	2.89	YES
L0045164	0	0.54690E-07	440823.0	3760833.1	199.7	3.66	2.33	2.89	YES
L0045165	0	0.54690E-07	440822.9	3760828.1	199.6	3.66	2.33	2.89	YES
L0045166	0	0.54690E-07	440822.8	3760823.1	199.6	3.66	2.33	2.89	YES

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 L0045167         0   0.54690E-07  440822.7 3760818.1   199.6     3.66     2.33
2.89     YES
 L0045168         0   0.54690E-07  440822.6 3760813.1   199.6     3.66     2.33
2.89     YES
 L0045169         0   0.54690E-07  440822.5 3760808.1   199.5     3.66     2.33
2.89     YES
 L0045170         0   0.54690E-07  440822.5 3760803.1   199.5     3.66     2.33
2.89     YES
 L0045171         0   0.54690E-07  440822.5 3760798.1   199.5     3.66     2.33
2.89     YES
 L0045172         0   0.54690E-07  440822.6 3760793.1   199.4     3.66     2.33
2.89     YES
 L0045173         0   0.54690E-07  440822.6 3760788.1   199.4     3.66     2.33
2.89     YES
 L0045174         0   0.54690E-07  440822.6 3760783.1   199.4     3.66     2.33
2.89     YES
 L0045175         0   0.54690E-07  440822.7 3760778.1   199.3     3.66     2.33
2.89     YES
 L0045176         0   0.54690E-07  440822.7 3760773.1   199.3     3.66     2.33
2.89     YES
 L0045177         0   0.54690E-07  440822.8 3760768.1   199.3     3.66     2.33
2.89     YES
 L0045178         0   0.54690E-07  440822.8 3760763.1   199.2     3.66     2.33
2.89     YES
 L0045179         0   0.54690E-07  440822.9 3760758.1   199.2     3.66     2.33
2.89     YES
 L0045180         0   0.54690E-07  440822.9 3760753.1   199.1     3.66     2.33
2.89     YES
 L0045181         0   0.54690E-07  440823.0 3760748.1   199.1     3.66     2.33
2.89     YES
 L0045182         0   0.54690E-07  440823.0 3760743.1   199.1     3.66     2.33
2.89     YES
 L0045183         0   0.54690E-07  440823.0 3760738.1   199.0     3.66     2.33
2.89     YES
 L0045184         0   0.54690E-07  440823.1 3760733.1   199.0     3.66     2.33
2.89     YES
 L0045185         0   0.54690E-07  440823.1 3760728.1   198.9     3.66     2.33
2.89     YES
 L0045186         0   0.54690E-07  440823.2 3760723.1   198.9     3.66     2.33
2.89     YES
 L0045187         0   0.54690E-07  440823.2 3760718.1   198.9     3.66     2.33
2.89     YES
 L0045188         0   0.54690E-07  440823.3 3760713.1   198.8     3.66     2.33
2.89     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0045189	0	0.54690E-07	440823.3	3760708.1	198.8	3.66	2.33	2.89	YES	
L0045190	0	0.54690E-07	440823.3	3760703.1	198.7	3.66	2.33	2.89	YES	
L0045191	0	0.54690E-07	440823.4	3760698.1	198.7	3.66	2.33	2.89	YES	
L0045192	0	0.54690E-07	440823.4	3760693.1	198.7	3.66	2.33	2.89	YES	
L0045193	0	0.54690E-07	440823.5	3760688.1	198.6	3.66	2.33	2.89	YES	
L0045194	0	0.54690E-07	440823.5	3760683.1	198.6	3.66	2.33	2.89	YES	
L0045195	0	0.54690E-07	440823.6	3760678.1	198.5	3.66	2.33	2.89	YES	
L0045196	0	0.54690E-07	440823.6	3760673.1	198.5	3.66	2.33	2.89	YES	
L0045197	0	0.54690E-07	440823.7	3760668.1	198.4	3.66	2.33	2.89	YES	
L0045198	0	0.54690E-07	440823.7	3760663.1	198.4	3.66	2.33	2.89	YES	
L0045199	0	0.54690E-07	440823.7	3760658.1	198.4	3.66	2.33	2.89	YES	
L0045200	0	0.54690E-07	440823.8	3760653.1	198.3	3.66	2.33	2.89	YES	
L0045201	0	0.54690E-07	440823.8	3760648.1	198.3	3.66	2.33	2.89	YES	
L0045202	0	0.54690E-07	440823.9	3760643.1	198.2	3.66	2.33	2.89	YES	
L0045203	0	0.54690E-07	440823.9	3760638.1	198.2	3.66	2.33	2.89	YES	
L0045204	0	0.54690E-07	440824.0	3760633.1	198.1	3.66	2.33	2.89	YES	

L0045205	0	0.54690E-07	440824.0	3760628.1	198.1	3.66	2.33	2.89 YES
L0045206	0	0.54690E-07	440824.0	3760623.1	198.0	3.66	2.33	2.89 YES
L0045207	0	0.54690E-07	440824.1	3760618.1	198.0	3.66	2.33	2.89 YES
L0045208	0	0.54690E-07	440824.1	3760613.1	197.9	3.66	2.33	2.89 YES
L0045209	0	0.54690E-07	440824.2	3760608.1	197.9	3.66	2.33	2.89 YES
L0045210	0	0.54690E-07	440824.2	3760603.1	197.8	3.66	2.33	2.89 YES
L0045211	0	0.54690E-07	440824.3	3760598.1	197.7	3.66	2.33	2.89 YES
L0045212	0	0.54690E-07	440826.0	3760593.5	197.7	3.66	2.33	2.89 YES
L0045213	0	0.54690E-07	440828.1	3760588.9	197.7	3.66	2.33	2.89 YES
L0045214	0	0.54690E-07	440830.2	3760584.4	197.6	3.66	2.33	2.89 YES
L0045215	0	0.54690E-07	440832.3	3760579.8	197.6	3.66	2.33	2.89 YES
L0045216	0	0.54690E-07	440834.3	3760575.3	197.5	3.66	2.33	2.89 YES
L0045217	0	0.54690E-07	440836.4	3760570.7	197.5	3.66	2.33	2.89 YES
L0045218	0	0.54690E-07	440838.5	3760566.2	197.4	3.66	2.33	2.89 YES
L0045219	0	0.54690E-07	440840.6	3760561.6	197.4	3.66	2.33	2.89 YES
L0045220	0	0.54690E-07	440842.7	3760557.1	197.4	3.66	2.33	2.89 YES
L0045221	0	0.54690E-07	440845.1	3760552.8	197.4	3.66	2.33	2.89 YES
L0045222	0	0.54690E-07	440848.8	3760549.5	197.4	3.66	2.33	2.89 YES
L0045223	0	0.54690E-07	440852.5	3760546.1	197.4	3.66	2.33	2.89 YES
L0045224	0	0.54690E-07	440856.2	3760542.8	197.4	3.66	2.33	2.89 YES
L0045225	0	0.54690E-07	440859.9	3760539.4	197.5	3.66	2.33	2.89 YES
L0045226	0	0.54690E-07	440863.7	3760536.1	197.5	3.66	2.33	2.89 YES
L0045227	0	0.54690E-07	440867.4	3760532.7	197.5	3.66	2.33	2.89 YES
L0045228	0	0.54690E-07	440871.1	3760529.4	197.6	3.66	2.33	2.89 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0045229	0	0.54690E-07	440874.8	3760526.0	197.6	3.66	2.33	2.89	YES	
L0045230	0	0.54690E-07	440878.5	3760522.7	197.6	3.66	2.33	2.89	YES	
L0045231	0	0.54690E-07	440882.8	3760520.5	197.7	3.66	2.33	2.89	YES	
L0045232	0	0.54690E-07	440887.7	3760519.5	197.7	3.66	2.33	2.89	YES	
L0045233	0	0.54690E-07	440892.6	3760518.4	197.8	3.66	2.33	2.89	YES	
L0045234	0	0.54690E-07	440897.5	3760517.3	197.9	3.66	2.33	2.89	YES	
L0045235	0	0.54690E-07	440902.4	3760516.3	197.9	3.66	2.33	2.89	YES	
L0045236	0	0.54690E-07	440907.3	3760515.2	197.9	3.66	2.33	2.89	YES	
L0045237	0	0.54690E-07	440912.1	3760514.1	197.9	3.66	2.33	2.89	YES	
L0045238	0	0.54690E-07	440917.0	3760513.0	198.0	3.66	2.33	2.89	YES	
L0045239	0	0.54690E-07	440922.0	3760512.6	198.0	3.66	2.33	2.89	YES	
L0045240	0	0.54690E-07	440927.0	3760512.3	198.0	3.66	2.33	2.89	YES	
L0045241	0	0.54690E-07	440932.0	3760512.0	198.0	3.66	2.33	2.89	YES	
L0045242	0	0.54690E-07	440937.0	3760511.7	198.0	3.66	2.33	2.89	YES	

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 L0045243         0   0.54690E-07  440942.0 3760511.4   198.0     3.66     2.33
2.89     YES
 L0045244         0   0.54690E-07  440947.0 3760511.1   198.0     3.66     2.33
2.89     YES
 L0045245         0   0.54690E-07  440951.9 3760510.8   198.0     3.66     2.33
2.89     YES
 L0045246         0   0.54690E-07  440956.9 3760510.5   198.1     3.66     2.33
2.89     YES
 L0045247         0   0.54690E-07  440961.9 3760510.2   198.1     3.66     2.33
2.89     YES
 L0045248         0   0.54690E-07  440966.9 3760510.0   198.2     3.66     2.33
2.89     YES
 L0045249         0   0.54690E-07  440971.9 3760509.9   198.2     3.66     2.33
2.89     YES
 L0045250         0   0.54690E-07  440976.9 3760509.8   198.3     3.66     2.33
2.89     YES
 L0045251         0   0.54690E-07  440981.9 3760509.7   198.4     3.66     2.33
2.89     YES
 L0045252         0   0.54690E-07  440986.9 3760509.6   198.6     3.66     2.33
2.89     YES
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS
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SRCGROUP ID	SOURCE IDs
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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:50:42

                                   PAGE 124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS
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SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** AERMET - VERSION 16216 *** ***
*** 17:50:42

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS
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SRCGROUP ID	SOURCE IDs

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE 131
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMET - VERSION  16216 ***   ***
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                                   PAGE 133
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS
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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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                                  PAGE 140
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                       *** SOURCE IDs DEFINING SOURCE GROUPS
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SRCGROUP ID	SOURCE IDs
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	L0044400 , L0044401 , L0044402 , L0044403 , L0044404 , L0044405 , L0044406 , L0044407 ,
	L0044408 , L0044409 , L0044410 , L0044411 , L0044412 , L0044413 , L0044414 , L0044415 ,

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L0044429    , L0044430    , L0044431    ,

             L0044432    , L0044433    , L0044434    , L0044435    , L0044436    ,
L0044437    , L0044438    , L0044439    ,

             L0044440    , L0044441    , L0044442    , L0044443    , L0044444    ,
L0044445    , L0044446    , L0044447    ,

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L0044461    , L0044462    , L0044463    ,
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                 SOURCE IDs
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             L0044464    , L0044465    , L0044466    , L0044467    , L0044468    ,
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L0044477    , L0044478    , L0044479    ,

             L0044480    , L0044481    , L0044482    , L0044483    , L0044484    ,
L0044485    , L0044486    , L0044487    ,

             L0044488    , L0044489    , L0044490    , L0044491    , L0044492    ,
L0044493    , L0044494    , L0044495    ,

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L0044597 , L0044598 , L0044599 ,

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L0044605 , L0044606 , L0044607 ,

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L0044613 , L0044614 , L0044615 ,

L0044616 , L0044617 , L0044618 , L0044619 , L0044620 ,
L0044621 , L0044622 , L0044623 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0044624 , L0044625 , L0044626 , L0044627 , L0044628 , L0044629 , L0044630 , L0044631 ,
	L0044632 , L0044633 , L0044634 , L0044635 , L0044636 , L0044637 , L0044638 , L0044639 ,
	L0044640 , L0044641 , L0044642 , L0044643 , L0044644 , L0044645 , L0044646 , L0044647 ,
	L0044648 , L0044649 , L0044650 , L0044651 , L0044652 , L0044653 , L0044654 , L0044655 ,
	L0044656 , L0044657 , L0044658 , L0044659 , L0044660 , L0044661 , L0044662 , L0044663 ,
	L0044664 , L0044665 , L0044666 , L0044667 , L0044668 , L0044669 , L0044670 , L0044671 ,
	L0044672 , L0044673 , L0044674 , L0044675 , L0044676 , L0044677 , L0044678 , L0044679 ,
	L0044680 , L0044681 , L0044682 , L0044683 , L0044684 , L0044685 , L0044686 , L0044687 ,
	L0044688 , L0044689 , L0044690 , L0044691 , L0044692 , L0044693 , L0035433 , L0035434 ,
	L0035435 , L0035436 , L0035437 , L0035438 , L0035439 , L0035440 , L0035441 , L0035442 ,
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L0035472 , L0035473 , L0035474 ,

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L0035480 , L0035481 , L0035482 ,

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L0035496 , L0035497 , L0035498 ,

L0035499 , L0035500 , L0035501 , L0035502 , L0035503 ,
L0035504 , L0035505 , L0035506 ,

L0035507 , L0035508 , L0035509 , L0035510 , L0035511 ,
L0035512 , L0035513 , L0035514 ,

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L0035520 , L0035521 , L0035522 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0035523 , L0035524 , L0035525 , L0035526 , L0035527 ,
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L0035544 , L0035545 , L0035546 ,

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L0035560    , L0035561    , L0035562    ,

            L0035563    , L0035564    , L0035565    , L0035566    , L0035567    ,
L0035568    , L0035569    , L0035570    ,

            L0035571    , L0035572    , L0035573    , L0035574    , L0035575    ,
L0035576    , L0035577    , L0035578    ,

            L0035579    , L0035580    , L0035581    , L0035582    , L0035583    ,
L0035584    , L0035585    , L0035586    ,

            L0035587    , L0044694    , L0044695    , L0044696    , L0044697    ,
L0044698    , L0044699    , L0044700    ,

            L0044701    , L0044702    , L0044703    , L0044704    , L0044705    ,
L0044706    , L0044707    , L0044708    ,

            L0044709    , L0044710    , L0044711    , L0044712    , L0044713    ,
L0044714    , L0044715    , L0044716    ,

            L0044717    , L0044718    , L0044719    , L0044720    , L0044721    ,
L0044722    , L0044723    , L0044724    ,

            L0044725    , L0044726    , L0044727    , L0044728    , L0044729    ,
L0044730    , L0044731    , L0044732    ,

            L0044733    , L0044734    , L0044735    , L0044736    , L0044737    ,
L0044738    , L0044739    , L0044740    ,

            L0044741    , L0044742    , L0044743    , L0044744    , L0044745    ,
L0044746    , L0044747    , L0044748    ,

            L0044749    , L0044750    , L0044751    , L0044752    , L0044753    ,
L0044754    , L0044755    , L0044756    ,

            L0044757    , L0044758    , L0044759    , L0044760    , L0044761    ,
L0044762    , L0044763    , L0044764    ,

            L0044765    , L0044766    , L0044767    , L0044768    , L0044769    ,
L0044770    , L0044771    , L0044772    ,

            L0044773    , L0044774    , L0044775    , L0044776    , L0044777    ,
L0044778    , L0044779    , L0044780    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS
***

SRCGROUP ID	SOURCE IDs
	L0044789 , L0044790 , L0044791 , L0044792 , L0044793 , L0044794 , L0044795 , L0044796 ,
	L0044797 , L0044798 , L0044799 , L0044800 , L0044801 , L0044802 , L0044803 , L0044804 ,
	L0044805 , L0044806 , L0044807 , L0044808 , L0044809 , L0044810 , L0044811 , L0044812 ,
	L0044813 , L0044814 , L0044815 , L0044816 , L0044817 , L0044818 , L0044819 , L0044820 ,
	L0044821 , L0044822 , L0044823 , L0044824 , L0044825 , L0044826 , L0044827 , L0044828 ,
	L0044829 , L0044830 , L0044831 , L0044832 , L0044833 , L0044834 , L0044835 , L0044836 ,
	L0044837 , L0044838 , L0044839 , L0044840 , L0044841 , L0044842 , L0044843 , L0044844 ,
	L0044845 , L0044846 , L0044847 , L0044848 , L0044849 , L0044850 , L0044851 , L0044852 ,
	L0044853 , L0044854 , L0044855 , L0044856 , L0044857 , L0044858 , L0044859 , L0044860 ,
	L0044861 , L0044862 , L0044863 , L0044864 , L0044865 , L0044866 , L0044867 , L0044868 ,

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L0044877 , L0044878 , L0044879 , L0044880 , L0044881 , L0044882 , L0044883 , L0044884 ,

L0044885 , L0044886 , L0044887 , L0044888 , L0044889 , L0044890 , L0044891 , L0044892 ,

L0044893 , L0044894 , L0044895 , L0044896 , L0044897 , L0044898 , L0044899 , L0044900 ,

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L0044941 , L0044942 , L0044943 , L0044944 , L0044945 , L0044946 , L0044947 , L0044948 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0044949 , L0044950 , L0044951 , L0044952 , L0044953 , L0044954 , L0044955 , L0044956 ,

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L0044962    , L0044963    , L0044964    ,

            L0044965    , L0044966    , L0044967    , L0044968    , L0044969    ,
L0044970    , L0044971    , L0044972    ,

            L0044973    , L0044974    , L0044975    , L0044976    , L0044977    ,
L0044978    , L0044979    , L0044980    ,

            L0044981    , L0044982    , L0044983    , L0044984    , L0044985    ,
L0044986    , L0044987    , L0044988    ,

            L0044989    , L0044990    , L0044991    , L0044992    , L0044993    ,
L0044994    , L0044995    , L0044996    ,

            L0044997    , L0044998    , L0044999    , L0045000    , L0045001    ,
L0045002    , L0045003    , L0045004    ,

            L0045005    , L0045006    , L0045007    , L0045008    , L0045009    ,
L0045010    , L0045011    , L0045012    ,

            L0045013    , L0045014    , L0045015    , L0045016    , L0045017    ,
L0045018    , L0045019    , L0045020    ,

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L0045026    , L0045027    , L0045028    ,

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L0045034    , L0045035    , L0045036    ,

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L0045058    , L0045059    , L0045060    ,

            L0045061    , L0045062    , L0045063    , L0045064    , L0045065    ,
L0045066    , L0045067    , L0045068    ,

            L0045069    , L0045070    , L0045071    , L0045072    , L0045073    ,
L0045074    , L0045075    , L0045076    ,

            L0045077    , L0045078    , L0045079    , L0045080    , L0045081    ,
L0045082    , L0045083    , L0045084    ,
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L0045101 , L0045102 , L0045103 , L0045104 , L0045105 , L0045106 , L0045107 , L0045108 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0045109 , L0045110 , L0045111 , L0045112 , L0045113 , L0045114 , L0045115 , L0045116 ,

L0045117 , L0045118 , L0045119 , L0045120 , L0045121 , L0045122 , L0045123 , L0045124 ,

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L0045141 , L0045142 , L0045143 , L0045144 , L0045145 , L0045146 , L0045147 , L0045148 ,

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L0045173 , L0045174 , L0045175 , L0045176 , L0045177 ,
L0045178 , L0045179 , L0045180 ,

L0045181 , L0045182 , L0045183 , L0045184 , L0045185 ,
L0045186 , L0045187 , L0045188 ,

L0045189 , L0045190 , L0045191 , L0045192 , L0045193 ,
L0045194 , L0045195 , L0045196 ,

L0045197 , L0045198 , L0045199 , L0045200 , L0045201 ,
L0045202 , L0045203 , L0045204 ,

L0045205 , L0045206 , L0045207 , L0045208 , L0045209 ,
L0045210 , L0045211 , L0045212 ,

L0045213 , L0045214 , L0045215 , L0045216 , L0045217 ,
L0045218 , L0045219 , L0045220 ,

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L0045226 , L0045227 , L0045228 ,

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L0045234 , L0045235 , L0045236 ,

L0045237 , L0045238 , L0045239 , L0045240 , L0045241 ,
L0045242 , L0045243 , L0045244 ,

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L0045250 , L0045251 , L0045252 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES
***

URBAN ID	URBAN POP	SOURCE IDs
	2035210.	L0040784 , L0040785 , L0040786 , L0040787 , L0040788 , L0040789 , L0040790 , L0040791 ,

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            L0040792    , L0040793    , L0040794    , L0040795    , L0040796    ,
L0040797    , L0040798    , L0040799    ,

            L0040800    , L0040801    , L0040802    , L0040803    , L0040804    ,
L0040805    , L0040806    , L0040807    ,

            L0040808    , L0040809    , L0040810    , L0040811    , L0040812    ,
L0040813    , L0040814    , L0040815    ,

            L0040816    , L0040817    , L0040818    , L0040819    , L0040820    ,
L0040821    , L0040822    , L0040823    ,

            L0040824    , L0040825    , L0040826    , L0040827    , L0040828    ,
L0040829    , L0040830    , L0040831    ,

            L0040832    , L0040833    , L0040834    , L0040835    , L0040836    ,
L0040837    , L0040838    , L0040839    ,

            L0040840    , L0040841    , L0040842    , L0040843    , L0040844    ,
L0040845    , L0040846    , L0040847    ,

            L0040848    , L0040849    , L0040850    , L0040851    , L0040852    ,
L0040853    , L0040854    , L0040855    ,

            L0040856    , L0040857    , L0040858    , L0040859    , L0040860    ,
L0040861    , L0040862    , L0040863    ,

            L0040864    , L0040865    , L0040866    , L0040867    , L0040868    ,
L0040869    , L0040870    , L0040871    ,

            L0040872    , L0040873    , L0040874    , L0040875    , L0040876    ,
L0040877    , L0040878    , L0040879    ,

            L0040880    , L0040881    , L0040882    , L0040883    , L0040884    ,
L0040885    , L0040886    , L0040887    ,

            L0040888    , L0040889    , L0040890    , L0040891    , L0040892    ,
L0040893    , L0040894    , L0040895    ,

            L0040896    , L0040897    , L0040898    , L0040899    , L0040900    ,
L0040901    , L0040902    , L0040903    ,

            L0040904    , L0040905    , L0040906    , L0040907    , L0040908    ,
L0040909    , L0040910    , L0040911    ,

            L0040912    , L0040913    , L0040914    , L0040915    , L0040916    ,
L0040917    , L0040918    , L0040919    ,
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L0040920 , L0040921 , L0040922 , L0040923 , L0040924 , L0040925 , L0040926 , L0040927 ,

L0040928 , L0040929 , L0040930 , L0040931 , L0040932 , L0040933 , L0040934 , L0040935 ,

L0040936 , L0040937 , L0040938 , L0040939 , L0040940 , L0040941 , L0040942 , L0040943 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0040944 , L0040945 , L0040946 , L0040947 , L0040948 , L0040949 , L0040950 , L0040951 ,

L0040952 , L0040953 , L0040954 , L0040955 , L0040956 , L0040957 , L0040958 , L0040959 ,

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L0040976 , L0040977 , L0040978 , L0040979 , L0040980 , L0040981 , L0040982 , L0040983 ,

L0040984 , L0040985 , L0040986 , L0040987 , L0040988 , L0040989 , L0040990 , L0040991 ,

L0040992 , L0040993 , L0040994 , L0040995 , L0040996 , L0040997 , L0040998 , L0040999 ,

L0041000 , L0041001 , L0041002 , L0041003 , L0041004 , L0041005 , L0041006 , L0041007 ,

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             L0041008    , L0041009    , L0041010    , L0041011    , L0041012    ,
L0041013    , L0041014    , L0041015    ,

             L0041016    , L0041017    , L0041018    , L0041019    , L0041020    ,
L0041021    , L0041022    , L0041023    ,

             L0041024    , L0041025    , L0041026    , L0041027    , L0041028    ,
L0041029    , L0041030    , L0041031    ,

             L0041032    , L0041033    , L0041034    , L0041035    , L0041036    ,
L0041037    , L0041038    , L0041039    ,

             L0041040    , L0041041    , L0041042    , L0041043    , L0041044    ,
L0041045    , L0041046    , L0041047    ,

             L0041048    , L0041049    , L0041050    , L0041051    , L0041052    ,
L0041053    , L0041054    , L0041055    ,

             L0041056    , L0041057    , L0041058    , L0041059    , L0041060    ,
L0041061    , L0041062    , L0041063    ,

             L0041064    , L0041065    , L0041066    , L0041067    , L0041068    ,
L0041069    , L0041070    , L0041071    ,

             L0041072    , L0041073    , L0041074    , L0041075    , L0041076    ,
L0041077    , L0041078    , L0041079    ,

             L0041080    , L0041081    , L0041082    , L0041083    , L0041084    ,
L0041085    , L0041086    , L0041087    ,

             L0041088    , L0041089    , L0041090    , L0041091    , L0041092    ,
L0041093    , L0041094    , L0041095    ,

             L0041096    , L0041097    , L0041098    , L0041099    , L0041100    ,
L0041101    , L0041102    , L0041103    ,
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:50:42

                                   PAGE 149
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
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URBAN ID	URBAN POP	SOURCE IDs

L0041104 , L0041105 , L0041106 , L0041107 , L0041108 , L0041109 , L0041110 , L0041111 ,

L0041112 , L0041113 , L0041114 , L0041115 , L0041116 , L0041117 , L0041118 , L0041119 ,

L0041120 , L0041121 , L0041122 , L0041123 , L0041124 , L0041125 , L0041126 , L0041127 ,

L0041128 , L0041129 , L0041130 , L0041131 , L0041132 , L0041133 , L0041134 , L0041135 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:50:42

                                   PAGE 152
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:50:42

                                  PAGE 156
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
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  URBAN ID   URBAN POP                                  SOURCE IDs
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 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE 157
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
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  URBAN ID   URBAN POP                                  SOURCE IDs
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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE 158
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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View\SOL_operations_rev2\SOL_operations_rev2.isc *** 03/09/21
*** AERMET - VERSION 16216 *** ***
*** 17:50:42

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES
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URBAN ID	URBAN POP	SOURCE IDs

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\SOL_operations_rev2\SOL_operations_rev2.isc *** 03/09/21

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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 *** AERMET - VERSION  16216 ***   ***
                         ***       17:50:42

                                   PAGE 165
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
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  URBAN ID   URBAN POP                                  SOURCE IDs
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View\SOL_operations_rev2\SOL_operations_rev2.isc *** 03/09/21
*** AERMET - VERSION 16216 *** ***
*** 17:50:42

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES
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URBAN ID	URBAN POP	SOURCE IDs

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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE 174
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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     ( 445165.2, 3760578.3,     202.8,     202.8,       0.0);         ( 445265.2,
3760578.3,     202.9,     202.9,       0.0);
     ( 445315.2, 3760578.3,     203.0,     203.0,       0.0);         ( 445365.2,
3760578.3,     203.2,     203.2,       0.0);
     ( 445415.2, 3760578.3,     203.5,     203.5,       0.0);         ( 445465.2,
3760578.3,     203.7,     203.7,       0.0);
     ( 445515.2, 3760578.3,     203.6,     203.6,       0.0);         ( 445565.2,
3760578.3,     204.1,     204.1,       0.0);
     ( 444665.2, 3760628.3,     201.8,     201.8,       0.0);         ( 444715.2,
3760628.3,     203.5,     203.5,       0.0);
     ( 444765.2, 3760628.3,     203.1,     203.1,       0.0);         ( 444815.2,
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3760628.3, 202.7, 202.7, 0.0);
(444865.2, 3760628.3, 203.1, 203.1, 0.0); (444915.2,
3760628.3, 203.2, 203.2, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(444965.2, 3760628.3, 203.4, 203.4, 0.0); (445015.2,
3760628.3, 203.6, 203.6, 0.0);
(445065.2, 3760628.3, 203.6, 203.6, 0.0); (445115.2,
3760628.3, 203.5, 203.5, 0.0);
(445165.2, 3760628.3, 203.3, 203.3, 0.0); (445265.2,
3760628.3, 203.2, 203.2, 0.0);
(445315.2, 3760628.3, 203.3, 203.3, 0.0); (445365.2,
3760628.3, 203.4, 203.4, 0.0);
(445415.2, 3760628.3, 204.0, 204.0, 0.0); (445465.2,
3760628.3, 203.9, 203.9, 0.0);
(445515.2, 3760628.3, 204.0, 204.0, 0.0); (445565.2,
3760628.3, 204.0, 204.0, 0.0);
(444665.2, 3760678.3, 202.2, 202.2, 0.0); (444715.2,
3760678.3, 203.8, 203.8, 0.0);
(444765.2, 3760678.3, 203.5, 203.5, 0.0); (444815.2,
3760678.3, 203.1, 203.1, 0.0);
(444865.2, 3760678.3, 203.5, 203.5, 0.0); (444915.2,
3760678.3, 203.6, 203.6, 0.0);
(444965.2, 3760678.3, 203.7, 203.7, 0.0); (445015.2,
3760678.3, 203.8, 203.8, 0.0);
(445065.2, 3760678.3, 203.9, 203.9, 0.0); (445115.2,
3760678.3, 204.0, 204.0, 0.0);
(445165.2, 3760678.3, 203.7, 203.7, 0.0); (445265.2,
3760678.3, 203.6, 203.6, 0.0);
(445315.2, 3760678.3, 203.7, 203.7, 0.0); (445365.2,
3760678.3, 203.9, 203.9, 0.0);
(445415.2, 3760678.3, 204.4, 204.4, 0.0); (445465.2,
3760678.3, 204.4, 204.4, 0.0);
(445515.2, 3760678.3, 204.5, 204.5, 0.0); (445565.2,
3760678.3, 204.5, 204.5, 0.0);
(444665.2, 3760728.3, 202.6, 203.5, 0.0); (444715.2,
3760728.3, 204.1, 204.1, 0.0);
(444765.2, 3760728.3, 203.8, 203.8, 0.0); (444815.2,

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3760728.3,     203.4,     203.4,       0.0);
     ( 444865.2, 3760728.3,     203.5,     203.5,       0.0);         ( 444915.2,
3760728.3,     203.4,     203.4,       0.0);
     ( 444965.2, 3760728.3,     203.6,     203.6,       0.0);         ( 445015.2,
3760728.3,     203.8,     203.8,       0.0);
     ( 445065.2, 3760728.3,     203.8,     203.8,       0.0);         ( 445115.2,
3760728.3,     204.1,     204.1,       0.0);
     ( 445165.2, 3760728.3,     204.1,     204.1,       0.0);         ( 445265.2,
3760728.3,     204.2,     204.2,       0.0);
     ( 445315.2, 3760728.3,     204.2,     204.2,       0.0);         ( 445365.2,
3760728.3,     204.3,     204.3,       0.0);
     ( 445415.2, 3760728.3,     204.7,     204.7,       0.0);         ( 445465.2,
3760728.3,     205.2,     205.2,       0.0);
     ( 445515.2, 3760728.3,     204.8,     204.8,       0.0);         ( 445565.2,
3760728.3,     205.1,     205.1,       0.0);
     ( 444665.2, 3760778.3,     202.9,     202.9,       0.0);         ( 444715.2,
3760778.3,     204.3,     204.3,       0.0);
     ( 444765.2, 3760778.3,     204.2,     204.2,       0.0);         ( 444815.2,
3760778.3,     204.1,     204.1,       0.0);
     ( 444865.2, 3760778.3,     204.3,     204.3,       0.0);         ( 444915.2,
3760778.3,     204.4,     204.4,       0.0);
     ( 444965.2, 3760778.3,     204.5,     204.5,       0.0);         ( 445015.2,
3760778.3,     204.7,     204.7,       0.0);
     ( 445065.2, 3760778.3,     204.9,     204.9,       0.0);         ( 445115.2,
3760778.3,     204.8,     204.8,       0.0);
     ( 445165.2, 3760778.3,     204.6,     204.6,       0.0);         ( 445265.2,
3760778.3,     204.6,     204.6,       0.0);
     ( 445315.2, 3760778.3,     204.5,     204.5,       0.0);         ( 445365.2,
3760778.3,     204.7,     204.7,       0.0);
     ( 445415.2, 3760778.3,     205.0,     205.0,       0.0);         ( 445465.2,
3760778.3,     205.4,     205.4,       0.0);
     ( 445515.2, 3760778.3,     205.4,     205.4,       0.0);         ( 445565.2,
3760778.3,     205.3,     205.3,       0.0);
     ( 439615.2, 3760878.3,     198.4,     198.4,       0.0);         ( 439665.2,
3760878.3,     198.7,     198.7,       0.0);
     ( 439715.2, 3760878.3,     199.1,     199.1,       0.0);         ( 439765.2,
3760878.3,     199.4,     199.4,       0.0);
     ( 439815.2, 3760878.3,     199.2,     199.2,       0.0);         ( 439865.2,
3760878.3,     198.9,     198.9,       0.0);
     ( 439615.2, 3760928.3,     198.9,     198.9,       0.0);         ( 439665.2,
3760928.3,     199.3,     199.3,       0.0);
     ( 439715.2, 3760928.3,     199.5,     199.5,       0.0);         ( 439765.2,
3760928.3,     200.0,     200.0,       0.0);
     ( 439815.2, 3760928.3,     199.6,     199.6,       0.0);         ( 439865.2,
3760928.3,     199.4,     199.4,       0.0);
     ( 439615.2, 3760978.3,     199.2,     199.2,       0.0);         ( 439665.2,
3760978.3,     199.6,     199.6,       0.0);
     ( 439715.2, 3760978.3,     199.9,     199.9,       0.0);         ( 439765.2,
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3760978.3, 200.4, 200.4, 0.0);
 (439815.2, 3760978.3, 200.0, 200.0, 0.0); (439865.2,
3760978.3, 199.8, 199.8, 0.0);
 (439615.2, 3761028.3, 199.5, 199.5, 0.0); (439665.2,
3761028.3, 200.0, 200.0, 0.0);
 (439715.2, 3761028.3, 200.3, 200.3, 0.0); (439765.2,
3761028.3, 200.8, 200.8, 0.0);
 (439815.2, 3761028.3, 200.4, 200.4, 0.0); (439865.2,
3761028.3, 200.3, 200.3, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

 (442026.2, 3761011.9, 203.5, 203.5, 0.0); (439615.2,
3761078.3, 199.9, 199.9, 0.0);
 (439665.2, 3761078.3, 200.3, 200.3, 0.0); (439715.2,
3761078.3, 200.8, 200.8, 0.0);
 (439765.2, 3761078.3, 201.1, 201.1, 0.0); (439815.2,
3761078.3, 200.7, 200.7, 0.0);
 (439865.2, 3761078.3, 200.7, 200.7, 0.0); (439615.2,
3761128.3, 200.5, 200.5, 0.0);
 (439665.2, 3761128.3, 200.7, 200.7, 0.0); (439715.2,
3761128.3, 201.0, 201.0, 0.0);
 (439765.2, 3761128.3, 201.3, 201.3, 0.0); (439815.2,
3761128.3, 201.2, 201.2, 0.0);
 (439865.2, 3761128.3, 201.2, 201.2, 0.0); (439615.2,
3761178.3, 201.2, 201.2, 0.0);
 (439665.2, 3761178.3, 201.5, 201.5, 0.0); (439715.2,
3761178.3, 201.6, 201.6, 0.0);
 (439765.2, 3761178.3, 201.7, 201.7, 0.0); (439815.2,
3761178.3, 202.0, 202.0, 0.0);
 (439865.2, 3761178.3, 202.0, 202.0, 0.0); (439615.2,
3761228.3, 201.7, 201.7, 0.0);
 (439665.2, 3761228.3, 202.0, 202.0, 0.0); (439715.2,
3761228.3, 202.0, 202.0, 0.0);
 (439765.2, 3761228.3, 202.2, 202.2, 0.0); (439815.2,
3761228.3, 202.4, 202.4, 0.0);
 (439865.2, 3761228.3, 202.3, 202.3, 0.0); (440165.2,
3761228.3, 203.2, 203.2, 0.0);
 (440215.2, 3761228.3, 203.4, 203.4, 0.0); (440265.2,

3761228.3,   203.2,   203.2,   0.0);
     (440615.2, 3761228.3,   203.2,   203.2,   0.0);   (440665.2,
3761228.3,   203.4,   203.4,   0.0);
     (440715.2, 3761228.3,   203.3,   203.3,   0.0);   (442027.4,
3761229.6,   205.0,   205.0,   0.0);
     (442665.2, 3761228.3,   206.3,   206.3,   0.0);   (442865.2,
3761228.3,   206.6,   206.6,   0.0);
     (442965.2, 3761228.3,   206.5,   206.5,   0.0);   (443065.2,
3761228.3,   207.1,   207.1,   0.0);
     (443265.2, 3761228.3,   207.8,   207.8,   0.0);   (439615.2,
3761278.3,   201.5,   201.5,   0.0);
     (439665.2, 3761278.3,   202.1,   202.1,   0.0);   (439715.2,
3761278.3,   202.1,   202.1,   0.0);
     (439765.2, 3761278.3,   202.6,   202.6,   0.0);   (439815.2,
3761278.3,   202.8,   202.8,   0.0);
     (439865.2, 3761278.3,   202.7,   202.7,   0.0);   (440263.7,
3761292.1,   203.3,   203.3,   0.0);
     (440322.1, 3761293.7,   203.4,   203.4,   0.0);   (440565.2,
3761299.8,   203.9,   203.9,   0.0);
     (440756.0, 3761299.0,   204.0,   204.0,   0.0);   (440968.3,
3761294.4,   204.2,   204.2,   0.0);
     (439615.2, 3761328.3,   202.7,   202.7,   0.0);   (439665.2,
3761328.3,   202.6,   202.6,   0.0);
     (439715.2, 3761328.3,   202.3,   202.3,   0.0);   (439765.2,
3761328.3,   202.7,   202.7,   0.0);
     (439815.2, 3761328.3,   203.0,   203.0,   0.0);   (439865.2,
3761328.3,   203.1,   203.1,   0.0);
     (440862.1, 3761300.7,   204.2,   204.2,   0.0);   (442015.2,
3761328.3,   206.2,   206.2,   0.0);
     (439615.2, 3761378.3,   202.8,   202.8,   0.0);   (439665.2,
3761378.3,   203.2,   203.2,   0.0);
     (439715.2, 3761378.3,   203.2,   203.2,   0.0);   (439765.2,
3761378.3,   203.3,   203.3,   0.0);
     (439815.2, 3761378.3,   203.2,   203.2,   0.0);   (439865.2,
3761378.3,   203.5,   203.5,   0.0);
     (441165.2, 3761378.3,   205.0,   205.0,   0.0);   (439615.2,
3761428.3,   202.9,   202.9,   0.0);
     (439665.2, 3761428.3,   203.2,   203.2,   0.0);   (439715.2,
3761428.3,   203.4,   203.4,   0.0);
     (439765.2, 3761428.3,   203.6,   203.6,   0.0);   (439815.2,
3761428.3,   203.5,   203.5,   0.0);
     (439865.2, 3761428.3,   203.9,   203.9,   0.0);   (439948.6,
3761395.7,   203.7,   203.7,   0.0);
     (441215.2, 3761428.3,   205.5,   205.5,   0.0);   (442015.2,
3761428.3,   206.9,   206.9,   0.0);
     (439615.2, 3761478.3,   203.2,   203.2,   0.0);   (439665.2,
3761478.3,   203.4,   203.4,   0.0);
     (439715.2, 3761478.3,   203.7,   203.7,   0.0);   (439765.2,

3761478.3,   203.9,   203.9,   0.0);
     (439815.2, 3761478.3,   203.8,   203.8,   0.0);   (439865.2,
3761478.3,   204.3,   204.3,   0.0);
     (440415.2, 3761478.3,   205.1,   205.1,   0.0);   (441965.2,
3761478.3,   207.7,   207.7,   0.0);
     (439615.2, 3761528.3,   203.6,   203.6,   0.0);   (439665.2,
3761528.3,   203.7,   203.7,   0.0);
     (439715.2, 3761528.3,   204.0,   204.0,   0.0);   (439765.2,
3761528.3,   204.5,   204.5,   0.0);
     (439815.2, 3761528.3,   204.6,   204.6,   0.0);   (439865.2,
3761528.3,   205.0,   205.0,   0.0);
     (439933.9, 3761525.3,   205.2,   205.2,   0.0);   (441965.2,
3761528.3,   207.7,   207.7,   0.0);
     (442015.2, 3761528.3,   207.6,   207.6,   0.0);   (442065.2,
3761528.3,   207.9,   207.9,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                               (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                           (METERS)

     (439615.2, 3761578.3,   204.2,   204.2,   0.0);   (439665.2,
3761578.3,   204.5,   204.5,   0.0);
     (439715.2, 3761578.3,   204.8,   204.8,   0.0);   (439765.2,
3761578.3,   205.2,   205.2,   0.0);
     (439815.2, 3761578.3,   205.5,   205.5,   0.0);   (439865.2,
3761578.3,   205.5,   205.5,   0.0);
     (439948.3, 3761730.3,   206.9,   206.9,   0.0);   (439865.2,
3761928.3,   208.3,   208.3,   0.0);
     (439865.2, 3761978.3,   208.9,   208.9,   0.0);   (439937.2,
3761960.1,   209.4,   209.4,   0.0);
     (439938.5, 3762030.3,   209.8,   209.8,   0.0);   (439942.0,
3762097.7,   210.5,   210.5,   0.0);
     (440115.2, 3762128.3,   210.9,   210.9,   0.0);   (440165.2,
3762128.3,   211.2,   211.2,   0.0);
     (440215.2, 3762128.3,   211.5,   211.5,   0.0);   (439615.2,
3762528.3,   214.6,   214.6,   0.0);
     (439665.2, 3762528.3,   214.9,   214.9,   0.0);   (439715.2,
3762528.3,   215.1,   215.1,   0.0);
     (439765.2, 3762528.3,   215.2,   215.2,   0.0);   (439965.2,
3762528.3,   215.5,   215.5,   0.0);
     (439615.2, 3762578.3,   215.1,   215.1,   0.0);   (439665.2,

3762578.3,   215.4,   215.4,   0.0);
     (439715.2, 3762578.3,   215.5,   215.5,   0.0);   (439765.2,
3762578.3,   215.5,   215.5,   0.0);
     (439815.2, 3762578.3,   215.4,   215.4,   0.0);   (439865.2,
3762578.3,   215.9,   215.9,   0.0);
     (439965.2, 3762578.3,   216.4,   216.4,   0.0);   (439615.2,
3762628.3,   215.6,   215.6,   0.0);
     (439665.2, 3762628.3,   215.8,   215.8,   0.0);   (439715.2,
3762628.3,   216.0,   216.0,   0.0);
     (439765.2, 3762628.3,   215.9,   215.9,   0.0);   (439815.2,
3762628.3,   215.9,   215.9,   0.0);
     (439865.2, 3762628.3,   216.6,   216.6,   0.0);   (439965.2,
3762628.3,   217.1,   217.1,   0.0);
     (439615.2, 3762678.3,   216.6,   216.6,   0.0);   (439665.2,
3762678.3,   216.8,   216.8,   0.0);
     (439715.2, 3762678.3,   216.8,   216.8,   0.0);   (439765.2,
3762678.3,   217.0,   217.0,   0.0);
     (439815.2, 3762678.3,   217.0,   217.0,   0.0);   (439965.2,
3762678.3,   218.0,   218.0,   0.0);
     (439865.2, 3762928.3,   220.7,   220.7,   0.0);   (439615.2,
3763078.3,   220.9,   220.9,   0.0);
     (439665.2, 3763078.3,   221.6,   221.6,   0.0);   (439715.2,
3763078.3,   222.0,   222.0,   0.0);
     (439765.2, 3763078.3,   222.0,   222.0,   0.0);   (439815.2,
3763078.3,   222.2,   222.2,   0.0);
     (439865.2, 3763078.3,   222.4,   222.4,   0.0);   (439615.2,
3763128.3,   221.2,   221.2,   0.0);
     (439665.2, 3763128.3,   221.8,   221.8,   0.0);   (439715.2,
3763128.3,   222.1,   222.1,   0.0);
     (439765.2, 3763128.3,   222.3,   222.3,   0.0);   (439815.2,
3763128.3,   222.7,   222.7,   0.0);
     (439865.2, 3763128.3,   223.0,   223.0,   0.0);   (439615.2,
3763178.3,   221.7,   221.7,   0.0);
     (439665.2, 3763178.3,   222.3,   222.3,   0.0);   (439715.2,
3763178.3,   222.9,   222.9,   0.0);
     (439765.2, 3763178.3,   223.2,   223.2,   0.0);   (439815.2,
3763178.3,   223.4,   223.4,   0.0);
     (439865.2, 3763178.3,   223.7,   223.7,   0.0);   (439615.2,
3763228.3,   222.1,   222.1,   0.0);
     (439665.2, 3763228.3,   222.7,   222.7,   0.0);   (439715.2,
3763228.3,   223.4,   223.4,   0.0);
     (439765.2, 3763228.3,   223.9,   223.9,   0.0);   (439815.2,
3763228.3,   224.2,   224.2,   0.0);
     (439865.2, 3763228.3,   224.4,   224.4,   0.0);   (439615.2,
3763278.3,   222.9,   222.9,   0.0);
     (439665.2, 3763278.3,   223.1,   223.1,   0.0);   (439715.2,
3763278.3,   223.7,   223.7,   0.0);
     (439765.2, 3763278.3,   224.4,   224.4,   0.0);   (439815.2,

3763278.3,   224.8,   224.8,   0.0);
     (439865.2, 3763278.3,   224.9,   224.9,   0.0);   (440165.2,
3763728.3,   229.4,   229.4,   0.0);
     (440215.2, 3763728.3,   229.2,   229.2,   0.0);   (442023.5,
3761048.7,   203.7,   203.7,   0.0);
     (445603.8, 3760226.3,   201.7,   201.7,   0.0);   (445653.8,
3760226.3,   201.5,   201.5,   0.0);
     (445603.8, 3760276.3,   201.5,   201.5,   0.0);   (445653.8,
3760276.3,   200.9,   200.9,   0.0);
     (445603.8, 3760326.3,   201.7,   201.7,   0.0);   (445653.8,
3760326.3,   201.7,   201.7,   0.0);
     (445603.8, 3760376.3,   202.4,   202.4,   0.0);   (445653.8,
3760376.3,   202.6,   202.6,   0.0);
     (445603.8, 3760426.3,   203.0,   203.0,   0.0);   (445653.8,
3760426.3,   203.0,   203.0,   0.0);
     (445603.8, 3760476.3,   203.3,   203.3,   0.0);   (445653.8,
3760476.3,   203.3,   203.3,   0.0);
     (445603.8, 3760526.3,   204.1,   204.1,   0.0);   (445653.8,
3760526.3,   204.2,   204.2,   0.0);
     (445603.8, 3760576.3,   204.7,   204.7,   0.0);   (445653.8,
3760576.3,   204.6,   204.6,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (445603.8, 3760626.3,   204.3,   204.3,   0.0);   (445653.8,
3760626.3,   204.8,   204.8,   0.0);
     (445603.8, 3760676.3,   204.5,   204.5,   0.0);   (445653.8,
3760676.3,   205.0,   205.0,   0.0);
     (445603.8, 3760726.3,   204.9,   204.9,   0.0);   (445653.8,
3760726.3,   205.0,   205.0,   0.0);
     (445603.8, 3760776.3,   205.1,   205.1,   0.0);   (445653.8,
3760776.3,   205.3,   205.3,   0.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_V9_ADJU\KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_V9_ADJU\KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74	0.21	1.23	91.	7.9	296.4	2.0
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74	0.20	1.60	90.	7.9	299.9	2.0
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74	0.20	1.98	92.	7.9	302.0	2.0
12	01	01	1	14	94.6	0.185	1.215	0.005	674.	191.	-5.9	0.09	0.74	0.21	1.50	73.	7.9	303.1	2.0
12	01	01	1	15	68.6	0.187	1.184	0.005	858.	194.	-8.4	0.09	0.74	0.25	1.59	64.	7.9	303.1	2.0
12	01	01	1	16	24.9	0.255	0.862	0.005	911.	308.	-58.8	0.09	0.74	0.34	2.61	92.	7.9	300.4	2.0
12	01	01	1	17	-13.7	0.168	-9.000	-9.000	-999.	168.	31.1	0.09	0.74	0.62	1.98	107.	7.9	295.4	2.0
12	01	01	1	18	-26.7	0.279	-9.000	-9.000	-999.	354.	85.6	0.09	0.74						

```
1.00    3.22  134.    7.9  291.4    2.0
 12 01 01   1 19   -8.0  0.118 -9.000 -9.000 -999.  120.     18.2  0.09   0.74
1.00    1.43   37.    7.9  290.4    2.0
 12 01 01   1 20   -7.7  0.115 -9.000 -9.000 -999.   94.     17.6  0.09   0.74
1.00    1.40   49.    7.9  287.0    2.0
 12 01 01   1 21   -9.7  0.130 -9.000 -9.000 -999.  113.     20.2  0.09   0.74
1.00    1.57   26.    7.9  288.8    2.0
 12 01 01   1 22   -4.8  0.090 -9.000 -9.000 -999.   65.     13.6  0.09   0.74
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE 184
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
                 L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                 L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
                 L0040805    , L0040806    , L0040807    , L0040808    , L0040809
 , L0040810    , L0040811    ,  . . .      ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         438915.21    3754328.34        0.00001                    438965.21
3754328.34        0.00001
         438815.21    3754378.34        0.00001                    438865.21
3754378.34        0.00001
         438915.21    3754378.34        0.00001                    438965.21
3754378.34        0.00001
         439015.21    3754378.34        0.00001                    439065.21
3754378.34        0.00001
         439115.21    3754378.34        0.00001                    438765.21
3754428.34        0.00001
         438815.21    3754428.34        0.00001                    438865.21
3754428.34        0.00001
         438915.21    3754428.34        0.00001                    438965.21
3754428.34        0.00001
         439015.21    3754428.34        0.00001                    439065.21
3754428.34        0.00001
         439115.21    3754428.34        0.00001                    438715.21
3754478.34        0.00001
         438765.21    3754478.34        0.00001                    438815.21
3754478.34        0.00001
         438865.21    3754478.34        0.00001                    438915.21
3754478.34        0.00001
         438965.21    3754478.34        0.00001                    439015.21
3754478.34        0.00001
         439065.21    3754478.34        0.00001                    439115.21
3754478.34        0.00001
         438715.21    3754528.34        0.00001                    438765.21
3754528.34        0.00001
         438815.21    3754528.34        0.00001                    438865.21
3754528.34        0.00001
         438915.21    3754528.34        0.00001                    438965.21
3754528.34        0.00001
         439015.21    3754528.34        0.00001                    439065.21
3754528.34        0.00001
         438715.21    3754578.34        0.00001                    438765.21
3754578.34        0.00001
         438815.21    3754578.34        0.00001                    438865.21
3754578.34        0.00001
         438915.21    3754578.34        0.00001                    438965.21
3754578.34        0.00001
         439015.21    3754578.34        0.00001                    438665.21
3754678.34        0.00001
         438665.21    3754728.34        0.00001                    438715.21
3754728.34        0.00001
         438765.21    3754728.34        0.00001                    438765.21
3754778.34        0.00001
         439165.21    3755128.34        0.00001                    439915.21
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3757928.34        0.00004
         440215.21    3758078.34        0.00005                      447565.21
3759878.34        0.00003
         439815.21    3759928.34        0.00035                      439815.21
3759978.34        0.00035
         439815.21    3760028.34        0.00036                      439815.21
3760078.34        0.00036
         439815.21    3760128.34        0.00037                      445265.21
3760128.34        0.00012
         445315.21    3760128.34        0.00011                      445365.21
3760128.34        0.00010
         445415.21    3760128.34        0.00010                      445465.21
3760128.34        0.00009
         445515.21    3760128.34        0.00009                      445565.21
3760128.34        0.00009
         439815.21    3760178.34        0.00038                      445265.21
3760178.34        0.00013
         445315.21    3760178.34        0.00012                      445365.21
3760178.34        0.00011
         445415.21    3760178.34        0.00011                      445465.21
3760178.34        0.00010
         445515.21    3760178.34        0.00010                      445565.21
3760178.34        0.00009
         445265.21    3760228.34        0.00015                      445315.21
3760228.34        0.00014
         445365.21    3760228.34        0.00013                      445415.21
3760228.34        0.00012
         445465.21    3760228.34        0.00011                      445515.21
3760228.34        0.00010
         445565.21    3760228.34        0.00010                      445265.21
3760278.34        0.00018
         445315.21    3760278.34        0.00016                      445365.21
3760278.34        0.00014
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE 185
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
                 L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                 L0040797    , L0040798    , L0040799    , L0040800    , L0040801
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, L0040802 , L0040803 , L0040804 ,
L0040805 , L0040806 , L0040807 , L0040808 , L0040809
, L0040810 , L0040811 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
445415.21	3760278.34	0.00013	445465.21	3760278.34	0.00012
445515.21	3760278.34	0.00011	445565.21	3760278.34	0.00010
445265.21	3760328.34	0.00023	445315.21	3760328.34	0.00019
445365.21	3760328.34	0.00016	445415.21	3760328.34	0.00014
445465.21	3760328.34	0.00013	445515.21	3760328.34	0.00012
445565.21	3760328.34	0.00011	445265.21	3760378.34	0.00030
445315.21	3760378.34	0.00022	445365.21	3760378.34	0.00018
445415.21	3760378.34	0.00015	445465.21	3760378.34	0.00014
445515.21	3760378.34	0.00012	445565.21	3760378.34	0.00011
444715.21	3760428.34	0.00114	444765.21	3760428.34	0.00109
444815.21	3760428.34	0.00105	444865.21	3760428.34	0.00101
444915.21	3760428.34	0.00099	444965.21	3760428.34	0.00096
445015.21	3760428.34	0.00093	445065.21	3760428.34	0.00089
445115.21	3760428.34	0.00084	445165.21	3760428.34	0.00075
445265.21	3760428.34	0.00032	445315.21	3760428.34	0.00023
445365.21	3760428.34	0.00019	445415.21	3760428.34	0.00016
445465.21	3760428.34	0.00014	445515.21	3760428.34	0.00012

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         445565.21    3760428.34        0.00011                    444665.21
3760478.34        0.00052
         444715.21    3760478.34        0.00051                    444765.21
3760478.34        0.00051
         444815.21    3760478.34        0.00049                    444865.21
3760478.34        0.00048
         444915.21    3760478.34        0.00047                    444965.21
3760478.34        0.00046
         445015.21    3760478.34        0.00045                    445065.21
3760478.34        0.00043
         445115.21    3760478.34        0.00040                    445165.21
3760478.34        0.00036
         445265.21    3760478.34        0.00026                    445315.21
3760478.34        0.00021
         445365.21    3760478.34        0.00018                    445415.21
3760478.34        0.00016
         445465.21    3760478.34        0.00014                    445515.21
3760478.34        0.00012
         445565.21    3760478.34        0.00011                    443434.87
3760505.41        0.00083
         443519.04    3760505.41        0.00083                    443548.29
3760505.41        0.00082
         443736.51    3760500.50        0.00089                    443823.40
3760503.23        0.00085
         444665.21    3760528.34        0.00035                    444715.21
3760528.34        0.00035
         444765.21    3760528.34        0.00034                    444815.21
3760528.34        0.00034
         444865.21    3760528.34        0.00033                    444915.21
3760528.34        0.00032
         444965.21    3760528.34        0.00031                    445015.21
3760528.34        0.00030
         445065.21    3760528.34        0.00029                    445115.21
3760528.34        0.00027
         445165.21    3760528.34        0.00025                    445265.21
3760528.34        0.00020
         445315.21    3760528.34        0.00018                    445365.21
3760528.34        0.00016
         445415.21    3760528.34        0.00015                    445465.21
3760528.34        0.00013
         445515.21    3760528.34        0.00012                    445565.21
3760528.34        0.00011
         444665.21    3760578.34        0.00027                    444715.21
3760578.34        0.00027
         444765.21    3760578.34        0.00027                    444815.21
3760578.34        0.00026
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0040784 , L0040785 , L0040786 , L0040787 , L0040788 , L0040789 , L0040790 , L0040791 , L0040792 , L0040793 , L0040794 , L0040795 , L0040796 , L0040797 , L0040798 , L0040799 , L0040800 , L0040801 , L0040802 , L0040803 , L0040804 , L0040805 , L0040806 , L0040807 , L0040808 , L0040809 , L0040810 , L0040811 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
444865.21	3760578.34	0.00026	444915.21	3760578.34	0.00025
444965.21	3760578.34	0.00024	445015.21	3760578.34	0.00023
445065.21	3760578.34	0.00023	445115.21	3760578.34	0.00021
445165.21	3760578.34	0.00020	445265.21	3760578.34	0.00017
445315.21	3760578.34	0.00016	445365.21	3760578.34	0.00015
445415.21	3760578.34	0.00014	445465.21	3760578.34	0.00013
445515.21	3760578.34	0.00012	445565.21	3760578.34	0.00011
444665.21	3760628.34	0.00023	444715.21	3760628.34	0.00022
444765.21	3760628.34	0.00022	444815.21	3760628.34	0.00022
444865.21	3760628.34	0.00021	444915.21	3760628.34	0.00021
444965.21	3760628.34	0.00020	445015.21		

```
3760628.34        0.00019
         445065.21    3760628.34        0.00019                    445115.21
3760628.34        0.00018
         445165.21    3760628.34        0.00017                    445265.21
3760628.34        0.00015
         445315.21    3760628.34        0.00014                    445365.21
3760628.34        0.00013
         445415.21    3760628.34        0.00013                    445465.21
3760628.34        0.00012
         445515.21    3760628.34        0.00011                    445565.21
3760628.34        0.00010
         444665.21    3760678.34        0.00020                    444715.21
3760678.34        0.00019
         444765.21    3760678.34        0.00019                    444815.21
3760678.34        0.00019
         444865.21    3760678.34        0.00018                    444915.21
3760678.34        0.00018
         444965.21    3760678.34        0.00017                    445015.21
3760678.34        0.00017
         445065.21    3760678.34        0.00016                    445115.21
3760678.34        0.00016
         445165.21    3760678.34        0.00015                    445265.21
3760678.34        0.00014
         445315.21    3760678.34        0.00013                    445365.21
3760678.34        0.00012
         445415.21    3760678.34        0.00012                    445465.21
3760678.34        0.00011
         445515.21    3760678.34        0.00011                    445565.21
3760678.34        0.00010
         444665.21    3760728.34        0.00018                    444715.21
3760728.34        0.00017
         444765.21    3760728.34        0.00017                    444815.21
3760728.34        0.00017
         444865.21    3760728.34        0.00016                    444915.21
3760728.34        0.00016
         444965.21    3760728.34        0.00015                    445015.21
3760728.34        0.00015
         445065.21    3760728.34        0.00014                    445115.21
3760728.34        0.00014
         445165.21    3760728.34        0.00013                    445265.21
3760728.34        0.00012
         445315.21    3760728.34        0.00012                    445365.21
3760728.34        0.00011
         445415.21    3760728.34        0.00011                    445465.21
3760728.34        0.00010
         445515.21    3760728.34        0.00010                    445565.21
3760728.34        0.00010
         444665.21    3760778.34        0.00016                    444715.21
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3760778.34   0.00016
         444765.21   3760778.34   0.00015   444815.21
3760778.34   0.00015
         444865.21   3760778.34   0.00015   444915.21
3760778.34   0.00014
         444965.21   3760778.34   0.00014   445015.21
3760778.34   0.00014
         445065.21   3760778.34   0.00013   445115.21
3760778.34   0.00013
         445165.21   3760778.34   0.00012   445265.21
3760778.34   0.00011

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0040784   , L0040785
 , L0040786   , L0040787   , L0040788   ,
                   L0040789   , L0040790   , L0040791   , L0040792   , L0040793
 , L0040794   , L0040795   , L0040796   ,
                   L0040797   , L0040798   , L0040799   , L0040800   , L0040801
 , L0040802   , L0040803   , L0040804   ,
                   L0040805   , L0040806   , L0040807   , L0040808   , L0040809
 , L0040810   , L0040811   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
         439715.21    3760878.34        0.00027                    439765.21
3760878.34        0.00034
         439815.21    3760878.34        0.00046                    439865.21
3760878.34        0.00083
         439615.21    3760928.34        0.00020                    439665.21
3760928.34        0.00023
         439715.21    3760928.34        0.00027                    439765.21
3760928.34        0.00033
         439815.21    3760928.34        0.00046                    439865.21
3760928.34        0.00083
         439615.21    3760978.34        0.00020                    439665.21
3760978.34        0.00023
         439715.21    3760978.34        0.00027                    439765.21
3760978.34        0.00033
         439815.21    3760978.34        0.00045                    439865.21
3760978.34        0.00083
         439615.21    3761028.34        0.00020                    439665.21
3761028.34        0.00023
         439715.21    3761028.34        0.00027                    439765.21
3761028.34        0.00033
         439815.21    3761028.34        0.00045                    439865.21
3761028.34        0.00082
         442026.18    3761011.86        0.00070                    439615.21
3761078.34        0.00020
         439665.21    3761078.34        0.00022                    439715.21
3761078.34        0.00026
         439765.21    3761078.34        0.00033                    439815.21
3761078.34        0.00045
         439865.21    3761078.34        0.00082                    439615.21
3761128.34        0.00019
         439665.21    3761128.34        0.00022                    439715.21
3761128.34        0.00026
         439765.21    3761128.34        0.00032                    439815.21
3761128.34        0.00044
         439865.21    3761128.34        0.00082                    439615.21
3761178.34        0.00019
         439665.21    3761178.34        0.00022                    439715.21
3761178.34        0.00026
         439765.21    3761178.34        0.00032                    439815.21
3761178.34        0.00044
         439865.21    3761178.34        0.00082                    439615.21
3761228.34        0.00019
         439665.21    3761228.34        0.00022                    439715.21
3761228.34        0.00026
         439765.21    3761228.34        0.00032                    439815.21
3761228.34        0.00044
         439865.21    3761228.34        0.00081                    440165.21
3761228.34        0.00030
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         440215.21    3761228.34        0.00028                        440265.21
3761228.34        0.00027
         440615.21    3761228.34        0.00030                        440665.21
3761228.34        0.00032
         440715.21    3761228.34        0.00036                        442027.40
3761229.63        0.00064
         442665.21    3761228.34        0.00023                        442865.21
3761228.34        0.00020
         442965.21    3761228.34        0.00018                        443065.21
3761228.34        0.00017
         443265.21    3761228.34        0.00016                        439615.21
3761278.34        0.00019
         439665.21    3761278.34        0.00022                        439715.21
3761278.34        0.00026
         439765.21    3761278.34        0.00032                        439815.21
3761278.34        0.00044
         439865.21    3761278.34        0.00081                        440263.68
3761292.14        0.00026
         440322.11    3761293.68        0.00025                        440565.21
3761299.81        0.00026
         440756.01    3761299.04        0.00034                        440968.28
3761294.45        0.00049
         439615.21    3761328.34        0.00019                        439665.21
3761328.34        0.00021
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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                                  PAGE 188
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
                 L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                 L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
                 L0040805    , L0040806    , L0040807    , L0040808    , L0040809
 , L0040810    , L0040811    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439715.21	3761328.34	0.00025	439765.21	3761328.34	0.00031
439815.21	3761328.34	0.00043	439865.21	3761328.34	0.00080
440862.15	3761300.73	0.00041	442015.21	3761328.34	0.00044
439615.21	3761378.34	0.00019	439665.21	3761378.34	0.00021
439715.21	3761378.34	0.00025	439765.21	3761378.34	0.00031
439815.21	3761378.34	0.00043	439865.21	3761378.34	0.00080
441165.21	3761378.34	0.00044	439615.21	3761428.34	0.00018
439665.21	3761428.34	0.00021	439715.21	3761428.34	0.00025
439765.21	3761428.34	0.00031	439815.21	3761428.34	0.00043
439865.21	3761428.34	0.00079	439948.61	3761395.68	0.00075
441215.21	3761428.34	0.00038	442015.21	3761428.34	0.00032
439615.21	3761478.34	0.00018	439665.21	3761478.34	0.00021
439715.21	3761478.34	0.00025	439765.21	3761478.34	0.00031
439815.21	3761478.34	0.00042	439865.21	3761478.34	0.00078
440415.21	3761478.34	0.00022	441965.21	3761478.34	0.00029
439615.21	3761528.34	0.00018	439665.21	3761528.34	0.00021
439715.21	3761528.34	0.00024	439765.21	3761528.34	0.00030
439815.21	3761528.34	0.00042	439865.21	3761528.34	0.00078
439933.91	3761525.28	0.00090	441965.21	3761528.34	0.00025
442015.21	3761528.34	0.00025	442065.21	3761528.34	0.00024
439615.21	3761578.34	0.00018	439665.21	3761578.34	0.00020
439715.21	3761578.34	0.00024	439765.21		

3761578.34 0.00030
439815.21 3761578.34 0.00042 439865.21
3761578.34 0.00077
439948.29 3761730.30 0.00074 439865.21
3761928.34 0.00073
439865.21 3761978.34 0.00073 439937.22
3761960.11 0.00085
439938.52 3762030.30 0.00083 439941.98
3762097.71 0.00079
440115.21 3762128.34 0.00026 440165.21
3762128.34 0.00022
440215.21 3762128.34 0.00020 439615.21
3762528.34 0.00011
439665.21 3762528.34 0.00013 439715.21
3762528.34 0.00016
439765.21 3762528.34 0.00021 439965.21
3762528.34 0.00053
439615.21 3762578.34 0.00010 439665.21
3762578.34 0.00012
439715.21 3762578.34 0.00015 439765.21
3762578.34 0.00019
439815.21 3762578.34 0.00029 439865.21
3762578.34 0.00062
439965.21 3762578.34 0.00051 439615.21
3762628.34 0.00009
439665.21 3762628.34 0.00011 439715.21
3762628.34 0.00013
439765.21 3762628.34 0.00017 439815.21
3762628.34 0.00026
439865.21 3762628.34 0.00057 439965.21
3762628.34 0.00046
439615.21 3762678.34 0.00009 439665.21
3762678.34 0.00010
439715.21 3762678.34 0.00011 439765.21
3762678.34 0.00014
439815.21 3762678.34 0.00020 439965.21
3762678.34 0.00035

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0040784 , L0040785

```
 , L0040786    , L0040787    , L0040788    ,
                 L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                 L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
                 L0040805    , L0040806    , L0040807    , L0040808    , L0040809
 , L0040810    , L0040811    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439865.21	3762928.34	0.00006	439615.21	3763078.34	0.00004
439665.21	3763078.34	0.00004	439715.21	3763078.34	0.00004
439765.21	3763078.34	0.00004	439815.21	3763078.34	0.00004
439865.21	3763078.34	0.00004	439615.21	3763128.34	0.00004
439665.21	3763128.34	0.00004	439715.21	3763128.34	0.00004
439765.21	3763128.34	0.00004	439815.21	3763128.34	0.00004
439865.21	3763128.34	0.00004	439615.21	3763178.34	0.00003
439665.21	3763178.34	0.00003	439715.21	3763178.34	0.00003
439765.21	3763178.34	0.00003	439815.21	3763178.34	0.00004
439865.21	3763178.34	0.00004	439615.21	3763228.34	0.00003
439665.21	3763228.34	0.00003	439715.21	3763228.34	0.00003
439765.21	3763228.34	0.00003	439815.21	3763228.34	0.00003
439865.21	3763228.34	0.00003	439615.21	3763278.34	0.00003
439665.21	3763278.34	0.00003	439715.21	3763278.34	0.00003
439765.21	3763278.34	0.00003	439815.21	3763278.34	0.00003

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         439865.21    3763278.34        0.00003                        440165.21
3763728.34        0.00002
         440215.21    3763728.34        0.00002                        442023.45
3761048.68        0.00071
         445603.81    3760226.33        0.00009                        445653.81
3760226.33        0.00009
         445603.81    3760276.33        0.00010                        445653.81
3760276.33        0.00009
         445603.81    3760326.33        0.00010                        445653.81
3760326.33        0.00009
         445603.81    3760376.33        0.00010                        445653.81
3760376.33        0.00010
         445603.81    3760426.33        0.00011                        445653.81
3760426.33        0.00010
         445603.81    3760476.33        0.00011                        445653.81
3760476.33        0.00010
         445603.81    3760526.33        0.00011                        445653.81
3760526.33        0.00010
         445603.81    3760576.33        0.00010                        445653.81
3760576.33        0.00010
         445603.81    3760626.33        0.00010                        445653.81
3760626.33        0.00010
         445603.81    3760676.33        0.00010                        445653.81
3760676.33        0.00009
         445603.81    3760726.33        0.00009                        445653.81
3760726.33        0.00009
         445603.81    3760776.33        0.00009                        445653.81
3760776.33        0.00009
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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                                  PAGE 190
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
                  L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                  L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
                  L0040805    , L0040806    , L0040807    , L0040808    , L0040809
 , L0040810    , L0040811    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
438915.21	3754328.34	0.00016	(16021502)	438965.21	3754328.34	0.00016	(16021502)
438815.21	3754378.34	0.00016	(16021502)	438865.21	3754378.34	0.00016	(16021502)
438915.21	3754378.34	0.00016	(16021502)	438965.21	3754378.34	0.00016	(16021502)
439015.21	3754378.34	0.00016	(14050102)	439065.21	3754378.34	0.00016	(14050102)
439115.21	3754378.34	0.00016	(14050102)	438765.21	3754428.34	0.00016	(14030807)
438815.21	3754428.34	0.00016	(16021502)	438865.21	3754428.34	0.00016	(16021502)
438915.21	3754428.34	0.00016	(16021502)	438965.21	3754428.34	0.00016	(16021502)
439015.21	3754428.34	0.00016	(16021502)	439065.21	3754428.34	0.00016	(14050102)
439115.21	3754428.34	0.00016	(14050102)	438715.21	3754478.34	0.00016	(14030807)
438765.21	3754478.34	0.00016	(13022722)	438815.21	3754478.34	0.00016	(16021502)
438865.21	3754478.34	0.00016	(16021502)	438915.21	3754478.34	0.00016	(16021502)
438965.21	3754478.34	0.00016	(16021502)	439015.21	3754478.34	0.00016	(16021502)
439065.21	3754478.34	0.00016	(14050102)	439115.21	3754478.34	0.00016	(14050102)
438715.21	3754528.34	0.00016	(13122501)	438765.21	3754528.34	0.00016	(13022722)
438815.21	3754528.34	0.00016	(16021502)	438865.21	3754528.34	0.00016	(16021502)
438915.21	3754528.34	0.00016	(16021502)	438965.21	3754528.34	0.00016	(16021502)
439015.21	3754528.34	0.00016	(16021502)	439065.21	3754528.34	0.00016	(14050102)
438715.21	3754578.34	0.00016	(13101419)	438765.21	3754578.34	0.00016	(13022722)
438815.21	3754578.34	0.00016	(13022722)	438865.21	3754578.34	0.00016	(16021502)
438915.21	3754578.34	0.00016	(16021502)	438965.21			

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 3754578.34        0.00016  (16021502)
       439015.21   3754578.34        0.00016  (16021502)                438665.21
 3754678.34        0.00017  (13101419)
       438665.21   3754728.34        0.00017  (13101419)                438715.21
 3754728.34        0.00017  (13101419)
       438765.21   3754728.34        0.00017  (13101419)                438765.21
 3754778.34        0.00017  (13101419)
       439165.21   3755128.34        0.00017  (16021502)                439915.21
 3757928.34        0.00033  (14100421)
       440215.21   3758078.34        0.00035  (13101419)                447565.21
 3759878.34        0.00033  (15072521)
       439815.21   3759928.34        0.00140  (13050219)                439815.21
 3759978.34        0.00142  (16101918)
       439815.21   3760028.34        0.00145  (15110618)                439815.21
 3760078.34        0.00149  (15060824)
       439815.21   3760128.34        0.00153  (12100121)                445265.21
 3760128.34        0.00072  (16060906)
       445315.21   3760128.34        0.00072  (16060906)                445365.21
 3760128.34        0.00071  (16060906)
       445415.21   3760128.34        0.00071  (15082519)                445465.21
 3760128.34        0.00071  (15082519)
       445515.21   3760128.34        0.00070  (15082519)                445565.21
 3760128.34        0.00070  (15082519)
       439815.21   3760178.34        0.00160  (12100121)                445265.21
 3760178.34        0.00080  (15082519)
       445315.21   3760178.34        0.00079  (15082519)                445365.21
 3760178.34        0.00079  (15082519)
       445415.21   3760178.34        0.00079  (15082519)                445465.21
 3760178.34        0.00078  (15082519)
       445515.21   3760178.34        0.00077  (15082519)                445565.21
 3760178.34        0.00076  (15082519)
       445265.21   3760228.34        0.00091  (15082519)                445315.21
 3760228.34        0.00090  (15082519)
       445365.21   3760228.34        0.00089  (15082519)                445415.21
 3760228.34        0.00088  (15082519)
       445465.21   3760228.34        0.00086  (15082519)                445515.21
 3760228.34        0.00083  (15082519)
       445565.21   3760228.34        0.00081  (15082519)                445265.21
 3760278.34        0.00106  (15082519)
       445315.21   3760278.34        0.00105  (15082519)                445365.21
 3760278.34        0.00102  (15082519)
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE 191
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0040784 , L0040785 , L0040786 , L0040787 , L0040788 ,
L0040789 , L0040790 , L0040791 , L0040792 , L0040793 , L0040794 , L0040795 , L0040796 ,
L0040797 , L0040798 , L0040799 , L0040800 , L0040801 , L0040802 , L0040803 , L0040804 ,
L0040805 , L0040806 , L0040807 , L0040808 , L0040809 , L0040810 , L0040811 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
445415.21	3760278.34	0.00098	(15082519)	445465.21	3760278.34	0.00094	(12071219)
445515.21	3760278.34	0.00090	(12071219)	445565.21	3760278.34	0.00086	(12071219)
445265.21	3760328.34	0.00134	(15082519)	445315.21	3760328.34	0.00127	(13090520)
445365.21	3760328.34	0.00118	(16062406)	445415.21	3760328.34	0.00109	(16062406)
445465.21	3760328.34	0.00102	(16062406)	445515.21	3760328.34	0.00095	(16062406)
445565.21	3760328.34	0.00089	(16062406)	445265.21	3760378.34	0.00177	(15091022)
445315.21	3760378.34	0.00146	(15091022)	445365.21	3760378.34	0.00127	(15091022)
445415.21	3760378.34	0.00114	(15091022)	445465.21	3760378.34	0.00104	(15091022)
445515.21	3760378.34	0.00097	(14062606)	445565.21	3760378.34	0.00090	(14062606)
444715.21	3760428.34	0.00330	(13041207)	444765.21	3760428.34	0.00316	(13041207)
444815.21	3760428.34	0.00306	(13041207)	444865.21	3760428.34	0.00296	(13041207)
444915.21	3760428.34	0.00290	(13041207)	444965.21	3760428.34	0.00286	(13041207)
445015.21	3760428.34	0.00279	(13041207)	445065.21	3760428.34	0.00273	(13041207)

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       445115.21   3760428.34        0.00266  (13041207)                445165.21
3760428.34        0.00258  (13041207)
       445265.21   3760428.34        0.00157  (15082823)                445315.21
3760428.34        0.00135  (12090821)
       445365.21   3760428.34        0.00120  (12090821)                445415.21
3760428.34        0.00109  (14070523)
       445465.21   3760428.34        0.00100  (14070523)                445515.21
3760428.34        0.00093  (14070523)
       445565.21   3760428.34        0.00088  (14070523)                444665.21
3760478.34        0.00135  (14012017)
       444715.21   3760478.34        0.00135  (14012017)                444765.21
3760478.34        0.00133  (14012017)
       444815.21   3760478.34        0.00131  (14012017)                444865.21
3760478.34        0.00131  (14012017)
       444915.21   3760478.34        0.00129  (14012017)                444965.21
3760478.34        0.00127  (14012017)
       445015.21   3760478.34        0.00125  (14012017)                445065.21
3760478.34        0.00122  (15082823)
       445115.21   3760478.34        0.00120  (15082823)                445165.21
3760478.34        0.00117  (15082823)
       445265.21   3760478.34        0.00110  (15082521)                445315.21
3760478.34        0.00107  (15082521)
       445365.21   3760478.34        0.00102  (16073023)                445415.21
3760478.34        0.00097  (16073023)
       445465.21   3760478.34        0.00091  (16073023)                445515.21
3760478.34        0.00086  (12090821)
       445565.21   3760478.34        0.00083  (12090821)                443434.87
3760505.41        0.00217  (13041207)
       443519.04   3760505.41        0.00216  (13041207)                443548.29
3760505.41        0.00216  (13041207)
       443736.51   3760500.50        0.00241  (13041207)                443823.40
3760503.23        0.00231  (13041207)
       444665.21   3760528.34        0.00103  (15082823)                444715.21
3760528.34        0.00103  (15082823)
       444765.21   3760528.34        0.00101  (15082823)                444815.21
3760528.34        0.00100  (15082823)
       444865.21   3760528.34        0.00099  (15082823)                444915.21
3760528.34        0.00098  (15082823)
       444965.21   3760528.34        0.00097  (15082823)                445015.21
3760528.34        0.00096  (15082823)
       445065.21   3760528.34        0.00094  (15082823)                445115.21
3760528.34        0.00093  (15082823)
       445165.21   3760528.34        0.00091  (15082521)                445265.21
3760528.34        0.00088  (15082521)
       445315.21   3760528.34        0.00086  (15082521)                445365.21
3760528.34        0.00085  (15082521)
       445415.21   3760528.34        0.00083  (15082521)                445465.21
3760528.34        0.00081  (15101503)
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       445515.21   3760528.34        0.00079  (16073023)               445565.21
 3760528.34        0.00076  (16073023)
       444665.21   3760578.34        0.00087  (15082823)               444715.21
 3760578.34        0.00088  (15082823)
       444765.21   3760578.34        0.00086  (15082823)               444815.21
 3760578.34        0.00085  (15082823)
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
                 L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                 L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
                 L0040805    , L0040806    , L0040807    , L0040808    , L0040809
 , L0040810    , L0040811    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       444865.21   3760578.34        0.00084  (15082823)               444915.21
 3760578.34        0.00083  (15082823)
       444965.21   3760578.34        0.00082  (16073102)               445015.21
 3760578.34        0.00081  (16073102)
       445065.21   3760578.34        0.00080  (15082521)               445115.21
 3760578.34        0.00079  (15082521)
       445165.21   3760578.34        0.00078  (15082521)               445265.21
 3760578.34        0.00075  (15082521)
       445315.21   3760578.34        0.00074  (15082521)               445365.21
 3760578.34        0.00074  (15082521)
       445415.21   3760578.34        0.00073  (15082521)               445465.21
 3760578.34        0.00072  (15082521)
       445515.21   3760578.34        0.00071  (15082521)               445565.21
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3760578.34        0.00070  (15082521)
       444665.21   3760628.34        0.00078  (15082521)                444715.21
3760628.34        0.00078  (16073102)
       444765.21   3760628.34        0.00077  (16073102)                444815.21
3760628.34        0.00076  (16073102)
       444865.21   3760628.34        0.00075  (16073102)                444915.21
3760628.34        0.00074  (16073102)
       444965.21   3760628.34        0.00073  (15082521)                445015.21
3760628.34        0.00073  (15082521)
       445065.21   3760628.34        0.00072  (15082521)                445115.21
3760628.34        0.00071  (15082521)
       445165.21   3760628.34        0.00070  (15082521)                445265.21
3760628.34        0.00068  (15082521)
       445315.21   3760628.34        0.00067  (15082521)                445365.21
3760628.34        0.00066  (15082521)
       445415.21   3760628.34        0.00066  (15082521)                445465.21
3760628.34        0.00065  (15082521)
       445515.21   3760628.34        0.00065  (15082521)                445565.21
3760628.34        0.00064  (15082521)
       444665.21   3760678.34        0.00072  (15082521)                444715.21
3760678.34        0.00072  (15082521)
       444765.21   3760678.34        0.00071  (15082521)                444815.21
3760678.34        0.00070  (15082521)
       444865.21   3760678.34        0.00069  (15082521)                444915.21
3760678.34        0.00069  (15082521)
       444965.21   3760678.34        0.00068  (15082521)                445015.21
3760678.34        0.00067  (15082521)
       445065.21   3760678.34        0.00066  (15082521)                445115.21
3760678.34        0.00066  (15082521)
       445165.21   3760678.34        0.00064  (15082521)                445265.21
3760678.34        0.00063  (15082521)
       445315.21   3760678.34        0.00062  (15082521)                445365.21
3760678.34        0.00062  (15082521)
       445415.21   3760678.34        0.00061  (15082521)                445465.21
3760678.34        0.00061  (15082521)
       445515.21   3760678.34        0.00060  (15082521)                445565.21
3760678.34        0.00060  (15082521)
       444665.21   3760728.34        0.00067  (15082521)                444715.21
3760728.34        0.00068  (15082521)
       444765.21   3760728.34        0.00067  (15082521)                444815.21
3760728.34        0.00066  (15082521)
       444865.21   3760728.34        0.00065  (15082521)                444915.21
3760728.34        0.00064  (15082521)
       444965.21   3760728.34        0.00063  (15082521)                445015.21
3760728.34        0.00063  (15082521)
       445065.21   3760728.34        0.00062  (15082521)                445115.21
3760728.34        0.00062  (15082521)
       445165.21   3760728.34        0.00061  (15082521)                445265.21
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 3760728.34        0.00059  (15082521)
       445315.21   3760728.34        0.00059  (15082521)                445365.21
 3760728.34        0.00058  (15082521)
       445415.21   3760728.34        0.00058  (15082521)                445465.21
 3760728.34        0.00059  (15082521)
       445515.21   3760728.34        0.00057  (15082521)                445565.21
 3760728.34        0.00057  (15082521)
       444665.21   3760778.34        0.00063  (15082521)                444715.21
 3760778.34        0.00065  (15082521)
       444765.21   3760778.34        0.00064  (15082521)                444815.21
 3760778.34        0.00063  (15082521)
       444865.21   3760778.34        0.00062  (15082521)                444915.21
 3760778.34        0.00062  (15082521)
       444965.21   3760778.34        0.00061  (15082521)                445015.21
 3760778.34        0.00061  (15082521)
       445065.21   3760778.34        0.00060  (15082521)                445115.21
 3760778.34        0.00059  (15082521)
       445165.21   3760778.34        0.00058  (15082521)                445265.21
 3760778.34        0.00057  (15082521)
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
                 L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                 L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
                 L0040805    , L0040806    , L0040807    , L0040808    , L0040809
 , L0040810    , L0040811    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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       445315.21   3760778.34        0.00056  (15082521)              445365.21
3760778.34        0.00056  (15082521)
       445415.21   3760778.34        0.00056  (15082521)              445465.21
3760778.34        0.00056  (15082521)
       445515.21   3760778.34        0.00056  (15082521)              445565.21
3760778.34        0.00055  (15082521)
       439615.21   3760878.34        0.00121  (15051306)              439665.21
3760878.34        0.00129  (15051306)
       439715.21   3760878.34        0.00138  (15051306)              439765.21
3760878.34        0.00152  (15051306)
       439815.21   3760878.34        0.00175  (15051306)              439865.21
3760878.34        0.00273  (12100607)
       439615.21   3760928.34        0.00120  (15051306)              439665.21
3760928.34        0.00127  (15051306)
       439715.21   3760928.34        0.00137  (15051306)              439765.21
3760928.34        0.00151  (15051306)
       439815.21   3760928.34        0.00173  (15051306)              439865.21
3760928.34        0.00272  (12100607)
       439615.21   3760978.34        0.00118  (13122517)              439665.21
3760978.34        0.00125  (13122517)
       439715.21   3760978.34        0.00135  (15051306)              439765.21
3760978.34        0.00149  (15051306)
       439815.21   3760978.34        0.00171  (15051306)              439865.21
3760978.34        0.00271  (12100607)
       439615.21   3761028.34        0.00118  (13122517)              439665.21
3761028.34        0.00125  (13122517)
       439715.21   3761028.34        0.00134  (13122517)              439765.21
3761028.34        0.00147  (13122517)
       439815.21   3761028.34        0.00170  (16092524)              439865.21
3761028.34        0.00270  (12100607)
       442026.18   3761011.86        0.00186  (15082520)              439615.21
3761078.34        0.00117  (13122517)
       439665.21   3761078.34        0.00124  (13122517)              439715.21
3761078.34        0.00133  (13122517)
       439765.21   3761078.34        0.00146  (13122517)              439815.21
3761078.34        0.00170  (16092524)
       439865.21   3761078.34        0.00269  (12100607)              439615.21
3761128.34        0.00115  (13122517)
       439665.21   3761128.34        0.00122  (13122517)              439715.21
3761128.34        0.00132  (13122517)
       439765.21   3761128.34        0.00145  (16092524)              439815.21
3761128.34        0.00169  (16092524)
       439865.21   3761128.34        0.00269  (12100607)              439615.21
3761178.34        0.00114  (13121117)
       439665.21   3761178.34        0.00121  (13121117)              439715.21
3761178.34        0.00130  (13121117)
       439765.21   3761178.34        0.00143  (16092524)              439815.21
3761178.34        0.00169  (12081723)
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       439865.21   3761178.34        0.00268  (12100607)               439615.21
 3761228.34        0.00113  (13121117)
       439665.21   3761228.34        0.00121  (15063019)               439715.21
 3761228.34        0.00130  (15063019)
       439765.21   3761228.34        0.00143  (15063019)               439815.21
 3761228.34        0.00168  (12081723)
       439865.21   3761228.34        0.00267  (12100607)               440165.21
 3761228.34        0.00113  (15063019)
       440215.21   3761228.34        0.00115  (15063019)               440265.21
 3761228.34        0.00118  (15063019)
       440615.21   3761228.34        0.00151  (15090919)               440665.21
 3761228.34        0.00156  (15090919)
       440715.21   3761228.34        0.00161  (15090919)               442027.40
 3761229.63        0.00217  (14101507)
       442665.21   3761228.34        0.00113  (12092020)               442865.21
 3761228.34        0.00103  (15101507)
       442965.21   3761228.34        0.00099  (15101507)               443065.21
 3761228.34        0.00097  (15101507)
       443265.21   3761228.34        0.00094  (15082922)               439615.21
 3761278.34        0.00114  (15063019)
       439665.21   3761278.34        0.00121  (15063019)               439715.21
 3761278.34        0.00130  (15063019)
       439765.21   3761278.34        0.00143  (15063019)               439815.21
 3761278.34        0.00168  (12081723)
       439865.21   3761278.34        0.00266  (12100607)               440263.68
 3761292.14        0.00112  (15063019)
       440322.11   3761293.68        0.00115  (15063019)               440565.21
 3761299.81        0.00132  (15090919)
       440756.01   3761299.04        0.00150  (16102418)               440968.28
 3761294.45        0.00183  (14111508)
       439615.21   3761328.34        0.00113  (15063019)               439665.21
 3761328.34        0.00120  (15063019)
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE 194
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
                 L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                 L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
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L0040805 , L0040806 , L0040807 , L0040808 , L0040809 , L0040810 , L0040811 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439715.21	3761328.34	0.00130	(15063019)	439765.21	3761328.34	0.00142	(15063019)
439815.21	3761328.34	0.00166	(12081723)	439865.21	3761328.34	0.00264	(12100607)
440862.15	3761300.73	0.00163	(15060905)	442015.21	3761328.34	0.00189	(13092007)
439615.21	3761378.34	0.00113	(15063019)	439665.21	3761378.34	0.00119	(15063019)
439715.21	3761378.34	0.00128	(15063019)	439765.21	3761378.34	0.00140	(15063019)
439815.21	3761378.34	0.00163	(12081723)	439865.21	3761378.34	0.00263	(12100607)
441165.21	3761378.34	0.00234	(14021808)	439615.21	3761428.34	0.00111	(15063019)
439665.21	3761428.34	0.00117	(15063019)	439715.21	3761428.34	0.00126	(15063019)
439765.21	3761428.34	0.00138	(15063019)	439815.21	3761428.34	0.00161	(12081723)
439865.21	3761428.34	0.00261	(12100607)	439948.61	3761395.68	0.00202	(15073003)
441215.21	3761428.34	0.00213	(16102406)	442015.21	3761428.34	0.00167	(15091221)
439615.21	3761478.34	0.00109	(15063019)	439665.21	3761478.34	0.00115	(15063019)
439715.21	3761478.34	0.00123	(15063019)	439765.21	3761478.34	0.00135	(15021220)
439815.21	3761478.34	0.00160	(12081723)	439865.21	3761478.34	0.00259	(12100607)
440415.21	3761478.34	0.00104	(15031221)	441965.21	3761478.34	0.00163	(15082522)
439615.21	3761528.34	0.00106	(15063019)	439665.21	3761528.34	0.00112	(15112017)
439715.21	3761528.34	0.00122	(15090919)	439765.21	3761528.34	0.00135	(15090919)
439815.21	3761528.34	0.00162	(12081723)	439865.21			

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 3761528.34        0.00258  (14071806)
       439933.91   3761525.28        0.00238  (14071806)                441965.21
 3761528.34        0.00154  (16080301)
       442015.21   3761528.34        0.00150  (16080301)                442065.21
 3761528.34        0.00150  (15082522)
       439615.21   3761578.34        0.00105  (15090919)                439665.21
 3761578.34        0.00112  (15090919)
       439715.21   3761578.34        0.00122  (15090919)                439765.21
 3761578.34        0.00136  (15090919)
       439815.21   3761578.34        0.00165  (12081723)                439865.21
 3761578.34        0.00257  (14071806)
       439948.29   3761730.30        0.00201  (15102305)                439865.21
 3761928.34        0.00249  (14071806)
       439865.21   3761978.34        0.00249  (14071806)                439937.22
 3761960.11        0.00230  (14071806)
       439938.52   3762030.30        0.00225  (14071806)                439941.98
 3762097.71        0.00215  (14071806)
       440115.21   3762128.34        0.00110  (15091923)                440165.21
 3762128.34        0.00105  (12080924)
       440215.21   3762128.34        0.00102  (12080924)                439615.21
 3762528.34        0.00100  (15102306)
       439665.21   3762528.34        0.00106  (16040703)                439715.21
 3762528.34        0.00116  (15070104)
       439765.21   3762528.34        0.00131  (12081723)                439965.21
 3762528.34        0.00181  (16072803)
       439615.21   3762578.34        0.00099  (16040703)                439665.21
 3762578.34        0.00106  (15070104)
       439715.21   3762578.34        0.00114  (15070104)                439765.21
 3762578.34        0.00128  (15070104)
       439815.21   3762578.34        0.00156  (15090822)                439865.21
 3762578.34        0.00240  (15090822)
       439965.21   3762578.34        0.00181  (16072803)                439615.21
 3762628.34        0.00098  (15070104)
       439665.21   3762628.34        0.00104  (15070104)                439715.21
 3762628.34        0.00113  (15070104)
       439765.21   3762628.34        0.00126  (14010617)                439815.21
 3762628.34        0.00153  (15090822)
       439865.21   3762628.34        0.00238  (16072222)                439965.21
 3762628.34        0.00175  (16072803)
       439615.21   3762678.34        0.00098  (15070104)                439665.21
 3762678.34        0.00103  (15070104)
       439715.21   3762678.34        0.00111  (14010617)                439765.21
 3762678.34        0.00123  (14010617)
       439815.21   3762678.34        0.00150  (15090822)                439965.21
 3762678.34        0.00165  (14091620)
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0040784 , L0040785 , L0040786 , L0040787 , L0040788 ,
L0040789 , L0040790 , L0040791 , L0040792 , L0040793 , L0040794 , L0040795 , L0040796 ,
L0040797 , L0040798 , L0040799 , L0040800 , L0040801 , L0040802 , L0040803 , L0040804 ,
L0040805 , L0040806 , L0040807 , L0040808 , L0040809 , L0040810 , L0040811 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439865.21	3762928.34	0.00134	(16072222)	439615.21	3763078.34	0.00078	(15031421)
439665.21	3763078.34	0.00085	(15091922)	439715.21	3763078.34	0.00095	(15090405)
439765.21	3763078.34	0.00104	(13083106)	439815.21	3763078.34	0.00114	(15090822)
439865.21	3763078.34	0.00123	(14091501)	439615.21	3763128.34	0.00076	(12090823)
439665.21	3763128.34	0.00084	(15091922)	439715.21	3763128.34	0.00092	(15090405)
439765.21	3763128.34	0.00102	(16103007)	439815.21	3763128.34	0.00110	(15090822)
439865.21	3763128.34	0.00119	(14091501)	439615.21	3763178.34	0.00075	(12090823)
439665.21	3763178.34	0.00084	(15091922)	439715.21	3763178.34	0.00092	(12091102)
439765.21	3763178.34	0.00101	(16102821)	439815.21	3763178.34	0.00107	(13072224)
439865.21	3763178.34	0.00115	(14091501)	439615.21	3763228.34	0.00075	(12090823)
439665.21	3763228.34	0.00083	(15091922)	439715.21	3763228.34	0.00091	(12091102)

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       439765.21   3763228.34        0.00099  (16102821)                439815.21
 3763228.34        0.00105  (16102821)
       439865.21   3763228.34        0.00112  (13083105)                439615.21
 3763278.34        0.00075  (16020920)
       439665.21   3763278.34        0.00082  (15091922)                439715.21
 3763278.34        0.00089  (12081723)
       439765.21   3763278.34        0.00097  (16102821)                439815.21
 3763278.34        0.00102  (13091202)
       439865.21   3763278.34        0.00109  (13083105)                440165.21
 3763728.34        0.00070  (12111805)
       440215.21   3763728.34        0.00065  (16062602)                442023.45
 3761048.68        0.00178  (13082621)
       445603.81   3760226.33        0.00078  (12091419)                445653.81
 3760226.33        0.00075  (12071219)
       445603.81   3760276.33        0.00083  (12071219)                445653.81
 3760276.33        0.00079  (16062406)
       445603.81   3760326.33        0.00086  (16062406)                445653.81
 3760326.33        0.00081  (15091022)
       445603.81   3760376.33        0.00087  (14062606)                445653.81
 3760376.33        0.00082  (14062606)
       445603.81   3760426.33        0.00084  (14070523)                445653.81
 3760426.33        0.00080  (14062606)
       445603.81   3760476.33        0.00080  (12090821)                445653.81
 3760476.33        0.00077  (12090821)
       445603.81   3760526.33        0.00075  (16073023)                445653.81
 3760526.33        0.00073  (16073023)
       445603.81   3760576.33        0.00069  (15101503)                445653.81
 3760576.33        0.00068  (15101503)
       445603.81   3760626.33        0.00064  (15082521)                445653.81
 3760626.33        0.00063  (15082521)
       445603.81   3760676.33        0.00059  (15082521)                445653.81
 3760676.33        0.00059  (15082521)
       445603.81   3760726.33        0.00056  (15082521)                445653.81
 3760726.33        0.00056  (15082521)
       445603.81   3760776.33        0.00054  (15082521)                445653.81
 3760776.33        0.00054  (15082521)
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:50:42

                                  PAGE 196
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
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                L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
                L0040805    , L0040806    , L0040807    , L0040808    , L0040809
 , L0040810    , L0040811    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        438915.21   3754328.34        0.00004m (13010324)               438965.21
 3754328.34        0.00004m (13010324)
        438815.21   3754378.34        0.00004m (13010324)               438865.21
 3754378.34        0.00004m (13010324)
        438915.21   3754378.34        0.00004m (13010324)               438965.21
 3754378.34        0.00004m (13010324)
        439015.21   3754378.34        0.00004m (13010324)               439065.21
 3754378.34        0.00004m (13010324)
        439115.21   3754378.34        0.00004m (13010324)               438765.21
 3754428.34        0.00004m (13010324)
        438815.21   3754428.34        0.00004m (13010324)               438865.21
 3754428.34        0.00004m (13010324)
        438915.21   3754428.34        0.00004m (13010324)               438965.21
 3754428.34        0.00004m (13010324)
        439015.21   3754428.34        0.00004m (13010324)               439065.21
 3754428.34        0.00004m (13010324)
        439115.21   3754428.34        0.00004m (13010324)               438715.21
 3754478.34        0.00004m (13010324)
        438765.21   3754478.34        0.00004m (13010324)               438815.21
 3754478.34        0.00004m (13010324)
        438865.21   3754478.34        0.00004m (13010324)               438915.21
 3754478.34        0.00004m (13010324)
        438965.21   3754478.34        0.00004m (13010324)               439015.21
 3754478.34        0.00004m (13010324)
        439065.21   3754478.34        0.00004m (13010324)               439115.21
 3754478.34        0.00004m (13010324)
        438715.21   3754528.34        0.00004m (13010324)               438765.21
 3754528.34        0.00004m (13010324)
        438815.21   3754528.34        0.00004m (13010324)               438865.21
 3754528.34        0.00004m (13010324)
        438915.21   3754528.34        0.00004m (13010324)               438965.21
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3754528.34        0.00004m (13010324)
       439015.21   3754528.34        0.00004m (13010324)                439065.21
3754528.34        0.00004m (13010324)
       438715.21   3754578.34        0.00004m (13010324)                438765.21
3754578.34        0.00004m (13010324)
       438815.21   3754578.34        0.00004m (13010324)                438865.21
3754578.34        0.00004m (13010324)
       438915.21   3754578.34        0.00004m (13010324)                438965.21
3754578.34        0.00004m (13010324)
       439015.21   3754578.34        0.00004m (13010324)                438665.21
3754678.34        0.00004m (13010324)
       438665.21   3754728.34        0.00004m (13010324)                438715.21
3754728.34        0.00004m (13010324)
       438765.21   3754728.34        0.00004m (13010324)                438765.21
3754778.34        0.00004m (13010324)
       439165.21   3755128.34        0.00004m (13010324)                439915.21
3757928.34        0.00011m (13010324)
       440215.21   3758078.34        0.00013m (13010324)                447565.21
3759878.34        0.00010  (13050124)
       439815.21   3759928.34        0.00075  (16122724)                439815.21
3759978.34        0.00077  (16122724)
       439815.21   3760028.34        0.00078  (16122724)                439815.21
3760078.34        0.00080  (16122724)
       439815.21   3760128.34        0.00082  (16122724)                445265.21
3760128.34        0.00026  (13050124)
       445315.21   3760128.34        0.00026  (13050124)                445365.21
3760128.34        0.00026  (13050124)
       445415.21   3760128.34        0.00026  (13050124)                445465.21
3760128.34        0.00025  (13050124)
       445515.21   3760128.34        0.00025  (13050124)                445565.21
3760128.34        0.00025  (13050124)
       439815.21   3760178.34        0.00084  (16122724)                445265.21
3760178.34        0.00030  (13050124)
       445315.21   3760178.34        0.00030  (13050124)                445365.21
3760178.34        0.00029  (13050124)
       445415.21   3760178.34        0.00029  (13050124)                445465.21
3760178.34        0.00029  (13050124)
       445515.21   3760178.34        0.00028  (13050124)                445565.21
3760178.34        0.00027  (13050124)
       445265.21   3760228.34        0.00035  (13050124)                445315.21
3760228.34        0.00035  (13050124)
       445365.21   3760228.34        0.00034  (13050124)                445415.21
3760228.34        0.00033  (13050124)
       445465.21   3760228.34        0.00032  (13050124)                445515.21
3760228.34        0.00031  (13050124)
       445565.21   3760228.34        0.00030  (13050124)                445265.21
3760278.34        0.00044  (13050124)
       445315.21   3760278.34        0.00043  (13050124)                445365.21
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 3760278.34   0.00041 (13050124)
↑ *** AERMOD - VERSION 19191 ***   *** C:\Lakes\AERMOD View\SOL_operations_rev2\SOL_operations_rev2.isc   ***   03/09/21
 *** AERMET - VERSION 16216 ***   ***   ***   17:50:42

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0040784   , L0040785
 , L0040786   , L0040787   , L0040788   ,
                 L0040789   , L0040790   , L0040791   , L0040792   , L0040793
 , L0040794   , L0040795   , L0040796   ,
                 L0040797   , L0040798   , L0040799   , L0040800   , L0040801
 , L0040802   , L0040803   , L0040804   ,
                 L0040805   , L0040806   , L0040807   , L0040808   , L0040809
 , L0040810   , L0040811   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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       444715.21   3760428.34        0.00178  (12120624)                444765.21
3760428.34        0.00170  (12120624)
       444815.21   3760428.34        0.00163  (12120624)                444865.21
3760428.34        0.00156  (12120624)
       444915.21   3760428.34        0.00152  (12120624)                444965.21
3760428.34        0.00147  (12120624)
       445015.21   3760428.34        0.00142  (12120624)                445065.21
3760428.34        0.00136  (12120624)
       445115.21   3760428.34        0.00129c (12121724)                445165.21
3760428.34        0.00116c (12121724)
       445265.21   3760428.34        0.00078m (12050224)                445315.21
3760428.34        0.00062m (12050224)
       445365.21   3760428.34        0.00052m (12050224)                445415.21
3760428.34        0.00045m (12050224)
       445465.21   3760428.34        0.00040m (12050224)                445515.21
3760428.34        0.00036m (12050224)
       445565.21   3760428.34        0.00033m (12050224)                444665.21
3760478.34        0.00078c (12121724)
       444715.21   3760478.34        0.00077c (12121724)                444765.21
3760478.34        0.00076c (12121724)
       444815.21   3760478.34        0.00074c (12121724)                444865.21
3760478.34        0.00073  (13111924)
       444915.21   3760478.34        0.00071  (13111924)                444965.21
3760478.34        0.00070  (13111924)
       445015.21   3760478.34        0.00068  (13111924)                445065.21
3760478.34        0.00066  (13111924)
       445115.21   3760478.34        0.00064  (12120224)                445165.21
3760478.34        0.00062m (12050224)
       445265.21   3760478.34        0.00058m (12050224)                445315.21
3760478.34        0.00055m (12050224)
       445365.21   3760478.34        0.00050m (12050224)                445415.21
3760478.34        0.00045m (12050224)
       445465.21   3760478.34        0.00041m (12050224)                445515.21
3760478.34        0.00038m (12050224)
       445565.21   3760478.34        0.00035m (12050224)                443434.87
3760505.41        0.00124  (12120624)
       443519.04   3760505.41        0.00123  (12120624)                443548.29
3760505.41        0.00123  (12120624)
       443736.51   3760500.50        0.00134  (12120624)                443823.40
3760503.23        0.00128  (12120624)
       444665.21   3760528.34        0.00054  (13111924)                444715.21
3760528.34        0.00054  (13111924)
       444765.21   3760528.34        0.00053  (13111924)                444815.21
3760528.34        0.00052  (13111924)
       444865.21   3760528.34        0.00052  (13111924)                444915.21
3760528.34        0.00051m (12050224)
       444965.21   3760528.34        0.00050m (12050224)                445015.21
3760528.34        0.00050m (12050224)
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       445065.21   3760528.34        0.00049m (12050224)                445115.21
 3760528.34        0.00048m (12050224)
       445165.21   3760528.34        0.00048m (12050224)                445265.21
 3760528.34        0.00046m (12050224)
       445315.21   3760528.34        0.00045m (12050224)                445365.21
 3760528.34        0.00044m (12050224)
       445415.21   3760528.34        0.00042m (12050224)                445465.21
 3760528.34        0.00039m (12050224)
       445515.21   3760528.34        0.00037m (12050224)                445565.21
 3760528.34        0.00035m (12050224)
       444665.21   3760578.34        0.00044m (12050224)                444715.21
 3760578.34        0.00044m (12050224)
       444765.21   3760578.34        0.00044m (12050224)                444815.21
 3760578.34        0.00043m (12050224)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
                 L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                 L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
                 L0040805    , L0040806    , L0040807    , L0040808    , L0040809
 , L0040810    , L0040811    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       444865.21   3760578.34        0.00043m (12050224)                444915.21
 3760578.34        0.00043m (12050224)
       444965.21   3760578.34        0.00042m (12050224)                445015.21
 3760578.34        0.00042m (12050224)
       445065.21   3760578.34        0.00041m (12050224)                445115.21
```

3760578.34 0.00041m (12050224)
445165.21 3760578.34 0.00040m (12050224) 445265.21
3760578.34 0.00039m (12050224)
445315.21 3760578.34 0.00039m (12050224) 445365.21
3760578.34 0.00038m (12050224)
445415.21 3760578.34 0.00037m (12050224) 445465.21
3760578.34 0.00036m (12050224)
445515.21 3760578.34 0.00035m (12050224) 445565.21
3760578.34 0.00033m (12050224)
444665.21 3760628.34 0.00039m (12050224) 444715.21
3760628.34 0.00039m (12050224)
444765.21 3760628.34 0.00039m (12050224) 444815.21
3760628.34 0.00038m (12050224)
444865.21 3760628.34 0.00038m (12050224) 444915.21
3760628.34 0.00038m (12050224)
444965.21 3760628.34 0.00037m (12050224) 445015.21
3760628.34 0.00037m (12050224)
445065.21 3760628.34 0.00036m (12050224) 445115.21
3760628.34 0.00036m (12050224)
445165.21 3760628.34 0.00036m (12050224) 445265.21
3760628.34 0.00035m (12050224)
445315.21 3760628.34 0.00034m (12050224) 445365.21
3760628.34 0.00034m (12050224)
445415.21 3760628.34 0.00034m (12050224) 445465.21
3760628.34 0.00033m (12050224)
445515.21 3760628.34 0.00032m (12050224) 445565.21
3760628.34 0.00031m (12050224)
444665.21 3760678.34 0.00036m (12050224) 444715.21
3760678.34 0.00036m (12050224)
444765.21 3760678.34 0.00035m (12050224) 444815.21
3760678.34 0.00035m (12050224)
444865.21 3760678.34 0.00035m (12050224) 444915.21
3760678.34 0.00034m (12050224)
444965.21 3760678.34 0.00034m (12050224) 445015.21
3760678.34 0.00034m (12050224)
445065.21 3760678.34 0.00033m (12050224) 445115.21
3760678.34 0.00033m (12050224)
445165.21 3760678.34 0.00032m (12050224) 445265.21
3760678.34 0.00032m (12050224)
445315.21 3760678.34 0.00031m (12050224) 445365.21
3760678.34 0.00031m (12050224)
445415.21 3760678.34 0.00031m (12050224) 445465.21
3760678.34 0.00030m (12050224)
445515.21 3760678.34 0.00030m (12050224) 445565.21
3760678.34 0.00029m (12050224)
444665.21 3760728.34 0.00034m (12050224) 444715.21
3760728.34 0.00034m (12050224)
444765.21 3760728.34 0.00033m (12050224) 444815.21

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 3760728.34        0.00032m (12050224)
       444865.21   3760728.34        0.00032m (12050224)               444915.21
 3760728.34        0.00032m (12050224)
       444965.21   3760728.34        0.00031m (12050224)               445015.21
 3760728.34        0.00031m (12050224)
       445065.21   3760728.34        0.00031m (12050224)               445115.21
 3760728.34        0.00030m (12050224)
       445165.21   3760728.34        0.00030m (12050224)               445265.21
 3760728.34        0.00030m (12050224)
       445315.21   3760728.34        0.00029m (12050224)               445365.21
 3760728.34        0.00029m (12050224)
       445415.21   3760728.34        0.00029m (12050224)               445465.21
 3760728.34        0.00029m (12050224)
       445515.21   3760728.34        0.00028m (12050224)               445565.21
 3760728.34        0.00028m (12050224)
       444665.21   3760778.34        0.00032m (12050224)               444715.21
 3760778.34        0.00032m (12050224)
       444765.21   3760778.34        0.00031m (12050224)               444815.21
 3760778.34        0.00031m (12050224)
       444865.21   3760778.34        0.00031m (12050224)               444915.21
 3760778.34        0.00030m (12050224)
       444965.21   3760778.34        0.00030m (12050224)               445015.21
 3760778.34        0.00030m (12050224)
       445065.21   3760778.34        0.00029m (12050224)               445115.21
 3760778.34        0.00029m (12050224)
       445165.21   3760778.34        0.00029m (12050224)               445265.21
 3760778.34        0.00028m (12050224)
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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                                  PAGE 199
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0040784    , L0040785
 , L0040786    , L0040787    , L0040788    ,
                 L0040789    , L0040790    , L0040791    , L0040792    , L0040793
 , L0040794    , L0040795    , L0040796    ,
                 L0040797    , L0040798    , L0040799    , L0040800    , L0040801
 , L0040802    , L0040803    , L0040804    ,
                 L0040805    , L0040806    , L0040807    , L0040808    , L0040809
 , L0040810    , L0040811    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
445315.21	3760778.34	0.00028m	(12050224)	445365.21	3760778.34	0.00027m	(12050224)
445415.21	3760778.34	0.00027m	(12050224)	445465.21	3760778.34	0.00027m	(12050224)
445515.21	3760778.34	0.00027m	(12050224)	445565.21	3760778.34	0.00027m	(12050224)
439615.21	3760878.34	0.00054	(12122024)	439665.21	3760878.34	0.00059	(12122024)
439715.21	3760878.34	0.00066	(12122024)	439765.21	3760878.34	0.00077	(12122024)
439815.21	3760878.34	0.00097	(12122024)	439865.21	3760878.34	0.00162	(13122124)
439615.21	3760928.34	0.00053	(12122024)	439665.21	3760928.34	0.00059	(12122024)
439715.21	3760928.34	0.00066	(12122024)	439765.21	3760928.34	0.00077	(12122024)
439815.21	3760928.34	0.00097	(12122024)	439865.21	3760928.34	0.00161	(13122124)
439615.21	3760978.34	0.00053	(12122024)	439665.21	3760978.34	0.00059	(12122024)
439715.21	3760978.34	0.00066	(12122024)	439765.21	3760978.34	0.00077	(12122024)
439815.21	3760978.34	0.00097	(12122024)	439865.21	3760978.34	0.00161	(13122124)
439615.21	3761028.34	0.00053	(12122024)	439665.21	3761028.34	0.00058	(12122024)
439715.21	3761028.34	0.00066	(12122024)	439765.21	3761028.34	0.00077	(12122024)
439815.21	3761028.34	0.00096	(12122024)	439865.21	3761028.34	0.00160	(13122124)
442026.18	3761011.86	0.00109	(12120224)	439615.21	3761078.34	0.00053	(12122024)
439665.21	3761078.34	0.00058	(12122024)	439715.21	3761078.34	0.00065	(12122024)
439765.21	3761078.34	0.00076	(12122024)	439815.21	3761078.34	0.00096	(12122024)
439865.21	3761078.34	0.00159	(13122124)	439615.21	3761128.34	0.00053	(12122024)
439665.21	3761128.34	0.00058	(12122024)	439715.21	3761128.34	0.00065	(12122024)

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       439765.21   3761128.34        0.00076  (12122024)                439815.21
 3761128.34        0.00096  (12122024)
       439865.21   3761128.34        0.00159  (13122124)                439615.21
 3761178.34        0.00052  (12122024)
       439665.21   3761178.34        0.00058  (12122024)                439715.21
 3761178.34        0.00065  (12122024)
       439765.21   3761178.34        0.00076  (12122024)                439815.21
 3761178.34        0.00095  (12122024)
       439865.21   3761178.34        0.00158  (13122124)                439615.21
 3761228.34        0.00052  (12122024)
       439665.21   3761228.34        0.00057  (12122024)                439715.21
 3761228.34        0.00064  (12122024)
       439765.21   3761228.34        0.00075  (12122024)                439815.21
 3761228.34        0.00095  (12122024)
       439865.21   3761228.34        0.00158  (13122124)                440165.21
 3761228.34        0.00049  (12122024)
       440215.21   3761228.34        0.00049  (12122024)                440265.21
 3761228.34        0.00050  (12122024)
       440615.21   3761228.34        0.00066  (12122024)                440665.21
 3761228.34        0.00070  (12122024)
       440715.21   3761228.34        0.00077  (13012524)                442027.40
 3761229.63        0.00124  (12120224)
       442665.21   3761228.34        0.00050m (12050224)                442865.21
 3761228.34        0.00045m (12050224)
       442965.21   3761228.34        0.00042m (12050224)                443065.21
 3761228.34        0.00041m (12050224)
       443265.21   3761228.34        0.00038m (12050224)                439615.21
 3761278.34        0.00052  (12122024)
       439665.21   3761278.34        0.00057  (12122024)                439715.21
 3761278.34        0.00064  (12122024)
       439765.21   3761278.34        0.00075  (12122024)                439815.21
 3761278.34        0.00094  (12122024)
       439865.21   3761278.34        0.00157  (13122124)                440263.68
 3761292.14        0.00047  (12122024)
       440322.11   3761293.68        0.00048  (12122024)                440565.21
 3761299.81        0.00055  (12011324)
       440756.01   3761299.04        0.00072  (13012524)                440968.28
 3761294.45        0.00093  (13012524)
       439615.21   3761328.34        0.00051  (12122024)                439665.21
 3761328.34        0.00056  (12122024)
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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0040784 , L0040785 , L0040786 , L0040787 , L0040788 , L0040789 , L0040790 , L0040791 , L0040792 , L0040793 , L0040794 , L0040795 , L0040796 , L0040797 , L0040798 , L0040799 , L0040800 , L0040801 , L0040802 , L0040803 , L0040804 , L0040805 , L0040806 , L0040807 , L0040808 , L0040809 , L0040810 , L0040811 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439715.21	3761328.34	0.00063	(12122024)	439765.21	3761328.34	0.00074	(12122024)
439815.21	3761328.34	0.00093	(12122024)	439865.21	3761328.34	0.00156	(13122124)
440862.15	3761300.73	0.00081	(13012524)	442015.21	3761328.34	0.00099	(12120224)
439615.21	3761378.34	0.00050	(12122024)	439665.21	3761378.34	0.00055	(12122024)
439715.21	3761378.34	0.00062	(12122024)	439765.21	3761378.34	0.00073	(12122024)
439815.21	3761378.34	0.00092	(12122024)	439865.21	3761378.34	0.00155	(13122124)
441165.21	3761378.34	0.00084	(13012524)	439615.21	3761428.34	0.00050	(12122024)
439665.21	3761428.34	0.00055	(12122024)	439715.21	3761428.34	0.00061	(12122024)
439765.21	3761428.34	0.00072	(12122024)	439815.21	3761428.34	0.00090	(12122024)
439865.21	3761428.34	0.00154	(13122124)	439948.61	3761395.68	0.00113c	(14012124)
441215.21	3761428.34	0.00071m	(14021824)	442015.21	3761428.34	0.00079m	(16031424)
439615.21	3761478.34	0.00049	(12122024)	439665.21	3761478.34	0.00054	(12122024)
439715.21	3761478.34	0.00060	(12122024)	439765.21	3761478.34	0.00071	(12122024)
439815.21	3761478.34	0.00089	(12122024)	439865.21			

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3761478.34        0.00153  (12120624)
       440415.21   3761478.34        0.00043  (12020424)                441965.21
3761478.34        0.00076m (16031424)
       439615.21   3761528.34        0.00048  (12122024)                439665.21
3761528.34        0.00053  (12122024)
       439715.21   3761528.34        0.00059  (12122024)                439765.21
3761528.34        0.00069  (12122024)
       439815.21   3761528.34        0.00088  (12122024)                439865.21
3761528.34        0.00152  (12120624)
       439933.91   3761525.28        0.00139c (14012124)                441965.21
3761528.34        0.00070m (16031424)
       442015.21   3761528.34        0.00068m (16031424)                442065.21
3761528.34        0.00067m (16031424)
       439615.21   3761578.34        0.00047  (12122024)                439665.21
3761578.34        0.00051  (12122024)
       439715.21   3761578.34        0.00058  (12122024)                439765.21
3761578.34        0.00068  (12122024)
       439815.21   3761578.34        0.00087  (12122024)                439865.21
3761578.34        0.00152  (12120624)
       439948.29   3761730.30        0.00111  (12120624)                439865.21
3761928.34        0.00147  (12120624)
       439865.21   3761978.34        0.00146  (12120624)                439937.22
3761960.11        0.00131  (12120624)
       439938.52   3762030.30        0.00129  (12120624)                439941.98
3762097.71        0.00122  (12120624)
       440115.21   3762128.34        0.00043c (12121724)                440165.21
3762128.34        0.00038c (12121724)
       440215.21   3762128.34        0.00035  (12120624)                439615.21
3762528.34        0.00037  (12020424)
       439665.21   3762528.34        0.00040  (12020424)                439715.21
3762528.34        0.00045  (12020424)
       439765.21   3762528.34        0.00054  (12020424)                439965.21
3762528.34        0.00084c (12121724)
       439615.21   3762578.34        0.00035  (12020424)                439665.21
3762578.34        0.00038  (12020424)
       439715.21   3762578.34        0.00043  (12020424)                439765.21
3762578.34        0.00051  (12020424)
       439815.21   3762578.34        0.00067  (12020424)                439865.21
3762578.34        0.00131  (12120624)
       439965.21   3762578.34        0.00081c (12121724)                439615.21
3762628.34        0.00034  (12020424)
       439665.21   3762628.34        0.00037  (12020424)                439715.21
3762628.34        0.00041  (12020424)
       439765.21   3762628.34        0.00048  (12020424)                439815.21
3762628.34        0.00061  (12020424)
       439865.21   3762628.34        0.00122  (12120624)                439965.21
3762628.34        0.00076c (12121724)
       439615.21   3762678.34        0.00032  (12020424)                439665.21
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 3762678.34   0.00034 (12020424)
       439715.21   3762678.34   0.00038 (12020424)   439765.21
 3762678.34   0.00043 (12020424)
       439815.21   3762678.34   0.00054 (12020424)   439965.21
 3762678.34   0.00064c (12121724)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0040784   , L0040785
 , L0040786   , L0040787   , L0040788   ,
                 L0040789   , L0040790   , L0040791   , L0040792   , L0040793
 , L0040794   , L0040795   , L0040796   ,
                 L0040797   , L0040798   , L0040799   , L0040800   , L0040801
 , L0040802   , L0040803   , L0040804   ,
                 L0040805   , L0040806   , L0040807   , L0040808   , L0040809
 , L0040810   , L0040811   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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       439665.21   3763178.34        0.00018  (12120624)                439715.21
 3763178.34        0.00018  (12120624)
       439765.21   3763178.34        0.00018m (14021824)                439815.21
 3763178.34        0.00018m (15011124)
       439865.21   3763178.34        0.00018m (15011124)                439615.21
 3763228.34        0.00017  (12120624)
       439665.21   3763228.34        0.00017  (12120624)                439715.21
 3763228.34        0.00017  (12120624)
       439765.21   3763228.34        0.00017m (14021824)                439815.21
 3763228.34        0.00017m (15011124)
       439865.21   3763228.34        0.00018m (15011124)                439615.21
 3763278.34        0.00016  (12120624)
       439665.21   3763278.34        0.00017  (12120624)                439715.21
 3763278.34        0.00016  (12120624)
       439765.21   3763278.34        0.00016m (15011124)                439815.21
 3763278.34        0.00017m (15011124)
       439865.21   3763278.34        0.00017m (15011124)                440165.21
 3763728.34        0.00011  (12022524)
       440215.21   3763728.34        0.00010  (12022524)                442023.45
 3761048.68        0.00106m (16031424)
       445603.81   3760226.33        0.00029  (13050124)                445653.81
 3760226.33        0.00028  (13050124)
       445603.81   3760276.33        0.00031  (13050124)                445653.81
 3760276.33        0.00029  (13050124)
       445603.81   3760326.33        0.00032  (13050124)                445653.81
 3760326.33        0.00030  (13050124)
       445603.81   3760376.33        0.00032  (13050124)                445653.81
 3760376.33        0.00030  (13050124)
       445603.81   3760426.33        0.00031m (12050224)                445653.81
 3760426.33        0.00029m (12050224)
       445603.81   3760476.33        0.00033m (12050224)                445653.81
 3760476.33        0.00031m (12050224)
       445603.81   3760526.33        0.00034m (12050224)                445653.81
 3760526.33        0.00032m (12050224)
       445603.81   3760576.33        0.00033m (12050224)                445653.81
 3760576.33        0.00031m (12050224)
       445603.81   3760626.33        0.00031m (12050224)                445653.81
 3760626.33        0.00030m (12050224)
       445603.81   3760676.33        0.00029m (12050224)                445653.81
 3760676.33        0.00029m (12050224)
       445603.81   3760726.33        0.00028m (12050224)                445653.81
 3760726.33        0.00027m (12050224)
       445603.81   3760776.33        0.00026m (12050224)                445653.81
 3760776.33        0.00026m (12050224)
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View\SOL_operations_rev2\SOL_operations_rev2.isc     ***        03/09/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	NETWORK AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00114	AT (444715.21, 3760428.34, 202.28, 202.28, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00109	AT (444765.21, 3760428.34, 201.49, 201.49, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00105	AT (444815.21, 3760428.34, 201.23, 201.23, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00101	AT (444865.21, 3760428.34, 201.45, 201.45, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00099	AT (444915.21, 3760428.34, 201.49, 201.49, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00096	AT (444965.21, 3760428.34, 202.04, 202.04, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00093	AT (445015.21, 3760428.34, 201.93, 201.93, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00090	AT (439933.91, 3761525.28, 205.17, 205.17, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00089	AT (445065.21, 3760428.34, 201.85, 201.85, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00089	AT (443736.51, 3760500.50, 203.93, 203.93, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH	1ST HIGH VALUE IS	0.00330	ON 13041207: AT (444715.21, 3760428.34, 202.28, 202.28, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\SOL_operations_rev2\SOL_operations_rev2.isc *** 03/09/21
*** AERMET - VERSION 16216 *** *** *** 17:50:42

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID

ALL   HIGH   1ST HIGH VALUE IS   0.00178 ON 12120624: AT (444715.21,
3760428.34,   202.28,   202.28,   0.00) DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 19191 ***   *** C:\Lakes\AERMOD
View\SOL_operations_rev2\SOL_operations_rev2.isc   ***   03/09/21
 *** AERMET - VERSION 16216 ***   ***
                       ***   17:50:42

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   999 Warning Message(s)
 A Total of   1279 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   917 Calm Hours Identified

 A Total of   362 Missing Hours Identified (0.83 Percent)

    ******** FATAL ERROR MESSAGES ********
               *** NONE ***

    ********   WARNING MESSAGES   ********
 SO W320   8559   VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320   8560   VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320   8561   VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320   8562   VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320   8563   VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS
 SO W320   8564   VPARM: Input Parameter May Be Out-of-Range for Parameter
        QS

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SO W320    8565        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8566        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8567        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8568        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8569        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8570        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8571        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8572        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8573        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8574        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8575        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8576        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8577        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8578        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8581        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8582        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8583        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8584        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8585        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8586        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8587        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8588        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8589        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8590        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
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SO W320    8591        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8592        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8593        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8594        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8595        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8596        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8597        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8598        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8599        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8600        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8603        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8604        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8605        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8606        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8607        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8608        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8609        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8610        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8611        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8612        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8613        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8614        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8615        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8616        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
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SO W320    8617        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8618        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8619        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8620        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8621        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8622        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8623        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8624        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8627        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8628        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8629        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8630        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8631        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8632        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8633        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8634        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8635        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8636        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8637        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8638        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8639        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8640        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8641        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8642        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8643        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8644        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8646        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8648        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8651        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8652        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8653        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8654        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8657        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8658        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8659        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8660        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8661        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8662        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8663        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8664        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8665        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8666        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8667        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8668        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8669        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8670        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8671        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8674        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8675        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8676        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8677        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8679        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8680        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8681        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8682        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8683        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8684        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8685        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8686        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8687        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8688        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8689        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8690        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8691        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8692        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8693        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8694        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8695        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8696        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8698        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8700        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8701        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8702        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8703        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8704        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8705        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8706        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8707        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8708        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8709        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8710        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8711        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8712        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8713        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8714        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8715        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8716        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8717        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8718        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8719        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8720        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8721        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8722        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8723        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8724        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8725        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8731        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8733        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8740        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8741        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8742        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8743        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8744        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8745        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8746        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8747        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8748        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8749        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8750        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8751        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8752        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8753        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8754        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8755        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8756        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8758        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8759        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8760        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8761        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8763        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8764        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8765        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8766        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8767        VPARM: Input Parameter May Be Out-of-Range for Parameter
       QS
SO W320    8768        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8769        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8772        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8773        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8774        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8775        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8776        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8783        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8784        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8785        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8790        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8791        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8792        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8793        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8794        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8800        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8802        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8803        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8809        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8810        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8811        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8812        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8813        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8815        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8816        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8817        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8818        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8819        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8820        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8821        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8822        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8823        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8824        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8825        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8826        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8827        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8828        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8829        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8830        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8831        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8832        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8833        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8834        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8835        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8836        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8837        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8838        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8839        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8840        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8841        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8842        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8843        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8844        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8845        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8849        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8850        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8851        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8856        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8857        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8858        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8859        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8860        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8861        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8862        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8863        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8864        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8865        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8866        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8867        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8870        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8888        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8889        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8915        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8916        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8939        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8963        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8964        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8965        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8966        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8989        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8990        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    8991        VPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320    9013        VPARM: Input Parameter May Be Out-of-Range for Parameter
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   ***********************************
   *** AERMOD Finishes Successfully ***
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*HARP - HRACalc v19044 3/9/2021 9:31:33 AM - Cancer Risk - Input File: K:\ORA_AQN\195242001 - South Ontario Logistics\5 HRA\5.2 Models\RISK\Construction\Const_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK
1			9901	DieselExhPM	0.03026	8.80E-06	2YrCancerDerive	*	8.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	2YrCancerDerive	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 3/9/2021 9:31:33 AM - Chronic Risk - Input File: K:\ORA_AQN\195242001 - South Ontario Logistics\5 HRA\5.2 Models\RISK\Construction\Const_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD
1			9901	DieselExhPM	0.03026	NonCancerChronicI	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancerChronicI	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 3/9/2021 9:31:33 AM - Acute Risk - Input File: K:\ORA_AQN\195242001 - South Ontario Logistics\5 HRA\5.2 Models\RISK\Construction\Const_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE┐	ENDO	BLOOD
1			9901	DieselExhPM	0	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.083	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-02	0.00E+00	3.32E-02	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 3/16/2021 9:13:12 AM - Cancer Risk - Input File: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\SOL\PM10_SOL_operationsHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK
1			9901	DieselExhPM	0.00161	1.39E-06	30YrCancer	*	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	30YrCancer	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 3/16/2021 9:13:12 AM - Acute Risk - Input File: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\SOL\PM10_SOL_operationsHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD
1			9901	DieselExhPM	0	NonCancerAc	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.00697	NonCancerAc	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 3/16/2021 9:13:12 AM - Chronic Risk - Input File: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\SOL\PM10_SOL_operationsHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD
1			9901	DieselExhPM	0.00161	NonCancerCh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancerCh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

APPENDIX B3

GREENHOUSE GAS EMISSIONS MODEL DATA

South Ontario Logistics Center Phase 1 - No Mitigation

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Annual

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - SCAQMD Rule 1113 - low VOC paint

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use 5830/601.128 ksf= 9.69843361147708973795930317669 45 , truck trip rate shown under unrefrigerated w/h 1402/2237.337 ksf = 0.626637828811663151326778218927 23

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation -

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total), 1 yard truck per building (8 total) 200 hp average

Fleet Mix - Refer to TIA for Fleet Mix, cars under industrial park, trucks under unrefrigerated warehouse

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	40.00
tblConstructionPhase	NumDays	120.00	50.00
tblConstructionPhase	NumDays	310.00	80.00
tblConstructionPhase	NumDays	3,100.00	113.00
tblConstructionPhase	NumDays	220.00	90.00
tblConstructionPhase	NumDays	220.00	90.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.12
tblFleetMix	HHD	0.06	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.80
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9390e-003	0.00
tblFleetMix	LHD2	4.9390e-003	0.04
tblFleetMix	LHD2	4.9390e-003	0.22
tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MCY	5.8070e-003	0.00

tblFleetMix	MCY	5.8070e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MH	8.8400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	OBUS	1.3640e-003	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	SBUS	8.0300e-004	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblFleetMix	UBUS	1.5280e-003	0.00
tblLandUse	LandUseSquareFeet	601,130.00	601,128.00
tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
tblLandUse	LandUseSquareFeet	636,411.60	616,896.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	96.00

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	510.44
tblVehicleEF	HHD	0.91	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.24	6.40
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.77	3.8150e-003
tblVehicleEF	HHD	6,625.94	1,077.53
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.87	5.51
tblVehicleEF	HHD	1.27	2.53
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	5.8970e-003	2.9090e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	5.6420e-003	2.7830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.59	0.43

tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	9.8880e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	8.0000e-005	4.0000e-006
tblVehicleEF	HHD	3.0010e-003	1.3400e-004
tblVehicleEF	HHD	0.68	0.50
tblVehicleEF	HHD	4.9000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9500e-004	6.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.86	0.03
tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	1.63	6.31
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.66	3.6010e-003
tblVehicleEF	HHD	7,019.59	1,065.64
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	19.48	5.27
tblVehicleEF	HHD	1.19	2.38
tblVehicleEF	HHD	20.19	2.40
tblVehicleEF	HHD	4.9720e-003	2.5370e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	4.7570e-003	2.4270e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.56	0.45
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	9.7740e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.2000e-005	0.00
tblVehicleEF	HHD	1.5700e-004	8.0000e-006
tblVehicleEF	HHD	3.3690e-003	1.5200e-004
tblVehicleEF	HHD	0.64	0.53
tblVehicleEF	HHD	1.0900e-004	5.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	1.9900e-004	6.8000e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.98	0.03

tblVehicleEF	HHD	0.03	0.13
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.08	6.53
tblVehicleEF	HHD	0.51	0.54
tblVehicleEF	HHD	1.75	3.7850e-003
tblVehicleEF	HHD	6,082.32	1,093.94
tblVehicleEF	HHD	1,429.26	1,400.68
tblVehicleEF	HHD	5.49	0.03
tblVehicleEF	HHD	18.04	5.84
tblVehicleEF	HHD	1.25	2.49
tblVehicleEF	HHD	20.20	2.40
tblVehicleEF	HHD	7.1750e-003	3.4230e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.3020e-003	0.02
tblVehicleEF	HHD	5.0000e-005	1.0000e-006
tblVehicleEF	HHD	6.8650e-003	3.2750e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8800e-003	8.8300e-003
tblVehicleEF	HHD	5.0730e-003	0.02
tblVehicleEF	HHD	4.6000e-005	1.0000e-006
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.64	0.39
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.06	0.03
tblVehicleEF	HHD	2.1000e-004	6.9500e-004

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	8.4000e-005	0.00
tblVehicleEF	HHD	7.9000e-005	4.0000e-006
tblVehicleEF	HHD	3.2490e-003	1.5600e-004
tblVehicleEF	HHD	0.74	0.46
tblVehicleEF	HHD	4.9000e-005	3.0000e-006
tblVehicleEF	HHD	0.10	0.16
tblVehicleEF	HHD	2.1000e-004	6.9500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	3.7920e-003	2.2110e-003
tblVehicleEF	LDA	4.9090e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.08	2.05
tblVehicleEF	LDA	240.90	255.40
tblVehicleEF	LDA	55.00	52.15
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.5230e-003	8.2230e-003

tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.20
tblVehicleEF	LDA	2.4120e-003	2.5270e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	4.3170e-003	2.4970e-003
tblVehicleEF	LDA	4.0940e-003	0.04
tblVehicleEF	LDA	0.66	0.75
tblVehicleEF	LDA	0.90	1.73
tblVehicleEF	LDA	263.54	276.52
tblVehicleEF	LDA	55.00	51.54
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.1980e-003
tblVehicleEF	LDA	0.03	0.20

tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	2.6400e-003	2.7360e-003
tblVehicleEF	LDA	5.6500e-004	5.1000e-004
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.6890e-003	2.1660e-003
tblVehicleEF	LDA	4.8790e-003	0.05
tblVehicleEF	LDA	0.51	0.60
tblVehicleEF	LDA	1.07	2.05
tblVehicleEF	LDA	235.55	251.48
tblVehicleEF	LDA	55.00	52.16
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.6440e-003	1.4500e-003
tblVehicleEF	LDA	2.2570e-003	1.7800e-003
tblVehicleEF	LDA	1.5150e-003	1.3350e-003
tblVehicleEF	LDA	2.0760e-003	1.6360e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	9.2680e-003	8.0540e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.20

tblVehicleEF	LDA	2.3580e-003	2.4880e-003
tblVehicleEF	LDA	5.6800e-004	5.1600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDT1	0.01	6.5150e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.39	1.35
tblVehicleEF	LDT1	3.24	2.30
tblVehicleEF	LDT1	303.22	303.32
tblVehicleEF	LDT1	68.97	63.33
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.23	0.38
tblVehicleEF	LDT1	3.0500e-003	3.0020e-003

tblVehicleEF	LDT1	7.4700e-004	6.2700e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT1	0.01	7.2830e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.66	1.60
tblVehicleEF	LDT1	2.67	1.93
tblVehicleEF	LDT1	330.40	325.24
tblVehicleEF	LDT1	68.97	62.56
tblVehicleEF	LDT1	0.13	0.10
tblVehicleEF	LDT1	0.18	0.25
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.19	0.33
tblVehicleEF	LDT1	3.3250e-003	3.2180e-003
tblVehicleEF	LDT1	7.3700e-004	6.1900e-004

tblVehicleEF	LDT1	0.35	0.33
tblVehicleEF	LDT1	0.39	0.28
tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24
tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17

tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06

tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003

tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
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tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67

tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
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tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
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tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
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tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6000e-004	8.4000e-005
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003

tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
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tblVehicleEF	LHD2	0.44	0.45
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tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003

tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96
tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003

tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90
tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004

tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13
tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57

tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75
tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16

tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18

tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40

tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07

tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
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tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15

tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
tblVehicleEF	MHD	0.02	2.4600e-003
tblVehicleEF	MHD	2.7940e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.3210e-003
tblVehicleEF	MHD	0.30	0.31
tblVehicleEF	MHD	0.23	0.15
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tblVehicleEF	MHD	153.99	65.44
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.30
tblVehicleEF	MHD	0.42	0.37
tblVehicleEF	MHD	0.60	1.02
tblVehicleEF	MHD	11.91	1.85
tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.1400e-004	3.2600e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
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tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004

tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
tblVehicleEF	MHD	4.51	0.67
tblVehicleEF	MHD	163.11	65.24
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003

tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
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tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03
tblVehicleEF	MHD	1.5660e-003	6.1800e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	5.9600e-004	6.2000e-005
tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
tblVehicleEF	MHD	0.42	0.36
tblVehicleEF	MHD	0.23	0.15
tblVehicleEF	MHD	4.75	0.71

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tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
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tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
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tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.53
tblVehicleEF	OBUS	0.53	0.63
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tblVehicleEF	OBUS	64.52	73.26
tblVehicleEF	OBUS	1,113.30	1,377.70
tblVehicleEF	OBUS	70.49	20.23
tblVehicleEF	OBUS	0.12	0.27
tblVehicleEF	OBUS	0.43	0.96
tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12

tblVehicleEF	OBUS	6.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.7700e-003
tblVehicleEF	OBUS	8.4240e-003	5.1990e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.53
tblVehicleEF	OBUS	0.55	0.64
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tblVehicleEF	OBUS	67.33	72.47
tblVehicleEF	OBUS	1,113.30	1,377.73
tblVehicleEF	OBUS	70.49	19.94
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003

tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
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tblVehicleEF	OBUS	6.5500e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9700e-004
tblVehicleEF	OBUS	4.0560e-003	4.6180e-003
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tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
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tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.53	0.63
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tblVehicleEF	OBUS	1,113.30	1,377.70
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tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
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tblVehicleEF	OBUS	0.03	0.05
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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
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tblVehicleEF	OBUS	0.05	0.31
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tblVehicleEF	SBUS	0.84	0.06

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tblVehicleEF	SBUS	0.06	6.2470e-003
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tblVehicleEF	SBUS	14.81	0.97
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tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
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tblVehicleEF	SBUS	14.78	0.97
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003

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tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
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tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
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tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
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tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
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tblVehicleEF	SBUS	8.2040e-003	0.05
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tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
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tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68

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tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12

tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003

tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34
tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03

tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76
tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004

tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00

tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2571	2.7527	1.8954	4.4700e-003	0.9629	0.1172	1.0801	0.4002	0.1081	0.5083	0.0000	398.2401	398.2401	0.1055	0.0000	400.8774
2023	8.4445	5.8024	7.4305	0.0313	2.2110	0.0920	2.3031	0.5927	0.0859	0.6786	0.0000	2,893.3867	2,893.3867	0.1780	0.0000	2,897.8366
Maximum	**8.4445**	**5.8024**	**7.4305**	**0.0313**	**2.2110**	**0.1172**	**2.3031**	**0.5927**	**0.1081**	**0.6786**	**0.0000**	**2,893.3867**	**2,893.3867**	**0.1780**	**0.0000**	**2,897.8366**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2571	2.7527	1.8954	4.4700e-003	0.3916	0.1172	0.5088	0.1605	0.1081	0.2686	0.0000	398.2397	398.2397	0.1055	0.0000	400.8770
2023	8.4445	5.8024	7.4305	0.0313	1.9596	0.0920	2.0517	0.5304	0.0859	0.6163	0.0000	2,893.3864	2,893.3864	0.1780	0.0000	2,897.8363
Maximum	**8.4445**	**5.8024**	**7.4305**	**0.0313**	**1.9596**	**0.1172**	**2.0517**	**0.5304**	**0.1081**	**0.6163**	**0.0000**	**2,893.3864**	**2,893.3864**	**0.1780**	**0.0000**	**2,897.8363**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**25.92**	**0.00**	**24.32**	**30.42**	**0.00**	**25.45**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	1.2215	1.2215
2	9-1-2022	11-30-2022	1.3096	1.3096
3	12-1-2022	2-28-2023	2.3080	2.3080
4	3-1-2023	5-31-2023	9.3269	9.3269
5	6-1-2023	8-31-2023	3.0425	3.0425
		Highest	9.3269	9.3269

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Energy	0.1290	1.1731	0.9854	7.0400e-003		0.0892	0.0892		0.0892	0.0892	0.0000	7,069.9532	7,069.9532	0.3536	0.0915	7,106.0618
Mobile	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952
Offroad	1.3944	13.0543	15.0662	0.0224		0.7792	0.7792		0.7169	0.7169	0.0000	1,965.1723	1,965.1723	0.6356	0.0000	1,981.0617
Waste						0.0000	0.0000		0.0000	0.0000	642.2654	0.0000	642.2654	37.9568	0.0000	1,591.1854
Water						0.0000	0.0000		0.0000	0.0000	232.7709	2,256.7337	2,489.5046	24.0360	0.5910	3,266.5354
Total	**17.2341**	**62.6009**	**57.5499**	**0.3654**	**22.1061**	**1.2716**	**23.3777**	**6.0227**	**1.1895**	**7.2122**	**875.0363**	**44,116.8156**	**44,991.8520**	**64.7449**	**0.6826**	**46,813.8738**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Energy	0.1167	1.0607	0.8910	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	6,737.2303	6,737.2303	0.3393	0.0868	6,771.5760
Mobile	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952
Offroad	1.3944	13.0543	15.0662	0.0224		0.7792	0.7792		0.7169	0.7169	0.0000	1,965.1723	1,965.1723	0.6356	0.0000	1,981.0617
Waste						0.0000	0.0000		0.0000	0.0000	321.1327	0.0000	321.1327	18.9784	0.0000	795.5927
Water						0.0000	0.0000		0.0000	0.0000	199.6243	1,939.0197	2,138.6440	20.6135	0.5069	2,805.0436
Total	**17.2218**	**62.4884**	**57.4554**	**0.3647**	**22.1061**	**1.2630**	**23.3691**	**6.0227**	**1.1810**	**7.2037**	**520.7570**	**43,466.3788**	**43,987.1358**	**42.3297**	**0.5937**	**45,222.3035**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.07**	**0.18**	**0.16**	**0.19**	**0.00**	**0.67**	**0.04**	**0.00**	**0.72**	**0.12**	**40.49**	**1.47**	**2.23**	**34.62**	**13.02**	**3.40**

3.0 Construction Detail

Construction Phase

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 43.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)

OffRoad Equipment

South Ontario Logistics Center Phase 1 - No Mitigation - San Bernardino-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1856	0.0000	0.1856	0.0281	0.0000	0.0281	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9805	67.9805	0.0191	0.0000	68.4578
Total	**0.0528**	**0.5144**	**0.4119**	**7.8000e-004**	**0.1856**	**0.0249**	**0.2104**	**0.0281**	**0.0231**	**0.0512**	**0.0000**	**67.9805**	**67.9805**	**0.0191**	**0.0000**	**68.4578**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9100e-003	0.1833	0.0312	6.5000e-004	0.0148	4.6000e-004	0.0152	4.0500e-003	4.4000e-004	4.4900e-003	0.0000	62.7730	62.7730	3.4900e-003	0.0000	62.8601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	9.4000e-004	9.8000e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6313	2.6313	7.0000e-005	0.0000	2.6331
Total	**6.2000e-003**	**0.1843**	**0.0410**	**6.8000e-004**	**0.0181**	**4.8000e-004**	**0.0185**	**4.9200e-003**	**4.6000e-004**	**5.3800e-003**	**0.0000**	**65.4043**	**65.4043**	**3.5600e-003**	**0.0000**	**65.4932**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0724	0.0000	0.0724	0.0110	0.0000	0.0110	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9804	67.9804	0.0191	0.0000	68.4578
Total	**0.0528**	**0.5144**	**0.4119**	**7.8000e-004**	**0.0724**	**0.0249**	**0.0972**	**0.0110**	**0.0231**	**0.0341**	**0.0000**	**67.9804**	**67.9804**	**0.0191**	**0.0000**	**68.4578**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9100e-003	0.1833	0.0312	6.5000e-004	0.0138	4.6000e-004	0.0142	3.8100e-003	4.4000e-004	4.2500e-003	0.0000	62.7730	62.7730	3.4900e-003	0.0000	62.8601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	9.4000e-004	9.8000e-003	3.0000e-005	3.0300e-003	2.0000e-005	3.0500e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.6313	2.6313	7.0000e-005	0.0000	2.6331
Total	**6.2000e-003**	**0.1843**	**0.0410**	**6.8000e-004**	**0.0168**	**4.8000e-004**	**0.0173**	**4.6200e-003**	**4.6000e-004**	**5.0800e-003**	**0.0000**	**65.4043**	**65.4043**	**3.5600e-003**	**0.0000**	**65.4932**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4517	0.0000	0.4517	0.2483	0.0000	0.2483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0793	0.8271	0.4924	9.5000e-004		0.0403	0.0403		0.0371	0.0371	0.0000	83.5985	83.5985	0.0270	0.0000	84.2744
Total	**0.0793**	**0.8271**	**0.4924**	**9.5000e-004**	**0.4517**	**0.0403**	**0.4920**	**0.2483**	**0.0371**	**0.2854**	**0.0000**	**83.5985**	**83.5985**	**0.0270**	**0.0000**	**84.2744**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9400e-003	1.4100e-003	0.0147	4.0000e-005	4.9300e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.9470	3.9470	1.0000e-004	0.0000	3.9496
Total	**1.9400e-003**	**1.4100e-003**	**0.0147**	**4.0000e-005**	**4.9300e-003**	**3.0000e-005**	**4.9700e-003**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**0.0000**	**3.9470**	**3.9470**	**1.0000e-004**	**0.0000**	**3.9496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1762	0.0000	0.1762	0.0968	0.0000	0.0968	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0793	0.8271	0.4924	9.5000e-004		0.0403	0.0403		0.0371	0.0371	0.0000	83.5984	83.5984	0.0270	0.0000	84.2743
Total	**0.0793**	**0.8271**	**0.4924**	**9.5000e-004**	**0.1762**	**0.0403**	**0.2165**	**0.0968**	**0.0371**	**0.1339**	**0.0000**	**83.5984**	**83.5984**	**0.0270**	**0.0000**	**84.2743**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9400e-003	1.4100e-003	0.0147	4.0000e-005	4.5500e-003	3.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.9470	3.9470	1.0000e-004	0.0000	3.9496
Total	**1.9400e-003**	**1.4100e-003**	**0.0147**	**4.0000e-005**	**4.5500e-003**	**3.0000e-005**	**4.5800e-003**	**1.2200e-003**	**3.0000e-005**	**1.2400e-003**	**0.0000**	**3.9470**	**3.9470**	**1.0000e-004**	**0.0000**	**3.9496**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2958	0.0000	0.2958	0.1157	0.0000	0.1157	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1142	1.2236	0.9148	1.9600e-003		0.0515	0.0515		0.0474	0.0474	0.0000	171.7840	171.7840	0.0556	0.0000	173.1730
Total	**0.1142**	**1.2236**	**0.9148**	**1.9600e-003**	**0.2958**	**0.0515**	**0.3473**	**0.1157**	**0.0474**	**0.1631**	**0.0000**	**171.7840**	**171.7840**	**0.0556**	**0.0000**	**173.1730**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.9700e-003	0.0206	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5258	5.5258	1.4000e-004	0.0000	5.5294
Total	**2.7100e-003**	**1.9700e-003**	**0.0206**	**6.0000e-005**	**6.9100e-003**	**4.0000e-005**	**6.9500e-003**	**1.8300e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5258**	**5.5258**	**1.4000e-004**	**0.0000**	**5.5294**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1153	0.0000	0.1153	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1142	1.2236	0.9148	1.9600e-003		0.0515	0.0515		0.0474	0.0474	0.0000	171.7838	171.7838	0.0556	0.0000	173.1727
Total	**0.1142**	**1.2236**	**0.9148**	**1.9600e-003**	**0.1153**	**0.0515**	**0.1668**	**0.0451**	**0.0474**	**0.0925**	**0.0000**	**171.7838**	**171.7838**	**0.0556**	**0.0000**	**173.1727**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.9700e-003	0.0206	6.0000e-005	6.3700e-003	4.0000e-005	6.4100e-003	1.7000e-003	4.0000e-005	1.7400e-003	0.0000	5.5258	5.5258	1.4000e-004	0.0000	5.5294
Total	**2.7100e-003**	**1.9700e-003**	**0.0206**	**6.0000e-005**	**6.3700e-003**	**4.0000e-005**	**6.4100e-003**	**1.7000e-003**	**4.0000e-005**	**1.7400e-003**	**0.0000**	**5.5258**	**5.5258**	**1.4000e-004**	**0.0000**	**5.5294**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1572	0.0000	0.1572	0.0396	0.0000	0.0396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
Total	**0.0282**	**0.2934**	**0.2384**	**5.3000e-004**	**0.1572**	**0.0121**	**0.1694**	**0.0396**	**0.0111**	**0.0507**	**0.0000**	**46.3549**	**46.3549**	**0.0150**	**0.0000**	**46.7297**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0900e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4351	1.4351	3.0000e-005	0.0000	1.4360
Total	**6.9000e-004**	**4.8000e-004**	**5.0900e-003**	**2.0000e-005**	**1.8600e-003**	**1.0000e-005**	**1.8800e-003**	**5.0000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.4351**	**1.4351**	**3.0000e-005**	**0.0000**	**1.4360**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0613	0.0000	0.0613	0.0154	0.0000	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
Total	**0.0282**	**0.2934**	**0.2384**	**5.3000e-004**	**0.0613**	**0.0121**	**0.0734**	**0.0154**	**0.0111**	**0.0266**	**0.0000**	**46.3549**	**46.3549**	**0.0150**	**0.0000**	**46.7297**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0900e-003	2.0000e-005	1.7200e-003	1.0000e-005	1.7300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4351	1.4351	3.0000e-005	0.0000	1.4360
Total	**6.9000e-004**	**4.8000e-004**	**5.0900e-003**	**2.0000e-005**	**1.7200e-003**	**1.0000e-005**	**1.7300e-003**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**1.4351**	**1.4351**	**3.0000e-005**	**0.0000**	**1.4360**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9697	130.9697	0.0312	0.0000	131.7486
Total	**0.0889**	**0.8128**	**0.9178**	**1.5200e-003**		**0.0395**	**0.0395**		**0.0372**	**0.0372**	**0.0000**	**130.9697**	**130.9697**	**0.0312**	**0.0000**	**131.7486**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0981	3.7369	0.8320	0.0135	0.3316	3.6500e-003	0.3353	0.0957	3.4900e-003	0.0992	0.0000	1,288.5621	1,288.5621	0.0699	0.0000	1,290.3091
Worker	0.5432	0.3793	4.0362	0.0126	1.4775	9.1000e-003	1.4866	0.3924	8.3800e-003	0.4008	0.0000	1,137.5531	1,137.5531	0.0276	0.0000	1,138.2423
Total	**0.6413**	**4.1162**	**4.8682**	**0.0260**	**1.8091**	**0.0128**	**1.8219**	**0.4881**	**0.0119**	**0.5000**	**0.0000**	**2,426.1151**	**2,426.1151**	**0.0975**	**0.0000**	**2,428.5514**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9695	130.9695	0.0312	0.0000	131.7484
Total	**0.0889**	**0.8128**	**0.9178**	**1.5200e-003**		**0.0395**	**0.0395**		**0.0372**	**0.0372**	**0.0000**	**130.9695**	**130.9695**	**0.0312**	**0.0000**	**131.7484**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0981	3.7369	0.8320	0.0135	0.3105	3.6500e-003	0.3142	0.0905	3.4900e-003	0.0940	0.0000	1,288.5621	1,288.5621	0.0699	0.0000	1,290.3091
Worker	0.5432	0.3793	4.0362	0.0126	1.3623	9.1000e-003	1.3714	0.3641	8.3800e-003	0.3725	0.0000	1,137.5531	1,137.5531	0.0276	0.0000	1,138.2423
Total	**0.6413**	**4.1162**	**4.8682**	**0.0260**	**1.6728**	**0.0128**	**1.6855**	**0.4547**	**0.0119**	**0.4665**	**0.0000**	**2,426.1151**	**2,426.1151**	**0.0975**	**0.0000**	**2,428.5514**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4586	0.6563	1.0300e-003		0.0230	0.0230		0.0211	0.0211	0.0000	90.1209	90.1209	0.0292	0.0000	90.8496
Paving	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1033**	**0.4586**	**0.6563**	**1.0300e-003**		**0.0230**	**0.0230**		**0.0211**	**0.0211**	**0.0000**	**90.1209**	**90.1209**	**0.0292**	**0.0000**	**90.8496**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9000e-003	0.0202	6.0000e-005	7.4000e-003	5.0000e-005	7.4500e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.6982	5.6982	1.4000e-004	0.0000	5.7017
Total	**2.7200e-003**	**1.9000e-003**	**0.0202**	**6.0000e-005**	**7.4000e-003**	**5.0000e-005**	**7.4500e-003**	**1.9700e-003**	**4.0000e-005**	**2.0100e-003**	**0.0000**	**5.6982**	**5.6982**	**1.4000e-004**	**0.0000**	**5.7017**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4586	0.6563	1.0300e-003		0.0230	0.0230		0.0211	0.0211	0.0000	90.1208	90.1208	0.0292	0.0000	90.8495
Paving	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1033**	**0.4586**	**0.6563**	**1.0300e-003**		**0.0230**	**0.0230**		**0.0211**	**0.0211**	**0.0000**	**90.1208**	**90.1208**	**0.0292**	**0.0000**	**90.8495**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9000e-003	0.0202	6.0000e-005	6.8200e-003	5.0000e-005	6.8700e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.6982	5.6982	1.4000e-004	0.0000	5.7017
Total	**2.7200e-003**	**1.9000e-003**	**0.0202**	**6.0000e-005**	**6.8200e-003**	**5.0000e-005**	**6.8700e-003**	**1.8200e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.6982**	**5.6982**	**1.4000e-004**	**0.0000**	**5.7017**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.4842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6200e-003	0.0586	0.0815	1.3000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	11.4896	11.4896	6.9000e-004	0.0000	11.5068
Total	**7.4928**	**0.0586**	**0.0815**	**1.3000e-004**		**3.1900e-003**	**3.1900e-003**		**3.1900e-003**	**3.1900e-003**	**0.0000**	**11.4896**	**11.4896**	**6.9000e-004**	**0.0000**	**11.5068**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0604	0.6429	2.0000e-003	0.2354	1.4500e-003	0.2368	0.0625	1.3300e-003	0.0638	0.0000	181.2031	181.2031	4.3900e-003	0.0000	181.3129
Total	**0.0865**	**0.0604**	**0.6429**	**2.0000e-003**	**0.2354**	**1.4500e-003**	**0.2368**	**0.0625**	**1.3300e-003**	**0.0638**	**0.0000**	**181.2031**	**181.2031**	**4.3900e-003**	**0.0000**	**181.3129**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.4842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6200e-003	0.0586	0.0815	1.3000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	11.4896	11.4896	6.9000e-004	0.0000	11.5068
Total	**7.4928**	**0.0586**	**0.0815**	**1.3000e-004**		**3.1900e-003**	**3.1900e-003**		**3.1900e-003**	**3.1900e-003**	**0.0000**	**11.4896**	**11.4896**	**6.9000e-004**	**0.0000**	**11.5068**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0604	0.6429	2.0000e-003	0.2170	1.4500e-003	0.2184	0.0580	1.3300e-003	0.0593	0.0000	181.2031	181.2031	4.3900e-003	0.0000	181.3129
Total	**0.0865**	**0.0604**	**0.6429**	**2.0000e-003**	**0.2170**	**1.4500e-003**	**0.2184**	**0.0580**	**1.3300e-003**	**0.0593**	**0.0000**	**181.2031**	**181.2031**	**4.3900e-003**	**0.0000**	**181.3129**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952
Unmitigated	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	35,227,309
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
Total	7,232.02	7,232.02	7,232.02	55,640,457	55,640,457

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,582.5592	5,582.5592	0.3172	0.0656	5,610.0433
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,792.8584	5,792.8584	0.3291	0.0681	5,821.3778
NaturalGas Mitigated	0.1167	1.0607	0.8910	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	1,154.6711	1,154.6711	0.0221	0.0212	1,161.5327
NaturalGas Unmitigated	0.1290	1.1731	0.9854	7.0400e-003		0.0892	0.0892		0.0892	0.0892	0.0000	1,277.0948	1,277.0948	0.0245	0.0234	1,284.6839

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	2.08591e+006	0.0113	0.1023	0.0859	6.1000e-004		7.7700e-003	7.7700e-003		7.7700e-003	7.7700e-003	0.0000	111.3123	111.3123	2.1300e-003	2.0400e-003	111.9738
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.73041e+007	0.0933	0.8482	0.7125	5.0900e-003		0.0645	0.0645		0.0645	0.0645	0.0000	923.4150	923.4150	0.0177	0.0169	928.9024
Unrefrigerated Warehouse-No Rail	4.54179e+006	0.0245	0.2226	0.1870	1.3400e-003		0.0169	0.0169		0.0169	0.0169	0.0000	242.3674	242.3674	4.6500e-003	4.4400e-003	243.8077
Total		**0.1291**	**1.1731**	**0.9854**	**7.0400e-003**		**0.0892**	**0.0892**		**0.0892**	**0.0892**	**0.0000**	**1,277.0948**	**1,277.0948**	**0.0245**	**0.0234**	**1,284.6839**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.46014e+006	7.8700e-003	0.0716	0.0601	4.3000e-004		5.4400e-003	5.4400e-003		5.4400e-003	5.4400e-003	0.0000	77.9186	77.9186	1.4900e-003	1.4300e-003	78.3817
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.69782e+007	0.0916	0.8323	0.6991	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	906.0207	906.0207	0.0174	0.0166	911.4048
Unrefrigerated Warehouse-No Rail	3.19939e+006	0.0173	0.1568	0.1317	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.7317	170.7317	3.2700e-003	3.1300e-003	171.7463
Total		**0.1167**	**1.0607**	**0.8910**	**6.3600e-003**		**0.0806**	**0.0806**		**0.0806**	**0.0806**	**0.0000**	**1,154.6711**	**1,154.6711**	**0.0221**	**0.0212**	**1,161.5327**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	5.72274e+006	1,324.9953	0.0753	0.0156	1,331.5186
Parking Lot	660983	153.0386	8.6900e-003	1.8000e-003	153.7920
Refrigerated Warehouse-No Rail	1.33559e+007	3,092.3104	0.1757	0.0364	3,107.5345
Unrefrigerated Warehouse-No Rail	5.28012e+006	1,222.5140	0.0695	0.0144	1,228.5327
Total		**5,792.8584**	**0.3291**	**0.0681**	**5,821.3778**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	5.1691e+006	1,196.8104	0.0680	0.0141	1,202.7025
Parking Lot	660983	153.0386	8.6900e-003	1.8000e-003	153.7920
Refrigerated Warehouse-No Rail	1.32496e+007	3,067.6958	0.1743	0.0361	3,082.7987
Unrefrigerated Warehouse-No Rail	5.03177e+006	1,165.0144	0.0662	0.0137	1,170.7500
Total		**5,582.5592**	**0.3172**	**0.0656**	**5,610.0433**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Unmitigated	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	11.5927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-003	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Total	**13.0956**	**5.9000e-004**	**0.0648**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**	**0.0000**	**0.1260**	**0.1260**	**3.3000e-004**	**0.0000**	**0.1342**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	11.5927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-003	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Total	**13.0956**	**5.9000e-004**	**0.0648**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**	**0.0000**	**0.1260**	**0.1260**	**3.3000e-004**	**0.0000**	**0.1342**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,138.6440	20.6135	0.5069	2,805.0436
Unmitigated	2,489.5046	24.0360	0.5910	3,266.5354

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 17.4075	44.7777	2.5400e-003	5.3000e-004	44.9982
Industrial Park	139.011 / 0	463.1896	4.5535	0.1119	610.3678
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	77.3092 / 0	257.5964	2.5324	0.0622	339.4475
Unrefrigerated Warehouse-No Rail	517.385 / 0	1,723.9409	16.9476	0.4164	2,271.7220
Total		**2,489.5046**	**24.0360**	**0.5910**	**3,266.5354**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 16.3457	42.0463	2.3900e-003	4.9000e-004	42.2533
Industrial Park	119.216 / 0	397.2314	3.9051	0.0960	523.4514
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	66.3004 / 0	220.9147	2.1718	0.0534	291.1101
Unrefrigerated Warehouse-No Rail	443.709 / 0	1,478.4517	14.5343	0.3571	1,948.2288
Total		**2,138.6440**	**20.6135**	**0.5069**	**2,805.0436**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	321.1327	18.9784	0.0000	795.5927
Unmitigated	642.2654	37.9568	0.0000	1,591.1854

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.26	0.2558	0.0151	0.0000	0.6337
Industrial Park	745.4	151.3095	8.9421	0.0000	374.8628
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	314.25	63.7899	3.7699	0.0000	158.0368
Unrefrigerated Warehouse-No Rail	2103.1	426.9103	25.2297	0.0000	1,057.6522
Total		**642.2654**	**37.9568**	**0.0000**	**1,591.1854**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.63	0.1279	7.5600e-003	0.0000	0.3168
Industrial Park	372.7	75.6547	4.4711	0.0000	187.4314
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	157.125	31.8950	1.8849	0.0000	79.0184
Unrefrigerated Warehouse-No Rail	1051.55	213.4552	12.6148	0.0000	528.8261
Total		**321.1327**	**18.9784**	**0.0000**	**795.5927**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	4.00	260	200	0.37	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	1.2797	11.9768	14.2870	0.0191		0.7401	0.7401		0.6809	0.6809	0.0000	1,675.9556	1,675.9556	0.5420	0.0000	1,689.5065
Tractors/Loaders/Backhoes	0.1147	1.0775	0.7792	3.2900e-003		0.0391	0.0391		0.0360	0.0360	0.0000	289.2168	289.2168	0.0935	0.0000	291.5552
Total	**1.3944**	**13.0543**	**15.0662**	**0.0224**		**0.7792**	**0.7792**		**0.7169**	**0.7169**	**0.0000**	**1,965.1723**	**1,965.1723**	**0.6356**	**0.0000**	**1,981.0617**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 1 - with Mitigation

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	601.13	1000sqft	13.80	601,128.00	0
Refrigerated Warehouse-No Rail	334.31	1000sqft	7.67	334,315.00	0
Unrefrigerated Warehouse-No Rail	2,237.34	1000sqft	51.36	2,237,337.00	0
Parking Lot	1,888.52	1000sqft	43.35	1,888,524.00	0
City Park	14.61	Acre	14.61	616,896.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Annual

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting.

Land Use - Site landscaping identified as "City Park" 616,896 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,888,524 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap.

Demolition - includes demo of both phase 1 and phase 2 areas, estimated using GIS and aerial imagery

Grading - Site Balanced, no import/export of soil

Architectural Coating - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 7288: 5830 autos and 1458 trucks. auto trip rate under Industrial Park land use 5830/601.128 ksf= 9.69843361147708973795930317669 45 , truck trip rate shown under unrefrigerated w/h 1402/2237.337 ksf = 0.626637828811663151326778218927 23

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2023 with SAFE Rule

Area Coating - SCAQMD Rule 1113 - Low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades.

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 12 electric forklifts per building (96 total)

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00

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tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	10
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstructionPhase	NumDays	3,100.00	113.00
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tblConstructionPhase	NumDays	220.00	90.00

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tblFleetMix	UBUS	1.5280e-003	0.00
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tblLandUse	LandUseSquareFeet	334,310.00	334,315.00
tblLandUse	LandUseSquareFeet	2,237,340.00	2,237,337.00
tblLandUse	LandUseSquareFeet	1,888,520.00	1,888,524.00
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tblVehicleEF	LDT1	0.25	0.24
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.21	0.36
tblVehicleEF	LDT1	0.01	6.3910e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.30
tblVehicleEF	LDT1	3.19	2.30
tblVehicleEF	LDT1	296.82	299.24

tblVehicleEF	LDT1	68.97	63.34
tblVehicleEF	LDT1	0.14	0.11
tblVehicleEF	LDT1	0.19	0.27
tblVehicleEF	LDT1	2.5620e-003	2.1470e-003
tblVehicleEF	LDT1	3.5130e-003	2.6310e-003
tblVehicleEF	LDT1	2.3590e-003	1.9750e-003
tblVehicleEF	LDT1	3.2310e-003	2.4190e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT1	2.9850e-003	2.9610e-003
tblVehicleEF	LDT1	7.4600e-004	6.2700e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.36	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.92
tblVehicleEF	LDT1	0.25	0.42
tblVehicleEF	LDT2	5.7620e-003	3.9140e-003
tblVehicleEF	LDT2	7.2640e-003	0.07
tblVehicleEF	LDT2	0.74	0.92
tblVehicleEF	LDT2	1.51	2.62
tblVehicleEF	LDT2	338.48	321.07
tblVehicleEF	LDT2	76.76	67.21

tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.10	0.30
tblVehicleEF	LDT2	3.3910e-003	3.1760e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.33
tblVehicleEF	LDT2	6.5400e-003	4.4000e-003
tblVehicleEF	LDT2	6.0520e-003	0.06
tblVehicleEF	LDT2	0.91	1.10
tblVehicleEF	LDT2	1.25	2.20
tblVehicleEF	LDT2	369.50	342.11
tblVehicleEF	LDT2	76.76	66.40
tblVehicleEF	LDT2	0.07	0.07

tblVehicleEF	LDT2	0.12	0.25
tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	3.7030e-003	3.3850e-003
tblVehicleEF	LDT2	7.8900e-004	6.5700e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	5.6100e-003	3.8370e-003
tblVehicleEF	LDT2	7.2170e-003	0.07
tblVehicleEF	LDT2	0.71	0.88
tblVehicleEF	LDT2	1.49	2.63
tblVehicleEF	LDT2	331.17	317.15
tblVehicleEF	LDT2	76.76	67.23
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.12	0.27

tblVehicleEF	LDT2	1.7220e-003	1.5310e-003
tblVehicleEF	LDT2	2.4210e-003	1.8460e-003
tblVehicleEF	LDT2	1.5840e-003	1.4090e-003
tblVehicleEF	LDT2	2.2270e-003	1.6980e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.50
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	3.3170e-003	3.1380e-003
tblVehicleEF	LDT2	7.9300e-004	6.6500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.34
tblVehicleEF	LHD1	5.0320e-003	4.9420e-003
tblVehicleEF	LHD1	0.01	5.5120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.45	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.99

tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.98	1.13
tblVehicleEF	LHD1	0.96	0.31
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4500e-004	1.0900e-004
tblVehicleEF	LHD1	3.6070e-003	2.8730e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7910e-003	1.5090e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53

tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9550e-003
tblVehicleEF	LHD1	0.01	5.6220e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.00	0.69
tblVehicleEF	LHD1	2.29	0.94
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.69
tblVehicleEF	LHD1	29.86	10.89
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.85	1.06
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004
tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.53

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9160e-003	6.2600e-003
tblVehicleEF	LHD1	3.4200e-004	1.0800e-004
tblVehicleEF	LHD1	7.0910e-003	5.1660e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.0170e-003	2.8870e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.0320e-003	4.9430e-003
tblVehicleEF	LHD1	0.01	5.5190e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.67
tblVehicleEF	LHD1	2.41	0.99
tblVehicleEF	LHD1	9.23	9.18
tblVehicleEF	LHD1	603.36	642.67
tblVehicleEF	LHD1	29.86	10.97
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.94	1.11
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.6400e-004	9.0500e-004
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.01	9.3110e-003
tblVehicleEF	LHD1	9.1200e-004	2.4800e-004

tblVehicleEF	LHD1	9.2200e-004	8.6500e-004
tblVehicleEF	LHD1	2.5490e-003	2.4750e-003
tblVehicleEF	LHD1	0.01	8.8830e-003
tblVehicleEF	LHD1	8.3800e-004	2.2800e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.9150e-003	6.2600e-003
tblVehicleEF	LHD1	3.4400e-004	1.0900e-004
tblVehicleEF	LHD1	3.9050e-003	2.9590e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7600e-003	1.5330e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.38	0.57
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4320e-003	3.5680e-003
tblVehicleEF	LHD2	4.0990e-003	3.7710e-003
tblVehicleEF	LHD2	7.3280e-003	9.7280e-003
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tblVehicleEF	LHD2	0.44	0.45
tblVehicleEF	LHD2	1.13	0.64

tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.29	1.23
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2220e-003	1.6090e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	6.6900e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5780e-003
tblVehicleEF	LHD2	4.1530e-003	3.8070e-003
tblVehicleEF	LHD2	6.9980e-003	9.3540e-003
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tblVehicleEF	LHD2	0.45	0.46
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.22	14.07
tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.45
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.21	1.16
tblVehicleEF	LHD2	0.47	0.20
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
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tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.05
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tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
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tblVehicleEF	LHD2	2.3520e-003	2.8990e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4370e-003	1.6860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.4320e-003	3.5690e-003
tblVehicleEF	LHD2	4.1040e-003	3.7740e-003
tblVehicleEF	LHD2	7.2640e-003	9.6820e-003
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tblVehicleEF	LHD2	0.44	0.45
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tblVehicleEF	LHD2	602.71	654.45
tblVehicleEF	LHD2	24.06	8.51
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	1.27	1.21
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.2600e-003	1.3290e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8200e-004	1.3000e-004
tblVehicleEF	LHD2	1.2060e-003	1.2710e-003
tblVehicleEF	LHD2	2.6900e-003	2.6630e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5100e-004	1.1900e-004
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3900e-004	1.3500e-004
tblVehicleEF	LHD2	5.8620e-003	6.3240e-003
tblVehicleEF	LHD2	2.6100e-004	8.4000e-005
tblVehicleEF	LHD2	1.2440e-003	1.6000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.5300e-004	8.8600e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.32
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	20.13	18.96

tblVehicleEF	MCY	9.95	8.62
tblVehicleEF	MCY	168.27	211.97
tblVehicleEF	MCY	46.01	60.40
tblVehicleEF	MCY	1.16	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.21	2.31
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.14	1.83
tblVehicleEF	MCY	2.0750e-003	2.0980e-003
tblVehicleEF	MCY	6.8600e-004	5.9800e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.83	0.79
tblVehicleEF	MCY	0.79	0.78
tblVehicleEF	MCY	2.72	2.85
tblVehicleEF	MCY	0.48	1.83
tblVehicleEF	MCY	2.33	2.00
tblVehicleEF	MCY	0.42	0.33
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	20.26	18.98
tblVehicleEF	MCY	9.05	7.90

tblVehicleEF	MCY	168.27	211.85
tblVehicleEF	MCY	46.01	58.53
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.15	2.26
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0750e-003	2.0960e-003
tblVehicleEF	MCY	6.6200e-004	5.7900e-004
tblVehicleEF	MCY	3.13	2.77
tblVehicleEF	MCY	1.26	1.11
tblVehicleEF	MCY	2.11	1.76
tblVehicleEF	MCY	2.65	2.80
tblVehicleEF	MCY	0.48	1.81
tblVehicleEF	MCY	2.01	1.75
tblVehicleEF	MCY	0.42	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.24	18.47
tblVehicleEF	MCY	9.58	8.46
tblVehicleEF	MCY	168.27	211.13

tblVehicleEF	MCY	46.01	60.06
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8900e-003	2.0020e-003
tblVehicleEF	MCY	3.5110e-003	2.8570e-003
tblVehicleEF	MCY	1.7690e-003	1.8710e-003
tblVehicleEF	MCY	3.3070e-003	2.6860e-003
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.17	2.29
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.07	1.81
tblVehicleEF	MCY	2.0600e-003	2.0890e-003
tblVehicleEF	MCY	6.7800e-004	5.9400e-004
tblVehicleEF	MCY	1.70	1.57
tblVehicleEF	MCY	1.11	1.05
tblVehicleEF	MCY	0.71	0.74
tblVehicleEF	MCY	2.67	2.83
tblVehicleEF	MCY	0.55	2.10
tblVehicleEF	MCY	2.25	1.97
tblVehicleEF	MDV	0.01	4.8690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.23	1.03
tblVehicleEF	MDV	2.96	3.08
tblVehicleEF	MDV	468.43	398.33
tblVehicleEF	MDV	104.98	83.75

tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	0.29	0.35
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.6930e-003	3.9380e-003
tblVehicleEF	MDV	1.1020e-003	8.2900e-004
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MDV	0.01	5.4810e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.50	1.23
tblVehicleEF	MDV	2.45	2.58
tblVehicleEF	MDV	509.92	420.48
tblVehicleEF	MDV	104.98	82.76
tblVehicleEF	MDV	0.14	0.08

tblVehicleEF	MDV	0.27	0.32
tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	5.1110e-003	4.1570e-003
tblVehicleEF	MDV	1.0930e-003	8.1900e-004
tblVehicleEF	MDV	0.19	0.21
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.21	0.37
tblVehicleEF	MDV	0.01	4.7690e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.17	0.99
tblVehicleEF	MDV	2.91	3.09
tblVehicleEF	MDV	458.74	394.20
tblVehicleEF	MDV	104.98	83.77
tblVehicleEF	MDV	0.15	0.09
tblVehicleEF	MDV	0.28	0.34

tblVehicleEF	MDV	1.7950e-003	1.6030e-003
tblVehicleEF	MDV	2.4650e-003	1.9270e-003
tblVehicleEF	MDV	1.6550e-003	1.4780e-003
tblVehicleEF	MDV	2.2670e-003	1.7720e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.23	0.40
tblVehicleEF	MDV	4.5950e-003	3.8970e-003
tblVehicleEF	MDV	1.1010e-003	8.2900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.25	0.44
tblVehicleEF	MH	0.03	9.6780e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.59	1.13
tblVehicleEF	MH	5.97	2.04
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.62
tblVehicleEF	MH	1.44	1.43
tblVehicleEF	MH	0.87	0.24
tblVehicleEF	MH	0.01	0.01

tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.47	0.40
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	1.8400e-004
tblVehicleEF	MH	1.37	1.05
tblVehicleEF	MH	0.08	0.06
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tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.41
tblVehicleEF	MH	0.38	0.10
tblVehicleEF	MH	0.03	9.9040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.69	1.16
tblVehicleEF	MH	5.43	1.90
tblVehicleEF	MH	1,041.69	1,468.58
tblVehicleEF	MH	59.11	18.38
tblVehicleEF	MH	1.32	1.33
tblVehicleEF	MH	0.82	0.23

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8600e-004	1.8200e-004
tblVehicleEF	MH	2.70	1.87
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	1.13	0.78
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.40
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.6830e-003
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	2.60	1.13
tblVehicleEF	MH	5.91	2.05
tblVehicleEF	MH	1,041.69	1,468.53
tblVehicleEF	MH	59.11	18.63
tblVehicleEF	MH	1.41	1.40

tblVehicleEF	MH	0.85	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	1.1010e-003	2.4100e-004
tblVehicleEF	MH	3.2240e-003	3.2810e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0130e-003	2.2200e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.49	0.42
tblVehicleEF	MH	0.09	0.06
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.34	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9400e-004	1.8400e-004
tblVehicleEF	MH	1.62	1.15
tblVehicleEF	MH	0.11	0.08
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tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	1.48
tblVehicleEF	MH	0.37	0.10
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tblVehicleEF	MHD	0.05	6.3210e-003
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tblVehicleEF	MHD	0.23	0.15
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tblVehicleEF	MHD	1.1900e-004	3.4000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
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tblVehicleEF	MHD	2.5990e-003	6.7580e-003
tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.4800e-003	6.2000e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0100e-004	6.2000e-005
tblVehicleEF	MHD	1.1660e-003	4.2100e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.0400e-004	2.2700e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	0.01	2.3480e-003
tblVehicleEF	MHD	2.8440e-003	1.0770e-003
tblVehicleEF	MHD	0.04	6.0720e-003
tblVehicleEF	MHD	0.22	0.27
tblVehicleEF	MHD	0.24	0.16
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tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.24
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.56	0.96
tblVehicleEF	MHD	11.88	1.85
tblVehicleEF	MHD	1.0000e-004	2.9000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	9.6000e-005	2.7700e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003
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tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.28	0.03

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tblVehicleEF	MHD	2.2960e-003	7.6700e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3770e-003	4.4800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.30	0.03
tblVehicleEF	MHD	0.02	2.6260e-003
tblVehicleEF	MHD	2.7990e-003	1.0570e-003
tblVehicleEF	MHD	0.05	6.2750e-003
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tblVehicleEF	MHD	0.23	0.15
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tblVehicleEF	MHD	141.38	65.72
tblVehicleEF	MHD	1,093.53	936.35
tblVehicleEF	MHD	51.70	6.29
tblVehicleEF	MHD	0.40	0.38
tblVehicleEF	MHD	0.59	1.00
tblVehicleEF	MHD	11.90	1.85
tblVehicleEF	MHD	1.4500e-004	4.1000e-004
tblVehicleEF	MHD	2.7200e-003	7.0670e-003
tblVehicleEF	MHD	7.2700e-004	7.3000e-005
tblVehicleEF	MHD	1.3900e-004	3.9200e-004
tblVehicleEF	MHD	2.5990e-003	6.7580e-003

tblVehicleEF	MHD	6.6900e-004	6.7000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
tblVehicleEF	MHD	1.3610e-003	6.2300e-004
tblVehicleEF	MHD	0.01	8.9000e-003
tblVehicleEF	MHD	6.0000e-004	6.2000e-005
tblVehicleEF	MHD	1.2480e-003	4.3200e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.9200e-004	2.3000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	OBUS	0.01	8.6930e-003
tblVehicleEF	OBUS	8.1900e-003	5.0760e-003
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tblVehicleEF	OBUS	0.25	0.53
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tblVehicleEF	OBUS	1.85	0.73
tblVehicleEF	OBUS	1.1000e-005	9.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
tblVehicleEF	OBUS	1.1000e-005	8.6000e-005
tblVehicleEF	OBUS	1.7650e-003	6.3020e-003
tblVehicleEF	OBUS	8.6300e-004	2.0100e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
tblVehicleEF	OBUS	0.03	0.03
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0000e-004
tblVehicleEF	OBUS	2.0920e-003	2.5690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0100e-004	1.1120e-003
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tblVehicleEF	OBUS	0.40	0.13
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tblVehicleEF	OBUS	67.33	72.47
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tblVehicleEF	OBUS	0.39	0.89
tblVehicleEF	OBUS	1.80	0.72
tblVehicleEF	OBUS	9.0000e-006	8.0000e-005
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
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tblVehicleEF	OBUS	9.0000e-006	7.6000e-005
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
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tblVehicleEF	OBUS	8.0000e-004	1.9700e-004

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tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	2.0520e-003	2.1860e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	OBUS	0.01	8.6200e-003
tblVehicleEF	OBUS	8.2130e-003	5.0790e-003
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tblVehicleEF	OBUS	1.84	0.73
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	1.8680e-003	6.6050e-003
tblVehicleEF	OBUS	9.3800e-004	2.1900e-004
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	5.9100e-004	7.0900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0800e-004	2.0000e-004
tblVehicleEF	OBUS	2.2040e-003	2.6800e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.0500e-004	1.1560e-003
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tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9900e-003	7.8650e-003
tblVehicleEF	SBUS	0.06	6.2470e-003
tblVehicleEF	SBUS	5.80	2.57
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	5.22	0.82
tblVehicleEF	SBUS	1,244.83	343.46
tblVehicleEF	SBUS	1,128.46	1,098.69
tblVehicleEF	SBUS	38.16	4.83
tblVehicleEF	SBUS	10.92	3.17
tblVehicleEF	SBUS	4.37	4.90
tblVehicleEF	SBUS	14.81	0.97

tblVehicleEF	SBUS	0.01	3.8920e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	3.7230e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2740e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7200e-004	4.8000e-005
tblVehicleEF	SBUS	2.8950e-003	1.1640e-003
tblVehicleEF	SBUS	0.02	9.0620e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3310e-003	5.8200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.9940e-003	0.05
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	0.01	7.9830e-003

tblVehicleEF	SBUS	0.05	5.2310e-003
tblVehicleEF	SBUS	5.67	2.53
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	3.58	0.59
tblVehicleEF	SBUS	1,307.61	350.69
tblVehicleEF	SBUS	1,128.46	1,098.71
tblVehicleEF	SBUS	38.16	4.45
tblVehicleEF	SBUS	11.27	3.23
tblVehicleEF	SBUS	4.10	4.60
tblVehicleEF	SBUS	14.78	0.97
tblVehicleEF	SBUS	8.8570e-003	3.2880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	8.4740e-003	3.1460e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.69	0.28
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.4400e-004	4.4000e-005
tblVehicleEF	SBUS	5.5340e-003	2.0720e-003
tblVehicleEF	SBUS	0.02	9.4230e-003
tblVehicleEF	SBUS	0.98	0.41
tblVehicleEF	SBUS	2.9000e-003	1.0900e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	8.2040e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.84	0.06
tblVehicleEF	SBUS	9.9950e-003	7.8580e-003
tblVehicleEF	SBUS	0.07	6.4370e-003
tblVehicleEF	SBUS	5.99	2.62
tblVehicleEF	SBUS	0.61	0.71
tblVehicleEF	SBUS	5.27	0.86
tblVehicleEF	SBUS	1,158.14	333.48
tblVehicleEF	SBUS	1,128.46	1,098.68
tblVehicleEF	SBUS	38.16	4.89
tblVehicleEF	SBUS	10.44	3.09
tblVehicleEF	SBUS	4.30	4.82
tblVehicleEF	SBUS	14.81	0.97
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.3900e-004	3.8000e-005
tblVehicleEF	SBUS	0.01	4.5200e-003
tblVehicleEF	SBUS	2.7480e-003	2.6990e-003
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.9600e-004	3.5000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.69	0.29
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.7300e-004	4.8000e-005
tblVehicleEF	SBUS	2.8640e-003	1.0840e-003
tblVehicleEF	SBUS	0.02	9.2760e-003
tblVehicleEF	SBUS	0.99	0.41
tblVehicleEF	SBUS	1.3060e-003	5.8600e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.3410e-003
tblVehicleEF	UBUS	8.73	34.76
tblVehicleEF	UBUS	13.74	0.86
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.55
tblVehicleEF	UBUS	5.37	0.38
tblVehicleEF	UBUS	13.41	0.13
tblVehicleEF	UBUS	0.52	0.07

tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.11	0.03
tblVehicleEF	UBUS	9.9430e-003	2.9850e-003
tblVehicleEF	UBUS	1.6230e-003	1.1400e-004
tblVehicleEF	UBUS	7.7250e-003	1.2190e-003
tblVehicleEF	UBUS	0.11	9.1530e-003
tblVehicleEF	UBUS	3.7950e-003	7.3300e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.22	0.04
tblVehicleEF	UBUS	1.72	4.45
tblVehicleEF	UBUS	0.07	8.4770e-003
tblVehicleEF	UBUS	8.82	34.76
tblVehicleEF	UBUS	11.27	0.74
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.34

tblVehicleEF	UBUS	4.99	0.38
tblVehicleEF	UBUS	13.30	0.12
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	0.56	0.07
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.99	0.03
tblVehicleEF	UBUS	9.9450e-003	2.9850e-003
tblVehicleEF	UBUS	1.5810e-003	1.1200e-004
tblVehicleEF	UBUS	0.01	2.2260e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	8.9390e-003	1.4740e-003
tblVehicleEF	UBUS	2.33	4.54
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	1.09	0.03
tblVehicleEF	UBUS	1.71	4.45
tblVehicleEF	UBUS	0.08	9.4210e-003
tblVehicleEF	UBUS	8.74	34.76

tblVehicleEF	UBUS	13.29	0.88
tblVehicleEF	UBUS	1,832.63	1,688.48
tblVehicleEF	UBUS	137.32	11.57
tblVehicleEF	UBUS	5.27	0.38
tblVehicleEF	UBUS	13.39	0.13
tblVehicleEF	UBUS	0.52	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.06	2.6700e-003
tblVehicleEF	UBUS	1.4180e-003	1.5200e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.06	2.5420e-003
tblVehicleEF	UBUS	1.3040e-003	1.4000e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	0.55	0.07
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.9440e-003	2.9850e-003
tblVehicleEF	UBUS	1.6160e-003	1.1400e-004
tblVehicleEF	UBUS	8.7500e-003	1.2250e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	3.9410e-003	7.4100e-004
tblVehicleEF	UBUS	2.32	4.54
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.20	0.04

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	9.70
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.63
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	9.70
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.63
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	9.70

tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.63

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2571	2.7527	1.8954	4.4700e-003	0.9629	0.1172	1.0801	0.4002	0.1081	0.5083	0.0000	398.2401	398.2401	0.1055	0.0000	400.8774
2023	2.4571	5.8024	7.4305	0.0313	2.2110	0.0920	2.3031	0.5927	0.0859	0.6786	0.0000	2,893.3867	2,893.3867	0.1780	0.0000	2,897.8366
Maximum	**2.4571**	**5.8024**	**7.4305**	**0.0313**	**2.2110**	**0.1172**	**2.3031**	**0.5927**	**0.1081**	**0.6786**	**0.0000**	**2,893.3867**	**2,893.3867**	**0.1780**	**0.0000**	**2,897.8366**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2571	2.7527	1.8954	4.4700e-003	0.3916	0.1172	0.5088	0.1605	0.1081	0.2686	0.0000	398.2397	398.2397	0.1055	0.0000	400.8770
2023	2.4571	5.8024	7.4305	0.0313	1.9596	0.0920	2.0517	0.5304	0.0859	0.6163	0.0000	2,893.3864	2,893.3864	0.1780	0.0000	2,897.8363
Maximum	**2.4571**	**5.8024**	**7.4305**	**0.0313**	**1.9596**	**0.1172**	**2.0517**	**0.5304**	**0.1081**	**0.6163**	**0.0000**	**2,893.3864**	**2,893.3864**	**0.1780**	**0.0000**	**2,897.8363**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**25.92**	**0.00**	**24.32**	**30.42**	**0.00**	**25.45**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	1.2215	1.2215
2	9-1-2022	11-30-2022	1.3096	1.3096
3	12-1-2022	2-28-2023	2.1179	2.1179
4	3-1-2023	5-31-2023	4.9551	4.9551
5	6-1-2023	8-31-2023	1.6170	1.6170
		Highest	4.9551	4.9551

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Energy	0.1290	1.1731	0.9854	7.0400e-003		0.0892	0.0892		0.0892	0.0892	0.0000	7,069.9532	7,069.9532	0.3536	0.0915	7,106.0618
Mobile	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952
Waste						0.0000	0.0000		0.0000	0.0000	642.2654	0.0000	642.2654	37.9568	0.0000	1,591.1854
Water						0.0000	0.0000		0.0000	0.0000	232.7709	2,256.7337	2,489.5046	24.0360	0.5910	3,266.5354
Total	**15.8397**	**49.5466**	**42.4837**	**0.3430**	**22.1061**	**0.4924**	**22.5985**	**6.0227**	**0.4727**	**6.4954**	**875.0363**	**42,151.6433**	**43,026.6796**	**64.1093**	**0.6826**	**44,832.8120**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	11.7484	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Energy	0.1167	1.0607	0.8910	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	6,737.2303	6,737.2303	0.3393	0.0868	6,771.5760
Mobile	2.6108	48.3557	41.1087	0.3347	21.9302	0.4022	22.3325	5.9760	0.3826	6.3586	0.0000	32,704.4112	32,704.4112	1.7616	0.0000	32,748.4499
Waste						0.0000	0.0000		0.0000	0.0000	321.1327	0.0000	321.1327	18.9784	0.0000	795.5927
Water						0.0000	0.0000		0.0000	0.0000	199.6243	1,939.0197	2,138.6440	20.6135	0.5069	2,805.0436
Total	**14.4759**	**49.4170**	**42.0644**	**0.3411**	**21.9302**	**0.4831**	**22.4133**	**5.9760**	**0.4635**	**6.4394**	**520.7570**	**41,380.7872**	**41,901.5442**	**41.6931**	**0.5937**	**43,120.7965**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.61**	**0.26**	**0.99**	**0.58**	**0.80**	**1.89**	**0.82**	**0.78**	**1.95**	**0.86**	**40.49**	**1.83**	**2.61**	**34.97**	**13.02**	**3.82**

3.0 Construction Detail

Construction Phase

South Ontario Logistics Center Phase 1 - with Mitigation - San Bernardino-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	7/26/2022	5	40	
2	Site Preparation	Site Preparation	7/27/2022	10/4/2022	5	50	
3	Grading	Grading	10/5/2022	1/24/2023	5	80	
4	Building Construction	Building Construction	1/25/2023	6/30/2023	5	113	
5	Paving	Paving	2/25/2023	6/30/2023	5	90	
6	Architectural Coating	Architectural Coating	2/25/2023	6/30/2023	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 43.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,759,170; Non-Residential Outdoor: 1,586,390; Striped Parking Area: 113,311 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	1,715.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,385.00	931.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	477.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1856	0.0000	0.1856	0.0281	0.0000	0.0281	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9805	67.9805	0.0191	0.0000	68.4578
Total	**0.0528**	**0.5144**	**0.4119**	**7.8000e-004**	**0.1856**	**0.0249**	**0.2104**	**0.0281**	**0.0231**	**0.0512**	**0.0000**	**67.9805**	**67.9805**	**0.0191**	**0.0000**	**68.4578**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9100e-003	0.1833	0.0312	6.5000e-004	0.0148	4.6000e-004	0.0152	4.0500e-003	4.4000e-004	4.4900e-003	0.0000	62.7730	62.7730	3.4900e-003	0.0000	62.8601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	9.4000e-004	9.8000e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6313	2.6313	7.0000e-005	0.0000	2.6331
Total	**6.2000e-003**	**0.1843**	**0.0410**	**6.8000e-004**	**0.0181**	**4.8000e-004**	**0.0185**	**4.9200e-003**	**4.6000e-004**	**5.3800e-003**	**0.0000**	**65.4043**	**65.4043**	**3.5600e-003**	**0.0000**	**65.4932**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0724	0.0000	0.0724	0.0110	0.0000	0.0110	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0528	0.5144	0.4119	7.8000e-004		0.0249	0.0249		0.0231	0.0231	0.0000	67.9804	67.9804	0.0191	0.0000	68.4578
Total	**0.0528**	**0.5144**	**0.4119**	**7.8000e-004**	**0.0724**	**0.0249**	**0.0972**	**0.0110**	**0.0231**	**0.0341**	**0.0000**	**67.9804**	**67.9804**	**0.0191**	**0.0000**	**68.4578**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9100e-003	0.1833	0.0312	6.5000e-004	0.0138	4.6000e-004	0.0142	3.8100e-003	4.4000e-004	4.2500e-003	0.0000	62.7730	62.7730	3.4900e-003	0.0000	62.8601
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	9.4000e-004	9.8000e-003	3.0000e-005	3.0300e-003	2.0000e-005	3.0500e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.6313	2.6313	7.0000e-005	0.0000	2.6331
Total	**6.2000e-003**	**0.1843**	**0.0410**	**6.8000e-004**	**0.0168**	**4.8000e-004**	**0.0173**	**4.6200e-003**	**4.6000e-004**	**5.0800e-003**	**0.0000**	**65.4043**	**65.4043**	**3.5600e-003**	**0.0000**	**65.4932**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4517	0.0000	0.4517	0.2483	0.0000	0.2483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0793	0.8271	0.4924	9.5000e-004		0.0403	0.0403		0.0371	0.0371	0.0000	83.5985	83.5985	0.0270	0.0000	84.2744
Total	**0.0793**	**0.8271**	**0.4924**	**9.5000e-004**	**0.4517**	**0.0403**	**0.4920**	**0.2483**	**0.0371**	**0.2854**	**0.0000**	**83.5985**	**83.5985**	**0.0270**	**0.0000**	**84.2744**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9400e-003	1.4100e-003	0.0147	4.0000e-005	4.9300e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.9470	3.9470	1.0000e-004	0.0000	3.9496
Total	**1.9400e-003**	**1.4100e-003**	**0.0147**	**4.0000e-005**	**4.9300e-003**	**3.0000e-005**	**4.9700e-003**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**0.0000**	**3.9470**	**3.9470**	**1.0000e-004**	**0.0000**	**3.9496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1762	0.0000	0.1762	0.0968	0.0000	0.0968	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0793	0.8271	0.4924	9.5000e-004		0.0403	0.0403		0.0371	0.0371	0.0000	83.5984	83.5984	0.0270	0.0000	84.2743
Total	**0.0793**	**0.8271**	**0.4924**	**9.5000e-004**	**0.1762**	**0.0403**	**0.2165**	**0.0968**	**0.0371**	**0.1339**	**0.0000**	**83.5984**	**83.5984**	**0.0270**	**0.0000**	**84.2743**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9400e-003	1.4100e-003	0.0147	4.0000e-005	4.5500e-003	3.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.9470	3.9470	1.0000e-004	0.0000	3.9496
Total	**1.9400e-003**	**1.4100e-003**	**0.0147**	**4.0000e-005**	**4.5500e-003**	**3.0000e-005**	**4.5800e-003**	**1.2200e-003**	**3.0000e-005**	**1.2400e-003**	**0.0000**	**3.9470**	**3.9470**	**1.0000e-004**	**0.0000**	**3.9496**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2958	0.0000	0.2958	0.1157	0.0000	0.1157	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1142	1.2236	0.9148	1.9600e-003		0.0515	0.0515		0.0474	0.0474	0.0000	171.7840	171.7840	0.0556	0.0000	173.1730
Total	**0.1142**	**1.2236**	**0.9148**	**1.9600e-003**	**0.2958**	**0.0515**	**0.3473**	**0.1157**	**0.0474**	**0.1631**	**0.0000**	**171.7840**	**171.7840**	**0.0556**	**0.0000**	**173.1730**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.9700e-003	0.0206	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5258	5.5258	1.4000e-004	0.0000	5.5294
Total	**2.7100e-003**	**1.9700e-003**	**0.0206**	**6.0000e-005**	**6.9100e-003**	**4.0000e-005**	**6.9500e-003**	**1.8300e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5258**	**5.5258**	**1.4000e-004**	**0.0000**	**5.5294**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1153	0.0000	0.1153	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1142	1.2236	0.9148	1.9600e-003		0.0515	0.0515		0.0474	0.0474	0.0000	171.7838	171.7838	0.0556	0.0000	173.1727
Total	**0.1142**	**1.2236**	**0.9148**	**1.9600e-003**	**0.1153**	**0.0515**	**0.1668**	**0.0451**	**0.0474**	**0.0925**	**0.0000**	**171.7838**	**171.7838**	**0.0556**	**0.0000**	**173.1727**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.9700e-003	0.0206	6.0000e-005	6.3700e-003	4.0000e-005	6.4100e-003	1.7000e-003	4.0000e-005	1.7400e-003	0.0000	5.5258	5.5258	1.4000e-004	0.0000	5.5294
Total	**2.7100e-003**	**1.9700e-003**	**0.0206**	**6.0000e-005**	**6.3700e-003**	**4.0000e-005**	**6.4100e-003**	**1.7000e-003**	**4.0000e-005**	**1.7400e-003**	**0.0000**	**5.5258**	**5.5258**	**1.4000e-004**	**0.0000**	**5.5294**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1572	0.0000	0.1572	0.0396	0.0000	0.0396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
Total	**0.0282**	**0.2934**	**0.2384**	**5.3000e-004**	**0.1572**	**0.0121**	**0.1694**	**0.0396**	**0.0111**	**0.0507**	**0.0000**	**46.3549**	**46.3549**	**0.0150**	**0.0000**	**46.7297**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0900e-003	2.0000e-005	1.8600e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.4351	1.4351	3.0000e-005	0.0000	1.4360
Total	**6.9000e-004**	**4.8000e-004**	**5.0900e-003**	**2.0000e-005**	**1.8600e-003**	**1.0000e-005**	**1.8800e-003**	**5.0000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.4351**	**1.4351**	**3.0000e-005**	**0.0000**	**1.4360**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0613	0.0000	0.0613	0.0154	0.0000	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
Total	**0.0282**	**0.2934**	**0.2384**	**5.3000e-004**	**0.0613**	**0.0121**	**0.0734**	**0.0154**	**0.0111**	**0.0266**	**0.0000**	**46.3549**	**46.3549**	**0.0150**	**0.0000**	**46.7297**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0900e-003	2.0000e-005	1.7200e-003	1.0000e-005	1.7300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4351	1.4351	3.0000e-005	0.0000	1.4360
Total	**6.9000e-004**	**4.8000e-004**	**5.0900e-003**	**2.0000e-005**	**1.7200e-003**	**1.0000e-005**	**1.7300e-003**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**1.4351**	**1.4351**	**3.0000e-005**	**0.0000**	**1.4360**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9697	130.9697	0.0312	0.0000	131.7486
Total	**0.0889**	**0.8128**	**0.9178**	**1.5200e-003**		**0.0395**	**0.0395**		**0.0372**	**0.0372**	**0.0000**	**130.9697**	**130.9697**	**0.0312**	**0.0000**	**131.7486**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0981	3.7369	0.8320	0.0135	0.3316	3.6500e-003	0.3353	0.0957	3.4900e-003	0.0992	0.0000	1,288.5621	1,288.5621	0.0699	0.0000	1,290.3091
Worker	0.5432	0.3793	4.0362	0.0126	1.4775	9.1000e-003	1.4866	0.3924	8.3800e-003	0.4008	0.0000	1,137.5531	1,137.5531	0.0276	0.0000	1,138.2423
Total	**0.6413**	**4.1162**	**4.8682**	**0.0260**	**1.8091**	**0.0128**	**1.8219**	**0.4881**	**0.0119**	**0.5000**	**0.0000**	**2,426.1151**	**2,426.1151**	**0.0975**	**0.0000**	**2,428.5514**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9695	130.9695	0.0312	0.0000	131.7484
Total	**0.0889**	**0.8128**	**0.9178**	**1.5200e-003**		**0.0395**	**0.0395**		**0.0372**	**0.0372**	**0.0000**	**130.9695**	**130.9695**	**0.0312**	**0.0000**	**131.7484**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0981	3.7369	0.8320	0.0135	0.3105	3.6500e-003	0.3142	0.0905	3.4900e-003	0.0940	0.0000	1,288.5621	1,288.5621	0.0699	0.0000	1,290.3091
Worker	0.5432	0.3793	4.0362	0.0126	1.3623	9.1000e-003	1.3714	0.3641	8.3800e-003	0.3725	0.0000	1,137.5531	1,137.5531	0.0276	0.0000	1,138.2423
Total	**0.6413**	**4.1162**	**4.8682**	**0.0260**	**1.6728**	**0.0128**	**1.6855**	**0.4547**	**0.0119**	**0.4665**	**0.0000**	**2,426.1151**	**2,426.1151**	**0.0975**	**0.0000**	**2,428.5514**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4586	0.6563	1.0300e-003		0.0230	0.0230		0.0211	0.0211	0.0000	90.1209	90.1209	0.0292	0.0000	90.8496
Paving	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1033**	**0.4586**	**0.6563**	**1.0300e-003**		**0.0230**	**0.0230**		**0.0211**	**0.0211**	**0.0000**	**90.1209**	**90.1209**	**0.0292**	**0.0000**	**90.8496**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9000e-003	0.0202	6.0000e-005	7.4000e-003	5.0000e-005	7.4500e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.6982	5.6982	1.4000e-004	0.0000	5.7017
Total	**2.7200e-003**	**1.9000e-003**	**0.0202**	**6.0000e-005**	**7.4000e-003**	**5.0000e-005**	**7.4500e-003**	**1.9700e-003**	**4.0000e-005**	**2.0100e-003**	**0.0000**	**5.6982**	**5.6982**	**1.4000e-004**	**0.0000**	**5.7017**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4586	0.6563	1.0300e-003		0.0230	0.0230		0.0211	0.0211	0.0000	90.1208	90.1208	0.0292	0.0000	90.8495
Paving	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1033**	**0.4586**	**0.6563**	**1.0300e-003**		**0.0230**	**0.0230**		**0.0211**	**0.0211**	**0.0000**	**90.1208**	**90.1208**	**0.0292**	**0.0000**	**90.8495**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9000e-003	0.0202	6.0000e-005	6.8200e-003	5.0000e-005	6.8700e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.6982	5.6982	1.4000e-004	0.0000	5.7017
Total	**2.7200e-003**	**1.9000e-003**	**0.0202**	**6.0000e-005**	**6.8200e-003**	**5.0000e-005**	**6.8700e-003**	**1.8200e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.6982**	**5.6982**	**1.4000e-004**	**0.0000**	**5.7017**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6200e-003	0.0586	0.0815	1.3000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	11.4896	11.4896	6.9000e-004	0.0000	11.5068
Total	**1.5055**	**0.0586**	**0.0815**	**1.3000e-004**		**3.1900e-003**	**3.1900e-003**		**3.1900e-003**	**3.1900e-003**	**0.0000**	**11.4896**	**11.4896**	**6.9000e-004**	**0.0000**	**11.5068**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0604	0.6429	2.0000e-003	0.2354	1.4500e-003	0.2368	0.0625	1.3300e-003	0.0638	0.0000	181.2031	181.2031	4.3900e-003	0.0000	181.3129
Total	**0.0865**	**0.0604**	**0.6429**	**2.0000e-003**	**0.2354**	**1.4500e-003**	**0.2368**	**0.0625**	**1.3300e-003**	**0.0638**	**0.0000**	**181.2031**	**181.2031**	**4.3900e-003**	**0.0000**	**181.3129**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6200e-003	0.0586	0.0815	1.3000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	11.4896	11.4896	6.9000e-004	0.0000	11.5068
Total	**1.5055**	**0.0586**	**0.0815**	**1.3000e-004**		**3.1900e-003**	**3.1900e-003**		**3.1900e-003**	**3.1900e-003**	**0.0000**	**11.4896**	**11.4896**	**6.9000e-004**	**0.0000**	**11.5068**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0604	0.6429	2.0000e-003	0.2170	1.4500e-003	0.2184	0.0580	1.3300e-003	0.0593	0.0000	181.2031	181.2031	4.3900e-003	0.0000	181.3129
Total	**0.0865**	**0.0604**	**0.6429**	**2.0000e-003**	**0.2170**	**1.4500e-003**	**0.2184**	**0.0580**	**1.3300e-003**	**0.0593**	**0.0000**	**181.2031**	**181.2031**	**4.3900e-003**	**0.0000**	**181.3129**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6108	48.3557	41.1087	0.3347	21.9302	0.4022	22.3325	5.9760	0.3826	6.3586	0.0000	32,704.4112	32,704.4112	1.7616	0.0000	32,748.4499
Unmitigated	2.6151	48.3729	41.4335	0.3360	22.1061	0.4030	22.5091	6.0227	0.3833	6.4060	0.0000	32,824.8305	32,824.8305	1.7626	0.0000	32,868.8952

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	5,830.02	5,830.02	5830.02	35,227,309	34,755,263
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,402.00	1,402.00	1402.00	20,413,147	20,413,147
Total	7,232.02	7,232.02	7,232.02	55,640,457	55,168,411

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Refrigerated Warehouse-No Rail	0.801671	0.000000	0.000000	0.000000	0.000000	0.039578	0.042216	0.116535	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.218107	0.194787	0.587106	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,582.5592	5,582.5592	0.3172	0.0656	5,610.0433
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,792.8584	5,792.8584	0.3291	0.0681	5,821.3778
NaturalGas Mitigated	0.1167	1.0607	0.8910	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	1,154.6711	1,154.6711	0.0221	0.0212	1,161.5327
NaturalGas Unmitigated	0.1290	1.1731	0.9854	7.0400e-003		0.0892	0.0892		0.0892	0.0892	0.0000	1,277.0948	1,277.0948	0.0245	0.0234	1,284.6839

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	2.08591e+006	0.0113	0.1023	0.0859	6.1000e-004		7.7700e-003	7.7700e-003		7.7700e-003	7.7700e-003	0.0000	111.3123	111.3123	2.1300e-003	2.0400e-003	111.9738
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.73041e+007	0.0933	0.8482	0.7125	5.0900e-003		0.0645	0.0645		0.0645	0.0645	0.0000	923.4150	923.4150	0.0177	0.0169	928.9024
Unrefrigerated Warehouse-No Rail	4.54179e+006	0.0245	0.2226	0.1870	1.3400e-003		0.0169	0.0169		0.0169	0.0169	0.0000	242.3674	242.3674	4.6500e-003	4.4400e-003	243.8077
Total		**0.1291**	**1.1731**	**0.9854**	**7.0400e-003**		**0.0892**	**0.0892**		**0.0892**	**0.0892**	**0.0000**	**1,277.0948**	**1,277.0948**	**0.0245**	**0.0234**	**1,284.6839**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.46014e+006	7.8700e-003	0.0716	0.0601	4.3000e-004		5.4400e-003	5.4400e-003		5.4400e-003	5.4400e-003	0.0000	77.9186	77.9186	1.4900e-003	1.4300e-003	78.3817
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.69782e+007	0.0916	0.8323	0.6991	4.9900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	906.0207	906.0207	0.0174	0.0166	911.4048
Unrefrigerated Warehouse-No Rail	3.19939e+006	0.0173	0.1568	0.1317	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.7317	170.7317	3.2700e-003	3.1300e-003	171.7463
Total		**0.1167**	**1.0607**	**0.8910**	**6.3600e-003**		**0.0806**	**0.0806**		**0.0806**	**0.0806**	**0.0000**	**1,154.6711**	**1,154.6711**	**0.0221**	**0.0212**	**1,161.5327**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	5.72274e+006	1,324.9953	0.0753	0.0156	1,331.5186
Parking Lot	660983	153.0386	8.6900e-003	1.8000e-003	153.7920
Refrigerated Warehouse-No Rail	1.33559e+007	3,092.3104	0.1757	0.0364	3,107.5345
Unrefrigerated Warehouse-No Rail	5.28012e+006	1,222.5140	0.0695	0.0144	1,228.5327
Total		**5,792.8584**	**0.3291**	**0.0681**	**5,821.3778**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	5.1691e+006	1,196.8104	0.0680	0.0141	1,202.7025
Parking Lot	660983	153.0386	8.6900e-003	1.8000e-003	153.7920
Refrigerated Warehouse-No Rail	1.32496e+007	3,067.6958	0.1743	0.0361	3,082.7987
Unrefrigerated Warehouse-No Rail	5.03177e+006	1,165.0144	0.0662	0.0137	1,170.7500
Total		**5,582.5592**	**0.3172**	**0.0656**	**5,610.0433**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	11.7484	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Unmitigated	13.0956	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	11.5927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-003	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Total	**13.0956**	**5.9000e-004**	**0.0648**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**	**0.0000**	**0.1260**	**0.1260**	**3.3000e-004**	**0.0000**	**0.1342**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1497					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	11.5927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-003	5.9000e-004	0.0648	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.1260	0.1260	3.3000e-004	0.0000	0.1342
Total	**11.7484**	**5.9000e-004**	**0.0648**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**	**0.0000**	**0.1260**	**0.1260**	**3.3000e-004**	**0.0000**	**0.1342**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,138.6440	20.6135	0.5069	2,805.0436
Unmitigated	2,489.5046	24.0360	0.5910	3,266.5354

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 17.4075	44.7777	2.5400e-003	5.3000e-004	44.9982
Industrial Park	139.011 / 0	463.1896	4.5535	0.1119	610.3678
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	77.3092 / 0	257.5964	2.5324	0.0622	339.4475
Unrefrigerated Warehouse-No Rail	517.385 / 0	1,723.9409	16.9476	0.4164	2,271.7220
Total		**2,489.5046**	**24.0360**	**0.5910**	**3,266.5354**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 16.3457	42.0463	2.3900e-003	4.9000e-004	42.2533
Industrial Park	119.216 / 0	397.2314	3.9051	0.0960	523.4514
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	66.3004 / 0	220.9147	2.1718	0.0534	291.1101
Unrefrigerated Warehouse-No Rail	443.709 / 0	1,478.4517	14.5343	0.3571	1,948.2288
Total		**2,138.6440**	**20.6135**	**0.5069**	**2,805.0436**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	321.1327	18.9784	0.0000	795.5927
Unmitigated	642.2654	37.9568	0.0000	1,591.1854

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.26	0.2558	0.0151	0.0000	0.6337
Industrial Park	745.4	151.3095	8.9421	0.0000	374.8628
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	314.25	63.7899	3.7699	0.0000	158.0368
Unrefrigerated Warehouse-No Rail	2103.1	426.9103	25.2297	0.0000	1,057.6522
Total		**642.2654**	**37.9568**	**0.0000**	**1,591.1854**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.63	0.1279	7.5600e-003	0.0000	0.3168
Industrial Park	372.7	75.6547	4.4711	0.0000	187.4314
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	157.125	31.8950	1.8849	0.0000	79.0184
Unrefrigerated Warehouse-No Rail	1051.55	213.4552	12.6148	0.0000	528.8261
Total		**321.1327**	**18.9784**	**0.0000**	**795.5927**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 2 - No Mitigation

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Annual

Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - Rule 1113

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use 4178/474.107 ksf= 8.81235670428827247857551143518 24 , truck trip rate shown under unrefrigerated w/h 1036/1536.163 ksf = 0.67440759867279709249604371411107

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - Rule 1113

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 forklifts, same as Phase 1. Assume 8 yard trucks, same as phase 1, 200 hp

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstructionPhase	NumDays	110.00	90.00
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tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
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tblFleetMix	OBUS	1.3650e-003	0.00
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tblFleetMix	UBUS	1.4910e-003	0.00
tblFleetMix	UBUS	1.4910e-003	0.00
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tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
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tblVehicleEF	LDA	0.03	0.19
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tblVehicleEF	LDA	0.04	0.22

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tblVehicleEF	LDA	0.03	0.04
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tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.20	0.34

tblVehicleEF	LDT1	2.9610e-003	2.9310e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	0.29	0.22
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003

tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004

tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09

tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14

tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003

tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003

tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18

tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003

tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003

tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03

tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003

tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004

tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82

tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003

tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004

tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11

tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17

tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.22	0.40
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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
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tblVehicleEF	MH	58.77	18.16
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tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06

tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
tblVehicleEF	MH	5.08	1.82
tblVehicleEF	MH	1,051.62	1,459.25
tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74

tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
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tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004

tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
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tblVehicleEF	MHD	12.05	1.86
tblVehicleEF	MHD	1.0400e-004	2.8500e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
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tblVehicleEF	MHD	2.6470e-003	6.5470e-003
tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
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tblVehicleEF	MHD	0.02	0.01

tblVehicleEF	MHD	5.6000e-004	2.0700e-004
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tblVehicleEF	MHD	0.01	0.07
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tblVehicleEF	MHD	0.01	8.8640e-003
tblVehicleEF	MHD	5.8000e-004	5.9000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.01	0.07
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tblVehicleEF	MHD	0.23	0.14
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tblVehicleEF	MHD	0.44	0.35
tblVehicleEF	MHD	0.60	1.01
tblVehicleEF	MHD	12.02	1.86
tblVehicleEF	MHD	8.7000e-005	2.4400e-004

tblVehicleEF	MHD	2.7700e-003	6.8460e-003
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tblVehicleEF	MHD	2.0770e-003	6.8400e-004
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tblVehicleEF	MHD	0.02	0.01
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tblVehicleEF	MHD	0.01	0.07
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.2630e-003	4.0500e-004
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tblVehicleEF	MHD	2.6040e-003	9.5900e-004
tblVehicleEF	MHD	0.04	5.8670e-003
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tblVehicleEF	MHD	0.23	0.14

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tblVehicleEF	MHD	6.8900e-004	6.8000e-005
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tblVehicleEF	MHD	0.02	0.01
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tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.26	0.03
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tblVehicleEF	MHD	1.1160e-003	3.8000e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4700e-004	2.0900e-004

tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.29	0.03
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tblVehicleEF	OBUS	7.2410e-003	4.7730e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.54
tblVehicleEF	OBUS	0.47	0.58
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tblVehicleEF	OBUS	1.1000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6300e-004	1.1210e-003
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tblVehicleEF	OBUS	0.05	0.29

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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0000e-004	1.9600e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
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tblVehicleEF	OBUS	0.04	0.06
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tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.12
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tblVehicleEF	OBUS	7.4380e-003	4.8890e-003
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tblVehicleEF	OBUS	9.0000e-006	8.2000e-005
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	9.0000e-006	7.8000e-005

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tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	6.6000e-004	6.9900e-004
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tblVehicleEF	OBUS	7.9200e-004	1.9400e-004
tblVehicleEF	OBUS	3.8500e-003	4.6210e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.9610e-003	2.1940e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	OBUS	0.01	8.5820e-003
tblVehicleEF	OBUS	7.2610e-003	4.7770e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.54
tblVehicleEF	OBUS	0.48	0.58
tblVehicleEF	OBUS	5.55	2.33
tblVehicleEF	OBUS	61.15	75.21
tblVehicleEF	OBUS	1,122.26	1,367.42

tblVehicleEF	OBUS	70.20	19.84
tblVehicleEF	OBUS	0.12	0.29
tblVehicleEF	OBUS	0.44	0.98
tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12

tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003
tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04

tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003

tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21

tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94
tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004

tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004

tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02

tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003
tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003

tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2010	2.0377	1.5870	3.4900e-003	0.8061	0.0873	0.8933	0.3924	0.0803	0.4727	0.0000	306.6975	306.6975	0.0961	0.0000	309.0996
2024	6.0180	4.6882	5.8795	0.0248	1.7291	0.0756	1.8047	0.4503	0.0707	0.5210	0.0000	2,290.1613	2,290.1613	0.1454	0.0000	2,293.7964
Maximum	**6.0180**	**4.6882**	**5.8795**	**0.0248**	**1.7291**	**0.0873**	**1.8047**	**0.4503**	**0.0803**	**0.5210**	**0.0000**	**2,290.1613**	**2,290.1613**	**0.1454**	**0.0000**	**2,293.7964**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2010	2.0377	1.5869	3.4900e-003	0.3215	0.0873	0.4088	0.1550	0.0803	0.2353	0.0000	306.6971	306.6971	0.0961	0.0000	309.0993
2024	6.0180	4.6882	5.8795	0.0248	1.5384	0.0756	1.6139	0.4113	0.0707	0.4819	0.0000	2,290.1610	2,290.1610	0.1454	0.0000	2,293.7961
Maximum	**6.0180**	**4.6882**	**5.8795**	**0.0248**	**1.5384**	**0.0873**	**1.6139**	**0.4113**	**0.0803**	**0.4819**	**0.0000**	**2,290.1610**	**2,290.1610**	**0.1454**	**0.0000**	**2,293.7961**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**26.63**	**0.00**	**25.03**	**32.81**	**0.00**	**27.82**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-5-2023	10-4-2023	1.0561	1.0561
2	10-5-2023	1-4-2024	1.2716	1.2716
3	1-5-2024	4-4-2024	4.2310	4.2310
4	4-5-2024	7-4-2024	6.3097	6.3097
		Highest	6.3097	6.3097

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.7156	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Energy	0.0898	0.8159	0.6854	4.9000e-003		0.0620	0.0620		0.0620	0.0620	0.0000	5,002.8779	5,002.8779	0.2508	0.0647	5,028.4134
Mobile	1.7983	35.9156	28.9589	0.2430	16.0417	0.2906	16.3323	4.3723	0.2764	4.6487	0.0000	23,752.0284	23,752.0284	1.2551	0.0000	23,783.4067
Offroad	1.4080	13.0973	15.8459	0.0257		0.7136	0.7136		0.6565	0.6565	0.0000	2,260.6232	2,260.6232	0.7311	0.0000	2,278.9014
Waste						0.0000	0.0000		0.0000	0.0000	456.4313	0.0000	456.4313	26.9743	0.0000	1,130.7892
Water						0.0000	0.0000		0.0000	0.0000	164.3236	1,592.4451	1,756.7686	16.9681	0.4172	2,305.3067
Total	**12.0116**	**49.8292**	**45.5356**	**0.2736**	**16.0417**	**1.0664**	**17.1081**	**4.3723**	**0.9951**	**5.3674**	**620.7548**	**32,608.0631**	**33,228.8179**	**46.1797**	**0.4819**	**34,526.9119**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.7156	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Energy	0.0809	0.7356	0.6179	4.4100e-003		0.0559	0.0559		0.0559	0.0559	0.0000	4,757.9333	4,757.9333	0.2402	0.0612	4,782.1738
Mobile	1.7983	35.9156	28.9589	0.2430	16.0417	0.2906	16.3323	4.3723	0.2764	4.6487	0.0000	23,752.0284	23,752.0284	1.2551	0.0000	23,783.4067
Offroad	1.4080	13.0973	15.8459	0.0257		0.7136	0.7136		0.6565	0.6565	0.0000	2,260.6232	2,260.6232	0.7311	0.0000	2,278.9014
Waste						0.0000	0.0000		0.0000	0.0000	228.2156	0.0000	228.2156	13.4872	0.0000	565.3946
Water						0.0000	0.0000		0.0000	0.0000	131.4589	1,278.2546	1,409.7134	13.5747	0.3338	1,848.5650
Total	**12.0027**	**49.7489**	**45.4681**	**0.2731**	**16.0417**	**1.0603**	**17.1020**	**4.3723**	**0.9890**	**5.3613**	**359.6745**	**32,048.9280**	**32,408.6025**	**29.2885**	**0.3950**	**33,258.5360**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.07**	**0.16**	**0.15**	**0.18**	**0.00**	**0.57**	**0.04**	**0.00**	**0.61**	**0.11**	**42.06**	**1.71**	**2.47**	**36.58**	**18.02**	**3.67**

3.0 Construction Detail

Construction Phase

South Ontario Logistics Center Phase 2 - No Mitigation - San Bernardino-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 30.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4517	0.0000	0.4517	0.2483	0.0000	0.2483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6267	83.6267	0.0271	0.0000	84.3029
Total	**0.0665**	**0.6881**	**0.4561**	**9.5000e-004**	**0.4517**	**0.0317**	**0.4833**	**0.2483**	**0.0291**	**0.2774**	**0.0000**	**83.6267**	**83.6267**	**0.0271**	**0.0000**	**84.3029**

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2700e-003	0.0135	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.7988	3.7988	9.0000e-005	0.0000	3.8011
Total	**1.8100e-003**	**1.2700e-003**	**0.0135**	**4.0000e-005**	**4.9300e-003**	**3.0000e-005**	**4.9600e-003**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**0.0000**	**3.7988**	**3.7988**	**9.0000e-005**	**0.0000**	**3.8011**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1762	0.0000	0.1762	0.0968	0.0000	0.0968	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6266	83.6266	0.0271	0.0000	84.3028
Total	**0.0665**	**0.6881**	**0.4561**	**9.5000e-004**	**0.1762**	**0.0317**	**0.2078**	**0.0968**	**0.0291**	**0.1259**	**0.0000**	**83.6266**	**83.6266**	**0.0271**	**0.0000**	**84.3028**

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2700e-003	0.0135	4.0000e-005	4.5500e-003	3.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.7988	3.7988	9.0000e-005	0.0000	3.8011
Total	**1.8100e-003**	**1.2700e-003**	**0.0135**	**4.0000e-005**	**4.5500e-003**	**3.0000e-005**	**4.5800e-003**	**1.2200e-003**	**3.0000e-005**	**1.2400e-003**	**0.0000**	**3.7988**	**3.7988**	**9.0000e-005**	**0.0000**	**3.8011**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3409	0.0000	0.3409	0.1406	0.0000	0.1406	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1296	1.3461	1.0940	2.4200e-003		0.0556	0.0556		0.0511	0.0511	0.0000	212.6873	212.6873	0.0688	0.0000	214.4070
Total	**0.1296**	**1.3461**	**1.0940**	**2.4200e-003**	**0.3409**	**0.0556**	**0.3965**	**0.1406**	**0.0511**	**0.1917**	**0.0000**	**212.6873**	**212.6873**	**0.0688**	**0.0000**	**214.4070**

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.2000e-003	0.0234	7.0000e-005	8.5500e-003	5.0000e-005	8.6100e-003	2.2700e-003	5.0000e-005	2.3200e-003	0.0000	6.5846	6.5846	1.6000e-004	0.0000	6.5886
Total	**3.1400e-003**	**2.2000e-003**	**0.0234**	**7.0000e-005**	**8.5500e-003**	**5.0000e-005**	**8.6100e-003**	**2.2700e-003**	**5.0000e-005**	**2.3200e-003**	**0.0000**	**6.5846**	**6.5846**	**1.6000e-004**	**0.0000**	**6.5886**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1330	0.0000	0.1330	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1296	1.3461	1.0940	2.4200e-003		0.0556	0.0556		0.0511	0.0511	0.0000	212.6871	212.6871	0.0688	0.0000	214.4067
Total	**0.1296**	**1.3461**	**1.0940**	**2.4200e-003**	**0.1330**	**0.0556**	**0.1885**	**0.0548**	**0.0511**	**0.1059**	**0.0000**	**212.6871**	**212.6871**	**0.0688**	**0.0000**	**214.4067**

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.2000e-003	0.0234	7.0000e-005	7.8900e-003	5.0000e-005	7.9400e-003	2.1100e-003	5.0000e-005	2.1600e-003	0.0000	6.5846	6.5846	1.6000e-004	0.0000	6.5886
Total	**3.1400e-003**	**2.2000e-003**	**0.0234**	**7.0000e-005**	**7.8900e-003**	**5.0000e-005**	**7.9400e-003**	**2.1100e-003**	**5.0000e-005**	**2.1600e-003**	**0.0000**	**6.5846**	**6.5846**	**1.6000e-004**	**0.0000**	**6.5886**

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1121	0.0000	0.1121	0.0148	0.0000	0.0148	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0324	0.0277	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.4520	5.4520	1.7600e-003	0.0000	5.4960
Total	**3.2200e-003**	**0.0324**	**0.0277**	**6.0000e-005**	**0.1121**	**1.3400e-003**	**0.1134**	**0.0148**	**1.2300e-003**	**0.0160**	**0.0000**	**5.4520**	**5.4520**	**1.7600e-003**	**0.0000**	**5.4960**

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1634	0.1634	0.0000	0.0000	0.1635
Total	**8.0000e-005**	**5.0000e-005**	**5.6000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1634**	**0.1634**	**0.0000**	**0.0000**	**0.1635**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0437	0.0000	0.0437	5.7600e-003	0.0000	5.7600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0324	0.0277	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.4520	5.4520	1.7600e-003	0.0000	5.4960
Total	**3.2200e-003**	**0.0324**	**0.0277**	**6.0000e-005**	**0.0437**	**1.3400e-003**	**0.0451**	**5.7600e-003**	**1.2300e-003**	**6.9900e-003**	**0.0000**	**5.4520**	**5.4520**	**1.7600e-003**	**0.0000**	**5.4960**

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1634	0.1634	0.0000	0.0000	0.1635
Total	**8.0000e-005**	**5.0000e-005**	**5.6000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1634**	**0.1634**	**0.0000**	**0.0000**	**0.1635**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0942	0.8604	1.0347	1.7200e-003		0.0393	0.0393		0.0369	0.0369	0.0000	148.3834	148.3834	0.0351	0.0000	149.2606
Total	**0.0942**	**0.8604**	**1.0347**	**1.7200e-003**		**0.0393**	**0.0393**		**0.0369**	**0.0369**	**0.0000**	**148.3834**	**148.3834**	**0.0351**	**0.0000**	**149.2606**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0772	2.9975	0.6387	0.0107	0.2647	2.9000e-003	0.2676	0.0764	2.7700e-003	0.0792	0.0000	1,027.3219	1,027.3219	0.0557	0.0000	1,028.7151
Worker	0.4084	0.2741	2.9978	9.7100e-003	1.1789	7.1900e-003	1.1861	0.3131	6.6200e-003	0.3197	0.0000	878.2188	878.2188	0.0201	0.0000	878.7207
Total	**0.4856**	**3.2717**	**3.6365**	**0.0204**	**1.4436**	**0.0101**	**1.4537**	**0.3895**	**9.3900e-003**	**0.3989**	**0.0000**	**1,905.5407**	**1,905.5407**	**0.0758**	**0.0000**	**1,907.4358**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0942	0.8604	1.0347	1.7200e-003		0.0393	0.0393		0.0369	0.0369	0.0000	148.3833	148.3833	0.0351	0.0000	149.2605
Total	**0.0942**	**0.8604**	**1.0347**	**1.7200e-003**		**0.0393**	**0.0393**		**0.0369**	**0.0369**	**0.0000**	**148.3833**	**148.3833**	**0.0351**	**0.0000**	**149.2605**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0772	2.9975	0.6387	0.0107	0.2478	2.9000e-003	0.2507	0.0723	2.7700e-003	0.0750	0.0000	1,027.3219	1,027.3219	0.0557	0.0000	1,028.7151
Worker	0.4084	0.2741	2.9978	9.7100e-003	1.0870	7.1900e-003	1.0941	0.2905	6.6200e-003	0.2972	0.0000	878.2188	878.2188	0.0201	0.0000	878.7207
Total	**0.4856**	**3.2717**	**3.6365**	**0.0204**	**1.3348**	**0.0101**	**1.3449**	**0.3628**	**9.3900e-003**	**0.3722**	**0.0000**	**1,905.5407**	**1,905.5407**	**0.0758**	**0.0000**	**1,907.4358**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.4286	0.6582	1.0300e-003		0.0211	0.0211		0.0194	0.0194	0.0000	90.1194	90.1194	0.0292	0.0000	90.8481
Paving	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0842**	**0.4286**	**0.6582**	**1.0300e-003**		**0.0211**	**0.0211**		**0.0194**	**0.0194**	**0.0000**	**90.1194**	**90.1194**	**0.0292**	**0.0000**	**90.8481**

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5600e-003	1.7200e-003	0.0188	6.0000e-005	7.4000e-003	5.0000e-005	7.4500e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.5134	5.5134	1.3000e-004	0.0000	5.5165
Total	**2.5600e-003**	**1.7200e-003**	**0.0188**	**6.0000e-005**	**7.4000e-003**	**5.0000e-005**	**7.4500e-003**	**1.9700e-003**	**4.0000e-005**	**2.0100e-003**	**0.0000**	**5.5134**	**5.5134**	**1.3000e-004**	**0.0000**	**5.5165**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.4286	0.6582	1.0300e-003		0.0211	0.0211		0.0194	0.0194	0.0000	90.1193	90.1193	0.0292	0.0000	90.8479
Paving	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0842**	**0.4286**	**0.6582**	**1.0300e-003**		**0.0211**	**0.0211**		**0.0194**	**0.0194**	**0.0000**	**90.1193**	**90.1193**	**0.0292**	**0.0000**	**90.8479**

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5600e-003	1.7200e-003	0.0188	6.0000e-005	6.8200e-003	5.0000e-005	6.8700e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.5134	5.5134	1.3000e-004	0.0000	5.5165
Total	**2.5600e-003**	**1.7200e-003**	**0.0188**	**6.0000e-005**	**6.8200e-003**	**5.0000e-005**	**6.8700e-003**	**1.8200e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5134**	**5.5134**	**1.3000e-004**	**0.0000**	**5.5165**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2826					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1300e-003	0.0549	0.0815	1.3000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	11.4896	11.4896	6.5000e-004	0.0000	11.5058
Total	**5.2908**	**0.0549**	**0.0815**	**1.3000e-004**		**2.7400e-003**	**2.7400e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**11.4896**	**11.4896**	**6.5000e-004**	**0.0000**	**11.5058**

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0574	0.0386	0.4216	1.3700e-003	0.1658	1.0100e-003	0.1668	0.0440	9.3000e-004	0.0450	0.0000	123.4995	123.4995	2.8200e-003	0.0000	123.5701
Total	**0.0574**	**0.0386**	**0.4216**	**1.3700e-003**	**0.1658**	**1.0100e-003**	**0.1668**	**0.0440**	**9.3000e-004**	**0.0450**	**0.0000**	**123.4995**	**123.4995**	**2.8200e-003**	**0.0000**	**123.5701**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2826					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1300e-003	0.0549	0.0815	1.3000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	11.4896	11.4896	6.5000e-004	0.0000	11.5058
Total	**5.2908**	**0.0549**	**0.0815**	**1.3000e-004**		**2.7400e-003**	**2.7400e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**11.4896**	**11.4896**	**6.5000e-004**	**0.0000**	**11.5058**

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0574	0.0386	0.4216	1.3700e-003	0.1529	1.0100e-003	0.1539	0.0409	9.3000e-004	0.0418	0.0000	123.4995	123.4995	2.8200e-003	0.0000	123.5701
Total	**0.0574**	**0.0386**	**0.4216**	**1.3700e-003**	**0.1529**	**1.0100e-003**	**0.1539**	**0.0409**	**9.3000e-004**	**0.0418**	**0.0000**	**123.4995**	**123.4995**	**2.8200e-003**	**0.0000**	**123.5701**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7983	35.9156	28.9589	0.2430	16.0417	0.2906	16.3323	4.3723	0.2764	4.6487	0.0000	23,752.0284	23,752.0284	1.2551	0.0000	23,783.4067
Unmitigated	1.7983	35.9156	28.9589	0.2430	16.0417	0.2906	16.3323	4.3723	0.2764	4.6487	0.0000	23,752.0284	23,752.0284	1.2551	0.0000	23,783.4067

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	25,245,307	25,245,307
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	15,084,131	15,084,131
Total	5,214.02	5,214.02	5,214.02	40,329,437	40,329,437

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,957.1768	3,957.1768	0.2248	0.0465	3,976.6588
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,114.6557	4,114.6557	0.2338	0.0484	4,134.9129
NaturalGas Mitigated	0.0809	0.7356	0.6179	4.4100e-003		0.0559	0.0559		0.0559	0.0559	0.0000	800.7565	800.7565	0.0154	0.0147	805.5150
NaturalGas Unmitigated	0.0898	0.8159	0.6854	4.9000e-003		0.0620	0.0620		0.0620	0.0620	0.0000	888.2222	888.2222	0.0170	0.0163	893.5005

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.64515e+006	8.8700e-003	0.0806	0.0677	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.7915	87.7915	1.6800e-003	1.6100e-003	88.3132
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.18811e+007	0.0641	0.5824	0.4892	3.4900e-003		0.0443	0.0443		0.0443	0.0443	0.0000	634.0204	634.0204	0.0122	0.0116	637.7881
Unrefrigerated Warehouse-No Rail	3.11841e+006	0.0168	0.1529	0.1284	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.4103	166.4103	3.1900e-003	3.0500e-003	167.3992
Total		**0.0897**	**0.8159**	**0.6854**	**4.8900e-003**		**0.0620**	**0.0620**		**0.0620**	**0.0620**	**0.0000**	**888.2222**	**888.2222**	**0.0170**	**0.0163**	**893.5005**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.15161e+006	6.2100e-003	0.0565	0.0474	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4541	61.4541	1.1800e-003	1.1300e-003	61.8193
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.16573e+007	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434	0.0000	622.0774	622.0774	0.0119	0.0114	625.7741
Unrefrigerated Warehouse-No Rail	2.19671e+006	0.0119	0.1077	0.0905	6.5000e-004		8.1800e-003	8.1800e-003		8.1800e-003	8.1800e-003	0.0000	117.2250	117.2250	2.2500e-003	2.1500e-003	117.9216
Total		**0.0809**	**0.7356**	**0.6179**	**4.4200e-003**		**0.0559**	**0.0559**		**0.0559**	**0.0559**	**0.0000**	**800.7565**	**800.7565**	**0.0154**	**0.0147**	**805.5150**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.5135e+006	1,045.0180	0.0594	0.0123	1,050.1628
Parking Lot	462412	107.0629	6.0800e-003	1.2600e-003	107.5900
Refrigerated Warehouse-No Rail	9.1702e+006	2,123.1926	0.1206	0.0250	2,133.6455
Unrefrigerated Warehouse-No Rail	3.62534e+006	839.3822	0.0477	9.8700e-003	843.5146
Total		**4,114.6557**	**0.2338**	**0.0484**	**4,134.9129**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.07685e+006	943.9191	0.0536	0.0111	948.5662
Parking Lot	462412	107.0629	6.0800e-003	1.2600e-003	107.5900
Refrigerated Warehouse-No Rail	9.09721e+006	2,106.2921	0.1197	0.0248	2,116.6618
Unrefrigerated Warehouse-No Rail	3.45483e+006	799.9028	0.0455	9.4000e-003	803.8409
Total		**3,957.1768**	**0.2248**	**0.0465**	**3,976.6588**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.7156	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Unmitigated	8.7156	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-003	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Total	**8.7156**	**4.1000e-004**	**0.0455**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0886**	**0.0886**	**2.3000e-004**	**0.0000**	**0.0944**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-003	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Total	**8.7156**	**4.1000e-004**	**0.0455**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0886**	**0.0886**	**2.3000e-004**	**0.0000**	**0.0944**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,409.7134	13.5747	0.3338	1,848.5650
Unmitigated	1,756.7686	16.9681	0.4172	2,305.3067

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 12.022	30.9245	1.7600e-003	3.6000e-004	31.0768
Industrial Park	109.638 / 0	365.3167	3.5913	0.0882	481.3958
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53.0811 / 0	176.8678	1.7387	0.0427	233.0674
Unrefrigerated Warehouse-No Rail	355.237 / 0	1,183.6596	11.6363	0.2859	1,559.7667
Total		**1,756.7686**	**16.9681**	**0.4172**	**2,305.3067**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 11.2887	29.0381	1.6500e-003	3.4000e-004	29.1811
Industrial Park	87.7104 / 0	292.2533	2.8731	0.0706	385.1167
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	42.4649 / 0	141.4942	1.3910	0.0342	186.4539
Unrefrigerated Warehouse-No Rail	284.19 / 0	946.9277	9.3090	0.2287	1,247.8134
Total		**1,409.7134**	**13.5747**	**0.3338**	**1,848.5650**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	228.2156	13.4872	0.0000	565.3946
Unmitigated	456.4313	26.9743	0.0000	1,130.7892

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.87	0.1766	0.0104	0.0000	0.4375
Industrial Park	587.9	119.3384	7.0527	0.0000	295.6558
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	215.77	43.7994	2.5885	0.0000	108.5111
Unrefrigerated Warehouse-No Rail	1443.99	293.1169	17.3227	0.0000	726.1848
Total		**456.4313**	**26.9743**	**0.0000**	**1,130.7891**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.435	0.0883	5.2200e-003	0.0000	0.2188
Industrial Park	293.95	59.6692	3.5264	0.0000	147.8279
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	107.885	21.8997	1.2942	0.0000	54.2555
Unrefrigerated Warehouse-No Rail	721.995	146.5585	8.6614	0.0000	363.0924
Total		**228.2156**	**13.4872**	**0.0000**	**565.3946**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	96	8.00	260	89	0.20	Diesel
Tractors/Loaders/Backhoes	8	8.00	260	200	0.37	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	1.1815	11.0815	14.2896	0.0192		0.6400	0.6400		0.5888	0.5888	0.0000	1,684.3353	1,684.3353	0.5448	0.0000	1,697.9540
Tractors/Loaders/Backhoes	0.2265	2.0158	1.5563	6.5600e-003		0.0737	0.0737		0.0678	0.0678	0.0000	576.2878	576.2878	0.1864	0.0000	580.9474
Total	**1.4080**	**13.0973**	**15.8459**	**0.0257**		**0.7136**	**0.7136**		**0.6565**	**0.6565**	**0.0000**	**2,260.6232**	**2,260.6232**	**0.7311**	**0.0000**	**2,278.9014**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

South Ontario Logistics Center Phase 2 - With Mitigation

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	474.11	1000sqft	10.88	474,107.00	0
Refrigerated Warehouse-No Rail	229.54	1000sqft	5.27	229,542.00	0
Unrefrigerated Warehouse-No Rail	1,536.16	1000sqft	35.27	1,536,163.00	0
Parking Lot	1,321.18	1000sqft	30.33	1,321,176.00	0
City Park	10.09	Acre	10.09	439,564.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	510.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Adjusted per the SCE 2018 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as 513-25*0.029-298*0.00617=510.44 to avoid double counting

Land Use - Site landscaping identified as "City Park" 439,564 sf. "Parking Lot" includes all parking spaces, truck stalls, loading docks, and drive aisles 1,321,176 sf

Construction Phase - Anticipated Construction Schedule. Building Construction, Paving, and Architectural Coating sub-phases are anticipated to overlap. Demo occurs during phase 1

Grading - Site Balanced, No import/export of soil

Architectural Coating - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Vehicle Trips - total ADT = 5214: 4178 autos and 1036 trucks. auto trip rate under Industrial Park land use 4178/474.107 ksf= 8.81235670428827247857551143518 24 , truck trip rate shown under unrefrigerated w/h 1036/1536.163 ksf = 0.67440759867279709249604371411107

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Vehicle Emission Factors - EMFAC2017 San Bernardino (SC) 2024 and SAFE Rule

Area Coating - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Commute Mitigation - Require TDM program

Area Mitigation - The Project shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC

Energy Mitigation - 2019 standards will reduce nonresidential energy use by 30% over 2016 standard, due mainly to lighting upgrades

Water Mitigation - water reduction consistent with latest building code

Waste Mitigation - AB 939 - divert at least 50% of solid waste from landfills

Operational Off-Road Equipment - Assume 96 electric forklifts, same as Phase 1

Fleet Mix - Refer to TIA for Fleet Mix

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	10
tblAreaCoating	Area_EF_Nonresidential_Interior	100	10

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tblAreaCoating	Area_EF_Parking	100	10
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tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstructionPhase	NumDays	155.00	80.00
tblConstructionPhase	NumDays	1,550.00	128.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	110.00	90.00
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tblFleetMix	HHD	0.07	0.19
tblFleetMix	HHD	0.07	0.59
tblFleetMix	LDA	0.56	1.00
tblFleetMix	LDA	0.56	0.65
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
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tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
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tblFleetMix	MDV	0.11	0.00
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tblFleetMix	MH	8.3000e-004	0.00
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tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.19
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tblFleetMix	OBUS	1.3650e-003	0.00
tblFleetMix	OBUS	1.3650e-003	0.00
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tblFleetMix	UBUS	1.4910e-003	0.00
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tblLandUse	LandUseSquareFeet	229,540.00	229,542.00
tblLandUse	LandUseSquareFeet	1,536,160.00	1,536,163.00
tblLandUse	LandUseSquareFeet	1,321,180.00	1,321,176.00
tblLandUse	LandUseSquareFeet	439,520.40	439,564.00

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tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.22	0.37
tblVehicleEF	LDT1	0.01	6.4450e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.45
tblVehicleEF	LDT1	2.41	1.86
tblVehicleEF	LDT1	320.99	317.52
tblVehicleEF	LDT1	66.91	60.67
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.16	0.23
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.33	0.30
tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.00
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.17	0.29
tblVehicleEF	LDT1	3.2290e-003	3.1420e-003
tblVehicleEF	LDT1	7.1100e-004	6.0000e-004
tblVehicleEF	LDT1	0.33	0.30

tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF	LDT1	0.24	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.18	0.72
tblVehicleEF	LDT1	0.18	0.32
tblVehicleEF	LDT1	0.01	5.6510e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.21	1.18
tblVehicleEF	LDT1	2.88	2.22
tblVehicleEF	LDT1	288.31	292.19
tblVehicleEF	LDT1	66.91	61.41
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.17	0.25
tblVehicleEF	LDT1	2.4790e-003	2.0330e-003
tblVehicleEF	LDT1	3.3490e-003	2.4480e-003
tblVehicleEF	LDT1	2.2820e-003	1.8710e-003
tblVehicleEF	LDT1	3.0800e-003	2.2510e-003
tblVehicleEF	LDT1	0.17	0.15
tblVehicleEF	LDT1	0.34	0.25
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.20	0.34
tblVehicleEF	LDT1	2.8980e-003	2.8910e-003
tblVehicleEF	LDT1	7.2000e-004	6.0800e-004
tblVehicleEF	LDT1	0.17	0.16
tblVehicleEF	LDT1	0.34	0.25

tblVehicleEF	LDT1	0.10	0.11
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.85
tblVehicleEF	LDT1	0.22	0.38
tblVehicleEF	LDT2	5.3570e-003	3.5830e-003
tblVehicleEF	LDT2	6.4770e-003	0.06
tblVehicleEF	LDT2	0.71	0.86
tblVehicleEF	LDT2	1.39	2.53
tblVehicleEF	LDT2	328.11	311.30
tblVehicleEF	LDT2	74.12	64.69
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2870e-003	3.0800e-003
tblVehicleEF	LDT2	7.6500e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LDT2	6.0780e-003	4.0310e-003
tblVehicleEF	LDT2	5.3990e-003	0.05
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.15	2.12
tblVehicleEF	LDT2	358.16	331.63
tblVehicleEF	LDT2	74.12	63.92
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.23
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	3.5890e-003	3.2810e-003
tblVehicleEF	LDT2	7.6000e-004	6.3300e-004
tblVehicleEF	LDT2	0.12	0.17
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	5.2180e-003	3.5120e-003
tblVehicleEF	LDT2	6.4370e-003	0.06
tblVehicleEF	LDT2	0.67	0.83
tblVehicleEF	LDT2	1.37	2.54
tblVehicleEF	LDT2	321.03	307.51
tblVehicleEF	LDT2	74.12	64.71
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.25
tblVehicleEF	LDT2	1.7520e-003	1.5110e-003
tblVehicleEF	LDT2	2.4320e-003	1.7810e-003
tblVehicleEF	LDT2	1.6110e-003	1.3910e-003
tblVehicleEF	LDT2	2.2360e-003	1.6370e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.09	0.28
tblVehicleEF	LDT2	3.2150e-003	3.0420e-003
tblVehicleEF	LDT2	7.6400e-004	6.4000e-004
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49

tblVehicleEF	LDT2	0.10	0.31
tblVehicleEF	LHD1	4.8470e-003	4.7970e-003
tblVehicleEF	LHD1	0.01	5.1180e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.31	0.96
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.76
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.82	1.01
tblVehicleEF	LHD1	0.92	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.35	0.51

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.4980e-003	2.7030e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7520e-003	1.4330e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD1	4.8470e-003	4.8090e-003
tblVehicleEF	LHD1	0.01	5.2120e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.91	0.62
tblVehicleEF	LHD1	2.16	0.91
tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.54
tblVehicleEF	LHD1	29.30	10.67
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.71	0.95
tblVehicleEF	LHD1	0.88	0.28
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004

tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3400e-004	1.0600e-004
tblVehicleEF	LHD1	6.8610e-003	4.8470e-003
tblVehicleEF	LHD1	0.13	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.9020e-003	2.7210e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.35	0.51
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	4.8470e-003	4.7980e-003
tblVehicleEF	LHD1	0.01	5.1240e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.89	0.61
tblVehicleEF	LHD1	2.27	0.96

tblVehicleEF	LHD1	9.22	9.11
tblVehicleEF	LHD1	599.78	638.53
tblVehicleEF	LHD1	29.30	10.75
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	1.79	0.99
tblVehicleEF	LHD1	0.91	0.29
tblVehicleEF	LHD1	9.6000e-004	9.1800e-004
tblVehicleEF	LHD1	0.01	9.9200e-003
tblVehicleEF	LHD1	0.01	8.9360e-003
tblVehicleEF	LHD1	8.6900e-004	2.3700e-004
tblVehicleEF	LHD1	9.1800e-004	8.7900e-004
tblVehicleEF	LHD1	2.5600e-003	2.4800e-003
tblVehicleEF	LHD1	0.01	8.5240e-003
tblVehicleEF	LHD1	7.9900e-004	2.1800e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	8.8000e-005
tblVehicleEF	LHD1	5.8770e-003	6.2190e-003
tblVehicleEF	LHD1	3.3600e-004	1.0600e-004
tblVehicleEF	LHD1	3.7620e-003	2.7670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	1.7190e-003	1.4520e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.38	0.54
tblVehicleEF	LHD1	0.26	0.07
tblVehicleEF	LHD2	3.2790e-003	3.4450e-003
tblVehicleEF	LHD2	3.7300e-003	3.6380e-003
tblVehicleEF	LHD2	6.5990e-003	9.0640e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.42
tblVehicleEF	LHD2	1.07	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.79
tblVehicleEF	LHD2	23.70	8.28
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.10	1.10
tblVehicleEF	LHD2	0.46	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005
tblVehicleEF	LHD2	1.1430e-003	1.5270e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3600e-004	8.5500e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4540e-003
tblVehicleEF	LHD2	3.7760e-003	3.6700e-003
tblVehicleEF	LHD2	6.3100e-003	8.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.01	0.58
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.22
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.04	1.03
tblVehicleEF	LHD2	0.44	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5500e-004	8.1000e-005
tblVehicleEF	LHD2	2.1960e-003	2.7470e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3570e-003	1.6180e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.05
tblVehicleEF	LHD2	3.2790e-003	3.4470e-003
tblVehicleEF	LHD2	3.7350e-003	3.6400e-003
tblVehicleEF	LHD2	6.5440e-003	9.0210e-003

tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.40	0.43
tblVehicleEF	LHD2	1.06	0.61
tblVehicleEF	LHD2	14.16	13.98
tblVehicleEF	LHD2	600.81	649.80
tblVehicleEF	LHD2	23.70	8.27
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.08
tblVehicleEF	LHD2	0.45	0.20
tblVehicleEF	LHD2	1.2350e-003	1.3470e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.6900e-004	1.2400e-004
tblVehicleEF	LHD2	1.1820e-003	1.2880e-003
tblVehicleEF	LHD2	2.6940e-003	2.6690e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3900e-004	1.1400e-004
tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3800e-004	1.3400e-004
tblVehicleEF	LHD2	5.8420e-003	6.2770e-003
tblVehicleEF	LHD2	2.5600e-004	8.2000e-005

tblVehicleEF	LHD2	1.1520e-003	1.5020e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2000e-004	8.5400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.08	0.29
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.74	18.80
tblVehicleEF	MCY	9.96	8.64
tblVehicleEF	MCY	169.37	213.49
tblVehicleEF	MCY	45.59	60.09
tblVehicleEF	MCY	1.15	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.20	2.34
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.13	1.82
tblVehicleEF	MCY	2.0800e-003	2.1130e-003
tblVehicleEF	MCY	6.8100e-004	5.9500e-004

tblVehicleEF	MCY	1.44	1.42
tblVehicleEF	MCY	0.81	0.78
tblVehicleEF	MCY	0.79	0.77
tblVehicleEF	MCY	2.72	2.90
tblVehicleEF	MCY	0.47	1.77
tblVehicleEF	MCY	2.32	1.99
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.87	18.83
tblVehicleEF	MCY	9.04	7.91
tblVehicleEF	MCY	169.37	213.40
tblVehicleEF	MCY	45.59	58.20
tblVehicleEF	MCY	0.98	0.97
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	3.11	2.77
tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.15	2.30
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	1.84	1.60
tblVehicleEF	MCY	2.0800e-003	2.1120e-003
tblVehicleEF	MCY	6.5700e-004	5.7600e-004
tblVehicleEF	MCY	3.11	2.77

tblVehicleEF	MCY	1.24	1.10
tblVehicleEF	MCY	2.09	1.75
tblVehicleEF	MCY	2.66	2.85
tblVehicleEF	MCY	0.47	1.74
tblVehicleEF	MCY	2.00	1.75
tblVehicleEF	MCY	0.43	0.34
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.88	18.32
tblVehicleEF	MCY	9.60	8.48
tblVehicleEF	MCY	169.37	212.66
tblVehicleEF	MCY	45.59	59.76
tblVehicleEF	MCY	1.11	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.9350e-003	2.0820e-003
tblVehicleEF	MCY	3.3460e-003	2.7600e-003
tblVehicleEF	MCY	1.8090e-003	1.9450e-003
tblVehicleEF	MCY	3.1480e-003	2.5920e-003
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.17	2.32
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.06	1.80
tblVehicleEF	MCY	2.0660e-003	2.1040e-003
tblVehicleEF	MCY	6.7300e-004	5.9100e-004
tblVehicleEF	MCY	1.69	1.57
tblVehicleEF	MCY	1.09	1.04

tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	2.68	2.88
tblVehicleEF	MCY	0.53	2.02
tblVehicleEF	MCY	2.24	1.96
tblVehicleEF	MDV	0.01	4.3910e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	1.13	0.95
tblVehicleEF	MDV	2.68	2.91
tblVehicleEF	MDV	455.56	386.87
tblVehicleEF	MDV	101.88	80.69
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.5620e-003	3.8250e-003
tblVehicleEF	MDV	1.0660e-003	7.9800e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.10

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	0.01	4.9460e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.38	1.14
tblVehicleEF	MDV	2.22	2.44
tblVehicleEF	MDV	495.92	408.21
tblVehicleEF	MDV	101.88	79.77
tblVehicleEF	MDV	0.13	0.07
tblVehicleEF	MDV	0.24	0.29
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.31
tblVehicleEF	MDV	4.9690e-003	4.0360e-003
tblVehicleEF	MDV	1.0570e-003	7.8900e-004
tblVehicleEF	MDV	0.19	0.20
tblVehicleEF	MDV	0.22	0.17
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.34
tblVehicleEF	MDV	0.01	4.3010e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.91
tblVehicleEF	MDV	2.64	2.92
tblVehicleEF	MDV	446.15	382.90
tblVehicleEF	MDV	101.88	80.71
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.31
tblVehicleEF	MDV	1.7950e-003	1.5670e-003
tblVehicleEF	MDV	2.4230e-003	1.8280e-003
tblVehicleEF	MDV	1.6540e-003	1.4450e-003
tblVehicleEF	MDV	2.2280e-003	1.6810e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.54
tblVehicleEF	MDV	0.20	0.36
tblVehicleEF	MDV	4.4680e-003	3.7850e-003
tblVehicleEF	MDV	1.0650e-003	7.9900e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.54

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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.16	1.00
tblVehicleEF	MH	5.58	1.96
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tblVehicleEF	MH	58.77	18.16
tblVehicleEF	MH	1.36	1.41
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8500e-004	1.8000e-004
tblVehicleEF	MH	1.28	0.98
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.45	0.38
tblVehicleEF	MH	0.11	0.08

tblVehicleEF	MH	0.03	1.31
tblVehicleEF	MH	0.35	0.10
tblVehicleEF	MH	0.03	9.2610e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.24	1.02
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tblVehicleEF	MH	58.77	17.93
tblVehicleEF	MH	1.24	1.31
tblVehicleEF	MH	0.79	0.23
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7600e-004	1.7700e-004
tblVehicleEF	MH	2.51	1.74
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	1.05	0.73

tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	1.30
tblVehicleEF	MH	0.33	0.09
tblVehicleEF	MH	0.03	9.0630e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.17	1.00
tblVehicleEF	MH	5.52	1.96
tblVehicleEF	MH	1,051.62	1,459.21
tblVehicleEF	MH	58.77	18.17
tblVehicleEF	MH	1.33	1.38
tblVehicleEF	MH	0.82	0.24
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.0410e-003	2.3000e-004
tblVehicleEF	MH	3.2250e-003	3.2870e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.5800e-004	2.1200e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.08	0.06
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.32	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8000e-004
tblVehicleEF	MH	1.50	1.06
tblVehicleEF	MH	0.10	0.07

tblVehicleEF	MH	0.46	0.39
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	1.38
tblVehicleEF	MH	0.35	0.10
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tblVehicleEF	MHD	1.0400e-004	2.8500e-004
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tblVehicleEF	MHD	6.3400e-004	6.3000e-005
tblVehicleEF	MHD	1.0590e-003	3.7600e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.27	0.03
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tblVehicleEF	MHD	1.0590e-003	3.7600e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6000e-004	2.0700e-004
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tblVehicleEF	MHD	0.01	0.07
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tblVehicleEF	MHD	8.7000e-005	2.4400e-004
tblVehicleEF	MHD	2.7700e-003	6.8460e-003
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tblVehicleEF	MHD	6.3400e-004	6.3000e-005
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tblVehicleEF	MHD	0.01	0.07
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tblVehicleEF	MHD	0.03	0.02
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tblVehicleEF	MHD	0.02	0.08
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tblVehicleEF	MHD	1.1160e-003	3.8000e-004
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tblVehicleEF	MHD	0.02	0.08

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tblVehicleEF	OBUS	1.1000e-005	8.8000e-005
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tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	1.9890e-003	2.5730e-003
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tblVehicleEF	OBUS	0.03	0.05
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tblVehicleEF	OBUS	0.38	0.12
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tblVehicleEF	OBUS	1.79	0.74
tblVehicleEF	OBUS	1.4000e-005	1.0600e-004
tblVehicleEF	OBUS	1.9630e-003	6.6250e-003
tblVehicleEF	OBUS	9.4500e-004	2.2200e-004
tblVehicleEF	OBUS	1.3000e-005	1.0200e-004
tblVehicleEF	OBUS	1.8550e-003	6.3210e-003
tblVehicleEF	OBUS	8.6900e-004	2.0400e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	5.9600e-004	7.1700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	1.9600e-004
tblVehicleEF	OBUS	2.0720e-003	2.6680e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.6200e-004	1.1640e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2120e-003	7.3440e-003

tblVehicleEF	SBUS	0.06	6.3240e-003
tblVehicleEF	SBUS	5.90	2.63
tblVehicleEF	SBUS	0.56	0.68
tblVehicleEF	SBUS	5.13	0.82
tblVehicleEF	SBUS	1,231.15	341.25
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.88
tblVehicleEF	SBUS	10.14	3.05
tblVehicleEF	SBUS	3.99	4.60
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	9.1600e-003	3.4680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	8.7640e-003	3.3180e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.2530e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	4.8100e-004	4.8000e-005
tblVehicleEF	SBUS	2.9390e-003	1.1930e-003
tblVehicleEF	SBUS	0.02	9.3020e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	1.3780e-003	6.0600e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	9.1030e-003	0.05
tblVehicleEF	SBUS	0.29	0.04
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.3730e-003	7.4540e-003
tblVehicleEF	SBUS	0.05	5.2950e-003
tblVehicleEF	SBUS	5.77	2.60
tblVehicleEF	SBUS	0.57	0.69
tblVehicleEF	SBUS	3.51	0.59
tblVehicleEF	SBUS	1,292.80	347.80
tblVehicleEF	SBUS	1,120.79	1,083.12
tblVehicleEF	SBUS	39.22	4.50
tblVehicleEF	SBUS	10.46	3.11
tblVehicleEF	SBUS	3.74	4.32
tblVehicleEF	SBUS	14.58	1.04
tblVehicleEF	SBUS	7.7220e-003	2.9320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	7.3880e-003	2.8050e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.22	0.03
tblVehicleEF	SBUS	0.01	3.3150e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.5400e-004	4.5000e-005
tblVehicleEF	SBUS	5.5960e-003	2.1200e-003
tblVehicleEF	SBUS	0.02	9.6250e-003
tblVehicleEF	SBUS	1.00	0.42
tblVehicleEF	SBUS	2.9710e-003	1.1270e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	8.3110e-003	0.05
tblVehicleEF	SBUS	0.24	0.03
tblVehicleEF	SBUS	0.83	0.06
tblVehicleEF	SBUS	9.2160e-003	7.3370e-003
tblVehicleEF	SBUS	0.06	6.5160e-003
tblVehicleEF	SBUS	6.08	2.68
tblVehicleEF	SBUS	0.56	0.67
tblVehicleEF	SBUS	5.17	0.86
tblVehicleEF	SBUS	1,146.01	332.21
tblVehicleEF	SBUS	1,120.79	1,083.10
tblVehicleEF	SBUS	39.22	4.94

tblVehicleEF	SBUS	9.69	2.98
tblVehicleEF	SBUS	3.93	4.53
tblVehicleEF	SBUS	14.61	1.04
tblVehicleEF	SBUS	0.01	4.2090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.6800e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.0270e-003
tblVehicleEF	SBUS	2.7400e-003	2.6960e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.2200e-004	3.7000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	0.70	0.29
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.27	0.04
tblVehicleEF	SBUS	0.01	3.1680e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.8200e-004	4.9000e-005
tblVehicleEF	SBUS	2.8670e-003	1.0980e-003
tblVehicleEF	SBUS	0.02	9.4930e-003
tblVehicleEF	SBUS	1.01	0.42
tblVehicleEF	SBUS	1.3540e-003	6.1000e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06

tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1160e-003
tblVehicleEF	UBUS	8.33	34.91
tblVehicleEF	UBUS	13.39	0.88
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.11
tblVehicleEF	UBUS	4.85	0.36
tblVehicleEF	UBUS	13.25	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003
tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.10	0.03
tblVehicleEF	UBUS	9.7450e-003	2.8420e-003
tblVehicleEF	UBUS	1.6300e-003	1.1000e-004
tblVehicleEF	UBUS	7.4710e-003	9.8000e-004
tblVehicleEF	UBUS	0.10	6.4590e-003

tblVehicleEF	UBUS	3.6930e-003	5.6100e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.20	0.03
tblVehicleEF	UBUS	1.63	4.47
tblVehicleEF	UBUS	0.07	7.3610e-003
tblVehicleEF	UBUS	8.41	34.91
tblVehicleEF	UBUS	11.00	0.75
tblVehicleEF	UBUS	1,818.42	1,682.82
tblVehicleEF	UBUS	138.62	10.89
tblVehicleEF	UBUS	4.50	0.35
tblVehicleEF	UBUS	13.14	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	0.50	0.07
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.98	0.03
tblVehicleEF	UBUS	9.7470e-003	2.8420e-003

tblVehicleEF	UBUS	1.5890e-003	1.0800e-004
tblVehicleEF	UBUS	0.01	1.8110e-003
tblVehicleEF	UBUS	0.13	8.0070e-003
tblVehicleEF	UBUS	8.6540e-003	1.1780e-003
tblVehicleEF	UBUS	2.18	4.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.07	0.03
tblVehicleEF	UBUS	1.62	4.47
tblVehicleEF	UBUS	0.08	8.1890e-003
tblVehicleEF	UBUS	8.34	34.91
tblVehicleEF	UBUS	12.95	0.89
tblVehicleEF	UBUS	1,818.42	1,682.81
tblVehicleEF	UBUS	138.62	11.13
tblVehicleEF	UBUS	4.76	0.36
tblVehicleEF	UBUS	13.23	0.11
tblVehicleEF	UBUS	0.51	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	2.6980e-003
tblVehicleEF	UBUS	1.4450e-003	1.7400e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	6.6220e-003
tblVehicleEF	UBUS	0.05	2.5670e-003
tblVehicleEF	UBUS	1.3280e-003	1.6000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	0.49	0.07

tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.08	0.03
tblVehicleEF	UBUS	9.7460e-003	2.8420e-003
tblVehicleEF	UBUS	1.6230e-003	1.1000e-004
tblVehicleEF	UBUS	8.4070e-003	1.0290e-003
tblVehicleEF	UBUS	0.13	7.4720e-003
tblVehicleEF	UBUS	3.8160e-003	5.7200e-004
tblVehicleEF	UBUS	2.17	4.57
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	1.18	0.03
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.49	8.81
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.67
tblVehicleTrips	SU_TR	16.74	0.00

tblVehicleTrips	SU_TR	0.73	8.81
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.67
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.83	8.81
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.67

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2010	2.0377	1.5870	3.4900e-003	0.8061	0.0873	0.8933	0.3924	0.0803	0.4727	0.0000	306.6975	306.6975	0.0961	0.0000	309.0996
2024	1.7919	4.6882	5.8795	0.0248	1.7291	0.0756	1.8047	0.4503	0.0707	0.5210	0.0000	2,290.1613	2,290.1613	0.1454	0.0000	2,293.7964
Maximum	**1.7919**	**4.6882**	**5.8795**	**0.0248**	**1.7291**	**0.0873**	**1.8047**	**0.4503**	**0.0803**	**0.5210**	**0.0000**	**2,290.1613**	**2,290.1613**	**0.1454**	**0.0000**	**2,293.7964**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2010	2.0377	1.5869	3.4900e-003	0.3215	0.0873	0.4088	0.1550	0.0803	0.2353	0.0000	306.6971	306.6971	0.0961	0.0000	309.0993
2024	1.7919	4.6882	5.8795	0.0248	1.5384	0.0756	1.6139	0.4113	0.0707	0.4819	0.0000	2,290.1610	2,290.1610	0.1454	0.0000	2,293.7961
Maximum	**1.7919**	**4.6882**	**5.8795**	**0.0248**	**1.5384**	**0.0873**	**1.6139**	**0.4113**	**0.0803**	**0.4819**	**0.0000**	**2,290.1610**	**2,290.1610**	**0.1454**	**0.0000**	**2,293.7961**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**26.63**	**0.00**	**25.03**	**32.81**	**0.00**	**27.82**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-5-2023	10-4-2023	1.0561	1.0561
2	10-5-2023	1-4-2024	1.2716	1.2716
3	1-5-2024	4-4-2024	2.9230	2.9230
4	4-5-2024	7-4-2024	3.4588	3.4588
		Highest	3.4588	3.4588

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.2930	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Energy	0.0898	0.8159	0.6854	4.9000e-003		0.0620	0.0620		0.0620	0.0620	0.0000	5,002.8779	5,002.8779	0.2508	0.0647	5,028.4134
Mobile	1.6360	24.6704	27.1440	0.1870	14.1744	0.2071	14.3814	3.8373	0.1964	4.0338	0.0000	18,113.7643	18,113.7643	0.8671	0.0000	18,135.4413
Waste						0.0000	0.0000		0.0000	0.0000	456.4313	0.0000	456.4313	26.9743	0.0000	1,130.7892
Water						0.0000	0.0000		0.0000	0.0000	164.3236	1,592.4451	1,756.7686	16.9681	0.4172	2,305.3067
Total	**10.0187**	**25.4868**	**27.8749**	**0.1919**	**14.1744**	**0.2692**	**14.4436**	**3.8373**	**0.2586**	**4.0959**	**620.7548**	**24,709.1759**	**25,329.9307**	**45.0605**	**0.4819**	**26,600.0450**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.2930	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Energy	0.0809	0.7356	0.6179	4.4100e-003		0.0559	0.0559		0.0559	0.0559	0.0000	4,757.9333	4,757.9333	0.2402	0.0612	4,782.1738
Mobile	1.6324	24.5551	26.9577	0.1857	14.0604	0.2059	14.2662	3.8067	0.1953	4.0020	0.0000	17,995.9151	17,995.9151	0.8629	0.0000	18,017.4869
Waste						0.0000	0.0000		0.0000	0.0000	228.2156	0.0000	228.2156	13.4872	0.0000	565.3946
Water						0.0000	0.0000		0.0000	0.0000	131.4589	1,278.2546	1,409.7134	13.5747	0.3338	1,848.5650
Total	**10.0062**	**25.2910**	**27.6211**	**0.1902**	**14.0604**	**0.2619**	**14.3223**	**3.8067**	**0.2514**	**4.0580**	**359.6745**	**24,032.1916**	**24,391.8660**	**28.1651**	**0.3950**	**25,213.7147**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.12**	**0.77**	**0.91**	**0.90**	**0.80**	**2.72**	**0.84**	**0.80**	**2.80**	**0.92**	**42.06**	**2.74**	**3.70**	**37.49**	**18.02**	**5.21**

3.0 Construction Detail

Construction Phase

South Ontario Logistics Center Phase 2 - With Mitigation - San Bernardino-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2023	9/12/2023	5	50	
2	Grading	Grading	9/13/2023	1/2/2024	5	80	
3	Building Construction	Building Construction	1/3/2024	6/30/2024	5	128	
4	Paving	Paving	2/26/2024	6/28/2024	5	90	
5	Architectural Coating	Architectural Coating	2/26/2024	6/28/2024	5	90	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 200

Acres of Paving: 30.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,359,718; Non-Residential Outdoor: 1,119,906; Striped Parking Area: 79,271 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,680.00	656.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	336.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4517	0.0000	0.4517	0.2483	0.0000	0.2483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6267	83.6267	0.0271	0.0000	84.3029
Total	**0.0665**	**0.6881**	**0.4561**	**9.5000e-004**	**0.4517**	**0.0317**	**0.4833**	**0.2483**	**0.0291**	**0.2774**	**0.0000**	**83.6267**	**83.6267**	**0.0271**	**0.0000**	**84.3029**

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2700e-003	0.0135	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.7988	3.7988	9.0000e-005	0.0000	3.8011
Total	**1.8100e-003**	**1.2700e-003**	**0.0135**	**4.0000e-005**	**4.9300e-003**	**3.0000e-005**	**4.9600e-003**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**0.0000**	**3.7988**	**3.7988**	**9.0000e-005**	**0.0000**	**3.8011**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1762	0.0000	0.1762	0.0968	0.0000	0.0968	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.6881	0.4561	9.5000e-004		0.0317	0.0317		0.0291	0.0291	0.0000	83.6266	83.6266	0.0271	0.0000	84.3028
Total	**0.0665**	**0.6881**	**0.4561**	**9.5000e-004**	**0.1762**	**0.0317**	**0.2078**	**0.0968**	**0.0291**	**0.1259**	**0.0000**	**83.6266**	**83.6266**	**0.0271**	**0.0000**	**84.3028**

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.2700e-003	0.0135	4.0000e-005	4.5500e-003	3.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2400e-003	0.0000	3.7988	3.7988	9.0000e-005	0.0000	3.8011
Total	**1.8100e-003**	**1.2700e-003**	**0.0135**	**4.0000e-005**	**4.5500e-003**	**3.0000e-005**	**4.5800e-003**	**1.2200e-003**	**3.0000e-005**	**1.2400e-003**	**0.0000**	**3.7988**	**3.7988**	**9.0000e-005**	**0.0000**	**3.8011**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3409	0.0000	0.3409	0.1406	0.0000	0.1406	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1296	1.3461	1.0940	2.4200e-003		0.0556	0.0556		0.0511	0.0511	0.0000	212.6873	212.6873	0.0688	0.0000	214.4070
Total	**0.1296**	**1.3461**	**1.0940**	**2.4200e-003**	**0.3409**	**0.0556**	**0.3965**	**0.1406**	**0.0511**	**0.1917**	**0.0000**	**212.6873**	**212.6873**	**0.0688**	**0.0000**	**214.4070**

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.2000e-003	0.0234	7.0000e-005	8.5500e-003	5.0000e-005	8.6100e-003	2.2700e-003	5.0000e-005	2.3200e-003	0.0000	6.5846	6.5846	1.6000e-004	0.0000	6.5886
Total	**3.1400e-003**	**2.2000e-003**	**0.0234**	**7.0000e-005**	**8.5500e-003**	**5.0000e-005**	**8.6100e-003**	**2.2700e-003**	**5.0000e-005**	**2.3200e-003**	**0.0000**	**6.5846**	**6.5846**	**1.6000e-004**	**0.0000**	**6.5886**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1330	0.0000	0.1330	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1296	1.3461	1.0940	2.4200e-003		0.0556	0.0556		0.0511	0.0511	0.0000	212.6871	212.6871	0.0688	0.0000	214.4067
Total	**0.1296**	**1.3461**	**1.0940**	**2.4200e-003**	**0.1330**	**0.0556**	**0.1885**	**0.0548**	**0.0511**	**0.1059**	**0.0000**	**212.6871**	**212.6871**	**0.0688**	**0.0000**	**214.4067**

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.2000e-003	0.0234	7.0000e-005	7.8900e-003	5.0000e-005	7.9400e-003	2.1100e-003	5.0000e-005	2.1600e-003	0.0000	6.5846	6.5846	1.6000e-004	0.0000	6.5886
Total	**3.1400e-003**	**2.2000e-003**	**0.0234**	**7.0000e-005**	**7.8900e-003**	**5.0000e-005**	**7.9400e-003**	**2.1100e-003**	**5.0000e-005**	**2.1600e-003**	**0.0000**	**6.5846**	**6.5846**	**1.6000e-004**	**0.0000**	**6.5886**

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1121	0.0000	0.1121	0.0148	0.0000	0.0148	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0324	0.0277	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.4520	5.4520	1.7600e-003	0.0000	5.4960
Total	**3.2200e-003**	**0.0324**	**0.0277**	**6.0000e-005**	**0.1121**	**1.3400e-003**	**0.1134**	**0.0148**	**1.2300e-003**	**0.0160**	**0.0000**	**5.4520**	**5.4520**	**1.7600e-003**	**0.0000**	**5.4960**

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1634	0.1634	0.0000	0.0000	0.1635
Total	**8.0000e-005**	**5.0000e-005**	**5.6000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1634**	**0.1634**	**0.0000**	**0.0000**	**0.1635**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0437	0.0000	0.0437	5.7600e-003	0.0000	5.7600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0324	0.0277	6.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	5.4520	5.4520	1.7600e-003	0.0000	5.4960
Total	**3.2200e-003**	**0.0324**	**0.0277**	**6.0000e-005**	**0.0437**	**1.3400e-003**	**0.0451**	**5.7600e-003**	**1.2300e-003**	**6.9900e-003**	**0.0000**	**5.4520**	**5.4520**	**1.7600e-003**	**0.0000**	**5.4960**

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.1634	0.1634	0.0000	0.0000	0.1635
Total	**8.0000e-005**	**5.0000e-005**	**5.6000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1634**	**0.1634**	**0.0000**	**0.0000**	**0.1635**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0942	0.8604	1.0347	1.7200e-003		0.0393	0.0393		0.0369	0.0369	0.0000	148.3834	148.3834	0.0351	0.0000	149.2606
Total	**0.0942**	**0.8604**	**1.0347**	**1.7200e-003**		**0.0393**	**0.0393**		**0.0369**	**0.0369**	**0.0000**	**148.3834**	**148.3834**	**0.0351**	**0.0000**	**149.2606**

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0772	2.9975	0.6387	0.0107	0.2647	2.9000e-003	0.2676	0.0764	2.7700e-003	0.0792	0.0000	1,027.3219	1,027.3219	0.0557	0.0000	1,028.7151
Worker	0.4084	0.2741	2.9978	9.7100e-003	1.1789	7.1900e-003	1.1861	0.3131	6.6200e-003	0.3197	0.0000	878.2188	878.2188	0.0201	0.0000	878.7207
Total	**0.4856**	**3.2717**	**3.6365**	**0.0204**	**1.4436**	**0.0101**	**1.4537**	**0.3895**	**9.3900e-003**	**0.3989**	**0.0000**	**1,905.5407**	**1,905.5407**	**0.0758**	**0.0000**	**1,907.4358**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0942	0.8604	1.0347	1.7200e-003		0.0393	0.0393		0.0369	0.0369	0.0000	148.3833	148.3833	0.0351	0.0000	149.2605
Total	**0.0942**	**0.8604**	**1.0347**	**1.7200e-003**		**0.0393**	**0.0393**		**0.0369**	**0.0369**	**0.0000**	**148.3833**	**148.3833**	**0.0351**	**0.0000**	**149.2605**

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0772	2.9975	0.6387	0.0107	0.2478	2.9000e-003	0.2507	0.0723	2.7700e-003	0.0750	0.0000	1,027.3219	1,027.3219	0.0557	0.0000	1,028.7151
Worker	0.4084	0.2741	2.9978	9.7100e-003	1.0870	7.1900e-003	1.0941	0.2905	6.6200e-003	0.2972	0.0000	878.2188	878.2188	0.0201	0.0000	878.7207
Total	**0.4856**	**3.2717**	**3.6365**	**0.0204**	**1.3348**	**0.0101**	**1.3449**	**0.3628**	**9.3900e-003**	**0.3722**	**0.0000**	**1,905.5407**	**1,905.5407**	**0.0758**	**0.0000**	**1,907.4358**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.4286	0.6582	1.0300e-003		0.0211	0.0211		0.0194	0.0194	0.0000	90.1194	90.1194	0.0292	0.0000	90.8481
Paving	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0842**	**0.4286**	**0.6582**	**1.0300e-003**		**0.0211**	**0.0211**		**0.0194**	**0.0194**	**0.0000**	**90.1194**	**90.1194**	**0.0292**	**0.0000**	**90.8481**

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5600e-003	1.7200e-003	0.0188	6.0000e-005	7.4000e-003	5.0000e-005	7.4500e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.5134	5.5134	1.3000e-004	0.0000	5.5165
Total	**2.5600e-003**	**1.7200e-003**	**0.0188**	**6.0000e-005**	**7.4000e-003**	**5.0000e-005**	**7.4500e-003**	**1.9700e-003**	**4.0000e-005**	**2.0100e-003**	**0.0000**	**5.5134**	**5.5134**	**1.3000e-004**	**0.0000**	**5.5165**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0445	0.4286	0.6582	1.0300e-003		0.0211	0.0211		0.0194	0.0194	0.0000	90.1193	90.1193	0.0292	0.0000	90.8479
Paving	0.0397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0842**	**0.4286**	**0.6582**	**1.0300e-003**		**0.0211**	**0.0211**		**0.0194**	**0.0194**	**0.0000**	**90.1193**	**90.1193**	**0.0292**	**0.0000**	**90.8479**

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5600e-003	1.7200e-003	0.0188	6.0000e-005	6.8200e-003	5.0000e-005	6.8700e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.5134	5.5134	1.3000e-004	0.0000	5.5165
Total	**2.5600e-003**	**1.7200e-003**	**0.0188**	**6.0000e-005**	**6.8200e-003**	**5.0000e-005**	**6.8700e-003**	**1.8200e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5134**	**5.5134**	**1.3000e-004**	**0.0000**	**5.5165**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0565					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1300e-003	0.0549	0.0815	1.3000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	11.4896	11.4896	6.5000e-004	0.0000	11.5058
Total	**1.0647**	**0.0549**	**0.0815**	**1.3000e-004**		**2.7400e-003**	**2.7400e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**11.4896**	**11.4896**	**6.5000e-004**	**0.0000**	**11.5058**

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0574	0.0386	0.4216	1.3700e-003	0.1658	1.0100e-003	0.1668	0.0440	9.3000e-004	0.0450	0.0000	123.4995	123.4995	2.8200e-003	0.0000	123.5701
Total	**0.0574**	**0.0386**	**0.4216**	**1.3700e-003**	**0.1658**	**1.0100e-003**	**0.1668**	**0.0440**	**9.3000e-004**	**0.0450**	**0.0000**	**123.4995**	**123.4995**	**2.8200e-003**	**0.0000**	**123.5701**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0565					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1300e-003	0.0549	0.0815	1.3000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	11.4896	11.4896	6.5000e-004	0.0000	11.5058
Total	**1.0647**	**0.0549**	**0.0815**	**1.3000e-004**		**2.7400e-003**	**2.7400e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**11.4896**	**11.4896**	**6.5000e-004**	**0.0000**	**11.5058**

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0574	0.0386	0.4216	1.3700e-003	0.1529	1.0100e-003	0.1539	0.0409	9.3000e-004	0.0418	0.0000	123.4995	123.4995	2.8200e-003	0.0000	123.5701
Total	**0.0574**	**0.0386**	**0.4216**	**1.3700e-003**	**0.1529**	**1.0100e-003**	**0.1539**	**0.0409**	**9.3000e-004**	**0.0418**	**0.0000**	**123.4995**	**123.4995**	**2.8200e-003**	**0.0000**	**123.5701**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6324	24.5551	26.9577	0.1857	14.0604	0.2059	14.2662	3.8067	0.1953	4.0020	0.0000	17,995.9151	17,995.9151	0.8629	0.0000	18,017.4869
Unmitigated	1.6360	24.6704	27.1440	0.1870	14.1744	0.2071	14.3814	3.8373	0.1964	4.0338	0.0000	18,113.7643	18,113.7643	0.8671	0.0000	18,135.4413

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Industrial Park	4,178.03	4,178.03	4178.03	26,379,825	26,132,305
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,036.00	1,036.00	1036.00	9,877,843	9,828,352
Total	5,214.02	5,214.02	5,214.02	36,257,668	35,960,657

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Industrial Park	16.60	8.40	40.00	59.00	28.00	13.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Industrial Park	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Parking Lot	0.558745	0.035303	0.181800	0.111169	0.014289	0.004794	0.018611	0.065078	0.001365	0.001491	0.005725	0.000799	0.000830
Refrigerated Warehouse-No Rail	0.648980	0.000000	0.000000	0.000000	0.000000	0.122449	0.036735	0.191837	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.217181	0.194015	0.588803	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,957.1768	3,957.1768	0.2248	0.0465	3,976.6588
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,114.6557	4,114.6557	0.2338	0.0484	4,134.9129
NaturalGas Mitigated	0.0809	0.7356	0.6179	4.4100e-003		0.0559	0.0559		0.0559	0.0559	0.0000	800.7565	800.7565	0.0154	0.0147	805.5150
NaturalGas Unmitigated	0.0898	0.8159	0.6854	4.9000e-003		0.0620	0.0620		0.0620	0.0620	0.0000	888.2222	888.2222	0.0170	0.0163	893.5005

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.64515e+006	8.8700e-003	0.0806	0.0677	4.8000e-004		6.1300e-003	6.1300e-003		6.1300e-003	6.1300e-003	0.0000	87.7915	87.7915	1.6800e-003	1.6100e-003	88.3132
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.18811e+007	0.0641	0.5824	0.4892	3.4900e-003		0.0443	0.0443		0.0443	0.0443	0.0000	634.0204	634.0204	0.0122	0.0116	637.7881
Unrefrigerated Warehouse-No Rail	3.11841e+006	0.0168	0.1529	0.1284	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.4103	166.4103	3.1900e-003	3.0500e-003	167.3992
Total		**0.0897**	**0.8159**	**0.6854**	**4.8900e-003**		**0.0620**	**0.0620**		**0.0620**	**0.0620**	**0.0000**	**888.2222**	**888.2222**	**0.0170**	**0.0163**	**893.5005**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.15161e+006	6.2100e-003	0.0565	0.0474	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4541	61.4541	1.1800e-003	1.1300e-003	61.8193
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	1.16573e+007	0.0629	0.5714	0.4800	3.4300e-003		0.0434	0.0434		0.0434	0.0434	0.0000	622.0774	622.0774	0.0119	0.0114	625.7741
Unrefrigerated Warehouse-No Rail	2.19671e+006	0.0119	0.1077	0.0905	6.5000e-004		8.1800e-003	8.1800e-003		8.1800e-003	8.1800e-003	0.0000	117.2250	117.2250	2.2500e-003	2.1500e-003	117.9216
Total		**0.0809**	**0.7356**	**0.6179**	**4.4200e-003**		**0.0559**	**0.0559**		**0.0559**	**0.0559**	**0.0000**	**800.7565**	**800.7565**	**0.0154**	**0.0147**	**805.5150**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.5135e+006	1,045.0180	0.0594	0.0123	1,050.1628
Parking Lot	462412	107.0629	6.0800e-003	1.2600e-003	107.5900
Refrigerated Warehouse-No Rail	9.1702e+006	2,123.1926	0.1206	0.0250	2,133.6455
Unrefrigerated Warehouse-No Rail	3.62534e+006	839.3822	0.0477	9.8700e-003	843.5146
Total		**4,114.6557**	**0.2338**	**0.0484**	**4,134.9129**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	4.07685e+006	943.9191	0.0536	0.0111	948.5662
Parking Lot	462412	107.0629	6.0800e-003	1.2600e-003	107.5900
Refrigerated Warehouse-No Rail	9.09721e+006	2,106.2921	0.1197	0.0248	2,116.6618
Unrefrigerated Warehouse-No Rail	3.45483e+006	799.9028	0.0455	9.4000e-003	803.8409
Total		**3,957.1768**	**0.2248**	**0.0465**	**3,976.6588**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.2930	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Unmitigated	8.2930	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-003	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Total	**8.2930**	**4.1000e-004**	**0.0455**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0886**	**0.0886**	**2.3000e-004**	**0.0000**	**0.0944**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.1831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-003	4.1000e-004	0.0455	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0886	0.0886	2.3000e-004	0.0000	0.0944
Total	**8.2930**	**4.1000e-004**	**0.0455**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0886**	**0.0886**	**2.3000e-004**	**0.0000**	**0.0944**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,409.7134	13.5747	0.3338	1,848.5650
Unmitigated	1,756.7686	16.9681	0.4172	2,305.3067

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 12.022	30.9245	1.7600e-003	3.6000e-004	31.0768
Industrial Park	109.638 / 0	365.3167	3.5913	0.0882	481.3958
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	53.0811 / 0	176.8678	1.7387	0.0427	233.0674
Unrefrigerated Warehouse-No Rail	355.237 / 0	1,183.6596	11.6363	0.2859	1,559.7667
Total		**1,756.7686**	**16.9681**	**0.4172**	**2,305.3067**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 11.2887	29.0381	1.6500e-003	3.4000e-004	29.1811
Industrial Park	87.7104 / 0	292.2533	2.8731	0.0706	385.1167
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	42.4649 / 0	141.4942	1.3910	0.0342	186.4539
Unrefrigerated Warehouse-No Rail	284.19 / 0	946.9277	9.3090	0.2287	1,247.8134
Total		**1,409.7134**	**13.5747**	**0.3338**	**1,848.5650**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	228.2156	13.4872	0.0000	565.3946
Unmitigated	456.4313	26.9743	0.0000	1,130.7892

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.87	0.1766	0.0104	0.0000	0.4375
Industrial Park	587.9	119.3384	7.0527	0.0000	295.6558
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	215.77	43.7994	2.5885	0.0000	108.5111
Unrefrigerated Warehouse-No Rail	1443.99	293.1169	17.3227	0.0000	726.1848
Total		**456.4313**	**26.9743**	**0.0000**	**1,130.7891**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.435	0.0883	5.2200e-003	0.0000	0.2188
Industrial Park	293.95	59.6692	3.5264	0.0000	147.8279
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	107.885	21.8997	1.2942	0.0000	54.2555
Unrefrigerated Warehouse-No Rail	721.995	146.5585	8.6614	0.0000	363.0924
Total		**228.2156**	**13.4872**	**0.0000**	**565.3946**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

GHG Emissions Reductions from Electric Forklifts

Equipment	Number of Equipment[1]	Hours per Day[1]	Days per Year[1]	Equipment Size[2] (hp)	Equipment Size (kW)	Load Factor[2]	SCE electricity emission factor[3] (MT CO_2e/MWh)	Emissions (MT CO_2e/year)
Forklifts	96	8	365	89	66.4	0.2	0.24	885.1
Yard Trucks	8	8	365	200	149.1	0.38	0.24	314.9
Total								**1,200.1**

Notes:

[1] Project-specific data.

[2] Equipment size and load factors based on CalEEMod Appendix D, Table 3.3.

[3] CO_2e intensity factor for SCE accounts for the 33% projected RPS for 2020 consistent with SB 100.

Conversion Factors:

0.7457 kW/hp

1000 kW/MW

APPENDIX B4

ENERGY CALCULATIONS

Construction Fuel Consumption

On-Site Diesel[1]	$MTCO_2e$	Gallons of Fuel[4]	Current County Fuel	Percent
Demolition	68	6,739		
Site Preparation/Grading	608	59,872		
Building Construction	281	27,655		
Paving	182	17,892		
Architectural Coating	23	2,266		
Total	1,161	114,424	245,228,890	0.0467%

Off-Site Diesel[1]				
Demolition	63	6,187		
Site Preparation/Grading	0	0		
Building Construction	2,319	228,443		
Paving	0	0		
Architectural Coating	0	0		
Total	2,382	234,631	245,228,890	0.0957%

Off-Site Gasoline[2]				
Demolition	3	295		
Site Preparation/Grading	21	2,436		
Building Construction	2,017	228,910		
Paving	11	1,271		
Architectural Coating	305	34,563		
Total	2,356	267,476	754,787,338	0.0354%

Total Diesel Fuel		349,054	245,228,890	0.1423%
Total Gasoline Fuel		267,476	754,787,338	0.0354%
Total Construction Fuel	5,899	616,530		

Construction Phase[3]	Demolition			Site Preparation			Grading		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)
2022 Phase 1	68	63	3	84	0	4	173	0	6
2023 Phase 1	0	0	0	0	0	0	47	0	1
2023 Phase 2	0	0	0	84	0	4	214	0	7
2024 Phase 2	0	0	0	0	0	0	5	0	0
Total	**68**	**63**	**3**	**168**	**0**	**8**	**440**	**0**	**14**

Construction Phase[3]	Building Construction			Paving			Architectural Coating		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)
2022	0	0	0	0	0	0	0	0	0
2023	132	1290	1138	91	0	6	12	0	181
2024	0	0	0	0	0	0	0	0	0
2025	149	1029	879	91	0	6	12	0	124
Total	**281**	**2,319**	**2,017**	**182**	**0**	**11**	**23**	**0**	**305**

Notes:

[1] Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

[2] Fuel used for worker trips assumed to be gasoline.

[3] $MTCO_2e$ rates from CalEEMod (3.0 Construction Details).

[4] For CO2e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Operational Fuel - Phase 1

Vehicle Type	Percent[1]	Annual VMT[2]	MPG[3]	Annual Fuel (Gallons)	Fuel Type	San Bernardino Gallons[4]	San Bernardino Percent		
Passenger Cars	1.00	34,755,263	21.6	1,609,040	Gas	754,787,338	0.2132%		2,460,979
Light/Medium Trucks	0.41	8,369,391	17.2	486,593	Diesel	245,228,890	0.1984%	1.0035%	
Heavy Trucks/Other	0.59	12,043,757	6.1	1,974,386	Diesel	245,228,890	0.8051%		
Total	2.00	55,168,411		4,070,019		1,000,016,228			

Land Use[5]	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Industrial Park	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Warehouse	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2172	0.1940	0.0000	0.0000	0.0000	0.0000	0.5888

Notes:

[1] Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).

[2] Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).

[3] Average fuel economy derived from Department of Transportation.

[4] Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

Operational Fuel - Phase 2

Vehicle Type	Percent[1]	Annual VMT[2]	MPG[3]	Annual Fuel (Gallons)	Fuel Type	San Bernardino Gallons[4]	San Bernardino Percent		
Passenger Cars	1.00	26,132,305	21.6	1,209,829	Gas	754,787,338	0.1603%		1,184,892
Light/Medium Trucks	0.41	4,029,624	17.2	234,280	Diesel	245,228,890	0.0955%	0.4832%	
Heavy Trucks/Other	0.59	5,798,728	6.1	950,611	Diesel	245,228,890	0.3876%		
Total	2.00	35,960,657		2,394,721		1,000,016,228			

Land Use[5]	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Industrial Park	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Warehouse	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2172	0.1940	0.0000	0.0000	0.0000	0.0000	0.5888

Notes:

[1] Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).

[2] Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).

[3] Average fuel economy derived from Department of Transportation.

[4] Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

Operational Fuel - Project Buildout

Vehicle Type	Percent[1]	Annual VMT[2]	MPG[3]	Annual Fuel (Gallons)	Fuel Type	San Bernardino Gallons[4]	San Bernardino Percent		
Passenger Cars	1.00	60,887,568	21.6	2,818,869	Gas	754,787,338	0.3735%		3,645,871
Light/Medium Trucks	0.41	12,399,015	17.2	720,873	Diesel	245,228,890	0.2940%	1.4867%	
Heavy Trucks/Other	0.59	17,842,485	6.1	2,924,998	Diesel	245,228,890	1.1928%		
Total	2.00	91,129,068		6,464,739		1,000,016,228			

Land Use[5]	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Industrial Park	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Warehouse	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2172	0.1940	0.0000	0.0000	0.0000	0.0000	0.5888

Notes:

[1] Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).

[2] Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).

[3] Average fuel economy derived from Department of Transportation.

[4] Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

Phase 1 - Operational Water Energy

Mitigated Indoor	628.7	million gallons
Indoor Energy Intensity Factor[1]	13,021	kWh/MG
Mitigated Outdoor	16	million gallons
Outdoor Energy Intensity Factor[2]	11,110	kWh/MG
Operational Water Energy	8,364,063	kWh

Land Use[3]	Unmitigated (MG)		Mitigated (MG)	
	Indoor	Outdoor	Indoor	Outdoor
Industrial Park	139	0	119	0
Refrigerated Warehouse	77	0	66	0
Unrefrigerated Warehouse	517	0	444	0
Parking Lot	0	0	0	0
Landscape	0	17	0	16
Total Operational Water	**734**	**17**	**629**	**16**

Notes:

[1] Indoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, distribution, and wastewater.

[2] Outdoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, and distribution.

[3] Operational water use values per CalEEMod (7.2 Water by Land Use).

Phase 2 - Operational Water Energy

Mitigated Indoor	413.7	million gallons
Indoor Energy Intensity Factor[1]	13,021	kWh/MG
Mitigated Outdoor	11	million gallons
Outdoor Energy Intensity Factor[2]	11,110	kWh/MG
Operational Water Energy	5,511,220	kWh

Land Use[3]	Unmitigated (MG)		Mitigated (MG)	
	Indoor	Outdoor	Indoor	Outdoor
Industrial Park	110	0	88	0
Refrigerated Warehouse	53	0	42	0
Unrefrigerated Warehouse	355	0	284	0
Parking Lot	0	0	0	0
Landscape	0	12	0	11
Total Operational Water	**518**	**12**	**414**	**11**

Notes:

Project Buildout - Operational Water Energy

Mitigated Indoor	1,042.4	million gallons
Indoor Energy Intensity Factor[1]	13,021	kWh/MG
Mitigated Outdoor	27	million gallons
Outdoor Energy Intensity Factor[2]	11,110	kWh/MG
Operational Water Energy	13,875,282	kWh

Land Use[3]	Unmitigated (MG)		Mitigated (MG)	
	Indoor	Outdoor	Indoor	Outdoor
Industrial Park	249	0	207	0
Refrigerated Warehouse	130	0	108	0
Unrefrigerated Warehouse	872	0	728	0
Parking Lot	0	0	0	0
Landscape	0	29	0	27
Total Operational Water	**1251**	**29**	**1042**	**27**

Phase 1 - Elecricity/Natural Gas Energy

	Mitigated Project Annual Energy	San Bernardino County Annual Energy[3]	Percentage Increase
Electricity (kWh/yr)	24,111,453	14,987,210,320	0.1609%
Natural Gas (kBTU/yr)	21,637,730	54,727,226,300	0.0395%
Natural Gas (therms/yr)	216,377	547,272,263	0.0395%

Land Use	Electricity[1] (kWh/yr)		Natural Gas[2] (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Industrial Park	5,722,740	5,169,100	2,085,910	1,460,140
Refrigerated Warehouse	13,355,900	13,249,600	17,304,100	16,978,200
Unrefrigerated Warehouse	5,280,120	5,031,770	4,541,790	3,199,390
Parking Lot	660,983	660,983	0	0
Landscape	0	0	0	0
Total Energy	**25,019,743**	**24,111,453**	**23,931,800**	**21,637,730**

Notes:

[1] Electricity use per CalEEMod (5.3 Energy by Land Use).

[2] Natural Gas use per CalEEMod (5.2 Natural Gas by Land Use).

[3] County total energy values from California Energy Commission energy reports available through ecdms.energy.ca.gov.

Phase 2 - Elecricity/Natural Gas Energy

	Mitigated Project Annual Energy	San Bernardino County Annual Energy[3]	Percentage Increase
Electricity (kWh/yr)	17,091,302	14,987,210,320	0.1140%
Natural Gas (kBTU/yr)	15,005,620	54,727,226,300	0.0274%
Natural Gas (therms/yr)	150,056	547,272,263	0.0274%

Land Use	Electricity[1] (kWh/yr)		Natural Gas[2] (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Industrial Park	4,513,500	4,076,850	1,645,150	1,151,610
Refrigerated Warehouse	9,170,200	9,097,210	11,881,100	11,657,300
Unrefrigerated Warehouse	3,625,340	3,454,830	3,118,410	2,196,710
Parking Lot	462,412	462,412	0	0
Landscape	0	0	0	0
Total Energy	**17,771,452**	**17,091,302**	**16,644,660**	**15,005,620**

Notes:

Project Buildout - Elecricity/Natural Gas Energy

	Mitigated Project Annual Energy	San Bernardino County Annual Energy[3]	Percentage Increase
Electricity (kWh/yr)	41,202,755	14,987,210,320	0.2749%
Natural Gas (kBTU/yr)	36,643,350	54,727,226,300	0.0670%
Natural Gas (therms/yr)	366,434	547,272,263	0.0670%

Land Use	Electricity[1] (kWh/yr)		Natural Gas[2] (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Industrial Park	10,236,240	9,245,950	3,731,060	2,611,750
Refrigerated Warehouse	22,526,100	22,346,810	29,185,200	28,635,500
Unrefrigerated Warehouse	8,905,460	8,486,600	7,660,200	5,396,100
Parking Lot	1,123,395	1,123,395	0	0
Landscape	0	0	0	0
Total Energy	**42,791,195**	**41,202,755**	**40,576,460**	**36,643,350**

APPENDIX C
BIOLOGICAL RESOURCES REPORTS

APPENDIX C1

GENERAL BIOLOGICAL ASSESSMENT

GENERAL BIOLOGICAL ASSESSMENT
FOR
ONTARIO RANCH COMMERCE CENTER EAST

CITY OF ONTARIO
SAN BERNARDINO COUNTY, CALIFORNIA

Prepared for:
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OCTOBER 2018
(Updated March 2020)

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APPENDICES

Appendix A – Species List
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1.0 Introduction

EPD Solutions, Inc. contracted Hernandez Environmental Services (HES) to conduct a General Biological Assessment (GBA) on Assessor's Parcel Numbers (APNs) 1054-081-03, 1054-071-01, 1054-071-02, 1054-241-01, 1054-241-02, 1054-311-01, 1054-311-02, 1054-091-01, 1054-091-02, 1054-101-01, 1054-101-02, 1054-231-01, 1054-231-02, 1054-321-01, 1054-321-02, 1054-051-01, 1054-051-02, 1054-061-01, 1054-061-02, 1054-251-01, 1054-251-02, 1054-301-01, and 1054-301-02, located in the city of Ontario, San Bernardino County, California. The purpose of the GBA is to document the presence/absence of sensitive resources that may be present on the site, to document existing habitats, and generally address biological questions that may be needed for project approval. This GBA will present the results obtained from the September 21, 2018 and March 12, 2020 field surveys and will provide recommendations to mitigate potential biological impacts from project activities.

1.1 Project Site Location

The approximately 225.61-acre project site is located south of Eucalyptus Avenue, north of Merrill Avenue, and east of Grove Avenue, in the city of Ontario, San Bernardino County, California (Figure 1). Specifically, the site is located within the Santa Ana del Chino Land Grant of the *Prado Dam* 7.5'U.S. Geological Survey (USGS) topographic quadrangle (Figure 2). Surrounding land uses include agricultural uses to the north, east, and west. The Chino Airport lies to the south of the site. The entire 225.61-acre site has been disturbed by agricultural use.

1.2 Project Description

The proposed project consists of the construction of an industrial park consisting of warehouse and office buildings. The proposed project also includes associated parking, detention basins, access roads, and utilities (Figure 3). The proposed industrial park development will impact 126.8-acres of the project site.

2.0 Methodology

2.1 Literature Review

HES conducted a literature review and reviewed aerial photographs and topographic maps of the project site and surrounding areas. The *Prado Dam* 7.5' USGS topographic quadrangle and eight surrounding quadrangles were used to identify sensitive species in the California Natural Diversity Data Base (CNDDB). Additional resources reviewed during the literature search included the United States Fish and Wildlife (USFWS) Endangered Species Lists, and the California Native Plant Society's (CNPS) Rare plant lists to obtain species information for the project area.

2.2 Field Survey

On September 21,2018 and March 12, 2020, HES conducted field surveys of the approximate 225.61-acre project site. On September 21, 2018, the ambient temperature during the field survey was 80° Fahrenheit, sunny, with zero to three mile per hour winds from the southwest. On March 12, 2020 the ambient temperature was 54° Fahrenheit, cloudy, with zero to four mph winds from the south. The purpose of the field surveys was to document the existing habitat conditions, obtain plant and animal species information, view the surrounding uses, assess the potential for state and federal waters, assess potential for wildlife movement corridors, and if critical habitat is present, assess for the presence of constituent elements.

The entire 225.61-acre project site was surveyed. Linear transects approximately 50 feet apart were walked for 100 percent coverage. In areas that were inaccessible the biologist visually inspected habitats with binoculars. All species observed were recorded and Global Positioning System (GPS) waypoints were taken to delineate specific habitat types, species locations, state or federal waters, or any other information that would be useful for the assessment of the project site. A comprehensive list of all plant and wildlife species that were detected during the field survey within the project site is included in Appendix A. Sensitive plant and wildlife species with the potential to occur within the project area are listed in Appendix B. Representative site photographs were taken and are included within Appendix C.

3.0 Existing Conditions and Results

3.1 Environmental Setting

The approximately 225.61-acre project site consists of an active dairy farm and agricultural fields. At the time of the surveys, the agricultural fields were fallow. The entire site has been disturbed by agricultural use and no native habitat was present. The project site also contains a large complex of man-made stock/retention ponds and channels. Elevations on the site range from 647 feet above mean sea level (AMSL) to 674 feet AMSL. Surrounding land uses include agricultural uses to the north, east, and west. The Chino Airport lies to the south of the site.

3.2 Soils

Four soil classes are identified to occur on the project site by the USDA Web Soil Survey (Appendix D). Soils at the project site are classified as:

- Chino silt loam (Cb)
- Grangeville fine sandy loam (Gr);
- Hilmar loamy fine sand (Hr); and
- Tujunga loamy sand (TuB), 0 to 5 percent slopes.

3.3 Plant and Habitat Communities

The project site is dominated by four habitat types, including 95.52 acres of agriculture fields, 107.45 acres of disturbed agriculture infrastructure, 19.0 acres of stock/retention ponds and channels, and 3.64 acres of eucalyptus woodland. Following are descriptions of each habitat type.

3.3.1 Agriculture Fields

The project site contains approximately 95.52 acres of agriculture fields. These fields are currently fallow. The agriculture fields are disturbed and dominated by non-native species of grasses and plants. Species observed include *Avena* sp., *Bromus* sp., Russian thistle (*Salsola tragus*) and alfalfa (*Medicago sativa*).

3.3.2 Disturbed Agriculture Infrastructure

The project site contains approximately 107.45 acres of disturbed agriculture infrastructure. These areas contain no native habitat and are currently used for containing livestock. These areas are mostly developed with agricultural use structures or residential buildings. Vegetation within these areas consists of non-native ornamental plant species.

3.3.2 Stock/Retention Ponds and Channels

The project site contains approximately 19.0 acres of areas stock/retention ponds and channels. These ponds and channels are man-made and fed by wells. The ponds are dry and dominated by upland species such as bromus and Russan thistle, but the stock pond drainage channels did contain grasses such as Bermuda (*Cynodon dactylon*) and curly dock (*Rumex crispus*).

3.3.3 Eucalyptus Woodland

The project site contains approximately 3.64 acres of eucalyptus woodland (*Eucalyptus globulus*). These areas are found in in rows throughout the site.

4.0 Sensitive Biological Resources

4.1 Threatened and Endangered Species

A total of 47 sensitive species of plants and 59 sensitive species of animals have the potential to occur on or within the vicinity of the project area. These include those species listed or candidates for listing by the USFWS, California Department of Fish and Wildlife (CDFW) and CNPS. All habitats with the potential to be used by sensitive species were evaluated during the site visit and a determination has been made for the presence or probability of presence within this report. This section will address those species listed as Candidate, Rare, Threatened, or Endangered under the state and federal endangered species laws. Other special status species will be reported in Appendix B and individually discussed in the Recommendations Section of this report.

4.1.1 Threatened and Endangered Plants

A total of 17 plant species are listed as state and/or federal Threatened, Endangered, or Candidate species; are 1B.1 listed plants on the CNPS Rare Plant Inventory; or have been found to have a potential to exist on the project site. Below are descriptions of these species:

Chaparral sand-verbena
Chaparral sand-verbena (*Abronia villosa var. aurita*) is ranked 1B.1 in the CNPS rare plant inventory. It is found in sandy areas of chaparral, coastal sage scrub, and desert dunes habitats. No habitat for this species is present on the project site. **This species is not considered to be present.**

Braunton's milk-vetch
Braunton's milk-vetch (*Astragalus brauntonii*) is a federally listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. It is usually found in recently burned or disturbed areas, usually on sandstone with carbonate layers. Its habitat includes chaparral, coastal sage scrub, valley, and foothill grassland. No habitat for this species is present on the project site. **This species is not considered to be present.**

Malibu baccharis
Malibu baccharis (*Baccharis malibuensis*) is ranked 1B.1 in the CNPS rare plant inventory. It is found in Conejo volcanic substrates and often on exposed roadcuts. It sometimes occupies oak woodland habitat and grows at elevations of 150 to 320 meters. Its habitat includes chaparral, cismontane woodland, coastal sage scrub, and riparian woodland. No habitat for this species is present on the project site. **This species is not considered to be present.**

Nevin's barberry
Nevin's barberry (*Berberis nevinii*) is a federally and state listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. It is typically found on steep, north facing slopes

or in low grade sandy washes. Its habitat includes chaparral, cismontane woodland, coastal sage scrub, and riparian scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

Lucky morning-glory

Lucky morning-glory (*Calystegia felix*) is ranked 1B.1 in the CNPS rare plant inventory. It is often found in disturbed sites near the coast, at marsh edges. It is also found in alkaline soils and sometimes with saltgrass. This species is sometimes found on the margins of vernal pools. Its habitat includes meadow and seep, and riparian scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

Southern tarplant

Southern tarplant (*Centromadia parryi ssp. australis*) is ranked 1B.1 in the CNPS rare plant inventory. It is often found on disturbed sites near the coast, This species prefers marsh edges. It also grows in alkaline soils, sometimes with saltgrass, and on vernal pool margins. Habitats associated with this plant include: marsh and swamp, salt marsh, valley and foothill grassland, vernal pool, and wetland. No habitat for this species is present on the project site. **This species is not considered to be present.**

Smooth tarplant

Smooth tarplant (*Centromadia pungens ssp. laevis*) is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes alkali playa, chenopod scrub, meadows and seeps, riparian woodlands, wetlands, and valley and foothill grasslands. No habitat for this species is present on the project site. **This species is not considered to be present.**

San Fernando Valley spineflower

San Fernando Valley spineflower (*Chorizanthe parryi var. Fernandina*) is a federally proposed threatened species, a state listed endangered species, and is ranked 1B.1 in the CNPS rare plant inventory. It is found in sandy soils. Its habitat includes coastal sage scrub, and valley and foothill grassland. No habitat for this species is present on the project site. **This species is not considered to be present.**

Parry's spineflower

Parry's spineflower (*Chorizanthe parryi var. parryi*) is ranked 1B.1 in the CNPS rare plant inventory. The species occurs in dry, sandy soils on dry slopes and flats, sometimes at the interface of two vegetations types, such as chaparral and oak woodland. Its habitat includes coastal sage scrub, chaparral, cismontane woodland, valley and foothill grassland. No habitat for this species is present on the project site. **This species is not considered to be present.**

Slender-horned spineflower

Slender - horned spineflower (*Dodecahema leptoceras*) is a federally and state listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. This species is typically found near flood deposited terraces and washes. Its habitat includes chaparral, cismontane woodland, and

coastal sage scrub (alluvial fan sage scrub). No habitat for this species is present on the project site. **This species is not considered to be present.**

Santa Ana River woollystar

Santa Ana River woollystar (*Eriastrum densifolium ssp. sanctorum*) is a federally and state listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. It is typically found in sandy soils on river floodplains or terraced fluvial deposits. Its habitat includes chaparral and coastal sage scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

Tecate cypress

Tecate cypress (*Hesperocyparis forbesii*) is ranked 1B.1 in the CNPS rare plant inventory. It is found on clay or gabbro, primarily on north-facing slopes and in groves often associated with chaparral habitat. Its habitat includes closed-cone coniferous forest, and chaparral. No habitat for this species is present on the project site. **This species is not considered to be present.**

Mesa horkelia

Mesa horkelia (*Horkelia cuneate var. puberula*) is ranked 1B.1 in the CNPS rare plant inventory. It is typically found in sandy or gravelly sites. Its habitat includes chaparral, cismontane woodland, and coastal sage scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

Jokerst's monardella

Jokerst's monardella (*Monardella australis ssp. jokerstii*) is ranked 1B.1 in the CNPS rare plant inventory. It is found on steep scree or talus slopes between breccia. Its habitat includes chaparral, and lower montane coniferous forest. No habitat for this species is present on the project site. **This species is not considered to be present.**

Gambel's water cress

Gambel's water cress (*Nasturtium gambelii*) is federally listed endangered species, a state listed threatened species, and is ranked 1B.1 in the CNPS rare plant inventory. It is found in freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. Its habitat includes brackish marsh, freshwater marsh, marsh and swamp, and wetland. No marshes or swamps are present on the project site. Only dry, man-made stock ponds are present on the project site. **This species is not considered to be present.**

Allen's pentachaeta

Allen's pentachaeta (*Pentachaeta aurea ssp. allenii*) is ranked 1B.1 in the CNPS rare plant inventory. It is found on openings in scrub or grassland areas. Its habitat includes coastal sage scrub, and valley and foothill grassland. No habitat for this species is present on the project site. **This species is not considered to be present.**

Brand's star phacelia
Brand's star phacelia (*Phacelia stellaris*) is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes coastal dunes and coastal sage scrub. No habitat for this species is present on the project site. **This species is not considered to be present.**

4.1.2 Threatened and Endangered Animals

A total of 27 animal species that are listed as state and/or federal Threatened, Endangered, or Candidate will be reviewed in this section. Sensitive species which have a potential to occur will also be discussed in this section. All sensitive species within a 5-mile radius of project area were reviewed and a complete list of those species are discussed within Appendix B. Below are descriptions of these species:

Tricolored blackbird
Tricolored blackbird (*Agelaius tricolor)* is a state listed threatened species and listed by the CDFW as a species of special concern. Its habitat includes freshwater marsh, marsh and swamps, and wetland. This species is largely endemic to California and is most numerous in and around the Central Valley. This species requires open accessible water, protected nesting substrate, and a foraging area with insect prey within a few kilometers of the colony. There is potential habitat for this species to be present in the stock ponds if vegetation is allowed to grow around the perimeters. **Potential to be present.**

Grasshopper sparrow
Grasshopper sparrow (*Ammodramus savannarum*) is a CDFW Species of Special Concern. It favors native grasslands with a mix of grasses, forbs, and scattered shrubs. Its habitat includes valley and foothill grassland. There is potential habitat for this species to be present in the fallow fields. **Potential to be present.**

Arroyo Toad
Arroyo Toad (*Anaxyrus californicus*) is a federally listed endangered species and a CDFW Species of Special Concern. The most favorable breeding habitat for this species consists of slow-moving shallow pools, nearby sandbars, and adjacent stream terraces. Its habitat includes desert wash, riparian scrub, riparian woodland, south coast flowing waters, and south coast standing waters. There is no habitat for this species on the project site. **This species is not considered to be present.**

Southern California legless lizard
Southern California legless lizard (*Anniella stebbinsi*) is a CDFW Species of Special Concern. It is found in a variety of habitats, generally around moist, loose soil. This species is generally found south of the Transverse Range, extending to northwestern Baja California, with disjunct populations found in the Tehachapi and Piute Mountains in Kern County. Its habitat includes

broadleaved upland forest, chaparral, coastal dunes, and coastal sage scrub. There is no habitat for this species present on the proposed project site. **This species is not considered to be present.**

Great blue heron

Great blue heron (*Ardea Herodias*) is a CDF Sensitive Species. It is found in rookery sites near foraging areas. It is a colonial nester in tall trees, cliffsides, and sequestered spots on marshes. Its habitat includes brackish marsh, estuary, freshwater marsh, marsh and swamp, riparian forest, and wetland. There is potential habitat for this species to be present in the stock ponds. **Potential to be present.**

California glossy snake

California glossy snake (*Arizona elegans occidentalis)* is a CDFW Species of Special Concern. This species is found in arid scrub, rocky washes, grassland and chaparral habitats, often with loose or sandy soils. There is potential habitat for this species to be present on the project site. **Potential to be present.**

Burrowing owl

Burrowing owl (*Athene cunicularia*) is a CDFW Species of Special Concern. Its habitat includes coastal prairie, coastal sage scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, and valley and foothill grassland. This species is typically found in open and dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. It is a subterranean nester and is dependent upon burrowing mammals, most notably the California ground squirrel (*Otospermophilus beecheyi*). There is potential habitat for this species to be present on the fallow agricultural fields on the project site. **Potential to be present.**

San Diego fairy shrimp

San Diego fairy shrimp (*Branchinecta sandiegonensis*) is a federally listed endangered species. This species is found in chaparral, coastal sage scrub, vernal pool, and wetland habitats. The project site consists of a disturbed agriculture area. There is no habitat for this species on the project site. **The species is not considered to be present.**

Swainson's hawk

Swainson's hawk (*Buteo swainsoni*) is a state listed threatened species. This species favors open grasslands for foraging but also occurs in agricultural settings. It relies on scattered stands of trees near agricultural fields and grasslands for nesting sites. Its habitats include great basin grassland, riparian forest, riparian woodland, and valley and foothill grassland. There is potential habitat for this species to be present on the project site. **Potential to be present.**

Santa Ana sucker

Santa Ana sucker (*Catostomus santaanae*) is a federally listed threatened species. Its habitat includes aquatic and south coast flowing waters. This species prefers sand-rubble-boulder bottoms, cool and clear water, and algae. It is endemic to the Los Angeles Basin south coastal streams. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

Western yellow-billed cuckoo

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is a federally listed threatened and state listed endangered species. This species typically nests in riparian jungles of willows, often mixed with cottonwoods, with a lower story of blackberry, nettles, or wild grape. It is found in riparian forest habitat. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

Yellow rail

Yellow rail (*Coturnicops noveboracensis*) is a CDFW Species of Special Concern. It is a summer resident in eastern Sierra Nevada in Mono County. Its habitat includes freshwater marsh and meadow and seep. There is potential habitat for this species to be present in the stock ponds if vegetation is allowed to grow. **Potential to be present.**

San Bernardino kangaroo rat

San Bernardino kangaroo rat (*Dipodomys merriami parvus*) is a federally listed endangered species, state listed candidate endangered, and a CDFW Species of Special Concern. It is found in alluvial fan sage scrub habitat. This species is found on sandy loam substrates, characteristic of alluvial fans and flood plains. It needs early to intermediate seral stages. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

Stephen's kangaroo rat

Stephens' kangaroo rat (*Dipodomys stephensi*) is a federally listed endangered and state listed threatened species. This species is found in coastal sage scrub with sparse vegetation cover, and in valley and foothill grasslands. This species prefers buckwheat, chamise, brome grass, and filaree, and will burrow into firm soil. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

Southwestern willow flycatcher

Southwestern willow flycatcher (*Empidonax traillii extimus*) is a federally and state listed endangered species. It is found in riparian woodland habitat in southern California. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

Western pond turtle
Western pond turtle (*Emys marmorata*) is a CDFW Species of Special Concern. This species needs basking sites and suitable upland habitat consisting of sandy banks or grassy open fields up to 0.5 kilometers from water for egg-laying. It is a thoroughly aquatic turtle of ponds, marshes, rivers, streams, and irrigation ditches, usually with aquatic vegetation, below 6000 feet in elevation. There is potential habitat for this species to be present in the stock ponds. **Potential to be present.**

California horned lark
California horned lark (*Eremophila alpestris actia*) is listed on the CDFW Watch List. It is found in coastal regions, chiefly from Sonoma County to San Diego County, as well as in parts of the San Joaquin Valley and east to foothills. This species is found in areas with short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, and/or alkali flats. There is potential habitat for this species to be present on the project site. **Potential to be present.**

Western mastiff bat
Western mastiff bat (*Eumops perotis californicus*) is a CDFW Species of Special Concern. It roosts in crevices in cliff faces, high buildings, trees, and tunnels. It is found in open, semi-arid to arid habitats. Its habitat includes chaparral, cismontane woodland, coastal sage scrub, and valley and foothill grassland. There is potential habitat for this species to be present on the project site. **Potential to be present.**

Quino checkerspot butterfly
Quino checkerspot butterfly (*Euphydryas editha quino*) is a federally listed endangered species. It is found in chaparral and coastal sage scrub. This species requires high densities of food plants, including *Plantago erecta*, *P. insularis*, and *Orthocarpus purpurescens*. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

Merlin
Merlin (*Falco columbarius*) is listed on the CDFW Watch List. It is found in areas with clumps of trees or windbreaks for roosting. Its habitat includes estuary, Great Basin grassland, and valley and foothill grassland. There is potential habitat for this species to be present on the project site. **Potential to be present.**

Bald eagle
Bald eagle (*Haliaeetus leucocephalus*) is a state listed endangered and CDFW fully protected species. This species is found in lower montane coniferous forest and old-growth. They nest in large old-growth or tress with open branches, especially ponderosa pine (*Pinus ponderosa*). The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

California black rail

California black rail (*Laterallus jamaicensis coturniculus*) is a state listed threatened species and is a CDFW Fully Protected Species. It inhabits freshwater marshes, wet meadows, and shallow margins of saltwater marshes bordering larger bays. This species needs water depths of about one inch that do not fluctuate throughout the year and dense vegetation for nesting habitat. Its habitat includes brackish marsh, freshwater marsh, marsh and swamp, salt marsh, and wetland. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

Steelhead-southern California DPS

Steelhead-southern California DPS (*Oncorhynchus mykiss irideus* pop. 10) is a federally listed endangered species. This species is likely to have greater physiological tolerances to warmer water and more variable conditions. Its habitats include aquatic and south coast flowing waters. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

Coastal California gnatcatcher

Coastal California gnatcatcher (*Polioptila californica californica*) is a federally listed threatened species and CDFW Species of Special Concern. This species is found in coastal bluff scrub and coastal scrub habitat. This species is typically found in low, coastal sage scrub in arid washes, on mesas and slopes. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

Delhi Sands flower-loving fly

Delhi Sands flower-loving fly (*Rhaphiomidas terminates abdominalis*) is a federally listed endangered species. It requires fine, sandy soils, often with wholly or partly consolidated dunes and sparse vegetation. It is found only in areas of the Delhi Sands formation in southwestern San Bernardino and northwestern Riverside counties. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

California least tern

California least tern (*Sternula antillarum browni*) is a state and federally listed endangered species and a CDFW Fully Protected Species. It nests along the coast from San Francisco Bay South to northern Baja California. Its habitat includes alkali playa and wetland. The project site does not have suitable habitat for this species. **This species is not considered to be present.**

Least Bell's vireo

Least Bell's vireo (*Vireo bellii pusillus)* is a federal and state listed endangered species. This species is found in riparian forest, riparian scrub, and riparian woodland. Nesting habitat of this species is restricted to willow and/or mulefat dominated riparian scrub along permanent or nearly permanent streams. The project site does not contain suitable habitat for this species. **This species is not considered to be present.**

4.2 Species with other Special Status Listings

Species which are listed as California Species of Special Concern or are not on the CDFW List of Rare plants have all been evaluated and the results can be reviewed in Appendix B to this report. Any of these species which are present or have a potential to exist in the project area will have mitigation measures to avoid or minimize impacts in the Recommendations section of this report.

4.3 Critical Habitats

Critical habitat is defined as areas of land, water, and air space that contain the physical and biological features essential for the survival and recovery of endangered and threatened species. Designated critical habitat includes sites for breeding and rearing, movement or migration, feeding, roosting, cover, and shelter. Critical habitat is designated by USFWS for endangered and threatened species per the federal ESA (16 U.S.C. § 1533 (a)(3)), and to the extent prudent and determinable. Special management of critical habitat, including measures for water quality and quantity, host animals and plants, food availability, pollinators, sunlight, and specific soil types is required to ensure the long-term survival and recovery of the identified species. Critical habitat designation delineates all suitable habitat for the species, whether or not it is occupied. The project site is not located within or adjacent to designated critical habitat for endangered species.

4.4 Nesting Birds

Migratory non-game native bird species are protected under the federal Migratory Bird Treaty Act. Additionally, Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests. The project site contains non-native structures, grasses, shrubs and trees including 3.64 acres of Eucalyptus woodland that can support nesting songbirds or raptors and can be used by nesting song birds or raptors during the nesting bird season of February 1 to September 15.

4.5 Wildlife Movement Corridors

Wildlife movement corridors can be local or regional in scale; their functions may vary temporally and spatially based on conditions and species present. Wildlife corridors represent areas where wildlife movement is concentrated due to natural or anthropogenic constraints. Local corridors provide access to resources such as food, water, and shelter. Animals use these corridors, which are often hillsides or riparian areas, to move between different habitats. Regional corridors provide these functions and link two or more large habitat areas. They provide avenues for wildlife dispersal, migration, and contact between otherwise distinct populations.

The project site is not located within a designated wildlife corridor or linkage. The project site consists of a dairy farm and agricultural fields. Bon view Avenue crosses the central portion of the site from north to south. The site is surrounded by agricultural fields to the north, east, and

west. Chino Airport lies to the south. The project site is surrounded by development and/or existing agricultural and livestock land uses. Further, the site is separated from regional wildlife movement corridors associated with the Prado Damn Flood Control Basin and Santa Ana River. Therefore, the project site does not function as a wildlife movement corridor.

4.6 City, County, Regional, State, or Federal Conservation Plans

The project site is not within any state or federal Habitat Conservation Plans or Habitat Conservation Plans. The Ontario Plan is a Policy Plan that serves as the City of Ontario's General Plan.

The project site is located within the boundaries of the City's Ontario Plan. The Ontario Plan's Environmental Resources Element outlines goals and policies related to Water & Wastewater, Solid Waste & Recycling, Energy, Air Quality, and Biological, Agricultural & Mineral Resources. The biological goal is to protect high value habitat. The Ontario Plan includes policies to support the protection of biological resources through habitat conservation areas and to comply with state and federal regulations regarding protected species.

The City's Municipal Code, Volume II, Chapter 2 contains a provision for "Parkway Tree Regulations" (Ordinance 1664), to preserve parkway trees and to regulate the maintenance and removal of such trees. Parkway is defined as "…that portion of any public street right-of-way between the right-of-way boundary line and the curb line, and also the area enclosed within the curblines of a medial divider." The property owner abutting upon public rights-of-way is responsible to water any tree located in the parkway and for trimming that can be done from the ground to preserve the neat appearance and non-obstructed use of the parkway, while the City is responsible for all major pruning. Removal or relocation of any parkway tree requires prior authorization from the Public Works Agency of the City through a permit process, and planting of a replacement tree, whenever feasible, shall be a condition included in any permit issued by the City for the removal of any parkway tree. Alternatively, a cash-in-lieu deposit may be accepted by the City as an alternate to the actual planting of any required parkway tree based on a fair value established by the Public Facilities Manager.

4.7 State and Federal Jurisdictional Drainages

The project site contains approximately 19 acres of stock/retention ponds and channels. These ponds and channels are man-made, for agricultural use, and fed by wells. The man-made ponds and channels are not connected to a natural stream, nor do they divert natural flow from any river, stream or lake.

Since the source of the water for these man-made features are not part of a natural stream, river, or lake, the stock ponds are not considered jurisdictional under the CDFW Lake and Streambed Alteration Program. The program states: "An entity shall not substantially divert or obstruct the

natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake…". Therefore, the stock ponds on the project site are not a "natural flow" of a stream, river, or lake, and would not be considered jurisdictional by CDFW.

Further, the man-made stock ponds are not adjacent to and are not considered Waters of the United States (WUS). which receives no hydrologic flow. The stock ponds are isolated features that are not tributary to nor do they have a significant nexus (biological, chemical, or physical connection) to traditional navigable waters of the United States. Therefore, the man-made ponds on the project site would not be considered federally jurisdictional under the Clean Water Act.

5.0 Project Impacts

5.1 Impacts to Existing Habitats

Implementation of the proposed project will impact approximately 126.80-acre project site, including 48 acres of agriculture fields, 61.8 acres of disturbed agriculture infrastructure, and 17.0 acres of stock/retention ponds and channels.

5.2 Impacts to Sensitive Species

5.2.1 Plant Species

As identified in Section 4.1.1 (above), no special-status plant species were detected on the site during the reconnaissance surveys and no special-status plant species are expected to occur on the site due to lack of suitable habitat. Longstanding weed abatement/fire break discing and other anthropogenic disturbances have likely altered soil chemistry and other substrate characteristics such that on-site soils may not currently be capable of supporting sensitive plant species. Therefore, the development of the Project would not result in a substantial adverse effect, either directly or through habitat modification, on any plant specifies identified as a candidate, sensitive or special status species in local or regional plans, policies, or regulation or by the CDFW or USFWS. Hence, no significant impact to special-status plant species or their habitat would occur.

5.2.2 Animals

As identified in Section 4.1.2 (above), the species discussed below have been determined to have the potential to occur on site. Project activities were evaluated to determine the potential for impacts to these species.

Tricolored blackbird

Tricolored blackbird is a state listed candidate endangered species and listed by the CDFW as a species of special concern. There is potential habitat for this species present on this site. This potential habitat is found around the man-made stock ponds if vegetation is allowed to grow or if

vegetation is present. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

Grasshopper sparrow

Grasshopper sparrow (*Ammodramus savannarum*) is a CDFW Species of Special Concern. There is potential habitat for this species to be present in the stock ponds. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

Great blue heron

Great blue heron is a CDF Sensitive Species. There is potential habitat for this species to be present in the stock ponds. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

California glossy snake

California glossy snake (*Arizona elegans occidentalis)* is a CDFW Species of Special Concern. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

Burrowing owl

Burrowing owl is a CDFW Species of Special Concern. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Protocol burrowing owl surveys are recommended to determine the presence and use of the site by burrowing owls.

Swainson's hawk

Swainson's hawkis a state listed threatened species. There is potential habitat including the for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

Yellow rail

Yellow rail (*Coturnicops noveboracensis*) is a CDFW Species of Special Concern. There is potential habitat for this species to be present in the stock ponds. This potential habitat is found around the man-made stock ponds if vegetation is allowed to grow or if vegetation is present. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

Western pond turtle
Western pond turtle is a CDFW Species of Special Concern. There is potential habitat for this species to be present in the stock ponds. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

California horned lark
California horned lark is listed on the CDFW Watch List. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

Western mastiff bat
Western mastiff bat is a CDFW Species of Special Concern. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

Merlin
Merlin is listed on the CDFW Watch List. There is potential habitat for this species to be present on the project site. The proposed project has the potential to result in impacts to this species. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to this species are less than significant.

5.3 Impacts to Nesting Birds

Potential impacts to nesting birds may occur if ground disturbing activities or vegetation removal occur during the bird nesting season of February 1 through September 15. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to nesting birds are less than significant.

5.4 Impacts to Critical Habitat

The project is not located within designated federal critical habitat. No impact to critical habitat is expected.

5.5 Impacts to Wildlife Movement Corridors

The project site does not contain any wildlife movement corridors. No impacts are expected.

5.6 Conflict with Local Policies or Ordinances Protecting Biological Resources

The Ontario Plan supports the protection of high value habitat areas by establishing habitat conservation areas and complying with state and federal regulations regarding protected species. Since the project site does not support high value habitats or protected species, the project will not conflict with these policies.

The City's Municipal Code has a provision to protect parkway trees within public rights-of-way and requires a permit to remove or relocate any trees, and planting of replacement trees or a cash-in-lieu fee compensation for any tree removed. Should the project result in the removal of trees that are considered parkway trees, a permit will be required.

5.7 Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation plan

No impacts to any adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation plan are anticipated.

6.0 Recommendations

In order to mitigate any potential impacts from project activities, the project should incorporate the following recommendations:

6.1 Sensitive Species

Tricolored blackbird, Grasshopper sparrow, Great blue heron, Swainson's hawk, Yellow rail, California horned lark, Merlin

- It is recommended that vegetation removal be conducted outside of the nesting season for migratory birds to avoid direct impacts.

- If vegetation removal will occur during the migratory bird nesting season, between February 1 and September 15, it is recommended that pre-construction nesting bird surveys be performed within three days prior to vegetation removal.

- If active nests are found during nesting bird surveys, they shall be flagged. A 250-foot buffer shall be fenced around song bird nests and a 500-foot buffer shall be fenced around raptor nests.

- A biological monitor shall visit the site once a week during ground disturbing activities to ensure all fencing is in place and no sensitive species are being impacted

California glossy snake

- Three days prior to any ground disturbing activities or vegetation removal, a qualified biological monitor should conduct a preconstruction survey to identify any sensitive biological resources. Any reptile species that may be present within the project area shall be relocated outside of the impact areas.

- Biological monitors shall be on-call to relocate any reptile or amphibian that is encountered during construction activities.

Burrowing owl

- A protocol burrowing owl survey is recommended to determine the presence and use of the site by burrowing owls.

Western mastiff bat

- Prior to implementation of project activities, a qualified biologist shall be retained to determine whether potential roosting sites for special-status bats may be affected. Specifically, the agriculture buildings used for sheltering bovines.

- If potential roosting sites are identified, a preconstruction survey shall be conducted prior to the end of April to determine the presence or absence of roosting bats. If the survey does not identify the presence of occupied roosts, no further action is necessary.

- If day roosts or maternity roosts occupied by special-status bat species are documented within construction areas, the bats shall be safely flushed from the sites where roosting habitat is planned to be removed prior to the month of May (maternity roosts are generally occupied from May to August) and prior to the onset of construction activities. The removal of the roosting sites shall occur during the time of day when the roost is unoccupied. The loss of each roost will be compensated for by the construction and installation of two bat boxes suitable to the bat species and colony size excluded from the original roosting site. The bat boxes shall be installed in the vicinity prior to removal of the original day/maternity roost sites. A detailed program for bat flushing, roosting site removal, and installation of bat boxes shall be developed in consultation with a qualified biologist.

Western pond turtle

- Within 14 days prior to the onset of construction activities, a qualified biologist shall conduct pre-construction surveys for western pond turtle within all areas that fall within 100 feet of any suitable aquatic and upland nesting habitat for this species (stock/retention

ponds). If w estern pond turtles are observed during the pre-construction survey, the California Department of Fish and Wildlife shall be contacted. If no Western pond turtles are observed during the preconstruction survey, then construction activities may begin. If construction is delayed or halted for more than 30 days, another pre-construction survey for w estern pond turtle shall be conducted. Within seven days of the pre-construction survey, a report of findings from the survey shall be submitted to the California Department of Fish and Wildlife.

- During construction, a qualified biological monitor who has been approved by the California Department of Fish and Wildlife to relocate western pond turtles shall be onsite to ensure that no western pond turtles are harmed. If western pond turtles are observed in the construction area at any time during construction, the onsite biological monitor shall be notified and construction in the vicinity of the sighting shall be halted until such a time as a turtle has been removed from the construction zone and relocated by an approved biologist. If a sighting occurs during construction, the biologist shall prepare a report of the event and submit it to California Department of Fish and Wildlife.

7.0 Certification

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Date 3-25-20 Signed _____

PROJECT MANAGER

Fieldwork Performed By:

Juan Jose Hernandez

_____

PRINCIPAL BIOLOGIST

8.0 References

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FIGURES

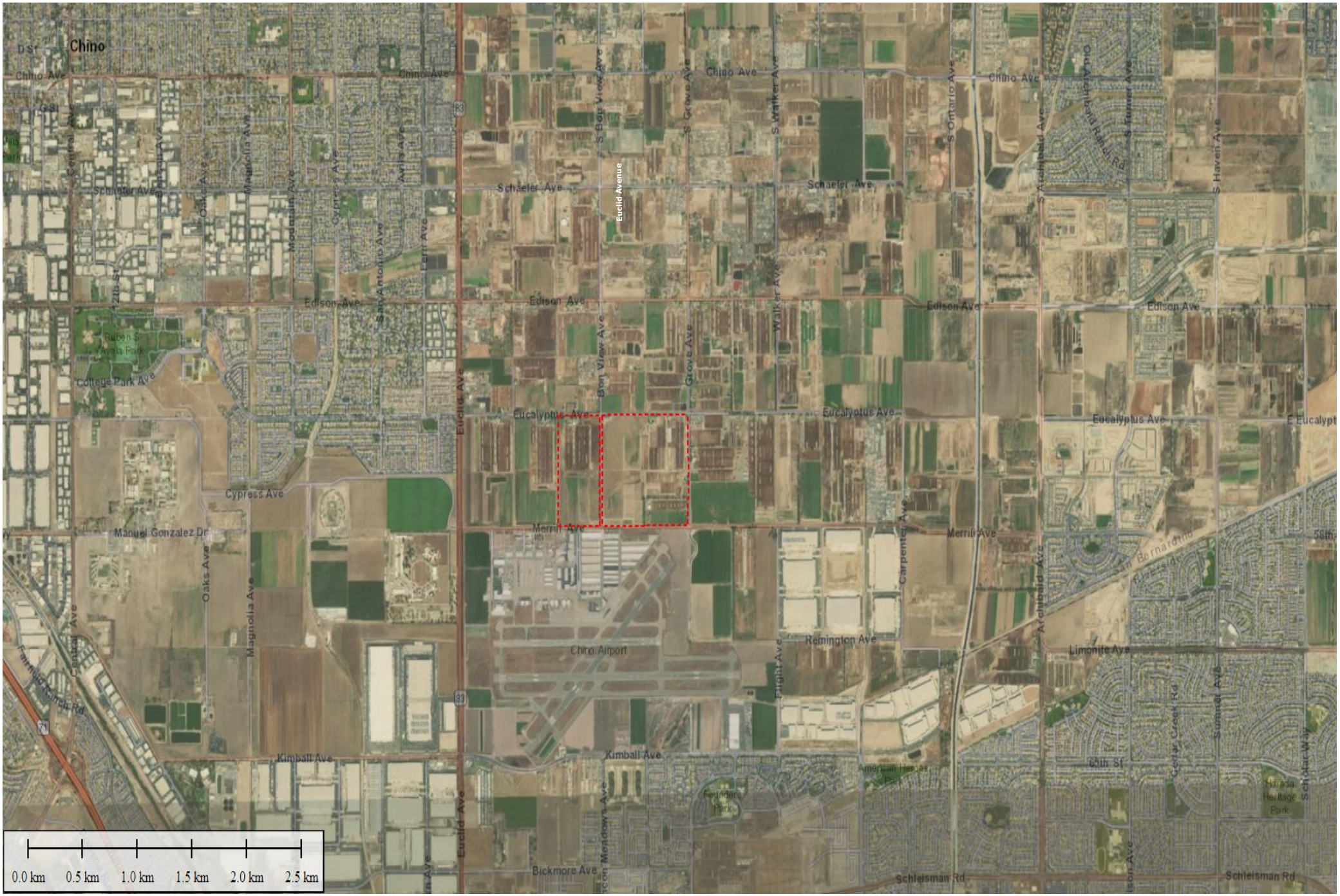


Figure 1

Location Map
Ontario Ranch Commerce Center East
City of Ontario
San Bernardino County, California

Legend

Project Site Boundary

N

Hernandez Environmental Services

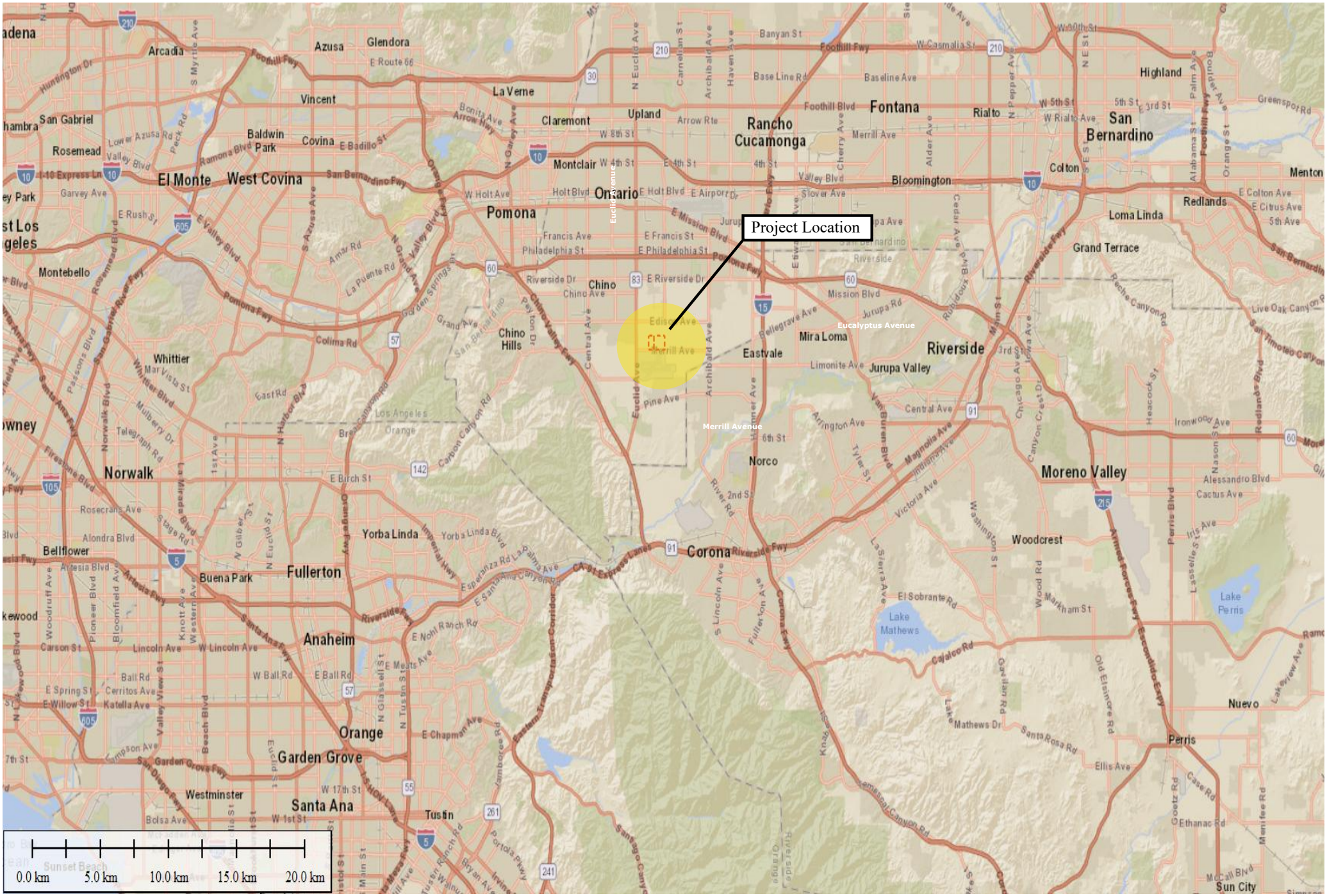


Figure 2

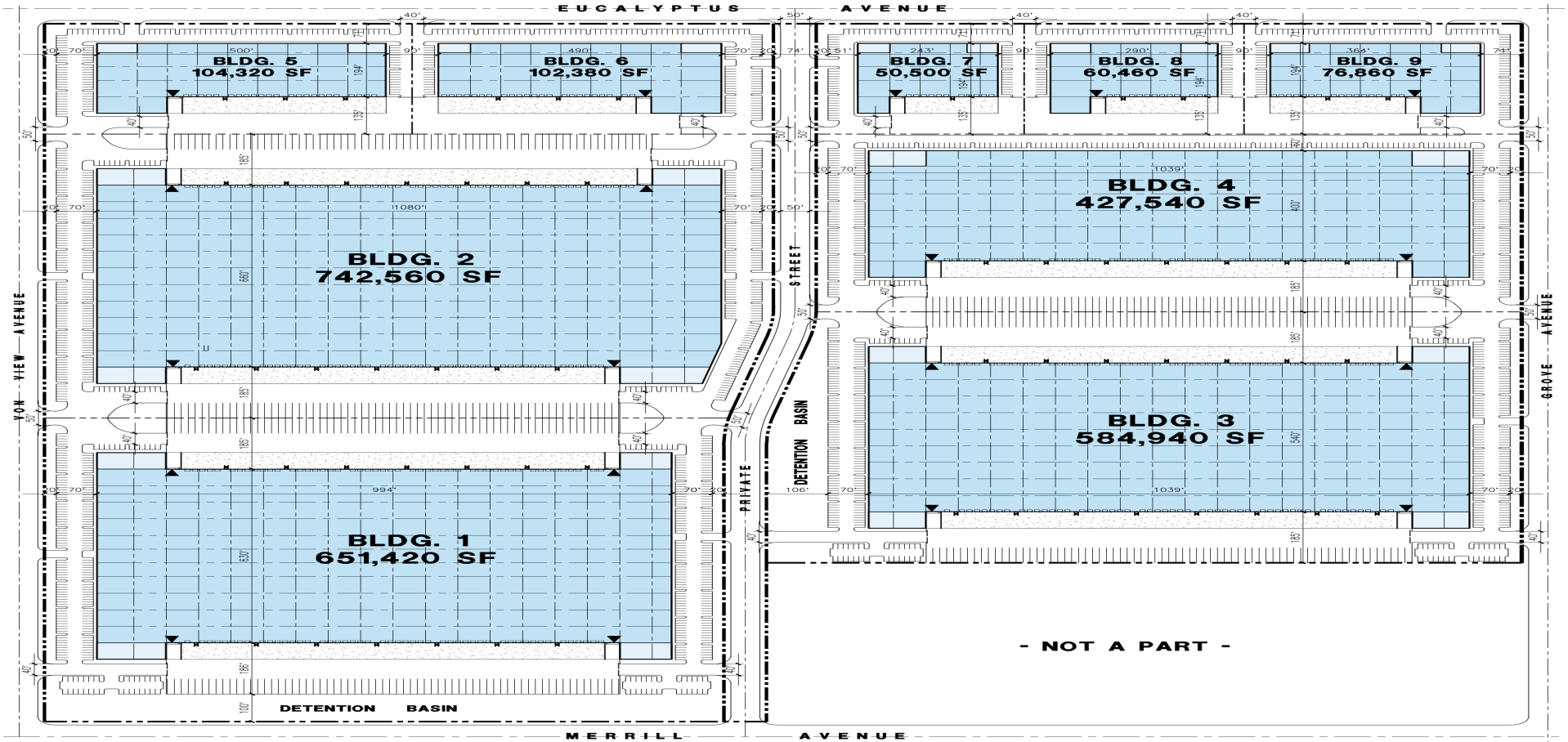
Vicinity Map
Ontario Ranch Commerce Center East
City of Ontario
San Bernardino County, California

Legend

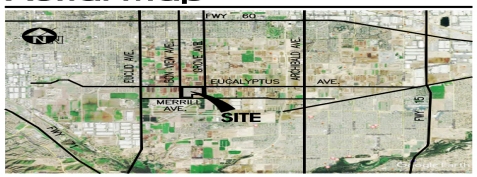
Project Site Boundary

N

Hernandez Environmental Services



Aerial Map



Note: This is a conceptual plan. It is based on preliminary information which is not fully verified and may be incomplete. It is meant as a comparative aid in examining alternate development strategies and any quantities indicated are subject to revision as more reliable information becomes available.

Legend

- POTENTIAL OFFICE
- WAREHOUSE
- DRIVE THRU DOOR

north

1" = 100'
0 100 200 300

Tabulation

	BLDG. 1	BLDG. 2	BLDG. 3	BLDG. 4	BLDG. 5	BLDG. 6	BLDG. 7	BLDG. 8	BLDG. 9	TOTAL
SITE AREA										
in s.f.	1,292,842	1,284,107	1,167,225	786,256	254,000	250,000	143,600	152,000	192,000	5,522,030 s.f.
in acres	29.7	29.5	26.8	18.0	5.8	5.7	3.3	3.5	4.4	126.8 ac
BUILDING AREA										
Office	20,000	20,000	20,000	10,000	5,000	5,000	5,000	5,000	5,000	95,000 s.f.
w arehouse	631,420	722,560	564,940	417,540	99,320	97,380	45,500	55,460	71,860	2,705,980 s.f.
TOTAL	651,420	742,560	584,940	427,540	104,320	102,380	50,500	60,460	76,860	2,800,980 s.f.
COVERAGE	50.4%	57.8%	50.1%	54.4%	41.1%	41.0%	35.2%	39.8%	40.0%	50.7%
AUTO PARKING REQUIRED										
Office: 1/250 s.f.	80	80	80	40	20	20	20	20	20	380 stalls
Whse: 1st 20K @ 1/1,000 s.f.	20	20	20	20	20	20	20	20	20	180 stalls
over 20K @ 1/2,000 s.f.	306	352	273	199	40	39	13	18	26	1,266 stalls
TOTAL	406	452	373	259	80	79	53	58	66	1,826 stalls
PARKING PROVIDED										
Standard (9 'x 18')	388	362	354	338	129	128	78	71	90	1,938 stalls
Trailer (12 'x 55')	130	134	140	70	0	0	0	0	0	474 stalls
TOTAL	518	496	494	408	129	128	78	71	90	2,412 stalls
MAXIMUM FLOOR AREA RATIO										
FAR - .55										
SETBACKS										
Building										
front/street side - 25'										
side - 25'										
rear - 15'										

Landscapes
Eucalyptus Ave. - 20'
Merril Ave. - 23'
Bon View Ave. - 20'
Private St. - 20'

ZONING ORDINANCE FOR CITY
New specific plan to be determined

HPA architecture

18831 Bardeen Ave. - Ste. #100
Irvine, CA 92612
(949) 863-1770
www.hparchs.com

Conceptual Site Plan

Eucalyptus Ave. and Grove Ave.

Ontario, CA

CBRE CB RICHARD ELLIS

September 15, 2017 / Job #17314
Scheme 3

Figure 3
Site Plans
Ontario Ranch Commerce Center East
City of Ontario
San Bernardino County, California

Hernandez Environmental Services

Figure 4

Habitat Map
Ontario Ranch Commerce Center East
City of Ontario
San Bernardino County, California

Legend

- Project Site Boundary
- 107.45 Acres of Disturbed Agricultural Infrastructure
- 95.52 Acres of Agricultural Fields
- 19 Acres of Stock/Retention Ponds
- 3.64 Acres of Eucalyptus Woodland

N

Hernandez Environmental Services

APPENDIX A

Species List

Plant List

Amaranthus albus	Tumbleweed
Ambrosia psilostachya	Western ragweed
Amsinckia intermedia	Common fiddleneck
Brassica nigra	Black mustard
Brassica tournefortii	Saharan mustard
Calystegia sp.	Bindweed
Carex sp.	Sedges
Cynodon dactylon	Bermuda grass
Chenopodium album	Lambs quarters
Datura stramonium	Jimson weed
Erigeron canadensis	Horseweed
Eucalyptus globulus	Blue gum
Euphorbia maculate	Spotted spurge
Helianthus annus	Common sunflower
Heterotheca grandiflora	Telegraph weed
Hordeum murinum	Foxtail barley
Juncus sp.	Rushes
Malva parviflora	Cheeseweed
Medicago sativa	Alfalfa
Nicotina glauca	Tree tobacco
Salsola tragus	Russian thistle
Schismus barbatus	Common Mediterranean grass
Sisymbrium irio	London rocket
Tamarix spp.	Tamarisk
Tribulus terrestris	Puncture weed
Zea sp.	Maiz

Animal List

Buteo jamaicensis	Red-tailed hawk
Cathartes aura	Turkey Vulture
Charadrius vociferus	Killdeer
Corvas brachyrhynchos	American crow
Corvus corax	Raven
Euphagus cyanocephalus	Brewer's Blackbird
Haemorhous mexicanus	House finch
Himantopus mexicanus	Black-necked stilt
Hirundo rustica	Barn swallow
Melozone crissalis	California towee
Otospermophilus beecheyi	California ground squirrel
Sayornis nigricans	Black phoebe
Sayornis saya	Say's phoebe
Streptopelia decaocto	Eurasian collard dove
Tyrannus verticalis	Western kingbird
Uta stansburiana	Common side-blotched Lizard
Zenaida macroura	Mourning Dove
Zonotrichia leucophrys	White-crowned sparrow

APPENDIX B

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Abronia villosa var. aurita	chaparral sand-verbena	Dicots	None	None	1B.1	BLM_S-Sensitive | SB_RSABG-Rancho Santa Ana Botanic Garden | USFS_S-Sensitive	Chaparral | Coastal scrub | Desert dunes	Chaparral, coastal scrub, desert dunes.	Sandy areas. -60-1570 m.	No habitat for this species. **Not present.**
Astragalus brauntonii	Braunton's milk-vetch	Dicots	Endangered	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden | SB_SBBG-Santa Barbara Botanic Garden	Chaparral | Coastal scrub | Limestone | Valley & foothill grassland	Chaparral, coastal scrub, valley and foothill grassland.	Recent burns or disturbed areas; usually on sandstone with carbonate layers. Soil specialist; requires shallow soils to defeat pocket gophers and open areas, preferably on hilltops, saddles or bowls between hills. 3-640 m.	No habitat for this species. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Atriplex coulteri	Coulter's saltbush	Dicots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Coastal bluff scrub | Coastal dunes | Coastal scrub | Valley & foothill grassland	Coastal bluff scrub, coastal dunes, coastal scrub, valley and foothill grassland.	Ocean bluffs, ridgetops, as well as alkaline low places. Alkaline or clay soils. 2-460 m.	No habitat for this species. **Not present.**
Baccharis malibuensis	Malibu baccharis	Dicots	None	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral | Cismontane woodland | Coastal scrub | Riparian woodland	Coastal scrub, chaparral, cismontane woodland, riparian woodland.	In Conejo volcanic substrates, often on exposed roadcuts. Sometimes occupies oak woodland habitat. 150-320 m.	No habitat for this species. **Not present.**
Berberis nevinii	Nevin's barberry	Dicots	Endangered	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden | SB_SBBG-Santa Barbara Botanic Garden	Chaparral | Cismontane woodland | Coastal scrub | Riparian scrub	Chaparral, cismontane woodland, coastal scrub, riparian scrub.	On steep, N-facing slopes or in low grade sandy washes. 90-1590 m.	No habitat for this species. Not present.
California Walnut Woodland	California Walnut Woodland	Woodland	None	None			Cismontane woodland			**Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Calochortus plummerae	Plummer's mariposa-lily	Monocots	None	None	4.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral | Cismontane woodland | Coastal scrub | Lower montane coniferous forest | Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest.	Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m.	No habitat for this species. **Not present.**
Calochortus weedii var. intermedius	intermediate mariposa-lily	Monocots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden | USFS_S-Sensitive	Chaparral | Coastal scrub | Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland.	Dry, rocky calcareous slopes and rock outcrops. 60-1575 m.	No habitat for this species. **Not present.**
Calystegia felix	lucky morning-glory	Dicots	None	None	1B.1		Meadow & seep | Riparian scrub	Meadows and seeps, riparian scrub.	Sometimes alkaline, alluvial. 9-205 m.	No habitat for this species. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Centromadia parryi ssp. australis	southern tarplant	Dicots	None	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Marsh & swamp | Salt marsh | Valley & foothill grassland | Vernal pool | Wetland	Marshes and swamps (margins), valley and foothill grassland, vernal pools.	Often in disturbed sites near the coast at marsh edges; also in alkaline soils sometimes with saltgrass. Sometimes on vernal pool margins. 0-975 m.	No habitat for this species. **Not present.**
Centromadia pungens ssp. laevis	smooth tarplant	Dicots	None	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa | Chenopod scrub | Meadow & seep | Riparian woodland | Valley & foothill grassland | Wetland	Valley and foothill grassland, chenopod scrub, meadows and seeps, playas, riparian woodland.	Alkali meadow, alkali scrub; also in disturbed places. 5-1170 m.	No habitat for this species. **Not present.**
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	Dicots	Proposed Threatened	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden | USFS_S-Sensitive	Coastal scrub | Valley & foothill grassland	Coastal scrub, valley and foothill grassland.	Sandy soils. 15-1015 m.	No habitat for this species. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Chorizanthe parryi var. parryi	Parry's spineflower	Dicots	None	None	1B.1	BLM_S-Sensitive | SB_RSABG-Rancho Santa Ana Botanic Garden | USFS_S-Sensitive	Chaparral | Cismontane woodland | Coastal scrub | Valley & foothill grassland	Coastal scrub, chaparral, cismontane woodland, valley and foothill grassland.	Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m.	No habitat for this species. **Not present.**
Chorizanthe polygonoides var. longispina	long-spined spineflower	Dicots	None	None	1B.2	BLM_S-Sensitive | SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral | Coastal scrub | Meadow & seep | Ultramafic | Valley & foothill grassland | Vernal pool	Chaparral, coastal scrub, meadows and seeps, valley and foothill grassland, vernal pools.	Gabbroic clay. 30-1630 m.	No habitat for this species. **Not present.**
Cladium californicum	California saw-grass	Monocots	None	None	2B.2	SB_RSABG-Rancho Santa Ana Botanic Garden | USFS_S-Sensitive	Alkali marsh | Freshwater marsh | Meadow & seep | Wetland	Meadows and seeps, marshes and swamps (alkaline or freshwater).	Freshwater or alkaline moist habitats. -20-2135 m.	No meadows or seeps present. Just man-made stock ponds. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Dodecahema leptoceras	slender-horned spineflower	Dicots	Endangered	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral | Cismontane woodland | Coastal scrub	Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub).	Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m.	No habitat for this species. **Not present.**
Dudleya multicaulis	many-stemmed dudleya	Dicots	None	None	1B.2	BLM_S-Sensitive | SB_RSABG-Rancho Santa Ana Botanic Garden | USFS_S-Sensitive	Chaparral | Coastal scrub | Valley & foothill grassland	Chaparral, coastal scrub, valley and foothill grassland.	In heavy, often clayey soils or grassy slopes. 1-910 m.	No habitat for this species. **Not present.**
Eriastrum densifolium ssp. sanctorum	Santa Ana River woollystar	Dicots	Endangered	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral | Coastal scrub	Coastal scrub, chaparral.	In sandy soils on river floodplains or terraced fluvial deposits. 180-705 m.	No habitat for this species. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Hesperocyparis forbesii	Tecate cypress	Gymnosperms	None	None	1B.1	BLM_S-Sensitive | SB_CRES-San Diego Zoo CRES Native Gene Seed Bank | SB_RSABG-Rancho Santa Ana Botanic Garden | SB_UCSC-UC Santa Cruz | SB_USDA-US Dept of Agriculture | USFS_S-Sensitive	Chaparral | Closed-cone coniferous forest	Closed-cone coniferous forest, chaparral.	Primarily on north-facing slopes; groves often associated with chaparral. On clay or gabbro. 60-1650 m.	No habitat for this species. **Not present.**
Horkelia cuneata var. puberula	mesa horkelia	Dicots	None	None	1B.1	USFS_S-Sensitive	Chaparral | Cismontane woodland | Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Sandy or gravelly sites. 15-1645 m.	No habitat for this species. **Not present.**
Lepechinia cardiophylla	heart-leaved pitcher sage	Dicots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden | USFS_S-Sensitive	Chaparral | Cismontane woodland | Closed-cone coniferous forest	Closed-cone coniferous forest, chaparral, cismontane woodland.	115-1345 m.	No habitat for this species. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Dicots	None	None	4.3		Chaparral | Coastal scrub	Chaparral, coastal scrub.	Dry soils, shrubland. 4-1435 m.	No habitat for this species. **Not present.**
Monardella australis ssp. jokerstii	Jokerst's monardella	Dicots	None	None	1B.1	USFS_S-Sensitive	Chaparral | Lower montane coniferous forest	Lower montane coniferous forest, chapparal.	Steep scree or talus slopes between breccia. Secondary alluvial benches along drainages and washes. 210-1740 m.	No habitat for this species. **Not present.**
Monardella hypoleuca ssp. intermedia	intermediate monardella	Dicots	None	None	1B.3		Chaparral | Cismontane woodland | Lower montane coniferous forest	Chaparral, cismontane woodland, lower montane coniferous forest (sometimes).	Often in steep, brushy areas. 195-1675 m.	No habitat for this species. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Muhlenbergia californica	California muhly	Monocots	None	None	4.3		Chaparral | Coastal scrub | Lower montane coniferous forest | Meadow & seep	Coastal scrub, chaparral, lower montane coniferous forest, meadows and seeps.	Usually found near streams or seeps. 100-2000 m.	No habitat for this species. **Not present.**
Muhlenbergia utilis	aparejo grass	Monocots	None	None	2B.2		Chaparral | Cismontane woodland | Coastal scrub | Marsh & swamp | Meadow & seep | Ultramafic	Meadows and seeps, marshes and swamps, chaparral, coastal scrub, cismontane woodland.	Sometimes alkaline, sometimes serpentinite. 25-2325 m.	No habitat for this species. Not present.
Nasturtium gambelii	Gambel's water cress	Dicots	Endangered	Threatened	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden | SB_SBBG-Santa Barbara Botanic Garden	Brackish marsh | Freshwater marsh | Marsh & swamp | Wetland	Marshes and swamps.	Freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. 5-305 m.	No marshes or swamps present. Just man-made stock ponds. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Navarretia prostrata	prostrate vernal pool navarretia	Dicots	None	None	1B.2		Coastal scrub | Meadow & seep | Valley & foothill grassland | Vernal pool | Wetland	Coastal scrub, valley and foothill grassland, vernal pools, meadows and seeps.	Alkaline soils in grassland, or in vernal pools. Mesic, alkaline sites. 3-1235 m.	No habitat for this species. **Not present.**
Nolina cismontana	chaparral nolina	Monocots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden | SB_SBBG-Santa Barbara Botanic Garden | USFS_S-Sensitive	Chaparral | Coastal scrub | Ultramafic	Chaparral, coastal scrub.	Primarily on sandstone and shale substrates; also known from gabbro. 140-1100 m.	No habitat for this species. **Not present.**
Penstemon californicus	California beardtongue	Dicots	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden | SB_USDA-US Dept of Agriculture | USFS_S-Sensitive	Chaparral | Lower montane coniferous forest | Pinon & juniper woodlands	Chaparral, lower montane coniferous forest, pinyon and juniper woodland.	Stony slopes and shrubby openings; sandy or granitic soils. 240-2290 m.	No habitat for this species. **Not present.**
Pentachaeta aurea ssp. allenii	Allen's pentachaeta	Dicots	None	None	1B.1		Coastal scrub | Valley & foothill grassland	Valley and foothill grasslands, coastal scrub.	Openings in scrub or grassland. 75-520 m.	No habitat for this species. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Phacelia keckii	Santiago Peak phacelia	Dicots	None	None	1B.3	USFS_S-Sensitive	Chaparral | Closed-cone coniferous forest	Closed-cone coniferous forest, chaparral.	Open areas, sometimes along creeks. 545-1525 m.	No habitat for this species. **Not present.**
Phacelia stellaris	Brand's star phacelia	Dicots	None	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Coastal dunes | Coastal scrub	Coastal scrub, coastal dunes.	Open areas. 3-370 m.	No habitat for this species. **Not present.**
Pseudognaphalium leucocephalum	white rabbit-tobacco	Dicots	None	None	2B.2		Chaparral | Cismontane woodland | Coastal scrub | Riparian woodland	Riparian woodland, cismontane woodland, coastal scrub, chaparral.	Sandy, gravelly sites. 35-515 m.	No habitat for this species. **Not present.**
Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	Scrub	None	None			Coastal scrub			**Not present.**
Senecio aphanactis	chaparral ragwort	Dicots	None	None	2B.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral | Cismontane woodland | Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Drying alkaline flats. 20-1020 m.	No habitat for this species. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Sidalcea neomexicana	salt spring checkerbloom	Dicots	None	None	2B.2	USFS_S-Sensitive	Alkali playa | Chaparral | Coastal scrub | Lower montane coniferous forest | Mojavean desert scrub | Wetland	Playas, chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub.	Alkali springs and marshes. 3-2380 m.	No habitat for this species. **Not present.**
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	Riparian	None	None			Riparian forest			**Not present.**
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Riparian	None	None			Riparian forest			**Not present.**
Southern Interior Cypress Forest	Southern Interior Cypress Forest	Forest	None	None			Closed-cone coniferous forest			**Not present.**
Southern Riparian Forest	Southern Riparian Forest	Riparian	None	None			Riparian forest			**Not present.**
Southern Riparian Scrub	Southern Riparian Scrub	Riparian	None	None			Riparian scrub			**Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	None	None			Riparian woodland			**Not present.**
Southern Willow Scrub	Southern Willow Scrub	Riparian	None	None			Riparian scrub			**Not present.**
Symphyotrichum defoliatum	San Bernardino aster	Dicots	None	None	1B.2	BLM_S-Sensitive | USFS_S-Sensitive	Cismontane woodland | Coastal scrub | Lower montane coniferous forest | Marsh & swamp | Meadow & seep | Valley & foothill grassland	Meadows and seeps, cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, valley and foothill grassland.	Vernally mesic grassland or near ditches, streams and springs; disturbed areas. 3-2045 m.	No habitat for this species. **Not present.**
Thysanocarpus rigidus	rigid fringepod	Dicots	None	None	1B.2	BLM_S-Sensitive | USFS_S-Sensitive	Pinon & juniper woodlands	Pinyon and juniper woodland.	Dry, rocky slopes and ridges of oak and pine woodland in arid mountain ranges. 425-2165	No habitat for this species. **Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rplant Rank	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Walnut Forest	Walnut Forest	Forest	None	None			Broadleaved upland forest			**Not present.**

Scientific Name	Common Name	Taxon Group	Federal List	State List	OthrStatus	Habitats	GenHab	MicroHab	Presence/ Absence
Accipiter cooperii	Cooper's hawk	Birds	None	None	CDFW_WL-Watch List | IUCN_LC-Least Concern	Cismontane woodland | Riparian forest | Riparian woodland | Upper montane coniferous forest	Woodland, chiefly of open, interrupted or marginal type.	Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	No habitat for this species present. **Not present.**
Agelaius tricolor	tricolored blackbird	Birds	None	Threatened	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_EN-Endangered | NABCI_RWL-Red Watch List | USFWS_BCC-Birds of Conservation Concern	Freshwater marsh | Marsh & swamp | Swamp | Wetland	Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California.	Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	Habitat is present in the stock ponds. **Potential to be present.**
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	None	None	CDFW_WL-Watch List	Chaparral | Coastal scrub	Resident in Southern California coastal sage scrub and sparse mixed chaparral.	Frequents relatively steep, often rocky hillsides with grass and forb patches.	No habitat for this species present. **Not present.**

Ammodramus savannarum	grasshopper sparrow	Birds	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Valley & foothill grassland	Dense grasslands on rolling hills, lowland plains, in valleys and on hillsides on lower mountain slopes.	Favors native grasslands with a mix of grasses, forbs and scattered shrubs. Loosely colonial when nesting.	Habitat is present in the stock ponds. **Potential to be present.**
Anaxyrus californicus	arroyo toad	Amphibians	Endangered	None	CDFW_SSC-Species of Special Concern | IUCN_EN-Endangered	Desert wash | Riparian scrub | Riparian woodland | South coast flowing waters | South coast standing waters	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc.	Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	No habitat for this species present. **Not present.**

Anniella stebbinsi	southern California legless lizard	Reptiles	None	None	CDFW_SSC-Species of Special Concern | USFS_S-Sensitive	Broadleaved upland forest | Chaparral | Coastal dunes | Coastal scrub	Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County.	Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	No habitat for this species present. **Not present**.
Antrozous pallidus	pallid bat	Mammals	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | USFS_S-Sensitive | WBWG_H-High Priority	Chaparral | Coastal scrub | Desert wash | Great Basin grassland | Great Basin scrub | Mojavean desert scrub | Riparian woodland | Sonoran desert scrub | Upper montane coniferous forest | Valley & foothill grassland	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting.	Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	No habitat for this species present. **Not present.**

Aquila chrysaetos	golden eagle	Birds	None	None	BLM_S-Sensitive | CDF_S-Sensitive | CDFW_FP-Fully Protected | CDFW_WL-Watch List | IUCN_LC-Least Concern | USFWS_BCC-Birds of Conservation Concern	Broadleaved upland forest | Cismontane woodland | Coastal prairie | Great Basin grassland | Great Basin scrub | Lower montane coniferous forest | Pinon & juniper woodlands | Upper montane coniferous forest | Valley & foothill grassland	Rolling foothills, mountain areas, sage-juniper flats, and desert.	Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	No habitat for this species present. **Not present.**
Ardea herodias	great blue heron	Birds	None	None	CDF_S-Sensitive | IUCN_LC-Least Concern	Brackish marsh | Estuary | Freshwater marsh | Marsh & swamp | Riparian forest | Wetland	Colonial nester in tall trees, cliffsides, and sequestered spots on marshes.	Rookery sites in close proximity to foraging areas: marshes, lake margins, tide-flats, rivers and streams, wet meadows.	Habitat is present in the stock ponds. **Potential to be present.**

Arizona elegans occidentalis	California glossy snake	Reptiles	None	None	CDFW_SSC-Species of Special Concern		Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	Habitat is present. **Potential to be present.**
Artemisiospiza belli belli	Bell's sage sparrow	Birds	None	None	CDFW_WL-Watch List | USFWS_BCC-Birds of Conservation Concern	Chaparral | Coastal scrub	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.	Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	No habitat for this species present. **Not present.**

Asio otus	long-eared owl	Birds	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Cismontane woodland | Great Basin scrub | Riparian forest | Riparian woodland | Upper montane coniferous forest	Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses.	Require adjacent open land, productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	No habitat for this species present. **Not present.**
Aspidoscelis hyperythra	orange-throated whiptail	Reptiles	None	None	CDFW_WL-Watch List | IUCN_LC-Least Concern | USFS_S-Sensitive	Chaparral | Cismontane woodland | Coastal scrub	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.	Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food: termites.	No habitat for this species present. **Not present.**
Aspidoscelis tigris stejnegeri	coastal whiptail	Reptiles	None	None	CDFW_SSC-Species of Special Concern		Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland & riparian areas.	Ground may be firm soil, sandy, or rocky.	No habitat for this species present. **Not present.**

Athene cunicularia	burrowing owl	Birds	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | USFWS_BCC-Birds of Conservation Concern	Coastal prairie | Coastal scrub | Great Basin grassland | Great Basin scrub | Mojavean desert scrub | Sonoran desert scrub | Valley & foothill grassland	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Habitat is present. **Potential to be present.**
Branchinecta sandiegonensis	San Diego fairy shrimp	Crustaceans	Endangered	None	IUCN_EN-Endangered	Chaparral | Coastal scrub | Vernal pool | Wetland	Endemic to San Diego and Orange County mesas.	Vernal pools.	Project area is disturbed agriculture area. No habitat for this species present. **Not present.**

Buteo swainsoni	Swainson's hawk	Birds	None	Threatened	BLM_S-Sensitive | IUCN_LC-Least Concern | USFWS_BCC-Birds of Conservation Concern	Great Basin grassland | Riparian forest | Riparian woodland | Valley & foothill grassland	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch lands with groves or lines of trees.	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Habitat is present. **Potential to be present.**
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	Birds	None	None	CDFW_SSC-Species of Special Concern | USFS_S-Sensitive | USFWS_BCC-Birds of Conservation Concern	Coastal scrub	Southern California coastal sage scrub.	Wrens require tall opuntia cactus for nesting and roosting.	No habitat for this species present. **Not present.**
Catostomus santaanae	Santa Ana sucker	Fish	Threatened	None	AFS_TH-Threatened | IUCN_VU-Vulnerable	Aquatic | South coast flowing waters	Endemic to Los Angeles Basin south coastal streams.	Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae.	No habitat for this species present. **Not present.**

Chaetodipus fallax fallax	northwestern San Diego pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Chaparral | Coastal scrub	Coastal scrub, chaparral, grasslands, sagebrush, etc. in western San Diego County.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	No habitat for this species present. **Not present.**
Choeronycteris mexicana	Mexican long-tongued bat	Mammals	None	None	CDFW_SSC-Species of Special Concern | IUCN_NT-Near Threatened | WBWG_H-High Priority	Pinon & juniper woodlands | Riparian scrub | Sonoran thorn woodland	Occasionally found in San Diego County, which is on the periphery of their range.	Feeds on nectar and pollen of night-blooming succulents. Roosts in relatively well-lit caves, and in and around buildings.	No habitat for this species present. **Not present.**
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	Threatened	Endangered	BLM_S-Sensitive | NABCI_RWL-Red Watch List | USFS_S-Sensitive | USFWS_BCC-Birds of Conservation Concern	Riparian forest	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	No habitat for this species present. **Not present.**
Coleonyx variegatus abbotti	San Diego banded gecko	Reptiles	None	None	CDFW_SSC-Species of Special Concern	Chaparral | Coastal scrub	Coastal & cismontane Southern California.	Found in granite or rocky outcrops in coastal scrub and chaparral habitats.	No habitat for this species present. **Not present.**

Coturnicops noveboracensis	yellow rail	Birds	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | NABCI_RWL-Red Watch List | USFS_S-Sensitive | USFWS_BCC-Birds of Conservation Concern	Freshwater marsh | Meadow & seep	Summer resident in eastern Sierra Nevada in Mono County.	Freshwater marshlands.	Habitat is present in the stock ponds. **Potential to be present.**
Crotalus ruber	red-diamond rattlesnake	Reptiles	None	None	CDFW_SSC-Species of Special Concern | USFS_S-Sensitive	Chaparral | Mojavean desert scrub | Sonoran desert scrub	Chaparral, woodland, grassland, & desert areas from coastal San Diego County to the eastern slopes of the mountains.	Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	No habitat for this species present. **Not present.**
Diplectrona californica	California diplectronan caddisfly	Insects	None	None		Aquatic			No stream present. **Not present.**

Dipodomys merriami parvus	San Bernardino kangaroo rat	Mammals	Endangered	Candidate Endangered	CDFW_SSC-Species of Special Concern	Coastal scrub	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.	No habitat for this species present. **Not present.**
Dipodomys stephensi	Stephens' kangaroo rat	Mammals	Endangered	Threatened	IUCN_EN-Endangered	Coastal scrub | Valley & foothill grassland	Primarily annual & perennial grasslands, but also occurs in coastal scrub & sagebrush with sparse canopy cover.	Prefers buckwheat, chamise, brome grass and filaree. Will burrow into firm soil.	No habitat for this species present. **Not present.**
Elanus leucurus	white-tailed kite	Birds	None	None	BLM_S-Sensitive | CDFW_FP-Fully Protected | IUCN_LC-Least Concern	Cismontane woodland | Marsh & swamp | Riparian woodland | Valley & foothill grassland | Wetland	Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland.	Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Habitat is present. **Potential to be present.**
Empidonax traillii extimus	southwestern willow flycatcher	Birds	Endangered	Endangered	NABCI_RWL-Red Watch List	Riparian woodland	Riparian woodlands in Southern California.		No habitat for this species present. **Not present.**

Emys marmorata	western pond turtle	Reptiles	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_VU-Vulnerable | USFS_S-Sensitive	Aquatic | Artificial flowing waters | Klamath/North coast flowing waters | Klamath/North coast standing waters | Marsh & swamp | Sacramento/San Joaquin flowing waters | Sacramento/San Joaquin standing waters | South coast flowing waters | South coast standing waters | Wetland	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation.	Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	Habitat is present in the stock ponds. **Potential to be present.**
Eremophila alpestris actia	California horned lark	Birds	None	None	CDFW_WL-Watch List | IUCN_LC-Least Concern	Marine intertidal & splash zone communities | Meadow & seep	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills.	Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Habitat is present. **Potential to be present.**

Eumops perotis californicus	western mastiff bat	Mammals	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | WBWG_H-High Priority	Chaparral | Cismontane woodland | Coastal scrub | Valley & foothill grassland	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral, etc.	Roosts in crevices in cliff faces, high buildings, trees and tunnels.	Habitat is present. **Potential to be present.**
Euphydryas editha quino	quino checkerspot butterfly	Insects	Endangered	None	XERCES_CI-Critically Imperiled	Chaparral | Coastal scrub	Sunny openings within chaparral & coastal sage shrublands in parts of Riverside & San Diego counties.	Hills and mesas near the coast. Need high densities of food plants Plantago erecta, P. insularis, and Orthocarpus purpurescens.	No habitat for this species present. Not present.
Falco columbarius	merlin	Birds	None	None	CDFW_WL-Watch List | IUCN_LC-Least Concern	Estuary | Great Basin grassland | Valley & foothill grassland	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands & deserts, farms & ranches.	Clumps of trees or windbreaks are required for roosting in open country.	Habitat is present. **Potential to be present.**

Falco peregrinus anatum	American peregrine falcon	Birds	Delisted	Delisted	CDF_S-Sensitive | CDFW_FP-Fully Protected | USFWS_BCC-Birds of Conservation Concern		Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures.	Nest consists of a scrape or a depression or ledge in an open site.	No habitat for this species present. **Not present.**
Gila orcuttii	arroyo chub	Fish	None	None	AFS_VU-Vulnerable | CDFW_SSC-Species of Special Concern | USFS_S-Sensitive	Aquatic | South coast flowing waters	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave & San Diego river basins.	Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.	No habitat for this species present. **Not present.**

Haliaeetus leucocephalus	bald eagle	Birds	Delisted	Endangered	BLM_S-Sensitive | CDF_S-Sensitive | CDFW_FP-Fully Protected | IUCN_LC-Least Concern | USFS_S-Sensitive | USFWS_BCC-Birds of Conservation Concern	Lower montane coniferous forest | Oldgrowth	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within 1 mile of water.	Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	No habitat for this species present. **Not present.**
Icteria virens	yellow-breasted chat	Birds	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Riparian forest | Riparian scrub | Riparian woodland	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses.	Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	No habitat for this species present. **Not present.**
Lasiurus xanthinus	western yellow bat	Mammals	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | WBWG_H-High Priority	Desert wash	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats.	Roosts in trees, particularly palms. Forages over water and among trees.	No habitat for this species present. **Not present.**

Laterallus jamaicensis coturniculus	California black rail	Birds	None	Threatened	BLM_S-Sensitive | CDFW_FP-Fully Protected | IUCN_NT-Near Threatened | NABCI_RWL-Red Watch List | USFWS_BCC-Birds of Conservation Concern	Brackish marsh | Freshwater marsh | Marsh & swamp | Salt marsh | Wetland	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays.	Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	No habitat for this species present. **Not present.**
Myotis yumanensis	Yuma myotis	Mammals	None	None	BLM_S-Sensitive | IUCN_LC-Least Concern | WBWG_LM-Low-Medium Priority	Lower montane coniferous forest | Riparian forest | Riparian woodland | Upper montane coniferous forest	Optimal habitats are open forests and woodlands with sources of water over which to feed.	Distribution is closely tied to bodies of water. Maternity colonies in caves, mines, buildings or crevices.	No habitat for this species present. **Not present.**
Neotoma lepida intermedia	San Diego desert woodrat	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Coastal scrub of Southern California from San Diego County to San Luis Obispo County.	Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	No habitat for this species present. **Not present.**

Nyctinomops femorosaccus	pocketed free-tailed bat	Mammals	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | WBWG_M-Medium Priority	Joshua tree woodland | Pinon & juniper woodlands | Riparian scrub | Sonoran desert scrub	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.	No habitat for this species present. **Not present.**
Nyctinomops macrotis	big free-tailed bat	Mammals	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | WBWG_MH-Medium-High Priority		Low-lying arid areas in Southern California.	Need high cliffs or rocky outcrops for roosting sites. Feeds principally on large moths.	No habitat for this species present. **Not present.**
Oncorhynchus mykiss irideus pop. 10	steelhead - southern California DPS	Fish	Endangered	None	AFS_EN-Endangered	Aquatic | South coast flowing waters	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County).	Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	No habitat for this species present. Not present.

Perognathus longimembris brevinasus	Los Angeles pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin.	Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead.	No habitat for this species present. **Not present.**
Phrynosoma blainvillii	coast horned lizard	Reptiles	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Chaparral | Cismontane woodland | Coastal bluff scrub | Coastal scrub | Desert wash | Pinon & juniper woodlands | Riparian scrub | Riparian woodland | Valley & foothill grassland	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	No habitat for this species present. **Not present.**
Polioptila californica californica	coastal California gnatcatcher	Birds	Threatened	None	CDFW_SSC-Species of Special Concern | NABCI_YWL-Yellow Watch List	Coastal bluff scrub | Coastal scrub	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California.	Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	No habitat for this species present. **Not present.**

Rhaphiomidas terminatus abdominalis	Delhi Sands flower-loving fly	Insects	Endangered	None		Interior dunes	Found only in areas of the Delhi Sands formation in southwestern San Bernardino & northwestern Riverside counties.	Requires fine, sandy soils, often with wholly or partly consolidated dunes & sparse vegetation. Oviposition req. shade.	No habitat for this species present. **Not present.**
Salvadora hexalepis virgultea	coast patch-nosed snake	Reptiles	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Brushy or shrubby vegetation in coastal Southern California.	Require small mammal burrows for refuge and overwintering sites.	No habitat for this species present. **Not present.**
Setophaga petechia	yellow warbler	Birds	None	None	CDFW_SSC-Species of Special Concern | USFWS_BCC-Birds of Conservation Concern	Riparian forest | Riparian scrub | Riparian woodland	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada.	Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	No habitat for this species present. **Not present.**
Southern California Arroyo Chub/Santa Ana Sucker Stream	Southern California Arroyo Chub/Santa Ana Sucker Stream	Inland Waters	None	None					No habitat for this species present. Not present.

Spea hammondii	western spadefoot	Amphibians	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_NT-Near Threatened	Cismontane woodland | Coastal scrub | Valley & foothill grassland | Vernal pool | Wetland	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.	No habitat for this species present. **Not present.**
Sternula antillarum browni	California least tern	Birds	Endangered	Endangered	CDFW_FP-Fully Protected | NABCI_RWL-Red Watch List	Alkali playa | Wetland	Nests along the coast from San Francisco Bay south to northern Baja California.	Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, land fills, or paved areas.	No habitat for this species present. Not present.
Taricha torosa	Coast Range newt	Amphibians	None	None	CDFW_SSC-Species of Special Concern		Coastal drainages from Mendocino County to San Diego County.	Lives in terrestrial habitats & will migrate over 1 km to breed in ponds, reservoirs & slow moving streams.	No habitat for this species present. **Not present.**

Taxidea taxus	American badger	Mammals	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Alkali marsh | Alkali playa | Alpine | Alpine dwarf scrub | Bog & fen | Brackish marsh | Broadleaved upland forest | Chaparral | Chenopod scrub | Cismontane woodland | Closed-cone coniferous forest | Coastal bluff scrub | Coastal dunes | Coastal prairie | Coastal scrub | Desert dunes | Desert wash | Freshwater marsh | Great Basin grassland | Great Basin scrub | Interior dunes | Ione formation | Joshua tree woodland | Limestone | Lower montane coniferous forest | Marsh &	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	No habitat for this species present. **Not present.**

Thamnophis hammondii	two-striped gartersnake	Reptiles	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | USFS_S-Sensitive	Marsh & swamp | Riparian scrub | Riparian woodland | Wetland	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation.	Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	No habitat for this species present. **Not present.**
Vireo bellii pusillus	least Bell's vireo	Birds	Endangered	Endangered	IUCN_NT-Near Threatened | NABCI_YWL-Yellow Watch List	Riparian forest | Riparian scrub | Riparian woodland	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	No habitat for this species present. **Not present.**

APPENDIX C

View of fallow agricultural fields.

View of disturbed areas with agricultural infrastructure.

View of south east portion of the site.

Hernandez Environmental Services

View of stock pond channel.

View of stock pond and channel.

View of eucalyptus woodland.

Hernandez Environmental Services

APPENDIX D

Map Scale: 1:6,710 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 300 600 1200 1800

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Bernardino County Southwestern Part, California
Survey Area Data: Version 11, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 10, 2018—Jun 5, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cb	Chino silt loam	103.2	43.3%
Gr	Grangeville fine sandy loam, warm MAAT, MLRA 19	71.8	30.1%
Hr	Hilmar loamy fine sand	47.8	20.1%
TuB	Tujunga loamy sand, 0 to 5 percent slopes	15.6	6.5%
Totals for Area of Interest		**238.2**	**100.0%**

APPENDIX C2

ARBORIST REPORT

City of Ontario

Arborist Report- South Ontario Logistics Center

Tree Evaluation

Prepared for:

EPD Solutions

Prepared By:

711 Fee Ana Street
Placentia, CA. 92870
Job Delgadillo
ISA Certified Arborist – WE 11537A
Qualified Applicator #QAL-13357
April 15, 2020

Report Overview:

This report provides an evaluation and recommendations for a variety of tree species for a group of properties located on S. Grove Avenue, Eucalyptus Avenue, Bon View Avenue, and Merrill Avenue, in the city of Ontario as further described below. The entire specific plan boundary is 222.18 acres, but the area with the proposed development and the area that this report encompasses is 130.34 acres. There are approximately (230) trees that were evaluated for this report. The purpose of this report is to provide an evaluation on the health of these trees in order to identify which trees should remain on the project site, either in their present location or if that is not possible, relocate to another area or removed with mitigation, if required. This report provides recommendations for any Heritage, Specimen or Significant trees located at the project site per the Ontario Development Code Tree Preservation Policy and Protection Measures, Section 6.05.020.

Location of Property:

The entire 222.18 acre specific plan project site is located in the city of Ontario, California. The project site (130.34 ac) that this report encompasses is bordered by Grove Avenue, Eucalyptus Avenue, Bon View Avenue, and Merrill Avenue. It is located north of Merrill, south of Eucalyptus and west of Grove.

Study Area:

The 130.34 ac project site was reviewed for trees but the only trees found and evaluated are located around the property 7955 Eucalyptus Avenue, in two rows lining the property of 7920 Merrill, and along Grove Avenue. The two rows of trees at 7920 Merrill Avenue seem to have been planted as a wind break and/or as a property border.

Species, Size and Age of Trees:

There are approximately 16 different species of trees onsite. The majority of trees on site are the two rows of Eucalyptus globulus (Southern Blue Gum) around the address, 7920 Merrill Avenue. Based on the size of the trees, they appear to be over 50 years old. The other trees throughout the

project site are planted around five different structures that appear to be residential properties, all being around 30 years old.

The Eucalyptus globulus, commonly known as southern blue gum, is a species of Eucalyptus that are native to Australia. They may have been used as a wind break, or to designate property lines. The heights of the Eucalyptus trees vary, but majority of them are approximately 40-65 feet tall, and the average DBH (diameter at breast height) is 18".

Using a measuring tape, trunk diameter was measured at a height of 54 inches above mean natural grade; multiple trunks were measured separately. For multi-trunk trees, each trunk was measured separately and then combined to determine the tree's total diameter. The height of each tree was estimated from the mean natural grade to the highest branch. Also, the diameter of each tree's canopy was estimated at its widest point. Each tree assessed was inspected and compared to an archetype tree (considered excellent on all points mentioned below) of the same species. Tree aesthetics were evaluated with respect to overall form and symmetry, crown balance, branching pattern, and broken branches.

The trees onsite were rated in condition on a scale from poor to excellent. A full list of trees including their size and condition is provided below.

Species in	**Species**	**DBH in Inches**	**Height in Feet**	**Condition**
Botanical name	**Common Name**	**(approx.)**	**(approx.)**	**Poor-Excellent**
Eucalyptus globulus	Blue Gum	32	50	Fair
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	30	50	Fair
Eucalyptus globulus	Blue Gum	22	40	Dead
Eucalyptus globulus	Blue Gum	21	30	Fair
Eucalyptus globulus	Blue Gum	30	40	Poor
Eucalyptus globulus	Blue Gum	12	20	Dead
Eucalyptus globulus	Blue Gum	26	30	Fair
Eucalyptus globulus	Blue Gum	25	40	Fair
Eucalyptus globulus	Blue Gum	12	20	Dead

Eucalyptus globulus	Blue Gum	23	40	Fair
Eucalyptus globulus	Blue Gum	23	25	Poor
Eucalyptus globulus	Blue Gum	19	25	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	12	20	Dead
Eucalyptus globulus	Blue Gum	11	20	Dead
Eucalyptus globulus	Blue Gum	26	30	Fair
Eucalyptus globulus	Blue Gum	26	30	Dead
Eucalyptus globulus	Blue Gum	20	30	Dead
Eucalyptus globulus	Blue Gum	22	30	Dead
Eucalyptus globulus	Blue Gum	19	30	Dead
Eucalyptus globulus	Blue Gum	10	30	Dead
Eucalyptus globulus	Blue Gum	7	30	Fair
Eucalyptus globulus	Blue Gum	10	30	Fair
Eucalyptus globulus	Blue Gum	7	30	Fair
Eucalyptus globulus	Blue Gum	14	30	Fair
Eucalyptus globulus	Blue Gum	14	30	Fair
Eucalyptus globulus	Blue Gum	26	30	Fair
Eucalyptus globulus	Blue Gum	22	30	Poor
Eucalyptus globulus	Blue Gum	28	25	Poor
Eucalyptus globulus	Blue Gum	15	20	Poor
Eucalyptus globulus	Blue Gum	20	30	Poor
Eucalyptus globulus	Blue Gum	14	30	Fair
Eucalyptus globulus	Blue Gum	5	30	Fair
Eucalyptus globulus	Blue Gum	10	30	Fair
Eucalyptus globulus	Blue Gum	20	20	Fair
Eucalyptus globulus	Blue Gum	15	20	Poor
Eucalyptus globulus	Blue Gum	10	20	Poor
Eucalyptus globulus	Blue Gum	7	20	Poor
Eucalyptus globulus	Blue Gum	17	30	Poor
Eucalyptus globulus	Blue Gum	17	30	Fair

Eucalyptus globulus	Blue Gum	15	20	Poor
Eucalyptus globulus	Blue Gum	22	30	Poor
Eucalyptus globulus	Blue Gum	17	30	Fair
Eucalyptus globulus	Blue Gum	17	30	Fair
Eucalyptus globulus	Blue Gum	15	30	Fair
Eucalyptus globulus	Blue Gum	19	30	Fair
Eucalyptus globulus	Blue Gum	17	30	Fair
Eucalyptus globulus	Blue Gum	17	20	Fair
Eucalyptus globulus	Blue Gum	10	25	Poor
Eucalyptus globulus	Blue Gum	28	50	Dead
Eucalyptus globulus	Blue Gum	26	40	Fair
Eucalyptus globulus	Blue Gum	22	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	21	20	Dead
Eucalyptus globulus	Blue Gum	22	25	Poor
Eucalyptus globulus	Blue Gum	28	20	Fair
Eucalyptus globulus	Blue Gum	22	50	Fair
Eucalyptus globulus	Blue Gum	26	55	Fair
Eucalyptus globulus	Blue Gum	12	20	Fair
Eucalyptus globulus	Blue Gum	12	20	Dead
Eucalyptus globulus	Blue Gum	15	25	Dead
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	15	25	Poor
Eucalyptus globulus	Blue Gum	15	25	Poor
Eucalyptus globulus	Blue Gum	15	20	Poor
Eucalyptus globulus	Blue Gum	28	40	Fair
Eucalyptus globulus	Blue Gum	15	40	Fair
Eucalyptus globulus	Blue Gum	15	40	Poor
Eucalyptus globulus	Blue Gum	18	40	Dead

Eucalyptus globulus	Blue Gum	20	45	Dead
Eucalyptus globulus	Blue Gum	18	40	Fair
Eucalyptus globulus	Blue Gum	17	45	Fair
Eucalyptus globulus	Blue Gum	17	45	Poor
Eucalyptus globulus	Blue Gum	15	45	Fair
Eucalyptus globulus	Blue Gum	22	40	Fair
Eucalyptus globulus	Blue Gum	5	20	Fair
Eucalyptus globulus	Blue Gum	15	25	Fair
Eucalyptus globulus	Blue Gum	26	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Poor
Juniperus chinensis	Chinese Juniper	40	15	Good
Koelreuteria bipinnata	Chinese Flame	17	15	Good
Pittosporum tobira	Austrian Laurel	10	10	Fair
Pittosporum tobira	Austrian Laurel	20	10	Fair
Juniperus chinensis	Chinese Juniper	15	10	Good
Fraxinus	Ash	36	15	Good
Fraxinus	Ash	32	15	Good
Pittosporum tobira	Austrian Laurel	10	10	Good
Pittosporum tobira	Austrian Laurel	10	10	Good
Pittosporum tobira	Austrian Laurel	10	10	Good
Fraxinus	Ash	30	15	Good
Ficus benjamina	Weeping Fig	10	20	Good
Ficus benjamina	Weeping Fig	15	20	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Juniperus chinensis	Chinese Juniper	15	15	Good
Podocarpus gracilior	African Fern	42	40	Good
Pinus canariensis	Canary Island Pine	18	50	Good

Pinus canariensis	Canary Island Pine	19	50	Good
Pinus canariensis	Canary Island Pine	22	50	Good
Pittosporum tobira	Austrian Laurel	14	15	Good
Pittosporum tobira	Austrian Laurel	14	15	Good
Pinus pinea	Stone Pine	35	25	Fair
Pinus pinea	Stone Pine	19	25	Fair
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	6	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Cupressus sempervirens	Italian Cypress	16	15	Good
Citrus	Citrus Tree	10	8	Good
Citrus	Citrus Tree	10	6	Good
Citrus	Citrus Tree	9	6	Good
Citrus	Citrus Tree	8	10	Good
Citrus	Citrus Tree	8	10	Good
Citrus	Citrus Tree	8	8	Good
Citrus	Citrus Tree	9	8	Good
Cupaniopsis anacardioides	Carrotwood	15	15	Good
Cupaniopsis anacardioides	Carrotwood	14	15	Good
Cupaniopsis anacardioides	Carrotwood	14	10	Good

Cupaniopsis anacardioides	Carrotwood	15	10	Good
Ceiba speciosa	Silk Floss	18	15	Fair
Jacaranda mimosifolia	Jacaranda	10	10	Fair
Fraxinus	Ash	28	30	Good
Ficus benjamina	Weeping Fig	24	25	Good
Ficus benjamina	Weeping Fig	24	25	Good
Ficus benjamina	Stone Pine	24	25	Good
Olea europaea	Olive	21	15	Fair
Olea europaea	Olive	26	20	Fair
Olea europaea	Olive	28	20	Fair
Pinus pinea	Stone Pine	19	40	Fair
Eucalyptus globulus	Blue Gum	15	40	Fair
Eucalyptus globulus	Blue Gum	22	40	Fair
Eucalyptus globulus	Blue Gum	18	40	Dead
Eucalyptus globulus	Blue Gum	10	40	Dead
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	15	50	Poor
Eucalyptus globulus	Blue Gum	28	50	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	28	20	Fair
Eucalyptus globulus	Blue Gum	10	40	Dead
Eucalyptus globulus	Blue Gum	20	40	Fair
Eucalyptus globulus	Blue Gum	10	40	Poor
Eucalyptus globulus	Blue Gum	10	20	Poor
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	10	20	Poor
Eucalyptus globulus	Blue Gum	20	50	Dead
Eucalyptus globulus	Blue Gum	14	50	Fair
Eucalyptus globulus	Blue Gum	18	55	Poor

Eucalyptus globulus	Blue Gum	17	55	Fair
Eucalyptus globulus	Blue Gum	16	25	Fair
Eucalyptus globulus	Blue Gum	11	20	Dead
Eucalyptus globulus	Blue Gum	11	40	Dead
Eucalyptus globulus	Blue Gum	18	40	Dead
Eucalyptus globulus	Blue Gum	15	40	Poor
Eucalyptus globulus	Blue Gum	10	45	Fair
Eucalyptus globulus	Blue Gum	18	45	Dead
Eucalyptus globulus	Blue Gum	10	45	Dead
Eucalyptus globulus	Blue Gum	18	25	Fair
Eucalyptus globulus	Blue Gum	18	25	Dead
Eucalyptus globulus	Blue Gum	17	50	Fair
Eucalyptus globulus	Blue Gum	16	50	Poor
Eucalyptus globulus	Blue Gum	18	50	Poor
Eucalyptus globulus	Blue Gum	15	20	Dead
Eucalyptus globulus	Blue Gum	22	20	Poor
Eucalyptus globulus	Blue Gum	18	50	Dead
Eucalyptus globulus	Blue Gum	10	50	Fair
Eucalyptus globulus	Blue Gum	15	50	Poor
Eucalyptus globulus	Blue Gum	15	50	Fair
Eucalyptus globulus	Blue Gum	28	50	Fair
Eucalyptus globulus	Blue Gum	10	50	Dead
Eucalyptus globulus	Blue Gum	10	55	Dead
Eucalyptus globulus	Blue Gum	28	45	Dead
Eucalyptus globulus	Blue Gum	10	45	Poor
Eucalyptus globulus	Blue Gum	20	50	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	10	45	Dead
Eucalyptus globulus	Blue Gum	15	45	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	20	20	Fair

Eucalyptus globulus	Blue Gum	14	50	Poor
Eucalyptus globulus	Blue Gum	18	50	Poor
Eucalyptus globulus	Blue Gum	17	50	Dead
Eucalyptus globulus	Blue Gum	16	50	Poor
Eucalyptus globulus	Blue Gum	11	45	Dead
Eucalyptus globulus	Blue Gum	11	50	Fair
Eucalyptus globulus	Blue Gum	18	40	Poor
Eucalyptus globulus	Blue Gum	15	25	Fair
Eucalyptus globulus	Blue Gum	10	25	Fair
Eucalyptus globulus	Blue Gum	18	40	Dead
Eucalyptus globulus	Blue Gum	10	40	Dead
Eucalyptus globulus	Blue Gum	18	45	Dead
Eucalyptus globulus	Blue Gum	18	40	Poor
Eucalyptus globulus	Blue Gum	17	50	Fair
Eucalyptus globulus	Blue Gum	16	50	Dead
Eucalyptus globulus	Blue Gum	18	50	Dead
Eucalyptus globulus	Blue Gum	28	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Dead
Eucalyptus globulus	Blue Gum	20	50	Fair
Eucalyptus globulus	Blue Gum	10	50	Poor
Eucalyptus globulus	Blue Gum	10	50	Poor
Eucalyptus globulus	Blue Gum	15	50	Dead
Eucalyptus globulus	Blue Gum	10	20	Poor
Eucalyptus globulus	Blue Gum	20	20	Dead
Eucalyptus globulus	Blue Gum	14	45	Fair
Eucalyptus globulus	Blue Gum	18	45	Poor
Eucalyptus globulus	Blue Gum	17	50	Poor
Eucalyptus globulus	Blue Gum	16	50	Poor
Eucalyptus globulus	Blue Gum	11	50	Poor
Eucalyptus globulus	Blue Gum	11	50	Poor
Eucalyptus globulus	Blue Gum	18	20	Fair

Eucalyptus globulus	Blue Gum	15	20	Fair
Eucalyptus globulus	Blue Gum	10	20	Poor
Juniperus chinensis	Chinese Juniper	8	10	Fair
Juniperus chinensis	Chinese Juniper	11	10	Fair
Juniperus chinensis	Chinese Juniper	15	10	Fair
Fraxinus	Ash	28	40	Fair
Ceiba speciosa	Silk Floss	23	40	Fair

Tree Health and Condition:

Majority of the trees onsite are in fair condition. No trees have been determined to be in excellent condition. The five residential properties have been regularly irrigated which has allowed the trees to thrive in their current place. Most of the trees are in need of pruning and some have a few failed limbs but overall the trees located around the residential properties are in fair to good condition.

The Eucalyptus rows around the Merrill address have been severely affected by drought. Majority of the trees are in decline and several are already dead. Most of the trees are also infected with Lerp Psyllid, a plant-juice sucking homopterans in the insect family. Lerp psyllid nymphs form a cover called a “lerp” which is a small white, hemispherical cap composed of solidified honeydew and wax. Psyllid nymphs and adults feed by sucking plant phloem sap. High lerp psyllid populations secrete copious honeydew and cause premature leaf drop. Extensive defoliation weakens trees, can increase tree susceptibility to damage from other insects and diseases affecting the trees and can contribute to premature death.

City Heritage, Significant, and Specimen Trees:

The Development code (section 6.05.020) addresses heritage trees in the city of Ontario. There are (0) types of trees that fall under the definition of a heritage tree, as noted below.

- Heritage tree – (c) a defining landmark or significant outstanding feature of a neighborhood or district, or typical of early Ontario landscapes, [i] Cinnamomum camphora [ii] Cedrus deodora, and [iii] Platanus acerifolia.

Recommendations:

The vast majority of trees located around the address 7920 Merrill Avenue are currently not viable to be maintained in place. This is primarily due to the fact that they have been neglected for years. The lack of irrigation and proper tree maintenance has resulted in numerous dead trees. Most of the remaining other trees appear to be in fair to good health. I have determined that the majority of the trees located around 7920 Merrill Avenue appear to be in poor condition. I recommend that any tree that is in severe decline be removed. I recommend the removal of all dead trees since they pose potential liability should they fall. I do not recommend the relocation of any trees onsite due to the condition they are currently in.

I also recommend a three year management plan be created, and an irrigation system be installed on trees that are not to be removed. However, even with the tree management plan and irrigation system, the tree may not be suitable to be maintained in place. Also, if there are any changes to the existing grade, or digging for infrastructure improvements that would damage the root system of any trees, then the removal of those trees is recommended.

Conclusion:

Pursuant to the Development Code Tree Preservation Policy and Protection Measures, section 6.05.020, I have determined that there are no significant or specimen trees on the project site. None of the trees onsite are in excellent condition or have a condition rating greater than 70%. I have determined that no trees need any protective measures to preserve the health of the tree during the development or redevelopment activity. I have also determined that no trees are viable candidates for relocation due to the condition they are currently in.

Aerial of Site

Windrow Trees

Eucalyptus on Site

Lerp Psyllid

APPENDIX C3

FOCUSED BURROWING OWL SURVEY

ECOLOGICAL SCIENCES, inc.

Focused Burrowing Owl Surveys

±130.0-acre South Ontario Logistics Center Site

Site Location:
City of Ontario
San Bernardino County, California
Prado Dam 7.5-minute Quadrangle Map
Township 2 South, Range 7 West

Prepared for:

Jeff Johnston
Real Estate Development Associates (REDA)
4450 MacArthur Boulevard, Ste. 100
Newport Beach, CA 92660
949.954.3087

Prepared by:

Scott Cameron
Ecological Sciences, Inc.
24307 Magic Mountain Parkway, #538
Valencia, CA 91355
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scameron@ecosciencesinc.com

October 16, 2019
Updated December 30, 2020

ECOLOGICAL SCIENCES, inc.

December 30, 2020

Jeff Johnston
Real Estate Development Associates (REDA)
4450 MacArthur Boulevard, Ste. 100
Newport Beach, CA 92660

SUBJECT: ***Results of a Focused Burrowing Owl Surveys, ±130-acre South Ontario Logistics Center Site, City of Ontario, San Bernardino County, California***

Dear Jeff:

This letter report presents results of focused surveys conducted to evaluate the presence/absence of the special-status burrowing owl (*Athene cunicularia*-BUOW) on a ±130-acre site. Please note that this ±130-acre site is located within the larger specific plan boundary of ±222 acres, however, the subject study area with the currently proposed development consists of ±130 acres. Please note that the difference in acreage from other project-related reports (±92 acres) would be programmatically analyzed at a later date, and therefore the additional acreage was not included in this focused BUOW study.

Introduction

The project site is located in San Bernardino County, California (***Plate 1***). Specifically, the site is located in the City of Ontario north of Merrill Avenue, south of Eucalyptus Avenue, east of Bon View Avenue, and west of Grove Avenue. The site occurs on the "Prado Dam" California USGS 7.5-minute quadrangle map, Township 2 South, Range 7 West (***Plate 2***).

Projects proposed in the area that contain potentially suitable habitat to support sensitive biological resources must demonstrate to reviewing agencies [e.g., U.S. Fish and Wildlife Service (FWS), California Department of Fish and Game (CDFG-more recently Department of Fish and Wildlife or CDFW), County of San Bernardino (County), City of Ontario (City)] that potential project-related impacts to sensitive biological resources are adequately addressed and mitigated pursuant to the California Environmental Quality Act (CEQA) and other environmental regulations as part of project approval. For the purposes of this report, both the 1995 CDFG Staff Report on Burrowing Owl Mitigation and the 2012 CDFG Staff Report on Burrowing Owl Mitigation are referenced to provide background information.

Selected Species Overview / Regulatory Background

The ***western burrowing owl*** is considered a California Species of Special Concern, Federal Species of Concern, Partners in Flight Priority Bird Species, and Fish and Wildlife Service Species of Management Concern because of declines of suitable habitat, as well as localized and statewide population declines (CDFG 1995, 2012). Burrowing owls range across most of western North America. In coastal southern California, they occur in annual and perennial grasslands, agricultural areas, and coastal dunes. Habitat characteristics also include deserts and arid scrublands that contain low-growing vegetation (Zarn 1974). It is believed that burrowing owls may potentially occur wherever there are ground squirrel (e.g., *Spermophilus beecheyi*) colonies as this owl uses ground squirrel burrows throughout the year. Burrows are the essential component of burrowing owl habitat (CDFG 1995), however, burrowing owls are also known to use artificial burrows under certain circumstances such as abandoned concrete structures and debris piles. The BUOW generally prefers moderately to heavily grazed grasslands for nesting and

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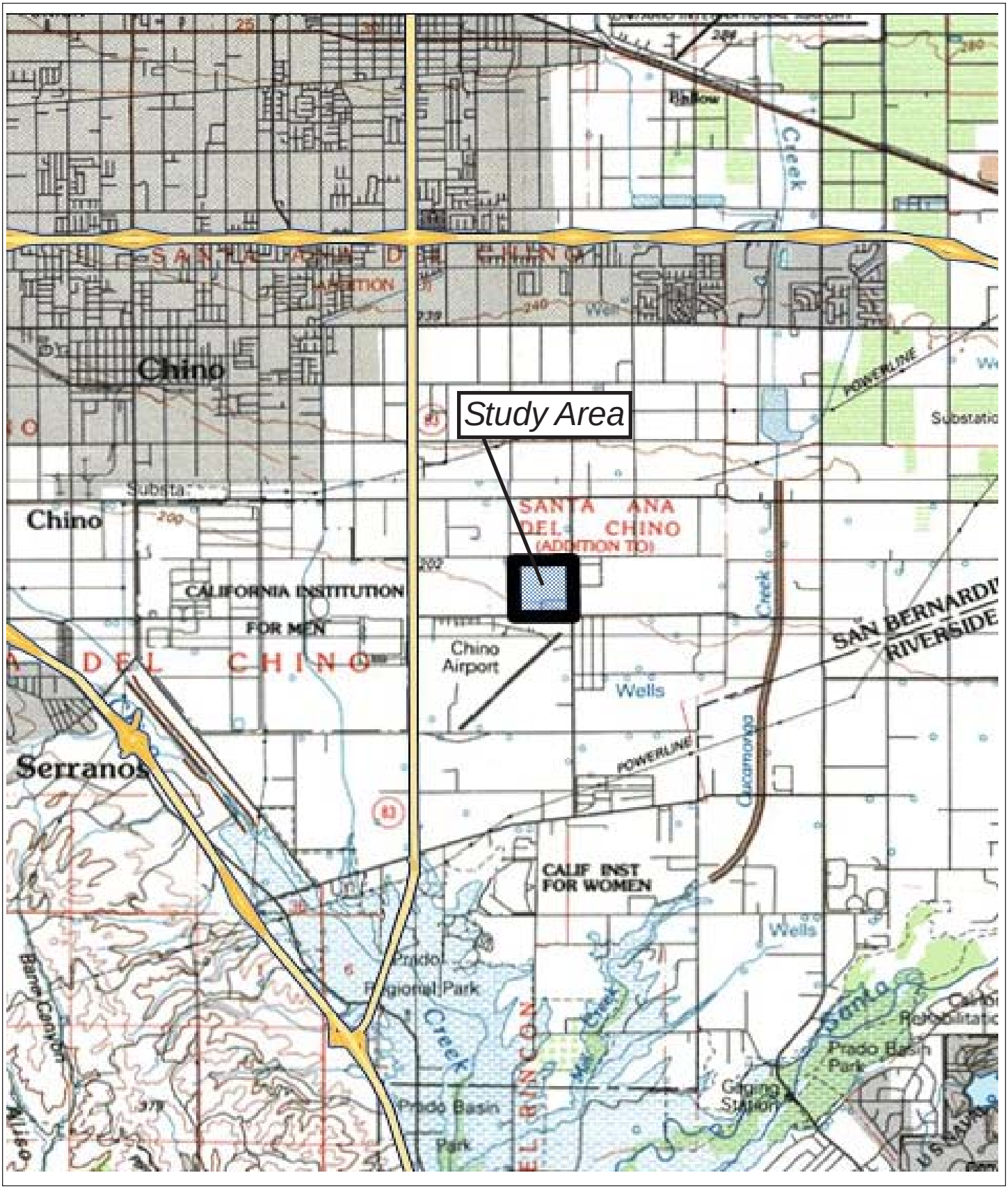

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plate **1**

Regional Site Location

South Ontario Logistics Center Site

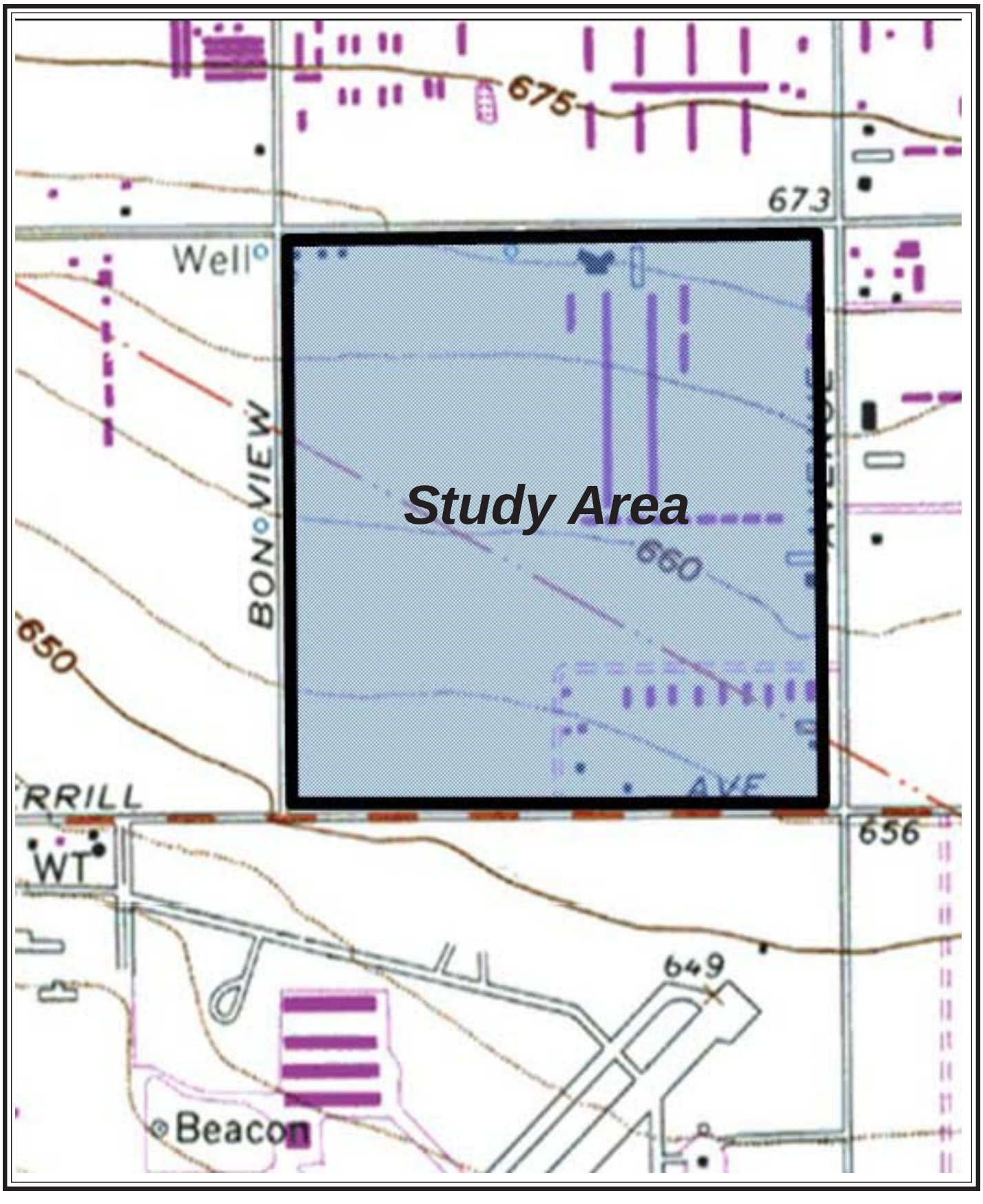

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plate **2**

Site Vicinity

South Ontario Logistics Center Site

roosting and avoids recently cultivated/disced fields. BUOW may utilize multiple burrows/sites throughout the year (e.g., small seasonal migrations), although in central and southern California, owls are predominantly non-migratory (CBOC 2000).

While this special-status species is not protected by state or federal endangered species acts, take, possession or destruction of individual burrowing owls, their nests and eggs is prohibited under CDFG code sections 3503, 3503.5 and 3513, as well as the federal Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. 703-711). Under CEQA, goals would consist of measures that would avoid, minimize and mitigate impacts to a less than significant level. For individual projects, mitigation must be roughly proportional to the level of impacts, including cumulative impacts, in accordance with the provisions of CEQA (CEQA Guidelines, §§ 15126.4(a)(4)(B), 15064, 15065, and 16355). If it were later determined that active nests would be lost as a result of site-preparation, it would be in conflict with these regulations, and could also be considered a significant impact under CEQA without mitigation. In order to avoid violation of the MBTA and CDFG Code requirements, CDFG guidelines (1995, 2012) suggest that project-related disturbances at active nesting territories be reduced or eliminated during the BUOW nesting/breeding cycle (typically February 1 to August 31). Accordingly, construction should take place, as much as possible, outside of the breeding season for BUOW (i.e., construction between September 1 to January 31) to avoid or reduce potential impacts to this species. However, BUOW nesting activity is variable, and as such the time frame should be adjusted accordingly based on specific site information.

Owl survival can be adversely affected by disturbance (e.g., foraging habitat loss) even when impacts to individual birds and nest/burrows are avoided (CDFG 1995). Recommended restricted activity dates and setback distances by level of disturbance for burrowing owls (Scobie and Faminow 2000 in 03/7/12 CDFG BUOW Staff Report are provided below in Table 1.

Table 1- CDFG Recommended Restricted Activity Dates and Setback Distances by Level of Disturbance for BUOW

Location	***Time of Year***	***Level of Disturbance***		
		Low	***Medium***	***High***
Nesting sites	April 1-Aug 15	200 m*	500 m	500 m
Nesting sites	Aug 16-Oct 15	200 m	200 m	500 m
Nesting sites	Oct 16-Mar 31	50 m	100 m	500 m

*meters (m). Table and text excerpted directly from 2012 CDFG BUOW Staff Report
Note: Based on existing vegetation, human development, and land uses in an area, resource managers may decide to allow human development or resource extraction closer to these area/sites than recommended above. However, if it is decided to allow activities closer than the setback distances recommended, a broad-scale, long-term, scientifically-rigorous monitoring program ensures that burrowing owls are not detrimentally affected by alternative approaches.

Mitigation measures detailed in the CDFG 1995 staff report include: (1) preservation of habitat, (2) artificial burrow construction, and (3) provide funding for long-term management and monitoring of protected mitigation lands. Mitigation measures successfully implemented for this species also include giving the Service/CDFW right of first refusal for actively relocating any BUOW present. Currently occupied receiving sites may be available where this species has a greater chance of successful long-term relocation. Other minimization measures include eliminating actions that reduce burrowing owl forage and burrowing surrogates (e.g. ground squirrel), or introduce/facilitate burrowing owl predators. Actions that could influence these factors include reducing livestock grazing rates and/or changing the timing or duration of grazing or vegetation management that could result in less suitable habitat (CDFG 2012).

Implementation of avoidance and minimization measures would be triggered by positive owl presence on the site where project activities would occur. The development of avoidance and minimization

approaches would be developed by monitoring. BUOW may re-colonize a site after only a few days. Time lapses (i.e. construction delays) between project activities would trigger subsequent take avoidance surveys including but not limited to a final survey conducted within 24 hours prior to ground disturbance (CDFG 2012). Should eggs or fledglings be discovered in any owl burrow or native nest, these resources cannot be disturbed (pursuant to CDFW guidelines) until the young have hatched and fledged (matured to a stage that they can leave the nest on their own). Take of active nests should always be avoided. If owls must be moved away from the disturbance area, passive relocation techniques (where applicable outside of the breeding season before breeding behavior is exhibited and after the burrow is confirmed empty by site surveillance) should be used rather than trapping (CDFG 2012). If burrow exclusion and/or burrow closure is implemented, BUOWs should not be excluded from burrows unless or until: (1) a Burrowing Owl Exclusion Plan is developed and approved by the applicable local CDFW office; and (2) permanent loss of occupied burrow(s) and habitat is mitigated in accordance with the Mitigating Impacts (CDFG 2012).

Methodology

Review of Existing Information

Existing documentation pertinent to the distribution and habitat requirements of the burrowing owl was reviewed and analyzed. This included a review of: (1) the California Natural Diversity Data Base (CNDDB 2019), (2) both the 1995 CDFG Staff Report on Burrowing Owl Mitigation and the 2012 CDFG Staff Report on Burrowing Owl Mitigation, and (3) other literature pertaining to habitat requirements of the BUOW as referenced herein.

2019 Focused BUOW Surveys

The BUOW surveys were conducted in accordance with the March 7, 2012 CDFG Staff Report on Burrowing Owl Mitigation. These guidelines include searches for BUOW, burrows (natural and artificial), and BUOW sign by walking parallel transects (where feasible) through suitable habitat over the entire survey area [i.e., the project site and within a 150 meter (500 feet) buffer area where feasible or at least by visual means]. Upon arrival at the survey area and prior to initiating the walking surveys, the biologist used binoculars and/or spotting scope to scan suitable habitat. Ecological Sciences' Principal Biologist, Scott Cameron, initiated the first of four total focused breeding season BUOW surveys on April 15, 2019. Subsequent surveys were conducted on May 11, June 16, and July 6. Mr. Cameron has extensive experience conducting habitat assessments and focused burrowing owl surveys over the past 25 years, and has recorded numerous BUOW over the course of 100+ surveys throughout southern California. Mr. Cameron has also conducted passive relocation activities, used burrow probes, and conducted burrow closing procedures for multiple projects.

Per the Staff Report, the breeding season BUOW surveys included a review of pertinent information of the project site and vicinity and a series of four focused burrowing owl surveys conducted according to the 2012 California Department of Fish and Game (CDFG April 7, 2012) Staff Report on Burrowing Owl Mitigation. The Staff reports requires at least one site visit between 15 February and 15 April, and a minimum of three survey visits, at least three weeks apart, between 15 April and 15 July, with at least one visit after 15 June. Surveys would be conducted by walking straight-line transects spaced 7 meters (23 feet) to 20 meters (65 feet) apart, adjusting for vegetation height and density using standard auditory and visual means. At the start of each transect and, at least, every 100 m (328 feet), the entire visible project area would be scanned for BUOW using binoculars. During walking surveys, a record of all potential burrows used by burrowing owls as determined by the presence of one or more burrowing owls, pellets, prey remains, whitewash, or decoration would be recorded. Surveys should not be conducted when wind speed is >20 kilometers/hour (>12.5 miles/hour), and/or if there is precipitation or dense fog. Surveys have greater detection probability if conducted when ambient temperatures are >20º Celsius (>68º Fahrenheit), <12 km/hr winds (<7.5 miles/hr), and cloud cover is <75%. Surveys would be conducted between morning civil twilight and 10:00 a.m. and two hours before sunset until evening civil twilight

(highest detection probabilities). It is assumed that a copy of this report would be forwarded to the lead agency at the discretion of the project applicant in order to comply with conditions of approval (where applicable).

Focused BUOW surveys were conducted to determine if the BUOW was foraging on or adjacent to the site. Transects were spaced to allow 100 percent visual coverage of the ground surface. The distance between transect center lines was no more than 20 meters (±65 feet) and were reduced (as necessary) to account for differences in terrain, vegetation density, and ground surface visibility. Periodic stops along each transect (generally at 100 meter intervals) and at the end of each transect were implemented to scan the site for BUOW with binoculars. Suitable burrows were examined for sign of BUOW use such as the presence of owl pellets, prey remains, or feathers at burrow entrances. Suitable burrows (burrows that are open and wide enough for owl use), regardless if owl sign was recorded, were noted. Burrows (where present) were inspected with the aid of a mirror to better view burrow interiors. Per protocol, surveys were conducted during weather that was conducive to observing owls outside their burrows and detecting BUOW sign. Focused surveys were conducted two hours before sunset until evening civil twilight (highest detection probabilities). Weather conditions through the survey period included clear skies, scattered clouds, and partly cloudy (<50% cover), 1-8 mph variable breezes, and air temperatures ranging between 60-78 °F. Accordingly, weather conditions were conducive for above-ground BUOW activity. Daily temperatures and timing are presented in Table 2.

Table 2- Daily Weather Conditions/Surveyor (2019)

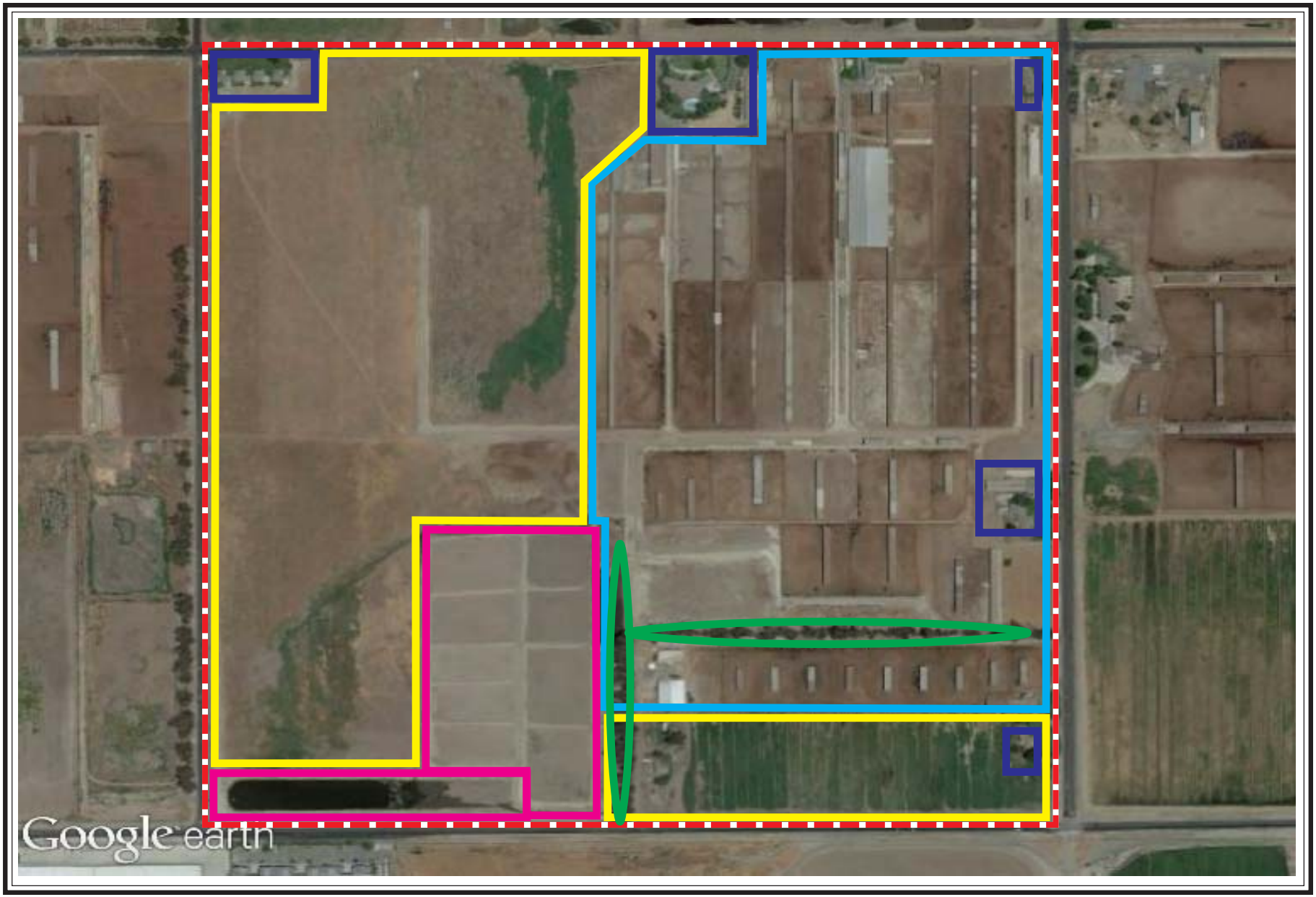
Date	*Time*	*Wind (mph)*	*Temp (°F)*	*Surveyor*
April 15	630am-945am 545pm-745pm	0-1 1-2	60-70 68-61	S. Cameron S. Cameron
May 11	630am-950am 600pm-745pm	1-3 1-2	60-71 75-67	S. Cameron S. Cameron
June 16	610am-1000am 600pm-730pm	1-7 0-2	66-70 74-67	S. Cameron
July 6	615am-1000am 600pm-800pm	1-8 1-4	67-78 80-71	S. Cameron S. Cameron

Existing Biological Environment

The subject site is characterized primarily as an active dairy operation. The site contains several single-family residences, multiple dairy-related structures (sheds, corrals, etc.), feeding preparation areas, numerous waste ponds/basins, cultivated/disced areas, manure spreading areas, and debris dumping areas. The ruderal/disturbed areas support mostly invasive, non-native annual species. Manure, associated with the ongoing dairy operation, is present throughout most of the site. Cattle feeding areas were barren ground covered in manure and mud. Surrounding land uses include agricultural areas similar to the subject site. ***Plate 3*** schematically illustrates site features. ***Plate 4*** illustrates survey and buffer areas.

Vegetation

Ruderal plants recorded on site included various non-native grasses and weedy species such as foxtail chess (*Bromus madritensis spp. rubens*), ripgut grass (*Bromus diandrus*), Bermuda grass (*Cynodon dactylon*), Mediterranean grass (*Schismus barbatus*), filaree (*Erodium* sp.), Lamb's quarter's (*Chenopodium album*), milk thistle (*Silybum marianum*), Russian thistle (*Salsola tragus*), puncture vine (*Tribulus terrestris*), black mustard (*Brassica nigra*), cheeseweed (*Malva parviflora*), nettle (*Urtica* sp.), tree tobacco (*Nicotiana glauca*), and gum (*Eucalyptus* sp.).



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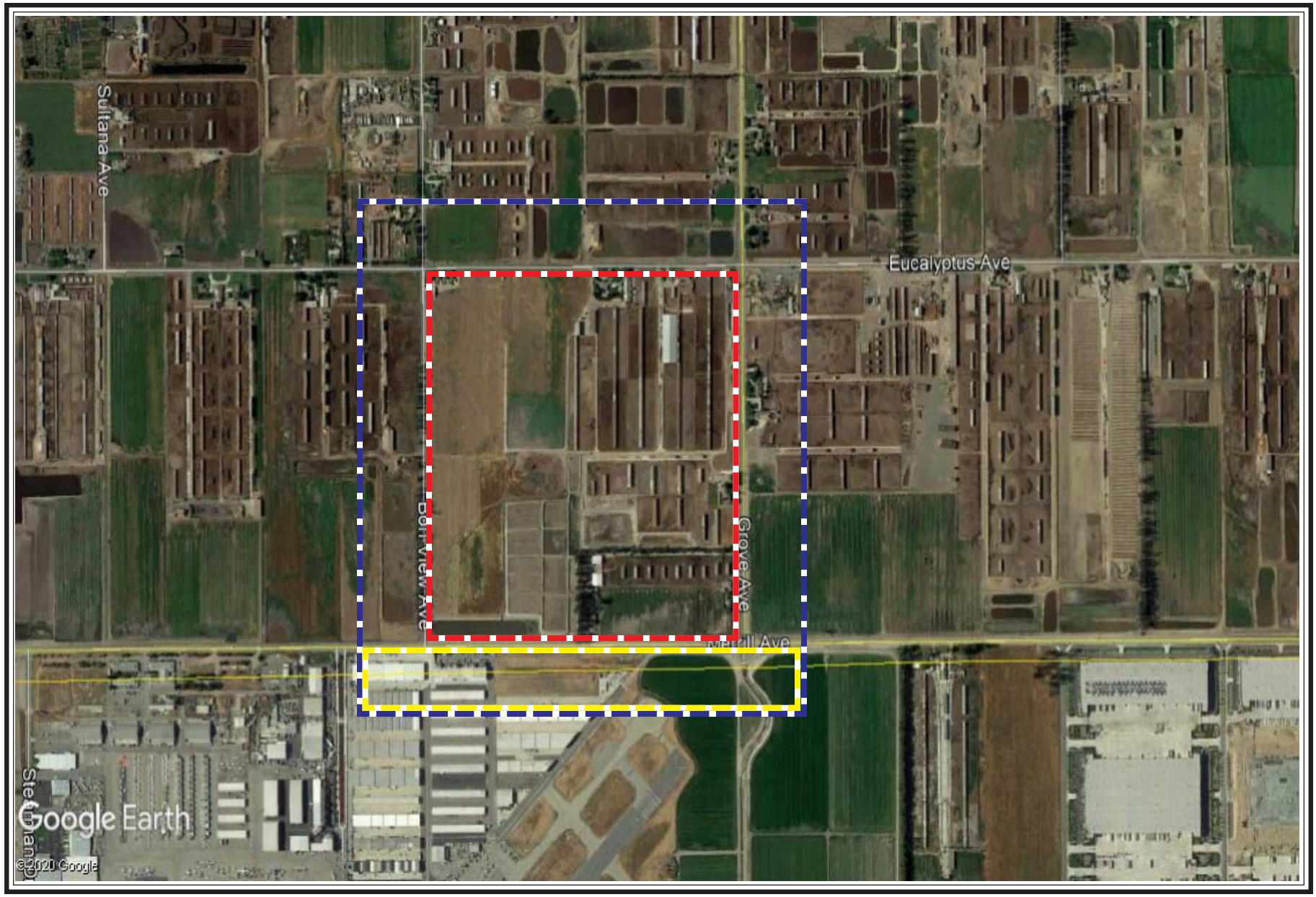
= Study Area
= Rural Residential
= Disced Rruderal Field
= Detention/Retention Basins
= Corrals/Feed Areas
= Windrow

plate **3**

Site Features Schematic

South Ontario Logistics Center Site



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= Project Area

= ~500-foot Buffer Area (pedestrian and visual)

= Visual Survey Only

plate **4**

Project and Buffer Areas

South Ontario Logistics Center Site

Survey Results

No direct BUOW observations were recorded during the April-July 2019 focused BUOW breeding season surveys. None of the potential burrows inspected during the survey were determined to be currently occupied by BUOW based on absence of BUOW observations and sign (feathers, pellets, fecal material, prey remains, etc.) at or near burrow entrances/aprons. BUOW were also not observed utilizing the site or adjacent areas for foraging purposes (adjacent areas to south viewed by binocular only-Chino Airport). The project site and adjacent buffer areas support potentially suitable BUOW habitat outside those areas exposed to recurring and extensive disturbances associated with routine dairy operations.

Avian species observed on site included turkey vulture (*Cathartes aura*), red-tailed hawk (*Buteo jamaicensis*), common raven (*Corvus corax*), American crow (*Corvus brachyrhynchos*), killdeer (*Charadrius vociferus*), European starling (*Sturnus vulgaris*), rock pigeon (*Columba livia*), mourning dove (*Zenaida macroura*), northern mockingbird (*Mimus polyglottos*), Brewer's blackbird (*Euphagus cyanocephalus*), western meadowlark (*Sturnella neglecta*), house finch (*Carpodacus mexicanus*), and house sparrow (*Passer domesticus*). Mammal species directly observed, or of which sign was detected, included California ground squirrel (*Spermophilus beecheyi*), desert cottontail (*Sylvilagus auduboni*), and pocket gopher (*Thomomys bottae*).

Despite that fact that the site has been exposed to long-standing disturbances, BUOW often occur in less than optimal and/or disturbed conditions. If it were later determined that active nests of BUOW would be lost as a result of site-preparation, it could result in CEQA significant adverse impacts and would be in conflict with CDFW code sections. Although no BUOW were recorded on or adjacent to the site, it is recommended by CDFW to complete an initial take avoidance survey no less than 14 days prior to initiating ground disturbance activities. Implementation of avoidance and minimization measures would be triggered by positive owl presence on the site where project activities would occur. The development of avoidance and minimization approaches would be evaluated by monitoring burrowing owls (if present on site). BUOW may re-colonize a site after only a few days. Time lapses between project activities trigger subsequent take avoidance surveys including but not limited to a final survey conducted within 24 hours prior to ground disturbance (CDFW 2012).

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological survey, and that the facts, statements, and information presented herein are true and correct to the best of my knowledge and belief.

Sincerely,

Ecological Sciences, Inc.

Scott D. Cameron
Principal Biologist

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APPENDIX D
CULTURAL REPORTS

APPENDIX D1

CULTURAL AND PALEONTOLOGICAL RESOURCES ASSESSMENT

December 2020

MATERIAL CULTURE
CONSULTING

Submitted to:

Norah Jaffan
E|P|D Solutions, Inc.
Irvine, California

Prepared on Behalf of:

Euclid Land Ventures, LLC
Newport Beach, CA

CULTURAL AND PALEONTOLOGICAL RESOURCES ASSESSMENT

South Ontario Logistics Center Project

City of Ontario, San Bernardino County, California

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MATERIAL CULTURE
CONSULTING

PHASE 1 CULTURAL AND PALEONTOLOGICAL RESOURCES ASSESSMENT: SOUTH ONTARIO LOGISTICS CENTER PROJECT CITY OF ONTARIO, SAN BERNARDINO COUNTY, CALIFORNIA

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Julia Carvajal, M.A. Archaeologist

Historic Resource Survey and Evaluation prepared by:
Pamela Daly, M.S.H.P., Daly & Associates

March 2020

MCC Project Number: 20180908
Type of Study: Cultural and Paleontological resources assessment
Cultural/ Paleontological Resources within Area of Potential Impact: George Borba & Son Dairy
Paleontological Formations: younger Quaternary alluvium, older Quaternary alluvium
USGS 7.5-minute Quadrangle(s): Section 20 of Township 2 S, Range 7 W, Prado Dam
Survey Area: 206.8 acres
APN(s): 1054-081-03, 1054-091-01, 02; 1054-071-01, -02, and 1054-241-01, -02, 1054-101-01, -02, 1054-231-01, -02,1054-311-01, -02, 1054-051-010,1054-061-01, 1054-251-01, 1054-30-101, 1054-051-02, 1054-061-02, 1054-251-02, 1054-301-02
Date of Fieldwork: September 21, 2018
Key Words: Archaeology, Paleontology, CEQA, Phase I Survey, Positive Report, Younger Quaternary Alluvium, Older Quaternary Alluvium, Low Paleontological Sensitivity, Moderate Paleontological Sensitivity, San Bernardino County, City of Ontario, Historic Dairy, New Model Colony

MANAGEMENT SUMMARY

Euclid Land Ventures, LLC (Proponent) proposes the development of new warehouse facilities, as supporting preparation of the Specific Plan and Project (hereto after referred to as Project or Project Area). The Specific Plan is located on 222.18 acres of land with proposed development on only 130.34 acres at the southwest corner of Eucalyptus Avenue and South Grove Avenue, and 80 acres for programmatic analysis located across the south west corner of Eucalyptus Avenue and Bon View Avenue and the northeast corner of Merrill Ave. and S. Grove Ave., in the City of Ontario, San Bernardino County. Material Culture Consulting, Inc. (MCC) was initially retained by EPD Solutions, Inc. (EPD) to conduct a Phase I cultural and paleontological resource investigation of 142 acres of the Specific Plan Area in July 2018. These assessments were conducted in accordance with the California Environmental Quality Act (CEQA), along with local regulations and guidelines. This assessment included a cultural records search of the California Historical Resources Information System (CHRIS), a locality search at the National History Museum of Los Angeles County (LACM), an examination of geological maps and paleontological literature, a search of the Sacred Lands File by the Native American Heritage Commission (NAHC), outreach efforts with Native American tribal representatives, and a pedestrian survey. In January 2020, MCC was retained by the EPD to conduct a supplemental assessment of an expanded Project Area encompassing an additional 80 acres. This assessment included an additional CHRIS records search and notification of the expanded area to Native American tribal representatives identified by the NAHC. A survey was not conducted for the 80-acre expansion as it was only being programmatically analyzed. Should the 80 acres be developed in the future, a formal survey will need to be conducted.

The SLF search did not identify any previously known cultural resources within the entire Specific Plan Area. On October 24 and November 12, 2018, MCC sent informational letters and maps to Native American representatives designated by the NAHC and local Native American representatives known by MCC to have an interest in the area. Nine Native American Tribes and/or individuals were identified by the NAHC as contacts for knowledge of cultural resources in the Project Area. In addition, 13 individuals not identified by the NAHC, but known to MCC to have interest in the area were contacted. Additional attempts at contact by letter, email, or phone call were made on November 12, and November 27, 2018. MCC did not conduct formal consultation with the Native American representatives. As a result of this outreach effort, MCC received six responses from Native American Tribes or individuals. No specific cultural resources were identified in the responses; however, three Native American Tribes stated an interest in the Project and provided comments. On January 30, 2020, MCC sent informational letters and maps of the expanded Project Area to the nine Native American Tribes and/or individuals identified by the NAHC as contacts to have knowledge of cultural resources in the Project Area. MCC did not conduct formal consultation with the Native American representatives. As a result of this additional outreach effort, MCC received one response from Morongo Band of Mission Indians regarding the extended Project Area. No specific cultural resources were identified in the response. MCC did not conduct formal consultation with the Native American representatives. These results are summarized in the Native American outreach and Background Research section of this report and in Appendix C.

The CHRIS records searches in 2018 and 2020 identified nineteen cultural resources investigations previously conducted within a 1-mile radius buffer around the entire Specific Plan Area, none of which are located within or adjacent to the Specific Plan Area. The cultural records search identified nine previously recorded cultural resources within a 1-mile radius of the Specific Plan Area. A review of historical aerial photographs and maps show the entire Specific Plan Area has been consistently used for agricultural and dairy activities since the 1930s. These historic aerials and maps depict structures located in the northwestern corner of the initial Project Area and at least one structure near the northeastern corner of the Project Area since the early 1930s.

The Specific Plan Area is comprised of younger Quaternary Alluvium, derived broadly from the San Bernardino Mountains to the north. These deposits typically do not contain significant vertebrate fossils within the uppermost layers, however, it is likely that the Specific Plan Area is underlain by older Quaternary deposits at an unknown depth. No previously recorded fossil localities are located within one mile of the Project Area.

Judy Cardoza, MCC Archaeologist and Cross-Trained Paleontologist, conducted the cultural and paleontological survey of the Specific Plan Area on September 21, 2018. During fieldwork, survey conditions were generally poor with majority of the Specific Plan Area (130.34 acres) utilized by ongoing agricultural activities and dairy cattle pasture / enclosures. The property has been previously disturbed by agricultural and dairy operations conducted by the current owners. A total of seven historic structures were identified during the survey, comprising the George Borba & Sons Dairy. The recordation and assessment of this property was conducted by Pamela Daly, MSHP, and found to be ineligible for the California Register of Historical Resources and the National Register of Historical Resources. No paleontological resources were observed during the survey. An additional survey for the supplemental assessment was deemed not necessary due to the area only being programmatically analyzed.

Based on the above findings, the probability of encountering significant cultural or paleontological resources within the Specific Plan Area is considered low. MCC recommends no further mitigation measures prior to implementation of projects within the Specific Plan. While we do not recommend additional mitigation, we do recommend including a section in the Specific Plan which addresses inadvertent discoveries of cultural materials and/or human remains, should these be encountered during any projects within the Specific Plan Area.

Excavation extending more than ten feet below surface has the potential to impact the paleontologically sensitive older Quaternary sediments. If excavation associated with this project extends deeper than ten feet below surface, MCC recommends that a paleontological resource mitigation program be put in place to monitor, salvage, and curate any recovered fossils associated with the current study area, should these be unearthed during ground disturbance associated with any project within the Specific Plan Area.

A copy of this report will be permanently filed with the SCCIC at California State University, Fullerton. All notes, photographs, correspondence and other materials related to this Project are located at MCC, Inc located in Pomona, California.

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APPENDIX E: DPR Forms for George Borba & Sons Dairy

INTRODUCTION

Euclid Land Ventures, LLC (Proponent) proposes the development of new warehouse facilities, as supporting preparation of the Specific Plan and Project (hereto after referred to as Project or Project Area). The Specific Plan is located on 222.18 acres of land, with proposed development on only 130.34 acres at the southwest corner of Eucalyptus Avenue and South Grove Avenue, and 80 acres for programmatic analysis located across the south west corner of Eucalyptus Avenue and Bon View Avenue and the northeast corner of Merrill Ave. and S. Grove Ave., in the City of Ontario, San Bernardino County. Material Culture Consulting, Inc. (MCC) was initially retained by EPD Solutions, Inc. (EPD) to conduct a Phase I cultural and paleontological resource investigation of the 142 acre Specific Plan Area in July 2018. These assessments were conducted in accordance with the California Environmental Quality Act (CEQA), along with local regulations and guidelines. This assessment included a cultural records search of the California Historical Resources Information System (CHRIS), a locality search at the National History Museum of Los Angeles County (LACM), an examination of geological maps and paleontological literature, a search of the Sacred Lands File by the Native American Heritage Commission (NAHC), outreach efforts with Native American tribal representatives, and a pedestrian survey. In January 2020, MCC was retained by the EPD to conduct a supplemental assessment of an expanded Project Area encompassing an additional 80 acres. This assessment included an additional CHRIS records search and notification of the expanded area to Native American tribal representatives identified by the NAHC. A survey was not conducted for the 80-acre expansion as it was only being programmatically analyzed. Should the 80 acres be developed in the future, a formal survey will need to be conducted.

PROJECT LOCATION AND DESCRIPTION

The proposed Specific Plan is located at the northwest corner of Eucalyptus Avenue and South Grove Avenue and the southwest corner of Eucalyptus Avenue and Bon View Avenue, in the City of Ontario, San Bernardino County, California (Figures 1 and 2). The Specific Plan Area is bounded by Eucalyptus Avenue to the north, dairy farms to the west, by Merrill Avenue to the south, and South Grove Avenue to the east, and intersected by Bon View Avenue (Figure 3). Specifically, this Specific Plan Area is located on Section 20 of the USGS 7.5-minute Prado Dam, California topographic map, Township 2 South, Range 7 West (Figure 2). The Specific Plan Area consists of twenty-one parcels, identified as Assessor's Parcel Numbers (APNs) 1054-081-03, 1054-091-01, 02; 1054-071-01, -02, and 1054-241-01, -02, 1054-101-01, -02, 1054-231-01, -02,1054-311-01, -02, 1054-051-010,1054-061-01, 1054-251-01, 1054-30-101, 1054-051-02, 1054-061-02, 1054-251-02, 1054-301-02. Presently, the Specific Plan Area contains an operational dairy farm and single-family residences. The Project proposes the construction of eight buildings consisting of warehouses and office locations. Currently, no major utilities connect to undeveloped projects within the Specific Plan Area and projected onsite improvements will include storm drains, water quality systems, a sewer main and sewer lines, water lines, and dry utility connections

PROJECT PERSONNEL

Tria Belcourt, M.A., RPA, President of MCC, served as the Project Manager and Principal Archaeologist for the study. Ms. Belcourt oversaw the project and performed editorial review of this report. Belcourt is a Registered Professional Archaeologist (RPA) with a M.A. in Anthropology from the University of Florida, a B.A. in Anthropology from the University of California at Los Angeles with over twelve years of experience in California archaeology and 8 years of experience overseeing paleontological assessments in California (See Appendix A). Jennifer Kelly, M.S., served as the Principal Investigator for Paleontology for the study. Ms. Kelly conducted the paleontological resource literature and map reviews, oversaw the field study, and prepared the paleontological sections of the report. Ms. Kelly has a M.Sc. in Geology from California State University, Long Beach, and has over ten years of experience in environmental and paleontological compliance in California (See Appendix A). Pamela Daly, MSHP, conducted the historical resource survey and evaluation. Ms. Daly has over 30 years of experience as an architectural historian and is especially familiar with the requirements of the City of Ontario. Judy Cardoza, MCC

Archaeologist and Cross-trained Paleontologist, conducted the records search and field survey. Julia Carvajal, B.S., provided co-authorship of this report and GIS support for this study. Sonia Sifuentes, M.Sc, RPA, provided co-authorship of this report.

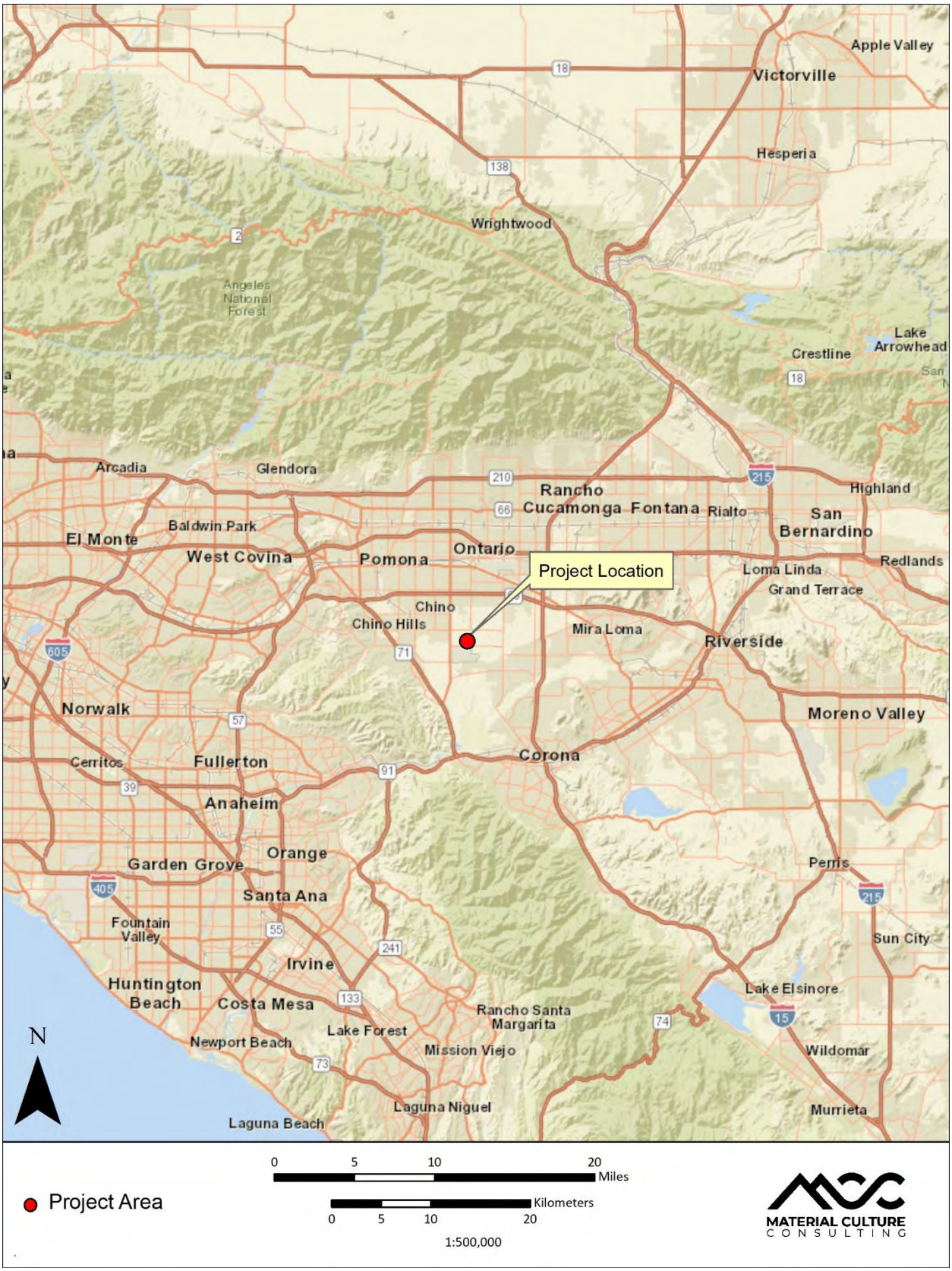

Figure 1. South Ontario Logistics Center Project Location (1:500,000)

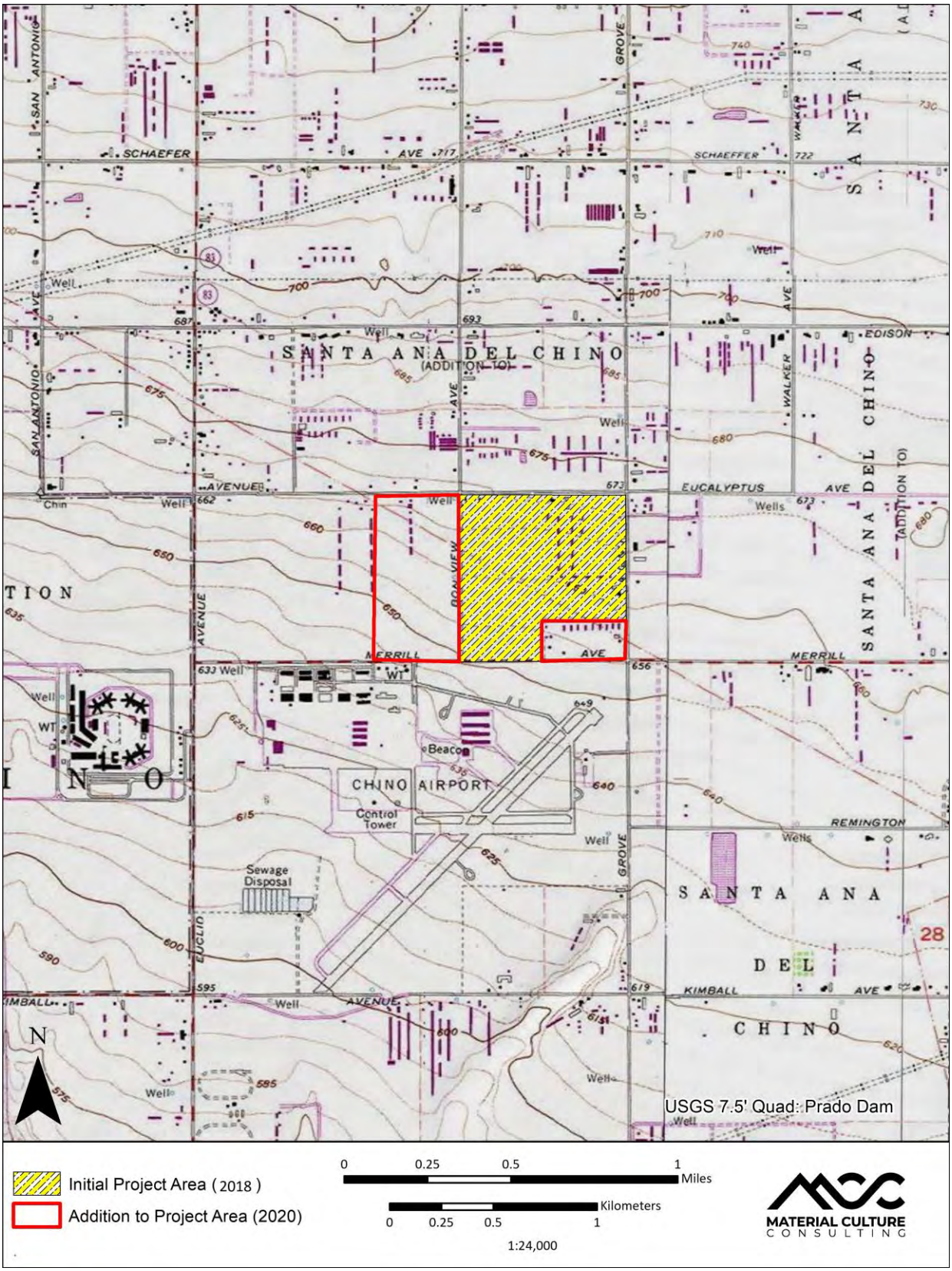

Figure 2. South Ontario Logistics Center Project Area (1:24,000, as depicted on Prado Dam USGS 7.5-Minute Quadrangle)

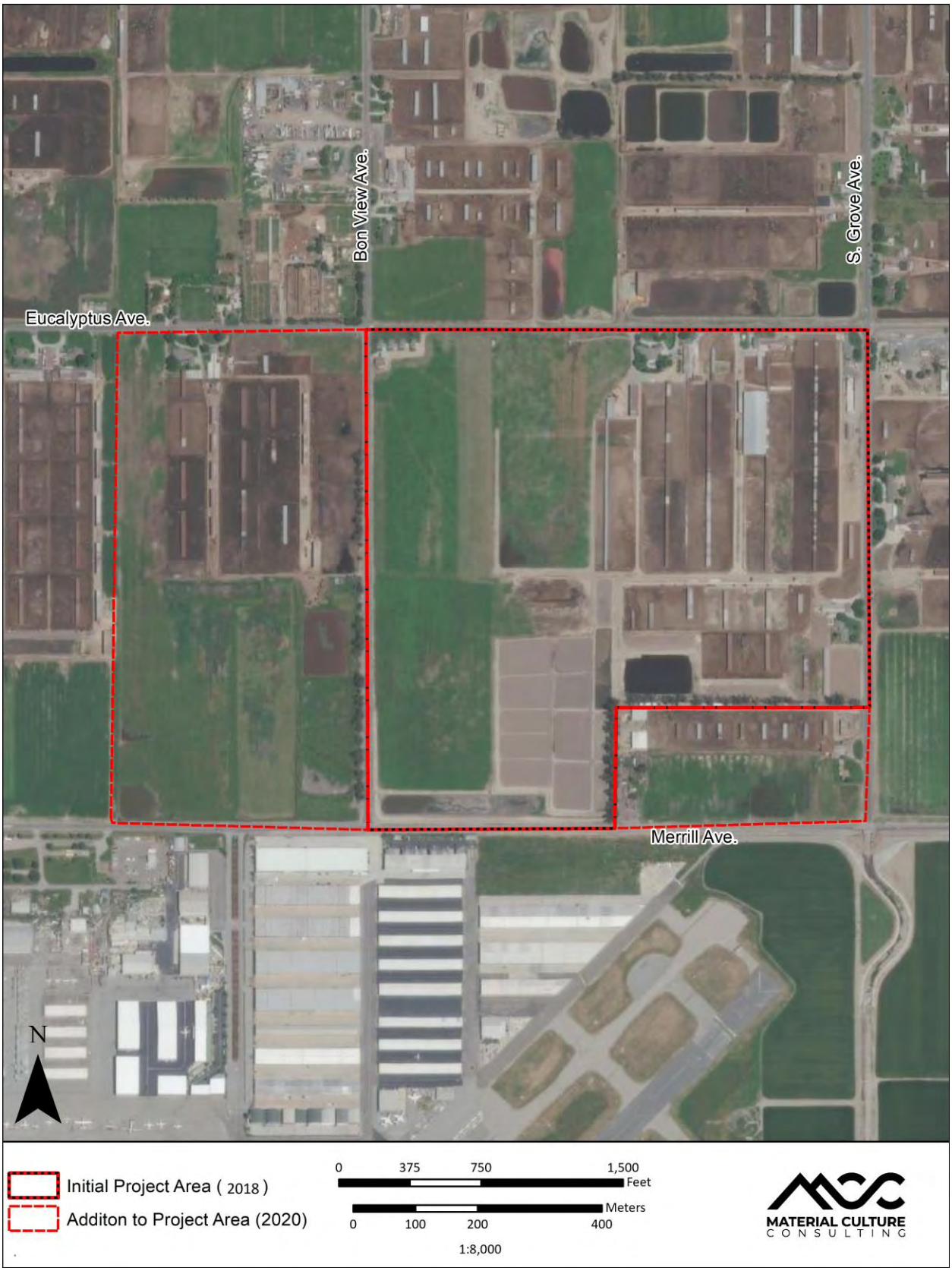

Figure 3. South Ontario Logistics Center Project Area (1:8,000, as depicted on aerial photograph)

REGULATORY ENVIRONMENT

The current study is subject to local and state laws and regulations regarding cultural and paleontological resources. These regulations require the identification of cultural and paleontological resources within the Specific Plan Area which should be considered during the planning stage of new Projects; include application review for Projects that would potentially involve land disturbance; provide Project-level standard conditions of approval that address unanticipated discoveries; and provide requirements to develop specific mitigation measures if resources are encountered during any development activity. Specific governing legislation and regulations include the following:

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

CEQA declares that it is state policy to "take all action necessary to provide the people of this state with...historic environmental qualities." It further states that public or private Projects financed or approved by the state are subject to environmental review by the state. All such Projects, unless entitled to an exemption, may proceed only after this requirement has been satisfied. CEQA requires detailed studies that analyze the environmental impacts of a proposed Project. In the event that a Project is determined to have a potential significant environmental impact, CEQA requires that alternative plans and mitigation measures be considered. CEQA includes historic and archaeological resources as integral features of the environment.

CEQA requires a designated lead agency to determine whether a Project may have a significant impact on historical resources. A historical resource is defined as a resource listed in, or determined to be eligible for listing in, the California Register of Historical Resources (CRHR) (Section 21084.1); a resource included in a local register of historical resources (Section 15064.5(a)(2)); or any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant (Section 15064.5 (a)(3)). Public Resources Code (PRC) Section 5024.1, Section 15064.5 of the Guidelines, and Sections 21083.2 and 21084.1 of the Statutes of CEQA were used as one of the basic guidelines for the current cultural resources study. PRC Section 5024.1 directs evaluation of historical resources to determine their eligibility for listing on the CRHR.

The purpose of the register is to maintain listings of the state's historical resources. The criteria for listing resources on the CRHR were expressly developed to be in accordance with previously established criteria developed for listing on the NRHP, enumerated above, and require similar protection to what NHPA Section 106 mandates for historic properties. According to Public Resources Code (PRC) Section 5024.1(c)(1-4), a resource is considered historically significant if it meets at least one of the following criteria:

1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States;
2. Associated with the lives of persons important to local, California or national history;
3. Embodies the distinctive characteristics of a type, period, region or method of construction or represents the work of a master or possesses high artistic values; or
4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California or the nation.

In addition to having significance, resources must retain integrity. Integrity is the authenticity of a historical resource’s physical identity as evidenced by the survival of characteristics or historic fabric that existed during the resource’s period of significance. Alterations to a resource or changes in its use over time may have historical, cultural, or architectural significance. Simply, resources must retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. A resource that has lost its historic character or appearance may still have sufficient integrity for the California Register, if,

under Criterion 4, it maintains the potential to yield significant scientific or historical information or specific data. Note that California Historical Landmarks with numbers 770 or higher are automatically included in the CRHR.

Under CEQA, if an archeological site is not a significant "historical resource" but meets the definition of a "unique archeological resource" as defined in PRC Section 21083.2, then it should be treated in accordance with the provisions of that section. A unique archaeological resource is defined in PRC Section 21083.2(g) as follows:

An archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Resources that neither meet any of these criteria for listing on the NRHP or CRHR nor qualify as a "unique archaeological resource" under CEQA PRC Section 21083.2 are viewed as not significant. Under CEQA, "A non-unique archaeological resource need be given no further consideration, other than the simple recording of its existence by the lead agency if it so elects" [PRC Section 21083.2(h)].

Impacts to historical resources that alter the characteristics that qualify the historical resource for listing on the CRHR are considered to be a significant impact. Impacts to a historical resource are considered significant if the Project activities physically destroy or damage all or part of a resource; change the character of the use of the resource or physical feature within the setting of the resource which contribute to its significance; or introduce visual, atmospheric, or audible elements that diminish the integrity of significant features of the resource. If it can be demonstrated that a Project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (Section 21083.2 (a), (b), and (c)).

CALIFORNIA HISTORICAL LANDMARKS AND POINTS OF HISTORICAL INTEREST

Historical landmarks are sites, buildings, features, or events that are of statewide significance and have anthropological, cultural, military, political, architectural, economic, scientific or technical, religious, experimental, or other value. In order to be considered a California Historical Landmark, the landmark must meet at least one of the following criteria:

1) Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States;
2) Associated with the lives of persons important to local, California, or national history;
3) Embodies the distinctive characteristics of a type, period, region, or method of construction; represents the work of a master; or possesses high artistic values;
4) Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

If a site is primarily of local or countywide interest, it may meet the criteria for the California Point of Historical Interest Program. Points of Historical Interest are sites, buildings, features, or events that are of local (city or county) significance and have anthropological, cultural, military, political, architectural, economic, scientific or technical, religious, experimental, or other value. To be eligible for designation as a Point of Historical Interest, a

resource must meet at least one of the following criteria:

1. The first, last, only, or most significant of its type in the local geographic region (city or county);
2. Associated with an individual or group having a profound influence on the history of the local area;
3. A prototype of, or an outstanding example of, a period, style, architectural movement or construction; or
4. One of the more notable works or the best surviving work in the local region of a pioneer architect, designer, or master builder.

Points of Historical Interest designated after December 1997 and recommended by the State Historical Resources Commission are also listed in the California Register. No historical resource may be designated as both a Landmark and a Point of Interest. If a Point of Interest is subsequently granted status as a Landmark, the Point of Interest designation will be retired.

PALEONTOLOGY

As defined by Society for Vertebrate Paleontology (SVP), paleontological resources means any fossilized remains, traces, or imprints of prehistoric plants and/or animals which are preserved in or on the earth's crust that can provide information about the history of past life on the planet (2009). Generally, any resource greater than 5,000 years old is considered to be a fossil and are considered a nonrenewable resource that are subject to impacts from land development (SVP, 2010). Paleontological resources are important scientific and educational resources because they are used to:

1) Document the evolutionary history of now extinct organisms to study any associated evolution patterns and/or speciation;
2) Reconstruct the environments, climate change, and/or paleoecological relationships these organism lived in; and
3) Determine the relative geologic age of the strata in which the resources occur and any geological events that resulted in the deposition of the sediments that formed the strata.

Fossil resources vary widely in their relative abundance and distribution and not all are regarded as significant. Vertebrate fossils, whether preserved remains or track ways, are classed as significant by most state and federal agencies and professional groups (and are specifically protected under the California Public Resources Code). In some cases, fossils of plants or invertebrate animals are also considered significant and can provide important information about ancient local environments. Assessment of significance is also subject to the California Environmental Quality Act (CEQA) criterion that the resource constitutes a "unique paleontological resource or site." A significant paleontological resource is considered to be of scientific interest if it is a rare or previously unknown species, it is of high quality and well-preserved, it preserves a previously unknown anatomical or other characteristic, provides new information about the history of life on earth, or has an identified educational or recreational value. Paleontological resources that may be considered not to have scientific significance include those that lack provenience or context, lack physical integrity due to decay or natural erosion, or that are overly redundant or are otherwise not useful for research. Vertebrate fossil remains and traces include bone, scales, scutes, skin impressions, burrows, tracks, tail drag marks, vertebrate coprolites (feces), gastroliths (stomach stones), or other physical evidence of past vertebrate life or activities (BLM 2016). The full significance of fossil specimens or fossil assemblages cannot be accurately predicted before they are collected, and in many cases, before they are prepared in the laboratory and compared with previously collected material.

Pre-construction assessment of significance associated with an area or formation must be made based on previous finds, characteristics of the sediments, and other methods that can be used to determine paleoenvironmental conditions. A separate issue is the potential of a given geographic area or geologic unit to preserve fossils. Information that can contribute to assessment of this potential includes:

1) The existence of known fossil localities or documented absence of fossils nearby and in the same geologic unit (e.g. "Formation" or one of its subunits);
2) Observation of fossils within the Project vicinity;
3) The nature of sedimentary deposits in the area of interest, compared with those of similar deposits known elsewhere (size of particles, clasts and sedimentary structures conducive or non-conducive to fossil inclusion) that may favor or disfavor inclusion of fossils; and
4) Sedimentology details, and known geologic history, of the sedimentary unit of interest in terms of the environments in which the sediments were deposited, and assessment of the favorability of those environments for the probable preservation of fossils.

As so defined, significant paleontological resources are determined to be fossils or assemblages of fossils that are unique, unusual, rare, uncommon, or diagnostically important. Significant fossils can include remains of large to very small aquatic and terrestrial vertebrates or remains of plants and animals previously not represented in certain portions of the stratigraphy. Assemblages of fossils that might aid stratigraphic correlation, particularly those offering data for the interpretation of tectonic events, geomorphologic evolution, and paleoclimatology are also critically important (Scott and Springer 2003; Scott et al. 2004).

SAN BERNARDINO COUNTY DEVELOPMENT CODE

The San Bernardino County Development Code shall be implemented regarding the mitigation of paleontological resources. The County of San Bernardino's Development Code (§82.12.010-050 regarding Cultural Resources and §82.20.010- 040 regarding Paleontological Resources) requires evaluation of potential cultural and paleontological resources as part of its CEQA review of proposed projects. It also defines the requirements for a qualified technical specialist in both disciplines. The County additionally requires a project proposed within the Cultural and Paleontological Resources Overlay to include a report prepared by a qualified professional that determines, through appropriate investigation, the presence or absence of cultural or paleontological resources on the project site and within the project area. The report must also recommend appropriate recovery or protection measures. The Overlay may be applied to areas (determined by records searches at appropriate institutions) where cultural or paleontological resources are known to have been produced or are likely to be present.

CITY OF ONTARIO GENERAL PLAN

The City of Ontario General Plan Community Design Element contains several policies (CD4-1 through CD4-7) were developed to meet the City's goals regarding management of cultural and paleontological resources. CD4-1 applies to the current study as an effort to update the known information on the project area, as it has not been surveyed or examined in the past ten years:

> CD4-1 Cultural Resource Management. Update and maintain an inventory of historic sites and buildings, professional collections, artifacts, manuscripts, photographs, documents, maps, and other archives.
>
> CD4-2 Collaboration with Property Owners and Developers. Educate and collaborate with property owners and developers to implement strategies and best practices that preserve the character of our historic buildings, streetscapes, and neighborhoods.
>
> CD4-3 Collaboration with Outside Agencies. Pursue opportunities to team with other agencies, local organizations, and nonprofits in order to preserve and promote Ontario's heritage.
>
> CD4-4 Incentives. Use the Mills Act and other federal, state, regional, and local programs to assist property owners with the preservation of select properties and structures.

CD4-5 Adaptive Reuse. Actively promote and support the adaptive reuse of historic sites and buildings to preserve and maintain their viability.

CD4-6 Promotion of Public Involvement in Preservation. Engage in programs to publicize and promote the City's and the public's involvement in preservation efforts.

CD4-7 Public Outreach. Provide opportunities for our residents to research and learn about the history of Ontario through the Planning Department, Museum of History and Art, Ontario, and the Robert E. Ellingwood Model Colony History Room.

In 2003, the City of Ontario was designated by the State of California Office of Historic Preservation as a Certified Local Government (CLG). This program was created to encourage the preservation of historic resources through the city's municipal code, Article 26 Historic Preservation Ordinance. The ordinance is designed for those property owners who wish to have their property designated as a Historic Landmark or a Contributor to a Historic District. Any historical resource may be designated a Historical Landmark by the City Council if:

1. It meets the criteria for listing in the National Register Historic Places; or
2. It meets the criteria for listing in the California Register of Historic Resources; or
3. It meets one or more of the following criteria:
    A. It exemplifies or reflects special elements of the City's history;
    B. It is identified with persons or events significant in local, state, or national history;
    C. It is representative of the work of a notable builder, designer, architect, or artist;
    D. It embodies distinguishing architectural characteristics of a style, type, period or method of construction;
    E. It is noteworthy example of the use of indigenous materials or craftsmanship;
    F. It embodies elements that represent a significant structural, engineering, or architectural achievement or innovation;
    G. It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community of the City; or
    H. It is one of the few remaining examples in the City, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

BACKGROUND

ENVIRONMENTAL SETTING

The Project Area is located 5.2 miles south of the downtown area of the City of Ontario, bounded by Eucalyptus Avenue to the north, by dairy farm to the west, by Merrill Avenue to the south, South Grove Avenue to the east, and bisected by Bon View Avenue. North of the Project is a mixture of dairy/agricultural and service commercial properties, and Chino Airport located to the south. The city of Ontario is located in southwest San Bernardino County in southern California and lies within the northern extent of the Santa Ana Valley, a sub-portion of the larger San Bernardino Valley. The subject site is located within the Chino Basin. The Prado Basin is situated within the upper Santa Ana Valley of the Peninsular Ranges Geomorphic Province (Norris and Webb 1976). The city of Ontario lies within the broad alluvial fan originating from the southern flank of the San Gabriel Mountains, and dips gradually southward to the confluence of San Antonio Channel, Cucamonga Channel/Mill Creek, and the Santa Ana River at the Prado Dam Flood Control Basin in Riverside County. The Santa Ana River flows to the south of the City and Cucamonga Creek and Deer Creek traverse north to south through the City. The Project Area is flat with elevation averaging approximately 202 meters (m) (662 ft) above mean sea level (AMSL). The entire project area has been disturbed by the development of Dairy Farms, currently located within the Project's boundary. Currently, vegetation within the Project Area is characterized as primarily agricultural and commercial landscaping with no native vegetation observed.

PALEONTOLOGICAL SETTING

The Project Area is situated in the San Bernardino Basin, adjacent to the Transverse Ranges Geomorphic Province. This province is comprised of a series of mountain ranges that run transverse to most mountain ranges in southern California – roughly east/west trending. The mountains within the province, including the San Gabriel and San Bernardino mountains to the north and northeast, were uplifted by tectonic activity, and provide a major sedimentary source for the alluvium basins of the adjacent areas (Critelli et al. 1995). The geologic units underlying this project are mapped entirely as younger Quaternary alluvium (Qyfa) dating from the late Holocene to Pleistocene (Jennings et al. 1977) (Figure 4). These deposits derived broadly as alluvial fan deposits from the San Bernardino Mountains to the north (McLeod 2018).

Young Quaternary alluvium (Qyfa) are Holocene to late Pleistocene-aged alluvial fan deposit that typically consists of river and stream derived sediments. The sediments are comprised of slightly consolidated gray-hued arkosic, sandy and gravel -sand deposits derived from local Peninsular Ranges batholith granitic bodies (Morton 2003).

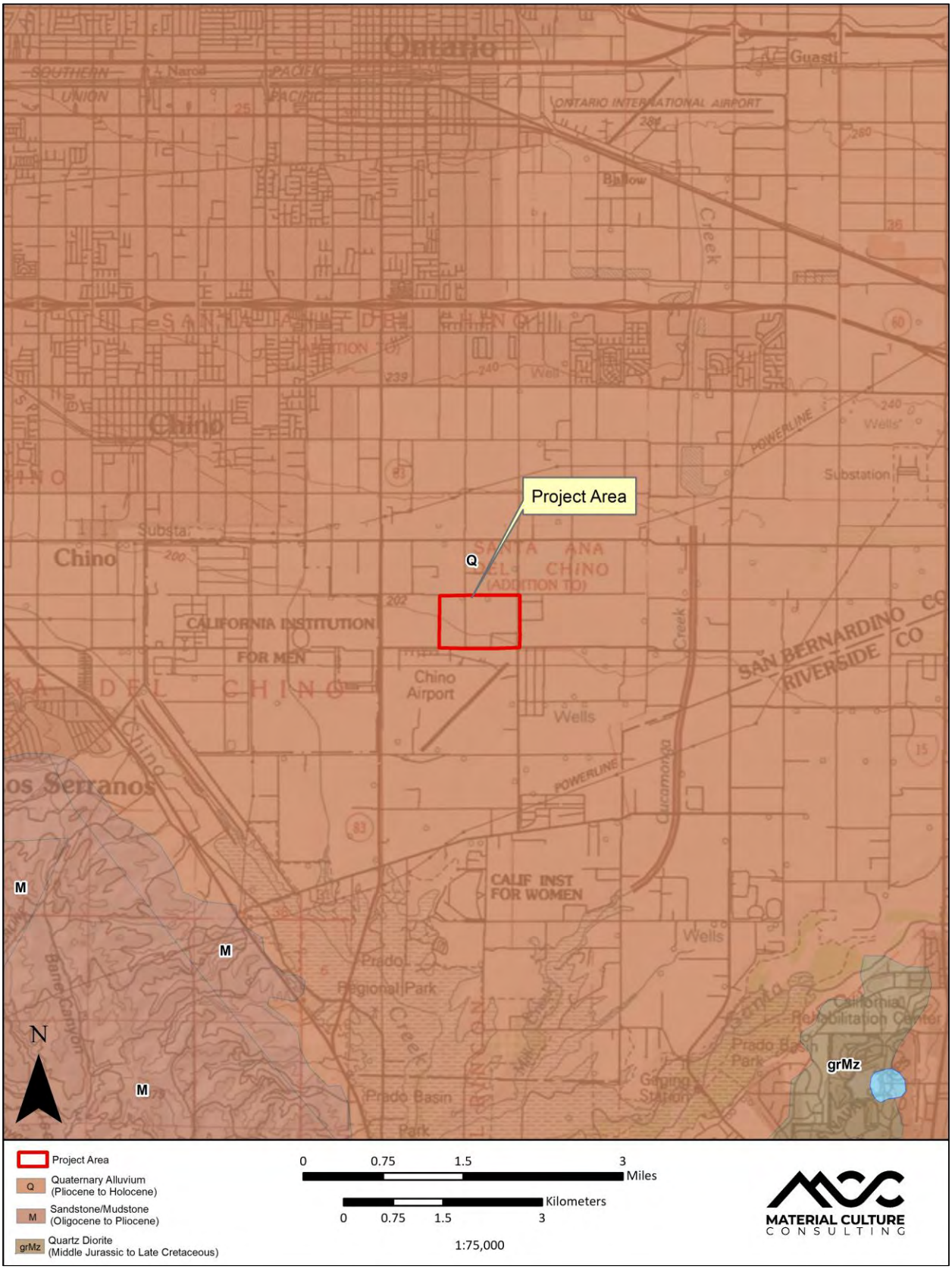

Figure 4. Geological Map of Project Area (1:75,000; complied by USGS in open source PDF format)

PREHISTORIC CONTEXT

Most researchers agree that the earliest occupation for the Ontario area dates to the early Holocene (11,000 to 8,000 years ago). The following discussion of the cultural history of San Bernardino County references the San Dieguito Complex, the Milling Stone Horizon, the Encinitas Tradition, the La Jolla Complex, the Pauma Complex, and the San Luis Rey Complex, since these culture sequences have been used to describe archaeological manifestations in the region. The Late Prehistoric component in the area of San Bernardino County was represented by the Cahuilla, Gabrielino, and Luiseño Indians. Absolute chronological information, where possible, will be incorporated into this discussion to examine the effectiveness of continuing to use these terms interchangeably.

The Paleo Indian Period

The Paleo Indian Period is associated with the terminus of the late Pleistocene (12,000 to 10,000 YBP). The environment during the late Pleistocene was cool and moist, which allowed for glaciation in the mountains and the formation of deep, pluvial lakes in the deserts and basin lands (Moratto 1984). However, by the terminus of the late Pleistocene, the climate became warmer, which caused glaciers to melt, sea levels to rise, greater coastal erosion, large lakes to recede and evaporate, extinction of Pleistocene megafauna, and major vegetation changes (Moratto 1984; Martin 1967, 1973; Fagan 1991). Paleo Indians were likely attracted to multiple habitat types, including mountains, marshlands, estuaries, and lakeshores. These people likely subsisted using a more generalized hunting, gathering, and collecting adaptation, utilizing a variety of resources including birds, mollusks, and both large and small mammals (Erlandson and Colten 1991; Moratto 1984; Moss and Erlandson 1995). The earliest sites known in the area are attributed to the San Dieguito culture, which consists of a hunting culture with flaked stone tool industry (Warren 1967). The material culture related to this time included scrapers, hammer stones, large flaked cores, drills, and choppers, which were used to process food and raw material.

Milling Stone Period

Around 8,000 years ago, subsistence patterns changed, resulting in a material complex consisting of an abundance of milling stones (for grinding food items) with a decrease in the number of chipped stone tools. The material culture from this time period includes large, bifacially worked dart points and grinding stones, handstones and metates. Archaeologists initially designated this period as the “Millingstone Horizon” (Wallace 1955). Later, the Millingstone Horizon was redefined as a cultural tradition named the Encinitas Tradition (Warren 1967) with various regional expressions including Topanga and La Jolla. Use by archaeologists varied as some adopted a generalized Encinitas Tradition without regional variations, while others continued to use Millingstone Horizon, and still others used Middle Holocene (the geologic time period) to indicate this observed pattern (Sutton and Gardner 2010:1-2). Recently, this generalized terminology was criticized by Sutton and Gardner (2010) as suppressing the identification of cultural, spatial, and temporal variation, as well as the movement of peoples throughout space and time. It is these factors that are believed to be critical to an understanding of prehistoric cultural adaptation and change in this portion of southern California (Sutton and Gardner 2010:1-2).

The Encinitas Tradition characteristics include abundant metates and manos, crudely-made core and flake tools, bone tools, shell ornaments, very few projectile points, indicating a subsistence pattern focused on hunting and gathering a variety of floral resources. Faunal remains vary by location but include marine mammals, fish, and shellfish, as well as terrestrial animals, reptiles, and birds (Sutton and Gardner 2010:7). The Encinitas Tradition has been redefined to have four patterns (Sutton and Gardner 2010: 8-25). These include the Topanga Pattern in coastal Los Angeles and Orange counties, the La Jolla Pattern in coastal San Diego County, and the Sayles or Pauma cultures in inland San Diego County extending into western San Bernardino County, where the project is located. At approximately 3,500 years ago, Pauma groups in the general Project vicinity adopted new cultural traits which transformed the archaeological site characteristics - including mortar and pestle technology. This indicated the development of food storage, largely acorns, which could be processed and saved for the leaner, cooler months of the year.

Late Prehistoric Period

At approximately 1,500 years before present, bow and arrow technology started to emerge in the archaeological record, which also indicates new settlement patterns and subsistence systems. The local population retained the subsistence methods of the past, but incorporated new materials into their day to day existence, as evidenced by the archaeological record. The Palomar Tradition is attributed to this time, and is comprised of larger two patterns: the Peninsular Pattern in the inland areas of the northern Peninsular Ranges (e.g., San Jacinto and Santa Rosa mountains) and the northern Coachella Valley (Sutton 2010), and the San Luis Rey pattern of the project area Archaeological sites from this time period are characterized by soapstone bowls, arrowhead projectile points, pottery vessels, rock paintings, and evidence of cremation sites. The shift in material culture assemblages is largely attributed to the emergence of Shoshonean (Takic-speaking) people who entered California from the east.

ETHNOGRAPHY

The territory of the Gabrielino at the time of Spanish contact covered much of current-day Los Angeles and Orange Counties and extended into the western part of San Bernardino County. The southern extent of this culture area is bounded by Aliso Creek, the eastern extent is located east of present-day San Bernardino along the Santa Ana River, the northern extent includes the San Fernando Valley, and the western extent includes portions of the Santa Monica Mountains. The Gabrielino also occupied several Channel Islands including Santa Barbara Island, Santa Catalina Island, San Nicholas Island, and San Clemente Island. Because of their access to certain resources, including a steatite source from Santa Catalina Island, this group was among the wealthiest and most populous aboriginal groups in all of southern California. Trade of materials and resources controlled by the Gabrielino extended as far north as the San Joaquin Valley, as far east as the Colorado River, and as far south as Baja California (Johnson 1962; Kroeber 1976; Bean and Smith 1978).

The Gabrielino lived in permanent villages and smaller, resource-gathering camps occupied at various times of the year depending upon the seasonality of the resource. Larger villages were comprised of several families or clans, while smaller, seasonal camps typically housed smaller family units. The coastal area between San Pedro and Topanga Canyon was the location of primary subsistence villages, while secondary sites were located near inland sage stands, oak groves, and pine forests. Permanent villages were located along rivers and streams, as well as in sheltered areas along the coast. As previously mentioned, the Channel Islands were also the locations of relatively large settlements (Kroeber 1976; Bean and Smith 1978).

The Gabrielino tribe carried out food exploitation strategies that utilized local resources ranging from plants to animals; coastal resources were also exploited. Rabbit and deer were hunted and acorns, buckwheat, chia, berries, fruits and many other plants were collected. Artifacts associated with their occupations include a wide array of chipped stone tools including knives and projectile points, wooden tools like digging sticks and bows, and ground stone tools like bedrock and portable mortars, metates and pestles. Local vegetation was used to construct shelters as well as for medicinal purposes. Cooked foods were prepared on hearths (Kroeber 1976; Bean and Smith 1978; McCawley 1996). Acorns were one of the most important food resources utilized by the Gabrielino and other Native American groups across California. The acorns were ground into a fine powder in order to make an acorn mush or gruel. A dietary staple, acorns provided a large number of calories and nutrients. The ability to store and create stockpiles in case of lean times also contributed to the importance of acorns as a vital natural resource. Much of the material evidence available to archaeologists concerning the Gabrielino is a result of tools and technologies related to their subsistence activities.

The social structure of the Gabrielino is little known; however, there appears to have been at least three social classes: 1) the elite, which included the rich, chiefs, and their immediate family; 2) a middle class, which included people of relatively high economic status or long established lineages; and 3) a class of people that included most other individuals in the society. Villages were politically autonomous units comprised of several lineages. During

times of the year when certain seasonal resources were available, the village would divide into lineage groups and move out to exploit them, returning to the village between forays (Kroeber 1976; Bean and Smith 1978). Each lineage had its own leader, with the village chief coming from the dominant lineage. Several villages might be allied under a paramount chief. Chiefly positions were of an ascribed status, most often passed to the eldest son. Chiefly duties included providing village cohesion, leading warfare and peace negotiations with other groups, collecting tribute from the village(s) under his jurisdiction, and arbitrating disputes within the village(s). The status of the chief was legitimized by his safekeeping of the sacred bundle, a representation of the link between the material and spiritual realms and the embodiment of power (Kroeber 1976; Bean and Smith 1978). Shamans were leaders in the spirit realm. The duties of the shaman included conducting healing and curing ceremonies, guarding of the sacred bundle, locating lost items, identifying and collecting poisons for arrows, and making rain (Kroeber 1976; Bean and Smith 1978). Marriages were made between individuals of equal social status and, in the case of powerful lineages, marriages were arranged to establish political ties between the lineages (Kroeber 1976; Bean and Smith 1978). Men conducted the majority of the heavy labor, hunting, fishing, and trading with other groups. Women's duties included gathering and preparing plant and animal resources, and making baskets, pots, and clothing (Kroeber 1976; Bean and Smith 1978). The name "Gabrielino" is Spanish in origin and was used in reference to the Native Americans associated with the Mission San Gabriel. It is unknown what these people called themselves before the Spanish arrived, but today they call themselves "Tongva", meaning "people of the earth".

HISTORICAL SETTING

The "Sacred Expedition" of 1769, led by Spaniard Gaspar de Portola and Franciscan Fray (or Father) Junipero Serra, started the process of colonization in Alta California was meant to begin the permanent settlement of Alta California, beginning in San Diego. Once the first European exploration of California occurred, the region underwent immense change. As early as 1827, Anglo-Americans were migrating into Southern California. In the decades to come, California would be taken by the United States with the close of the Mexican-American War and subsequent events such as the Civil War and California Gold Rush would continue to shape the history of California.

Spanish Period (1769 to 1821) to Mexican Period (1821 to 1848)

The Spanish period began in 1769 with Captain Gaspar de Portolá's land expedition and ended in 1821 with Mexican Independence. During the Spanish Period, the establishment of the Mission San Gabriel Arcángel (1771) was influential throughout the surrounding regions, using the area for cattle grazing. An asistencia was established within the area nearby in Redlands in 1819 and helped facilitate the Mission's control of the surrounding area. However, after control of the area shifted to Mexico, secularization began throughout the area and the missions and their associated ranches began to decline. The Mexican government proceeded to push settlements of Mexican populations from the south by deeding large grants to individuals who promised to employ settlers. One such land grant was the *Rancho Santa Ana del Chino*.

In 1841, Antonio Maria Lugo was granted the rights to what became *Rancho Santa Ana del Chino*. After building an adobe house (now currently the location of Boy's Republic in Chino Hills), Lugo turned over the management of the ranch to his son-in-law, Isaac Williams. For decades, Williams successfully grazed cattle on the 46,000 acres Rancho. Notably, Williams played a significant part of the Battle of Chino, a local skirmish during the Mexican-American War. On September 26 and 27, 1846, the Mexican army sent an advancing contingency to intercept 24 American sympathizers, led by Benjamin D. Wilson, on their way to Los Angeles (Beattie 1942; Martino et al. 2011; Lech 2014). The adobe house at *Rancho Santa Ana del Chino*, where the sympathizers had been hiding, was set ablaze as a result of multiple attacks. The American group surrendered and, instead of execution, the group was taken to Los Angeles where they remained prisoners of war until they were eventually released (Beattie 1942; Lech 2014).

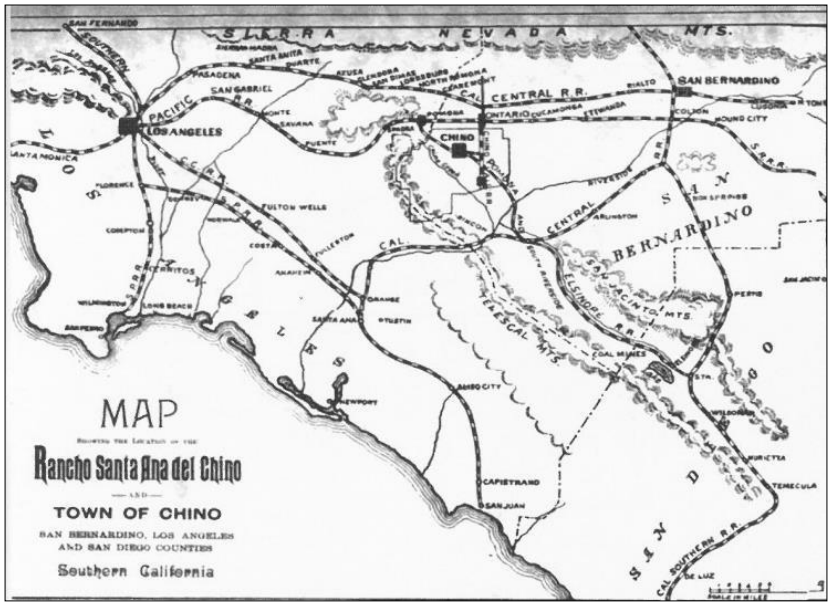

Figure 5. Map of *Rancho Santa Ana del Chino* (Martino et al. 2011)

American Period (1848 to present)

The Gold Rush of 1849 would see tremendous influx of Americans and Europeans flooding into Southern California. *Rancho Santa Ana del Chino* became a popular stopover for travelers of the rush (Martino et al. 2011). The passing of the Homestead Act of 1862 continued this increase of settlers within the region, George and William Chaffey were among these early pioneers. In 1881, the Chaffey brothers believed that if the land was properly irrigated, it could be converted to profitable agriculture property. They bought over 6,000 acres of land in 1882 that was arid and covered by patches of scrub brush (City of Ontario 2018a). The Chaffey brothers designed a water system that connected miles of cement pipe from an underground water source to each parcel of land. This land would eventually become the cities of Ontario and Upland. George and William Chaffey derived the name of the city from their native province of Ontario in Canada (Galvin Preservation Associates 2007). The City of Ontario was incorporated in 1891, becoming one of the earliest established towns in San Bernardino County (City of Ontario 2018a and b). By 1903, the city was referred to as a "Model Irrigation Colony" after receiving an award at the World Fair as a "Model Colony" for innovation in water rights and technology, which assisted in attracting settlers to the City (City of Ontario 2018a). Charles Frankish, an early citizen of Ontario, guided and encouraged early development in the city by successfully attracting the Southern Pacific Railway to locate a depot in the center of town on Euclid Avenue, making it an important feature of the City. The establishment of the Southern Pacific Railroad depot transformed Ontario into an agricultural center. Ontario focused primarily on the citrus industry, but also grew walnuts, peaches, and grapes. There was a large gentry class of citrus growers who constructed many grand ornamental Victorian houses throughout the city (City of Ontario 2018b).

Figure 6. Citrus grove in North Ontario area, circa 1905 (Galvin Preservation Associates 2007)

Dairies began to be established in the region, known as Chino Valley, during the late 1890s and continued to dominate the area throughout the 20th century. During the 1920s and 1930s, middle European dairymen began settling in the area (Galvin and Associates 2004). In 1967, the County of San Bernardino designated 14,000 acres of land in Chino Valley as an agricultural preserve protected by the Williamson Act and the Land Conservation Act. By the 1980s, the area had more cows per acre and higher milk yields than anywhere else in the world (Galvin and Associates 2004). By the 1990s, increased demand for housing and high dairy operation costs pressured farmers in the San Bernardino Agricultural Preserve to consider relocating their dairies and annexing their land to adjoining cities. Anticipating the expiration of the Williamson Act, the area was divided, and portions were incorporated into the Cities of Ontario, Chino, and Chino Hills. The City of Ontario annexed 8,200 acres of the former San Bernardino Agriculture Preserve in 1999 and called the area the New Model Colony. The Local Agency Formation Commission (LAFCO) required the City to prepare a General Plan Amendment and EIR prior to annexation. In 1996, the City of Ontario began planning for annexation and adopted the New Model Colony General Plan Amendment and EIR in 1998 (Galvin and Associates 2004). Today, the City of Ontario retains its history through many recognizable historic neighborhoods, buildings, and agricultural districts.

METHODS

CALIFORNIA HISTORIC RESOURCES INVENTORY SYSTEM AND CULTURAL BACKGROUND RESEARCH

On September 18, 2018, Judy Cardoza, conducted a search of the California Historical Resource Information System (CHRIS) at the South Central Coast Information Center (SCCIC), located at the California State University, Fullerton, Orange County. On January 29, 2020, Julia Carvajal, conducted a supplemental search at SCCIC for the amended Project Area. The search covered any previously recorded cultural resources and investigations within a 1 mile radius of the Project Area. The CHRIS search also included a review of the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), the California Points of Historical Interest list, the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, and the California State Inventory of Historic Resources.

NATIVE AMERICAN OUTREACH AND BACKGROUND RESEARCH

MCC requested a search of the Sacred Lands File from the Native American Heritage Commission (NAHC) on October 2, 2018. The Commission responded with a letter dated October 10, 2018, although this response was not logged in with MCC until October 31, 2018, stating that there are no known sacred lands within a 1- mile radius of the Project Area. The NAHC requested that nine Native American tribes or individuals be contacted for further information regarding the general Project vicinity. MCC has extensive experience conducting archaeological investigations within the region of the Project Area and has established working relationships with local Native American representatives. As a result, informational letters were mailed on October 24, 2018, to each group or individual anticipated to be an interested party in advance of the NAHC response, in order to expedite a streamlined Native American contact program. Maps depicting the Project APE were attached to each letter. On November 2, 2018, any individuals that was not covered by MCC's initial outreach was mailed out the same informational letters and map. Overall, a total of 22 parties were contacted, nine of which were identified by the NAHC as potential contacts and 13 additional Native American representatives, to solicit comments regarding the Project. Additional attempts at contact by letter, email, or phone call were made on November 12 and November 27, 2018. On January 30, 2020, MCC sent informational letters and maps of the expanded Project Area to the nine Native American Tribes and/or individuals identified by the NAHC as contacts to have knowledge of cultural resources in the Project Area. MCC did not conduct formal consultation with the Native American representatives.

PALEONTOLOGICAL RECORDS SEARCH

The literature review included an examination of geologic maps of the project area and a review of relevant geological and paleontological literature to determine which geologic units are present within the project area and whether fossils have been recovered from those geologic units elsewhere in the region. As geologic units may extend over large geographic areas and contain similar lithologies and fossils, the literature review includes areas well beyond the project area. The results of this literature review include an overview of the geology of the project areas and a discussion of the paleontological sensitivity (or potential) of the geologic units within the project area. A search for paleontological records was completed by staff of the Natural History Museum of Los Angeles County (LACM) in Los Angeles on October 12, 2018. The record search included a one-mile radius around the Project Area, as well as the Project Area itself identified any vertebrate localities in the museum's records that exist near the project area in the same or similar deposits.

CULTURAL AND PALEONTOLOGICAL FIELD SURVEY

The survey stage is important in a Project's environmental assessment phase to verify the exact location of each identified cultural or paleontological resource, the condition or integrity of the resource, and the proximity of the resource to areas of cultural resources sensitivity. In addition, the field survey provides invaluable information on the type of sediment present within the Project Area, which informs the assessment of paleontological sensitivity. Judy Cardoza, MCC Archaeologist and cross-trained Paleontologist, conducted the survey of the proposed Project Area on September 21, 2018. The survey consisted of walking in parallel transects spaced at approximately 15-

meter intervals over the Project parcel, while closely inspecting the ground surface. All undeveloped ground surface areas within the ground disturbance portion of the Project Area were examined for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools or fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions and features indicative of the former presence of structures or buildings (e.g., postholes, foundations), or historic-era debris (e.g., metal, glass, ceramics). Existing ground disturbances (e.g. cutbanks, ditches, animal burrows, etc.) were visually inspected. Representative photographs were taken of the entire Project Area.

RESULTS

CALIFORNIA HISTORIC RESOURCES INVENTORY SYSTEM AND CULTURAL BACKGROUND RESEARCH

The CHRIS records search identified a total of 19 cultural resources investigation that have been previously conducted within a 1-mile mile radius buffer around the Project Area, with two studies adjacent to the Project Area (see Table 1).

Table 1. Previous Conducted Resources Studies within 1 -mile Buffer of Project Area

CHRIS Report Number	Authors	Year	Title of Study	Affiliation	Distance from Project Area
SB-00395	Hearn, Joseph E., and Ruth D. Simpson	1976	Archaeological-Historical Resources Assessment of Proposed Chino Maintenance Yard Construction	San Bernardino County Museum Association	Within 1 mile
SB-00695	Unknown	Unknown	Unknown	Unknown	Within 1 mile
SB-00537	Hearn, Joseph E.	1977	Archaeological-Historical Resources Assessment of Land Area to be Impacted by Renovation Program at Chino Airport	San Bernardino County Museum Association	Adjacent to Project Area
SB-00547	Hearn, Joseph E.	1977	Archaeological-Historical Resources Assessment of Kimball Road Improvement Project in Chino	San Bernardino County Museum Association	Adjacent to Project Area
SB-01499	Foster, John M. and Roberta S. Greenwood	1985	Cultural Resources Overview: California Portion, Proposed Pacific Texas Pipeline Project	Greenwood and Associates	Adjacent to Project Area
SB-02623	Taskiran, A. and R. Greeley	1992	Cultural Resources Assessment: Santa Ana Watershed Project Authority, Chino Basin Desalination Program-Phase I Project, Riverside and San Bernardino Counties, California	University of California Riverside, Archaeological Research Unit	Within 1 mile
SB-02678	Broomhall, Lorie L.	1992	Addendum to Cultural Resources Assessment: Santa Ana Watershed Project Authority, Chino Basin Desalination Program – Phase I Project, Riverside and San Bernardino Counties, California	Univ. of Calif. Riverside, Archaeological Research Unit	Within 1 mile
SB-03012	Owen, Shelley	1995	Cultural Resources Survey and Impact Assessment for the Cajon/EPTC Pipeline Project Located in Portions of Los Angeles, San Bernardino, and Orange Counties, CA	EIP Associates	Within 1 mile
SB-03066	Rosenthal, Jane and Beth Padon	1995	Historic Property Clearance Report for Euclid Ave. (RTE 83) Road Widening Between Kimball & Merrill Avenues in the City of Chino—08-RIV-83 PM 2.73/3.920	Petra Resources, Inc	Within 1 mile
SB-03686	Hale, Alice M.	1997	Cultural Resource Assessment-Santa Ana Watershed Project Authority, Chino Basin Desalination Program: Water Pipelines, Wells & Reservoir	Greenwood and Associates	Within 1 mile
SB-3687	Love, Bruce and B. Tang	1997	Identification & Evaluation of Historic Properties-Chino Basin Desalination Program, Facilities Revision Project, San Bernardino & Riverside Counties	CRM Tech	Within 1 mile
SB-04402	Billat, Lorna	2004	Chino Airport/CA-6115D/ 14PP	Earth Touch, LLC	Within 1 mile

CHRIS Report Number	Authors	Year	Title of Study	Affiliation	Distance from Project Area
SB-04404	Tanaguchi, Christeen	2003	Phase I Cultural Resources Survey for Cingular Telecommunications Facility SB-197-03 (Edison Verizon Colo) 14095 N. Euclid Ave., Ontario, San Bernardino County, CA. 9PP	Michael Brandman Associates	Within 1 mile
SB-04506	Dahdul, Miriam	2001	Historical/Archaeological Resources Survey Report: Chino I Desalter Expansion & Chino II Desalter & Support Facilities, Chino Basin Area, San Bernardino & Riverside Counties. 16PP	CRM Tech	Within 1 mile
SB-06037	Crawford, Kathleen A.	2008	Direct APE Architectural Assessment for Royal Street Communications, LLC. California Candidate LA2245B (SCE Chino, Chino Mira Loma No. 1 M231-T3n), Fern Avenue and Edison Avenue, Chino San Bernardino County CA	Michael Brandman Associates	Within 1 mile
SB-06068	Cotterman, Cary and Chandler, Evelyn	2009	Cultural Resources Inventory of Proposed Edison International Aircraft Operations Facility at the Chino Airport Chino, San Bernardino County, California	ECORP Consulting	Within 1 mile
Sb-07898	Strudwick, Ivan	2013	Results of the Cultural Resources Assessment Survey for the Stratham Company 14-Acre Brewart SiteProject in the City of Chino, San Bernardino County California	LSA Associates, Inc.	Within 1 mile
SB-07968	Holm, Lisa and John Holson	2011	Supplemental Archaeological Survey Report: Tehachapi Renewable Transmission Project Segment 8 East (Phase 2 and 3) and West (Phase 4), Los Angeles and San Bernardino Counties, California	Pacific Legacy, Inc	Within 1 mile
SB-07977	Panich, Lee, Tsim D. Schneider, and John Holson	2010	Supplemental Archaeological Survey Report: Tehachapi Renewable Transmission Project Segment 8 East (Phase 2 and 3), San Bernardino County, California	Pacific Legacy, Inc	Within 1 mile

The records search identified nine previously recorded cultural resources within a 1-mile buffer, with no resources located within the Project Area boundaries (see Table 2). A review of historical aerial photographs and maps show the Project Area has been consistently used for agricultural and dairy activities since the 1930s (see Table 3 and Confidential Appendix B).

Table 2. Previously Recorded Cultural Resources within 1-mile Buffer of Project Area

Primary Number	Trinomial	Age	Attributes	NRHP/CRHR	Distance from Project Area
P-872-83H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-872-84H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-872-85H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-872-86H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-872-87H	N/A	Historic	HP6-Commercial Building	unknown	Within 1 mile
P-872-88H	N/A	Historic	HP2-Residential Building	unknown	Within 1 mile
P-36-024903	N/A	Historic	HP11-Engineering structure	unknown	Within 1 mile
P-36-025440	N/A	Historic	HP11-Engineering structure	unknown	Within 1 mile
P-36-026725	N/A	Historic	HP33-Farm/Ranch	unknown	Within 1 mile

Table 3. Additional Sources Consulted for the Project

Source	Results
National Register of Historic Places (1979-2002 & supplements)	Negative
Historical United States Geological Survey topographic maps (USGS 2012)	Area consistently used for agricultural activities
Historical United States Department of Agriculture aerial photos	Area consistently used for agricultural activities
California Register of Historical Resources (1992-2010)	Negative
California Inventory of Historic Resources (1976-2010)	Negative
California Historical Landmarks (1995 & supplements to 2010)	Negative
California Points of Historical Interest (1992 to 2010)	Negative
Local Historical Register Listings	Negative
Bureau of Land Management General Land Office Records (BLM GO 2008)	Negative

NATIVE AMERICAN OUTREACH AND BACKGROUND RESEARCH

As a result of the effort to contact the 22 Native American Tribes or individuals identified by the NAHC and established working relationships with other Native American representatives, MCC received seven responses. These responses came in the form of emails and a phone call. Below is a summary of the responses provided by Native American Tribes.

MCC received several responses prior to our first follow-up attempt. On November 1, 2018, MCC received an email from Jessica Mauck, Cultural Resources Analyst for San Manuel Band of Mission Indians (SMBMI). Ms. Mauck stated the proposed Project Area is located just outside of Serrano ancestral territory and SMBMI would not request consulting party status or elect to participate with further development of the Project. On November 2, 2018, MCC received an email containing a letter from Travis Armstrong, Tribal Historic Preservation Officer for

Morongo Band of Mission Indians (MBMI). Mr. Armstrong stated the Project is located within the MBMI's aboriginal territory or in an area considered to be a traditional use area or one in which the Tribe has cultural ties. MBMI requested a through records search be conducted via CHRIS and a copy of the search results be provided to the tribe. MBMI also requested a tribal monitor participate during the initial pedestrian field survey of the Phase I Study of the Project with copy of results of the study provided. Mr. Armstrong stated that if the pedestrian survey has already been conducted, MBMI would request a copy of the Phase I study be provided to the Tribe as soon as it is made available. On November 7, 2018, MCC received an email from Lacy Padilla, Archaeological Technician for Agua Caliente Band of Cahuilla Indians (ACBCI), who were a part of MCC's preliminary outreach effort. Ms. Padilla stated the proposed Project is not located within ACBCI's Traditional Use Area and they defer to other tribes in the area.

MCC conducted a follow-up to the nine NAHC-provided Native American contacts on November 12, 2018. In response, Brandy Salas, admin specialist for Gabrieleno Band of Mission Indians- Kizh Nation (Kizh Nation), requested a digital copy of the outreach letter be sent to the Tribe. MCC provided a digital copy to Ms. Salas on November 14, 2018. On November 16, 2018, Ms. Salas responded that the Kizh Nation request that if any ground disturbance should take place regarding the Project that their tribal government would like to consult with the agency. On November 16, 2018, MCC received an email from Sarah Bliss, Cultural Resources Manager for Twenty-Nine Palms Band of Mission Indians (TNPBMI), who were apart of MCC's preliminary outreach effort. Ms. Bliss stated that TNPBMI was unaware of any additional cultural resources or any Tribal Cultural Resources within the Project area. TNPBMI requested any updates or changes to the Project be brought to their attention. On November 28, 2018 MCC received a return call from Mr. Anthony Morales, chairperson of the Gabrieleno / Tongva San Gabriel Band of Mission Indians. Mr. Morales indicated that the Project area is historically known to have had Gabrieleno villages in the general vicinity, that the area would have been used as a trade route to the Inland Empire, and that there may even be traces of water conveyance features intact. Mr. Morales also requested that the Gabrieleno / Tongva San Gabriel Band of Mission Indians be contacted in the event that any ground disturbing activity takes place within the Project area, as they would like to be involved in the monitoring process.

As a result of notifying Native American Tribes or individuals identified by the NAHC about changes to the Project Area, MCC received one response from Alexandra McCleary, Tribal Archaeologist for the San Manuel Band of Mission Indians (SMBMI). Dr. McCleary stated that the proposed Project are is located outside of ancestral territory and as such does not have any comments at this time.

As of March 4,2020, MCC has not received any additional responses from the remaining NAHC-listed groups or individuals we contacted for information. Should MCC receive additional responses once the final report is submitted, the information will be passed on to Euclid Land Ventures to be added to the report as an addendum. NAHC and Native American correspondence materials, including our communication attempts, are provided as Appendix C.

PALEONTOLOGICAL RECORDS SEARCH

The locality search at LACM did not yield any fossil localities within 1 mile of the Project Area and no fossil localities within the Project Area (See Appendix D) (McLeod 2018). The geological units mapped within the entirety of the Project Area is comprised of younger Quaternary alluvium (McLeod 2018). While these deposits typically do not contain significant vertebrate fossils within the uppermost layers, it is likely they are underlain in this area by older Quaternary deposits at relatively shallow depth. The closest vertebrate fossil locality from similar sediments is LACM 7811, which is located just south of due east of the Project Area, and west of Mira Loma, California. This locality produced a fossil specimen of whipsnake (*Maticophis*) at a depth of nine to eleven ft below surface (McLeod 2018). The next closest vertebrate fossil locality from Older Quaternary deposits is LACM 1207, located south-southeast of the Project Area on the northwestern side of Corona, California. This locality produced fossil

specimen of deer (*Odocoileus)* (McLeod 2018). Additional literature was consulted, including The University of California Museum of Paleontology (UCMP)'s Miocene Mammal Mapping Project (MioMap), with no fossil localities within the area of the Project (Carrasco et al. 2005).

CULTURAL AND PALEONTOLOGICAL FIELD SURVEY RESULTS

The majority of the Project Area is comprised of facilities supporting ongoing agricultural and dairy activities. Historic structures, in addition to modern residences and buildings associated with the dairy farm, are located throughout the Project Area, and were surveyed and assessed by Pamela Daly, MSHP (see Appendix E). The entire Project Area has been previously disturbed with the current agricultural/dairy operations within its boundaries. Retaining ponds are located within the southeast portion of the project area.

On September 21, 2018. MCC archaeologist and cross-trained paleontologist Judy Cardoza, conducted an intensive pedestrian survey of the project area. Visibility throughout the project area during the archaeological and paleontological survey ranged from 10% to 80%, vegetation consists of dry seasonal grasses. Soil throughout the area is a light brown, disturbed by agricultural and dairy activities. Representative photos of the project area are found below (Figures 7-12). A survey for the supplemental assessment acreage was not surveyed due to the area only being programmatically analyzed at this time. If development is to occur at a later date, then an intensive pedestrian survey must be completed prior to work.

The Specific Plan area is occupied by the George Borba & Son Dairy, which appears to have established their organization at this location in 1963 (per information from San Bernardino County building permits). George A. Borba Sr. was the son of Pete Borba, who had moved to the Chino Valley-Edison Road area in the late 1920s, to grow potatoes and be a dairy operator. George Borba Sr. established in dairy operation in 1963 at 7955 Eucalyptus Avenue, and built a large modern milking operation and a private residence. He expanded his operation in 1978 with the construction of an additional dairy barn, and built a residence for his farm manager. Borba's neighbor to the southeast, Harry Boersma, sold his dairy operation to Borba in 1993. When Borba moved onto the land in 1963, there had been three single-family bungalows and a large, metal sided utility barn located at the southeast corner of Eucalyptus Avenue and Bon View Avenue. The three bungalows were removed in 1988, and replaced with four, single-family residences that same year. The Specific Plan area includes the Borba main house, the manager's house, the Boersma house, the Borba main dairy barn/milking parlor, the Borba auxiliary dairy barn/milking parlor, the Boersma dairy barn/milking parlor, four single-family residences, an older barn, and structures associated with a dairy farm operation. The buildings and structures of the George Borba & Son Dairy property are all situated within the Specific Plan area. The George Borba & Son Dairy property has met the aspects of physical integrity, and character-defining features, to be identified as a Post 1950s Scientific, Large Capacity Dairy, but does not appear to have played a significant role in the history of dairy farming, or appear to be an important example of a large-scale, concentrated animal dairy operation in Ontario, or the Chino Valley area.

Figure 7. Overview of western portion of Project Area (View Southwest)

Figure 8. Overview of eastern portion of Project Area (View Southeast)

Figure 9. Overview of active dairy located within Northeastern portion of the Project Area (View southwest)

Figure 10. Representative photo of field sections within northwest corner (View South)

Figure 11. Representative photo of basins at the southwest corner of the project area (View West)

Figure 12. Representative photos of historic buildings (View Northeast)

CONCLUSIONS AND RECOMMENDATIONS

CULTURAL RESOURCES CONCLUSIONS

The Phase I cultural resource assessment of the Project Area included a CHRIS records search, NAHC outreach, background research, a field pedestrian survey, and a historic resource survey and evaluation. The records search results indicated no previously recorded resource within the Project Area. During the field survey, several historic structures were observed in the project area, which were assessed for significance by a qualified architectural historian, Pamela Daly, MSHP. The historic-era dairy is not considered significant as per CEQA or NHPA Section 106, and therefore does not require additional mitigation or management.

CULTURAL RESOURCES RECOMMENDATIONS

Based on the results of the cultural resources search and survey, the proposed Project Area is considered to have a low sensitivity for presence of significant prehistoric or historical archaeological deposits or features. MCC recommends ***No Mitigation is Needed***. However, this recommendation is based on the condition of no development taking place within the supplemental assessment area. Future development in the expansion area will require an intensive pedestrian survey prior to any development. If the expansion area yields a positive survey, mitigation measures will need to be reassessed and archaeological monitoring maybe required. While we do not recommend additional mitigation at this time, MCC does recommend setting a plan in place to expediently address inadvertent discoveries and human remains (as described below), should these be encountered during construction activities.

Inadvertent Discoveries

Despite actions taken to ensure that all cultural resources are located prior to construction, including record searches and field surveying, there still remains the possibility that undiscovered, buried archaeological resources might be encountered during construction. In the event that these resources are inadvertently discovered during ground-disturbing activities, work must be halted within 50 feet of the find until it can be evaluated by a qualified archaeologist. Construction activities could continue in other areas. If the discovery proves to be significant, additional work, such as data recovery excavation or fossil recovery, may be warranted and would be discussed in consultation with the appropriate regulatory agency(ies).

Human Remains

Procedures of conduct following the discovery of human remains on non-federal lands have been mandated by California Health and Safety Code §7050.5, PRC §5097.98 and the California Code of Regulations (CCR) §15064.5(e). According to the provisions in CEQA, should human remains be encountered, all work in the immediate vicinity of the burial must cease, and any necessary steps to insure the integrity of the immediate area must be taken. The Riverside County Coroner will be immediately notified. The Coroner must then determine whether the remains are Native American. If the Coroner determines the remains are Native American, the Coroner has 24 hours to notify the NAHC, who will, in turn, notify the person they identify as the most likely descendent (MLD) of any human remains. Further actions will be determined, in part, by the desires of the MLD. The MLD has 48 hours to make recommendations regarding the disposition of the remains following notification from the NAHC of the discovery. If the MLD does not make recommendations within 48 hours, the owner shall, with appropriate dignity, reinter the remains in an area of the property secure from further disturbance. Alternatively, if the owner does not accept the MLD's recommendations, the owner or the descendent may request mediation by the NAHC.

PALEONTOLOGICAL RESOURCES CONCLUSIONS

The Phase I paleontological resource assessment of the Project Area included a locality records search, literature review, and a field pedestrian survey. No significant paleontological resources were identified within the direct Project Area during the locality search or the field survey. The Project show the geological units mapped within the Project Area is comprised of younger Quaternary Alluvium, derived from San Bernardino Mountains to the north. While these deposits typically do not contain significant vertebrate fossils within the uppermost layers, it is likely there are underlaying sediments of older Quaternary deposits. There are nearby localities from similar sedimentary deposits found within the proposed Project Area. MCC recommends the Project Area be considered low to moderate sensitivity to have the potential for construction activities of the proposed project to impact underlying paleontological resources.

PALEONTOLOGICAL RESOURCES RECOMMENDATIONS

Based on the above findings, MCC recommends periodic paleontological spot checks should be conducted when excavation exceeds depths of five feet to determine if older, paleontologically sensitive sediments are present. If present, monitoring should be implemented. Prior to the start of construction, a paleontological resources monitoring plan (PRMP) should be prepared and implemented. It is recommended the Project's PRMP implement the following procedures:

- A trained and qualified paleontological monitor should perform spot-check and/or monitoring of any excavations on the Project that have the potential to impact paleontological resources in undisturbed native sediments below 5 feet in depth. The monitor will have the ability to redirect construction activities to ensure avoidance of adverse impacts to paleontological resources.

- The Project paleontologist may re-evaluate the necessity for paleontological monitoring after examination of the affected sediments during excavation, with approval from Lead Agency and Client representatives.

- Any potentially significant fossils observed shall be collected and recorded in conjunction with best management practices and SVP professional standards.

- Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution for the benefit of current and future generations.

- A report documenting the results of the monitoring, including any salvage activities and the significance of any fossils, will be prepared and submitted to the appropriate personnel.

This recommendation is based on the condition of no development taking place within the supplemental assessment area. Future development in the expansion area will require an intensive pedestrian survey prior to any development. If the expansion area yields a positive survey, mitigation measures will need to be reassessed.

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Scott, E. and K. Springer

Appendix A:
Staff
Qualifications

Tria Belcourt, M.A., RPA
President and Principal Environmental Specialist

Tria Belcourt oversees and is responsible for the entire work process at Material Culture Consulting. She is responsible for planning, supervising, and overseeing field projects, including responsibility for the professional quality of evaluations and recommendations. Tria has primary accountability for the technical completeness and competence of work conducted by her staff. She is responsible for development of work plans and/or research designs, for performance of crew chiefs, for selection standards and limitations on work assignments of crew members, for analysis and interpretation of field data, for integration of fieldwork results into comparative regional perspectives, and for preparation of reports. Tria's advanced academic training and more than twelve years of professional archaeological experience has included rigorous training and application of anthropological and archaeological theory and methods, and in recording, collecting, handling, analyzing, evaluating, and reporting cultural property data, relative to the type and scope of work proposed.

Tria has been an archaeological project manager and principal investigator for over six years, leading and managing several complex compliance projects throughout the State of California and in Southern Nevada, which have involved each step of cultural resource compliance and management. Prior to this, she spent six years as a field technician and crew chief on projects throughout California and the Southeastern United States. Her experience includes conducting background research, field survey, resource testing and formal NRHP/CRHR evaluation, data recovery plan development and implementation. She has prepared hundreds of technical reports for all of the above to state and federal standards, including following BLM standards for GIS spatial data management and technical reporting – ranging from simple clearance forms, to letter reports, to extensive data recovery reports. She was the lead preparer of the Fort Irwin Integrated Cultural Resource Management Plan (2009-2013) and has also prepared several cultural resource management plans for state regulated projects. She has overseen and conducted archaeological monitoring and management of unanticipated discovery of resources, including Native American human remains on federal lands (and repatriation of the remains), and reported the results and outcomes of cultural resource monitoring efforts in lengthy technical reports. Finally, Tria regularly provides third party and QA/QC review of cultural resource technical documents, due to her keen understanding of state and federal regulations and laws governing the management of cultural resources throughout the state of California.

EDUCATION

2014 Graduate Certificate in Environmental Management of Military Lands, Colorado State University
2010 Professional Certification in CEQA/NEPA, ICF International Corporation
2009 M.A. in Anthropology, University of Florida Gainesville, Florida
Professional Certification in GIS
2006 B.A. in Anthropology, Magna Cum Laude, University of California, Los Angeles, California

AFFILIATIONS/CERTIFICATIONS/TRAINING

- Society for Historical Archaeology (SHA)
- Society for California Archaeology (SCA)

UTILITY SECTOR EXPERIENCE

SCE Transmission Line Rating and Remediation Project (TLRR) – Control Silver Peak 66kV Subtransmission, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (October 2016- present). Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-2018) and Environmental Intelligence (2018-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

SCE Transmission Line Rating and Remediation Project (TLRR) - Kern River 66kV, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (October 2016- present). Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

SCE Transmission Line Rating and Remediation Project (TLRR) – Eldorado Pisgah Lugo 220kV Subtransmission, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (October 2016- present). Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

SCE Transmission Line Rating and Remediation Project (TLRR) – Control Haiwee 115kV Subtransmission, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (April 2017- present). Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-2018) and to SWCA (2018-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

SCE Transmission Line Rating and Remediation Project (TLRR) – Ivanpah Coolwater Kramer Inyokern 115kV Subtransmission, Kern and Los Angeles Counties, California. Cultural Resource Inventory Assessment (April 2017- present). Ms. Belcourt provides project management and leadership for this SCE project, as the Principal Investigator for Archaeology, under contract to Arcadis (2016-2018) and to SWCA (2018-present). MCC is tasked with all aspects of cultural resources assessments including records searches, surveys, maintaining and generating GIS data according to SCE Schema, obtaining federal and state permits for cultural resources studies, and technical reporting.

Pacific Gas and Electric Company (PG&E), NERC Alert Program – Archaeological Principal Investigator; throughout California; 2015 – Present. Belcourt provides oversight of all task orders and project management of on-call task orders involving cultural resource desktop reviews, records searches and field reviews for the PG&E NERC Alert program: tracking and reporting efforts, maintaining project schedule, and timely submittal of data to prime contractor (Arcadis).

Southern California Edison (SCE), On-Call and Emergency Projects – Archaeological Principal Investigator and Project Manager; throughout California, 2013 – Present. Belcourt has provided oversight of over 200 task orders for on-call and emergency projects to date, involving cultural resource desktop reviews, records searches and field reviews for deteriorated poles, system upgrades, initial studies to support capital projects, and monitoring support to replace facilities due to natural disasters. This high-volume program includes preparing and submitting budgets, managing support staff and overseeing work, tracking and reporting efforts, maintaining project schedules, and preparing technical reports and GIS datasets for submittal to prime contractor (SWCA).

Southern California Edison (SCE), Large Capital Projects – Archaeological Principal Investigator and Project Manager; throughout California, 2014 – Present. Belcourt has provided oversight of over 20 task orders for major projects to date, involving cultural resources for this contract with SWCA, Environmental Intelligence and ICF. This includes preparing and submitting budgets, managing support staff and overseeing work, tracking and reporting efforts, maintaining project schedule, and preparing technical reports and GIS datasets for submittal to prime contractors.

Southern California Edison (SCE), Small Capital Projects – Archaeological Principal Investigator and Project Manager; throughout California, 2014 – Present. Belcourt provides oversight of all task orders and project management of task orders involving cultural resources for this contract with Environmental Intelligence and ICF. This includes preparing and submitting budgets, managing support staff and overseeing work, tracking and reporting efforts, maintaining project schedule, and preparing technical reports and GIS datasets for submittal to prime contractors.

Southern California Edison (SCE), Coolwater Lugo Transmission Project —- Environmental Project Manager; San Bernardino County, California; 2014 – 2015. Belcourt provided oversight of all project management on CWLTP: tracking and reporting efforts of subconsultants (Pacific Legacy, Paleo Solutions and Urbana Preservation and Planning), maintaining project schedule and timely submittal of project deliverables to agency reviewers. Served as communication facilitator between SCE and BLM/CPUC agency reviewers. Provided final review of the Cultural Resources Technical Report (which included over 1,000 cultural resources) and the Historic Built Environment Report - prior to draft submittal to BLM.

SCE, Eldorado Ivanpah Transmission Project – In-house Consultant for Archaeology; San Bernardino County, California and Clark County, Nevada; 2010-2012. Belcourt provided complex regulatory oversight and project management regarding cultural and paleontological resource management. She developed compliance training to inform and guide construction activities and major capital project teams. She also developed and implemented internal cultural resource management programs based on project migitation measures. Tria coordinated with BLM archaeologists on discovery and management of previously unknown cultural resources identified during construction. She provided environmental analyses, technical reports, and clearance documentation for over 20 project modifications during construction without delay to project. Developed the cultural resources geodatabase for EITP and coordinated regularly with the project GIS team.

Silver State South Substation, In-house Consultant for Archaeology; Southern California Edison, Clark County, NV; 2010-2012. Provided regulatory oversight and project management regarding cultural and paleontological resource management during project licensing and scoping. Identified potential impacts to cultural and paleontological resources, developing appropriate mitigation measures in preparation for and projecting alternative conclusions.

Tehachapi Renewable Transmission Project, Multiple Roles; Southern California Edison, Segments 1-3 and Segments 6-11, Kern, Los Angeles and Orange County, CA; 2009 - Present. Tria provided service to this project over seven years in multiple roles – archaeological field monitor, project coordinator, in-house consultant at SCE, and principal investigator. She provided regulatory oversight and project management regarding cultural and paleontological resource management for all segments of TRTP. Developed and implemented internal cultural resource management programs based on the mitigation measures in the Final Environmental Impact Report/Environmental Impact Statement (FEIR/EIS) for TRTP, and for the existing Special Use Permits and Record of Decision for TRTP, issued by the Angeles National Forest (ANF). Oversaw preparation of the Historic Properties Treatment Plans, fieldwork and technical report preparation for two large-scale Phase III Data Recovery excavations on Angeles National Forest. Coordinated with ANF archaeologists on discovery and management of previously unknown cultural resources identified during construction. Provided cultural resources analyses and clearance documentation, including technical reports, for over 100 project modifications during construction without delay to project. Finally, Tria was responsible for maintaining the geospatial data for the project within the SCE cultural resources geodatabase TRTP and coordinated with the project GIS team.

Desert Tortoise Habitat Conservation Plan Area, Principal Investigator; Cadiz Inc., San Bernardino County, CA; 2013. Oversaw records search to identify the extent of previous cultural resources surveys and all previously recorded prehistoric and historic resources within the 7,500-acre Desert Tortoise Habitat Conservation Plan (HCP) area (Project Area) located on lands administered by the BLM Needles Field Office in unincorporated San Bernardino County, California.

SOLAR SECTOR EXPERIENCE

Ecoplexus California Correctional Institution Solar Project, Tehachapi, Kern County, California. Cultural and Paleontological Assessments (April 2018 – present). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, coordinated AB52 consultation between the State of California and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Ecoplexus Ironwood State Prison and Chuckawalla Valley State Prison Solar Project, City of Blythe, Riverside County. Cultural and Paleontological Assessments (June 2018 – present). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, coordinated AB52 consultation between the State of California and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Ecoplexus California State Prison Centinela Solar Project, City of Imperial, Imperial County, California. Cultural and Paleontological Assessments (August 2017 – April 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, coordinated AB52 consultation between the State of California and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Ecoplexus Calipatiria State Prison Solar Project, City of Calipatria, Imperial County, California. Cultural and Paleontological Assessments (August 2017 – April 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, coordinated AB52 consultation between the State of California and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Ecoplexus RJ Donovan State Prison Solar Project, San Diego, San Diego County, California. Cultural and Paleontological Assessments (March 2018 – April 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Ecoplexus Salinas Valley State Prison Solar Project, City of Soledad, Monterey County, California. Cultural and Paleontological Assessments (March 2018 – April 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Ecoplexus Correctional Training Facility Soledad Project, City of Soledad, Monterey County, California. Cultural and Paleontological Assessments (March 2018 – April 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

SDG&E Cameron Substation Photovoltaic Project, San Diego, San Diego County, California. Cultural and Paleontological Assessments (September 2017 – present). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, facilitated Native American consultation between County of San Diego and local tribes, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Forefront Power Beard Solar Project, Dustin Acres, Kern County, California. Cultural and Paleontological Assessments (March 2018- April 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Forefront Power Broadman Solar Project, Livermore, Alameda County, California. Cultural and Paleontological Assessments (February 2018- March 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Forefront Power Nachtigall Solar Project, Wasco, Kern County, California. Cultural and Paleontological Assessments (March 2018-April 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Forefront Power Rocha Solar Project, Fuller Acres, Kern County, California. Cultural and Paleontological Assessments (March 2018-April 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Forefront Power Shafter Solar Project, City of Shafter, Kern County, California. Cultural and Paleontological Assessments (March 2018-present). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Forefront Power Anderson Twisselman Solar Project, Lost Hills, Kern County, California. California. Cultural and Paleontological Assessments (March 2018-April 2018). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Forefront Power Weedpatch Solar Project, Kern County, California. Cultural and Paleontological Assessments (March 2018-present). Belcourt provided oversight and project management for this project, involving cultural and paleontological resource desktop reviews, Native American outreach, arranged for the records searches and coordinated field surveys. She also oversaw production of the final technical report, project schedule, and timely submittal of data to prime contractor.

Jennifer Kelly, M.Sc.
Senior Paleontologist and Principal Investigator

MATERIAL CULTURE
CONSULTING

Jennifer Kelly has experience in all aspects of paleontology. She has extensive experience with monitoring, salvage, fieldwork, project management, and report writing, as well as volunteer experience from the La Brea Tar Pits/Page Museum and the Cooper Center of Orange County (Paleontology department) and field experience as a Staff Geologist for Leighton Geotechnical. Her expertise is Geology, and she has her M.S. in Geological Sciences, emphasis in Geochemistry.

Jennifer has taught lab courses in paleontology and general geology, and also assisted with field mapping classes. Jennifer is HAZWOPER 40-hour certified and a registered Orange County paleontologist. She has co-authored more than 60 paleontological compliance documents, including PRMPs, EIR, EIS, PEA, final monitoring reports, survey reports, and other compliance documents, in compliance with NEPA, CEQA, Caltrans and city and county laws, ordinances, regulations, and statutes.

Education

2012 M.Sc. in Geology, California State University, Long Beach, California
2005 B.S., Geology (preliminary work for entry to M.S. Geology Program), California State University, Long Beach
2004 B.A., Theater Arts, California State University, Long Beach

Certifications and Training

- 40 Hour Certification for HAZWOPER training under 29 CFR 1910. 120, CA (2013 – 2014)
- Orange County Certified Paleontologist
- San Diego County Certified Paleontologist

Utility Sector Experience

Assistant PM/Research Specialist, Tehachapi Renewable Transmission Project (TRTP), Southern California Edison (SCE), Kern County, Los Angeles County, San Bernardino County. Kelly conducted and led surveys along this project's right of way. She additionally was in charge of scheduling monitoring crews during grading in areas of paleontological sensitivity, managing and reviewing log sheets, and tracking data that is incorporated to final reports. Ms. Kelly played a valuable role with scheduling for the project's needs. She has monitored, surveyed, and reported on all paleontological facets of this project as the Lead Paleontological Monitor for segment 3B and 4-11. She has co-authored more than 10 of the compliance reports for this project. She has also performed monitoring on every segment of this Project.

Assistant PM/Research Specialist, SCE, Valley South Subtransmission Line Project, Riverside County, California. Kelly assisted with scheduling and oversight for coordination of all surveying, preparation of compliance and environmental documentation for this project, including three proposed alternatives,

and co-wrote the final PEA and survey reports, utilizing CEQA and Riverside County paleontological guidelines.

Assistant PM/Research Specialist, SCE, San Joaquin Cross Valley Loop Project, Tulare County, California. Kelly assisted with coordination of all surveying, preparation of compliance and environmental documentation for this project, and co-authored the final Paleontological Monitoring Plan for this project.

Assistant PM/Research Specialist, SCE, Devore Substation Project, San Bernardino County, California. Kelly assisted with preparation of compliance and environmental documentation including a paleontological inventory and geological map research for this project.

Assistant PM/Research Specialist, SCE, Horsetown Substation Project, Riverside County, California. Kelly assisted with preparation of compliance and environmental documentation including a paleontological inventory and geological map research for this project.

Paleontological Field Technician, El Casco System-Transmission Line, SCE, throughout Riverside County. Kelly performed paleontological monitoring. Her duties included salvaging small and large fossils, screen washing and sorting fossils. She aided in the processing of microfossils collected from bulk sampling of fossil bearing sediment, and documenting stratigraphic locations of fossil bearing units. This project was in compliance with both CEQA and the CPUC.

Assistant PM/Research Specialist, ***South of Kramer Project, SCE, Hesperia to Barstow, San Bernardino, County***. Kelly assisted in overseeing portions of project management and compliance surveying, which included surveying from Hesperia to Barstow, CA for a Proponent's Environmental Assessment (PEA). All portions of the Proposed Project were located within San Bernardino County, California. This project is still active and survey results are being finalized. Kelly co-authored the final survey report for this Project. A BLM Permit was authorized for the survey.

Assistant PM/Research Specialist, ***OC Access Road Grading, SCE, Orange and Riverside County.*** Kelly assisted in documentation for the cultural resources portion, which include information regarding the location and condition of archaeological and paleontological sites recorded at or near the access roads, and recommends impact avoidance measures for future years in implementing the Protocol for 73 known archaeological sites. This required extensive coordination with Orange County Fire Authority grading department, SCE's Operations and Maintenance (O&M), and Orange County Parks. Trimble units were used for the documentation before and after grading of access roads. Communication played a key role when strategizing which locations were being graded where and when. The company came in under budget because of Kelly's efficiency and ability to coordinate and schedule.

Assistant PM/Research Specialist, West of Devers Transmission Line Project, SCE, Riverside County, California. Kelly assisted with all project management and paleontological related services. This included proper BLM authorization and permitting to conduct surveying and a research design for field reconnaissance related to PEA, EIS/EIR documentation for the proposed transmission line. She assisted with managing documentation with laws relating to paleontological resources, among which are CEQA and NEPA compliance.

Assistant PM/Research Specialist, Grid Reliability and Maintenance for Seawolf, Thresher, and Argonaut 12 kV Distribution Lines, SCE, City of Temecula, Riverside County, California.
Kelly assisted with preparation of compliance and environmental documentation including co-authoring the final paleontological report for this project in Riverside County. This report was prepared under CEQA and Riverside County guidelines.

Assistant PM/Research Specialist, Pacific Gas and Electric (PG&E), Line 300A/MP 147.7 and 180.8 Projects, San Bernardino County, California. Kelly assisted in the preparation of mitigation recommendations and a paleontological inventory report for this project. She also assisted with and scheduled planned surveys on BLM and United States Marine Corps lands.

Assistant PM/Research Specialist, PG&E, Jefferson to Stanford No. 2 60 kV Feasibility Project, San Mateo County, California. Kelly assisted with the preparation of the paleontological resources review and paleontological inventory report (PIR) and Proponent's Environmental Assessment (PEA) for this project. Several potential routes were assessed for this project, and the feasibility and paleontological potential was determined for this project. The report and PIR were prepared according to CEQA guidelines.

Assistant PM/Research Specialist, PG&E, Line 107/131 Projects, Alameda County, California. Kelly assisted with preparation of mitigation recommendations and a paleontological inventory report for this project. She also assisted with and scheduled planned surveys of proposed pipeline locations.

Assistant PM/Research Specialist, Laguna Niguel Reliability Project, SDG&E, Laguna Niguel, Orange County. Kelly performed initial research for this Project and co-authored the final report on the monitoring efforts for this project in the Capistrano Formation.

Assistant PM/Research Specialist, ***Camp Pendleton Project, SDG&E, throughout San Diego and Orange Counties.*** Kelly provided on-call paleontological services for this project. She was a key facet in report production and research which enabled her firm to perform all survey and monitoring work required on Camp Pendleton for CEQA/NEPA check list assessments requested from SDG&E. Kelly was cleared from the Department of Defense in order to conduct work on the base. Site assessments and monitoring include all work related to: future location of power poles and towers, water control features, trenching and subsurface excavations, access roads, grading impacts to develop substations and other facilities, work pads, staging yards, and gas pipelines.

Assistant PM/Research Specialist, SDG&E Wind Interconnection Project (WIP), San Diego County, California. Kelly co-authored the paleontological mitigation portion of the Environmental Impact Report (EIR) for this project, utilizing both San Diego County and CEQA guidelines for paleontological resources.

Assistant PM/Research Specialist, LADWP-Scattergood Project, County of Los Angeles.
Kelly provided on-call paleontological support for this project. She assisted with all project aspects associated to paleontology. She co-authored a paleontological mitigation monitoring plan and assisted in scheduling the monitoring the Scattergood Olympic Line 1 Project, completed the final mitigation document for trench exploration, and performed extensive monitoring for the project.

Transportation Sector Experience

Assistant PM/Research Specialist, Paleontological Mitigation Plans (PMP) for Caltrans Cherry/Citrus Ave I-10 interchange Project — PCR/Caltrans, San Bernardino, California. Kelly conducted all aspects of surveying, and literature searches for both projects.

Water Sector Experience

Assistant PM/Research Specialist, Cadiz Ground Water Project, ESA, San Bernardino County, California. Kelly conducted all research and data collection for the Cadiz Groundwater Conservation and

Storage Project for completion of a DEIR section on paleontological resources. The project included the pipeline corridor but not the Well Field Area and Spreading Basins. Based on the results of the analysis, mitigation measures were developed and are designed to reduce potential adverse impacts to paleontological resources as a result of proposed Project construction to a less than significant level. Only one Project alternative was analyzed for impacts on paleontological resources. The paleontological analysis for the Cadiz Project is a requirement of the California Environmental Quality Act (CEQA).

Private Development Sector Experience

Assistant PM/Research Specialist, Holy Sepulchre Cemetery Expansion Project, Diocese of Orange, Santa Ana, Orange County, California. Kelly assisted with scheduling monitoring for this project, performed all project-related research, and was the co-author for the final report. The project consisted of grading and leveling several new areas for expansion of the Holy Sepulchre Cemetery, including portions that lie in paleontologically sensitive rock formations with the potential to produce fossils.

Assistant PM/Research Specialist, UC Irvine Alumni Center Project, Irvine, Orange County, California. Kelly performed all monitoring scheduling and coordination duties, as well as research and writing for the final report and the initial monitoring guidelines. This project was a high-visibility construction project for a new alumni center on the grounds of UC Irvine, in a paleontologically sensitive area.

Assistant PM/Research Specialist, Peters Canyon County Park Restrooms Project, Orange County, California. Kelly performed all paleontological monitoring scheduling and coordination duties, as well as research and writing for the final paleontological resources letter report. This project involved the leveling of a pad and significant trenching through paleontologically sensitive soils in order to install a new restroom at the northern end of this park.

Assistant PM/Research Specialist, UHS Temecula Medical Center, Tuner Construction, Temecula, Riverside County, California. Kelly was in charge of day to day scheduling, conducted occasional monitoring duties and part of the writing process for the final report.

Renewable Energy Sector Experience

Assistant PM/Research Specialist, Ocotillo Wind Express Project, ASPEN, Imperial County, California. Kelly was responsible for managing and collecting all field forms and data that was electronically mailed daily, and incorporating these forms in the final DEIR/EIS Report. She conducted all technical research and compiled both geological and compliance documentation into the final report that was then incorporated into the EIR/EIS.

Assistant PM/Research Specialist, Manzana Wind Express Project, Kern County, California. Kelly assisted in writing the Paleontological Mitigation Monitoring Resource Plan, which allowed her to develop a key role in presenting environmental training programs to construction workers and other environmental compliance monitors. She co-authored the final paleontological monitoring report. The Project's construction consisted of the installation of 107 to 300 wind energy turbines, aligned along approximately 26 rows, on the 6,275-acre proposed site. The Manzana Wind Energy Project site was found to have the potential for scientifically significant paleontological resources that could be impacted by construction-related ground disturbance. She co-authored the final paleontological mitigation report in compliance with CEQA and Kern County guidelines.

Assistant PM/Research Specialist, Pacific Wind Express Project, Kern County, California. Kelly assisted

in writing the Paleontological Mitigation Monitoring Resource Plan, which allowed her to develop a key role in presenting environmental training programs to construction workers and other environmental compliance monitors. She co-authored the final paleontological mitigation report.

PAMELA DALY

4486 University Ave., Riverside, California 92501 (951) 369-1366

Education

- Master of Science - Historic Preservation - University of Vermont, Burlington, Vermont. 1998
  Awarded Graduate Teaching Fellowship in Historic Preservation.
- Bachelor of Science - Business Administration - Elmira College, Elmira, New York. 1994

Experience and Skills

Historic Preservation

● Federal Level Projects

Section 106 – 404 Permit – Historic Context for Phase I Ballona Creek Wetlands Restoration, Culver City, CA
Section 106 – 404 Permit – Historic Resource Evaluation for Lake Street Improvements, Lake Elsinore, CA
Section 106 - 404 Permit – Historic Resource Evaluation for Foothill Parkway Extension Project, Corona, CA
Section 106 – NEPA Historic Resource Evaluation of Green Beach Trestle, San Onofre, CA
Section 106 – NHPA Historic Resource Evaluation of Brea Tracks Project, Brea, CA
Section 106 – NEPA Historic Resource Evaluation of Upper Arroyo Seco Canyon, Pasadena, CA
Section 106 – NEPA Historic Resource Evaluation of Big Santa Anita Wash, Angeles National Forest, CA.
Section 106 – NEPA Historic Resource Evaluation of a segment of the California Aqueduct, Kings County, CA.
Section 106 – Federal Highway Administration – Historic Resources Evaluation, Mitigation, and Treatment Plan for the Westside Subway Extension, Metropolitan Transportation Agency, Los Angeles, CA. Survey and evaluation of buildings, bridges, landscapes dating from 1910 to 1975 in an eight-mile long corridor.
Section 106 – U.S. Housing and Urban Development – San Bernardino Housing Agency – Historic Resource Evaluation of Waterman Housing Development, San Bernardino County, CA. Survey and evaluation of a public housing development dating from 1943.
Section 106 – Claremont Police Communication Tower, Los Angeles County, CA. Perform evaluation for siting of a communications cell tower.
Section 106 – U.S. Forest Service, San Bernardino National Forest. Developed building plans for the construction of a new recreational cabin to be constructed in a historic cabin tract. Plans reviewed and accepted by California SHPO.
Section 106 – Cobb Reservoir, Angeles National Forest, Altadena, CA. Perform a Historic Resource Survey and Eligibility Investigation of a privately owned reservoir constructed in 1910.
Section 106 – Keyes Mine and Walker Cabin, Sequoia National Forest, Keyesville, CA. Perform a Historic Resource Survey and Eligibility Investigation for structures related to the early mining days of California. The project also included the preparation of detailed drawings and structural evaluations of the stamp mill building and Walker barn.
Section 106 – Bitter Creek National Wildlife Refuge, Maricopa, CA. Perform a Historic Resource Survey and Eligibility Investigation for the Hudson Family Homestead Ranch Historic District for eligibility to the National Register. The project also included the preparation of detailed drawings and structural evaluations of the building known as “Percy’s Place”.
Section 106 – Ivanpah Valley, Eastern Mojave Desert, CA. Perform a Historic Resource Survey and Eligibility Investigation for two historic roads and a railroad line for eligibility to the National Register.
Section 106 – Army Corp of Engineers, 404 Permit Historic Resource Assessment Report of the East Garden Grove Wintersburg Channel, part of the Orange County Flood Control System, Bolsa Chica, CA.
Section 106 – Evaluate impact of proposed removal and storage of National Register-eligible object at Camp Parks Army Reserve Base, Dublin, CA.
Section 106 – Naval Air Station, North Island, San Diego, California. Historic Resources Survey and Eligibility Investigation of thirteen historic airplane hangars for eligibility to the National Register.
Section 106 - Edwards Air Force Base, California – Report of findings on 37 Historic Wells and Homesteads. Includes HAER documentation, analysis and curation of historic and pre-historic artifacts, site form preparation, archival research, Phase II and Phase III reports.

Section 106 – Air Force Research Laboratory, Mesa, Arizona – Historic Building Assessment and Evaluation Report. Project included archival research, historic context, building description and site form.

Section 106 – Army Corp of Engineers, 404 Permit review of the decommissioned Marine Corps Air Station El Toro, California. Project consisted of re-surveying 76 buildings and structures previously reviewed in 1996 for National Register Eligibility. Project included field survey, archival research, and updating site forms.

Section 106 - Nellis Air Force Base, Nevada – Historic Building Report on Capehart & Wherry Housing. Project included archival research, site forms, photography.

Section 106 - Andersen Air Force Base, Guam - Supervise archaeological subcontractors Phase III survey project for Air Force client.

Section 106 - Clear Air Force Base, Alaska – Project to create booklet, bronze plaque and outdoor interpretive signs to record the Cold War radar operations.

Section 106 – Bureau of Land Management, Kern Front Oil Fields, Bakersfield, CA - Historic Building Assessment and Evaluation Report for leaseholder. Project included archival research, historic context, building description, industrial archeology investigation and site form.

Section 106 – Army Corp of Engineers, Union Pacific Railroad - Historic Building Assessment and Evaluation Report of all the bridges and culverts located in 102 mile section. Project included field survey, archival research, historic context, bridge and culvert descriptions, and site forms.

Section 106 re-survey of decommissioned El Toro Air Station, Irvine, CA.

Section 106 review of Jim's Corner Store, Burlington, VT.

Section 106 Level 1 Reconnaissance of Jericho, VT, Rt. 15 intersection.

Section 106 Level 1 Reconnaissance of Milton, VT, sidewalk project.

Section 106 Level 1 Reconnaissance of Essex, VT, sidewalk project.

Section 106 Level 1 Reconnaissance of Town of Hartford, VT, sidewalk/bike project.

CALTRANS – Historic Resource Evaluation of Old Newport Blvd. Improvement, Newport Beach, CA

CALTRANS – Historic Resource Evaluation of Brittan School Sidewalk Improvements, Sutter, CA

CALTRANS – Historic Resource Evaluation of Interstate 10 Interchange, Coachella, CA

CALTRANS – Historic Resource Survey of APE, Route 94, Jumal, San Diego County, CA

CALTRANS – Finding of Effects for High Desert Corridor Project, Los Angeles and San Bernardino Counties

CALTRANS – Historic Resource Survey of APE for Park Avenue Bridge, Balboa Island, Orange County, CA

CALTRANS – Historic Resource Evaluation of two bridges in Madera County, CA

CALTRANS – Historic Resources Evaluation of Kentucky Avenue and Streets Widening, Woodland, CA

CALTRANS – Historic Resources Evaluation of five housing tracts and two individual resources for the Brookhurst Road Widening Project, Anaheim, CA.

CALTRANS – Historic Resources Evaluation, Lincoln Avenue Widening Project, Orange, CA.

CALTRANS – Historic Resources Evaluation, Bridge Evaluation, and Finding of Effect for Araz Bridge in the All-American Canal Historic District, Araz Junction, CA.

CALTRANS – Historic Resources Evaluation Report and Finding of Effect for the Park Once Transit Parking Structure, Redlands Santa Fe Depot Historic District, Redlands, CA.

CALTRANS – Survey and evaluation of the project corridor for the proposed Cabot-Camino Bridge, Mission Viejo, CA.

CALTRANS – Survey and evaluation of Pacific Mobile Home Park, Huntington Beach, CA.

CALTRANS – Finding of Project Effects, Victoria Avenue, Riverside, CA.

CALTRANS - Survey and evaluation of 45 buildings and structures along State Route 99, Stockton, CA.

CALTRANS - Survey and evaluation of 1915 railroad bridge for seismic repair project, El Monte, CA.

CALTRANS - Survey and evaluation of 75 buildings and structures along State Route 99, Manteca, CA.

CALTRANS - Survey and evaluation of Pacific Coast Highway Interchange, Long Beach, CA.

CALTRANS - Review of residential structures located in the project area, Red Hill Avenue, Orange County.

NYSDOT - Survey of historic bridges in Owego, Oswego and Onondaga Counties, New York.

ISTEA Historic Resource survey, Lake Champlain Railroad Causeway/Bikepath, Colchester, VT.

VSA22 Historic Resource review, Goodrich Memorial Library, Newport, VT.

VAOT Highway Resurfacing Program, Dufresne-Henry Engineers. 2001-2003.

National Register Historic Landscape survey of historic agricultural properties in Essex County, NY. Intensive level survey of 8 historic farmsteads.

National Register Nomination for Residential Historic District, Vergennes, VT. NR nomination of 110 residences and outbuildings dating ca. 1790 to 1950.
National Register Nomination of Fairfield Baptist Church, Fairfield, VT. Nomination of rural community church with ties to President Chester Arthur.
National Register nomination for Laurel Hall, Cuttingsville, VT. Nomination of private country villa, conservatory, carriage barn, and mausoleum.
Integrated Cultural Resources Management Plan (ICRMP) Update – Corona Naval Weapons Center – update historic properties treatment.
Integrated Cultural Resources Management Plan (ICRMP) Update – Seal Beach Naval Weapons Center – update historic properties treatment.
Integrated Cultural Resources Management Plan (ICRMP) Update – Fort Hunter Liggett, U.S. Army Reserves Base – update historic properties treatment.
Integrated Cultural Resources Management Plan (ICRMP) Update – Camp Parks, U.S. Army Reserves Base – update historic properties treatment.
Integrated Cultural Resources Management Plan (ICRMP) – Moffat Field, U.S. Army Real Property – create historic properties treatment for ICRMP.

● **State Level Projects**

CEQA – Historic Resource Assessment Report of Lincoln Street Improvements, Taft, CA
CEQA – Historic Resource Assessment Report of Chollas Creek Bikeway Project, San Diego, CA
CEQA – Historic Resource Assessment Report of Brookside Equestrian Center, Walnut, CA
CEQA – Historic Resource Assessment Report of George Washington School, Colton Joint Unified School District, CA
CEQA – Historic Resource Assessment Report of 985 South Hamilton Blvd., Pomona, CA
CEQA – Historic Resource Assessment Report of Oak Crest School, San Dieguito School District, CA
CEQA – Historic Resource Assessment Report of 812 North State Street, Hemet, Riverside County, CA
CEQA – Historic Resource Assessment Report of Killefer School, Orange Unified School District, Orange County, CA
CEQA – Historic Resource Assessment Report of the Dam at Lake Gregory, San Bernardino County, CA
CEQA – Historic Resource Assessment Report of 1336 – 1365 East Colorado Boulevard, Pasadena, CA
CEQA – Historic Resource Assessment Report of St. George Catholic Church (1923), Ontario, CA
CEQA – Historic Resource Assessment Report of Upper Arroyo Seco Parkway, Pasadena, CA
CEQA – Historic Resource Assessment Report for Old Schoolhouse, Azusa School District, CA
CEQA – Phase 1 Evaluation of Potential Historic Resources, West Desert Hot Springs Master Drainage Project, CA
CEQA – Historic Resource Assessment Report of 12655 Garber Street, Pacoima, Los Angeles County, CA
CEQA – Phase 1 Evaluation of Potential Historic Resources, Moorpark, CA
CEQA – Historic Resource Assessment Report of Magnolia-Plaza Substations, Riverside, CA
CEQA – Historic Resource Assessment Report of 777-779 South Coast Highway, Laguna Beach, CA
CEQA – Historic Resource Assessment Report of Granite Mountain Biology Center, University California Riverside, CA
CEQA – Historic Resource Assessment Report of UCLA Stuart House, Santa Monica, CA
CEQA – Historic Resource Assessment Report of 705 No. Camden Drive, Beverly Hills, CA
CEQA – Historic Resource Assessment Report of 56831 Olive Avenue, Thermal, CA
CEQA – Historic Resource Assessment Report of 18771 Oriente Drive, Yorba Linda, CA.
CEQA – Historic Resource Assessment Report of Beckman Coulter complex, Fullerton, CA.
CEQA – Evaluation of proposed project to Central Historic District, Pasadena, CA.
CEQA – Historic Resource Assessment Report of Palm Springs High School campus, Palm Springs, CA.
CEQA – Historic Resource Assessment Report of El Camino Community College, Torrance, CA.
CEQA – Historic Resource Assessment Report of Camp Kilpatrick Juvenile Detention Camp, Los Angeles County, CA.
CEQA – Historic Resource Assessment Report of Jordan High School, Long Beach, CA.
CEQA – Historic Resource Assessment Report of Pitchess Detention Center, Los Angeles County, CA.
CEQA – Historic Resource Assessment Report for Santa Anita Wash Debris Basin, Los Angeles County, CA.
CEQA – Historic Resource Assessment Report of Ramon Academy Administration Building, Palm Springs High School, CA.
CEQA – Historic Resource Assessment Report of Bryn Mawr Schoolhouse, Loma Linda, CA.
CEQA – Evaluation of proposed project to Irvine Regional Park, Orange County, CA.
CEQA – Historic Resource Assessment Report of Holtz Ranch property, Silverado Canyon, CA.

CEQA – Evaluation of new construction on Santa Fe Avenue, Fullerton, CA.
CEQA – Historic Resource Assessment Report of Upper Sunset Canyon Debris Basin Dam, Los Angeles County, CA.
CEQA – Historic Resource Assessment Report of 1920s adobe-brick homestead in Lancaster, CA.
CEQA – Historic Resource Assessment Report of the Glendale Courthouse, Glendale, CA.
CEQA – Historic Resource Assessment Report of the California State Printing Plant, Sacramento, CA.
CEQA – Historic Resource Assessment Report of the Olympic Tank Farm, Wilmington, CA.
CEQA – Historic Resource Assessment Report of the Swiss Ross (Albion) Dairy property, Los Angeles, CA.
CEQA – Historic Resource Assessment Report of three parcels on Cole Avenue and the El Nido Hotel, Hollywood, CA.
CEQA – Historic Resource Assessment Report of the property at 255 St. Ann's Drive, Laguna Beach, CA.
CEQA – Historic Resource Assessment Report for the properties at 625 and 641 Landfair Avenue, and 548 and 564 Glenrock Avenue, Westwood Village, CA.
CEQA – Historic Resource Assessment Report of the property at 37162 South Coast Highway, Laguna Beach, CA.
CEQA – Historic Resource Assessment Report of a 1940s self-contained sewage treatment plant, Lancaster, CA.
CEQA – Historic Resource Assessment Report for the Riverside County Economic Development Agency - Coachella Valley Rescue Mission, Indio, CA.
CEQA – Historic Resource Assessment Report for the Brookhurst Street Widening Project, Anaheim, CA.
CEQA – Historic Resource Assessment Report for Riverside County Economic Development Agency – Riviera Restaurant, Rubidoux, CA.
CEQA – Perform peer review services on documents prepared for California Energy Commission for a project in Palmdale, CA. Prepare historic context of project area, and describe potential impacts to built-environment resources and provide recommended mitigation measures.
CEQA – Historic Resource Assessment Report for 4149 Chestnut Street, Riverside, CA.
CEQA – Historic Resource Assessment Report for 942 West Holt Avenue, Pomona, CA.
CEQA – Historic Resource Assessment Report of Banning Ranch, Newport Beach, CA.
CEQA – Historic Resource Assessment Report for Centennial Ranch Project, Gorman, CA.
CEQA – Historic Resource Assessment Report of historic irrigation system, Turlock, CA.
CEQA – Historic Resource Assessment Report of 2385 South Willow Avenue, Rialto, CA.
CEQA – Historic Resource Assessment Report, Orange County Civic Center, Santa Ana, CA.
CEQA – Historic Resource Assessment Report of Los Angeles County Fire Station, Malibu, CA.
CEQA – Historic Resources Assessment Report of water diversion features, Sonoma, CA.
CEQA – Historic Resources Assessment Report for Fontana Fire Station #1, and American Legion Post 262, constructed in 1927.
CEQA – Historic Resources Assessment Report for Department of Water Resources, Redlands, CA. Record and research historic Cold War-era structures and landscape.
CEQA – Historic Resources Assessment Report of historic date and citrus farm in Coachella, CA.
CEQA – Historic Resources Assessment Report for Glendale College Expansion Project.
CEQA – Historic Resources Assessment Report of residential structure in Apple Valley, CA.
CEQA – Historic Resources Assessment Report of structures in Loma Linda, CA.
CEQA – Historic Resources Assessment Report of residence on Cedar Street, Glendale, CA.
CEQA – Historic Resources Assessment Report of 1894 carriage house in Los Angeles, CA.
CEQA – Historic Resources Assessment Report of farmhouse in the City of Moreno Valley, CA.
CEQA – Historic Resources Assessment Report of four properties on Carlton Avenue, Hollywood, CA.
CEQA - Wrightwood Housing Development – record and research historic structure located in the project ROW. Consult with San Bernardino County environmental department.
CEQA – White Springs Sulphur Pools, Riverside, CA – Phase I survey for determination of CRHR and NR eligibility.
CEQA – Fitch Avenue Bridge – Phase I survey determination of rural one-lane bridge.
CEQA –New Model Colony housing development – Phase I & II survey of rural agricultural properties, Ontario, CA.

● Local Level Projects

HABS-level documentation of Mabey Canyon Creek stone bridge, Corona, CA
Evaluation of proposed project to stone wall at 18771 Oriente Drive, Yorba Linda, CA
Construction monitoring of the Beckman Coulter project, Fullerton, CA
Evaluation of proposed project to Governor's Mansion, Sacramento, CA
HABS Level 1 documentation for Sexlinger House and Orchard, Santa Ana, CA
Construction monitoring for the Pine Valley Highway Bridge, San Diego County, CA
Evaluation of proposed alterations to Rawlins House, City Landmark Property, Fullerton, CA
HABS-level documentation for mitigation of rock walls in Irvine Regional Park, Orange County, CA.
Develop Mitigation Measures Plan (MMP) for historic resource listed on the National Register and California Register of Historic Resources, in accordance with the Secretary of the Interiors Standard of Treatment for Preservation of Historic Structures. Redlands, CA.
HAER-level documentation of Reservoir #1, Yorba Linda, CA.
HABS-level documentation of Fire Station #1, Fontana, CA.
HABS-level documentation of American Legion Post 261, Fontana, CA.
HABS level documentation of Riverock bungalows in Riverside, CA.
HABS-level documentation of The Quilt Stop, Sparks, NV.
HABS-level documentation of the Snyder Ranch, Apple Valley, CA.
Historic resource evaluation of commercial property on Euclid Avenue, Ontario, CA.
Viewscape review for proposed housing development, Reno, NV.
Historic Sites and Structures Survey for the Town of Shelburne, VT. Phase II survey of 40 residential and agricultural properties
Survey Plan for the City of Burlington, Burlington, VT. Ten-year plan for future survey work in city.
Urban Survey, 2000, City of Burlington, Burlington, VT. Phase I survey and photographs of 250 urban historic resources.
Urban Survey, 2001, City of Burlington, Burlington, VT. Phase I survey and photographs of 220 urban historic resources.
Historic Sites and Structures Survey: Phase IV for the Town of Windsor, VT. Phase II survey of 40 structures and historic context of Buena Vista District.
Historic Sites and Structures Survey: Phase V for the Town of Windsor, VT. Review of 1977 National Register nomination, proposed additions, and additional description of resources.

● Architectural Conservation Projects (per Secretary of the Interior's Standards)
Develop exterior alteration plans for alterations to Palm Springs High School Auditorium, Palm Springs, CA
Develop exterior design plans for the rehabilitation and addition to a historic cabin in the San Bernardino National Forest.
Provide consulting services to the City of LaVerne to review the proposed alterations to the auditorium in Founder's Hall on LaVerne University.
Review exterior design plans for the alteration of the Johnson Cabin in the San Bernardino National Forest.
Develop exterior design plans for the alteration of a historic cabin in the San Bernardino National Forest.
Develop exterior design plans for the rebuilding of a historic cabin in San Bernardino National Forest.
Historic Structures Report, including conditions assessment and treatment plan for 1885 Lindo Lake Boathouse, Lakeside, CA.
Historic Structures Report, including conditions assessment and treatment plan for 1887 Bancroft Rock House, Spring Valley, CA.
Historic Structures Report, including conditions assessment and treatment plan for 1865Rutland Railroad Train Station, Vergennes, VT.
Historic Structures Report for emergency stabilization of endangered historic property in Essex, NY.
Repair and restoration of early 20th century house in Riverside, CA.
Architectural repair specifications for the 1805 Bradley Law Office, Westminster, VT
Project management of early 19th century house rehabilitation, St. Albans, VT.
Repairs and maintenance of converted barn in Ithaca, NY.
Historic paint finishes analysis for Town of Rockingham, VT.
Historic paint finishes analysis for Middlebury Town Hall, VT.

Historic paint finishes analysis for Labor Union Hall, Barre, VT.
Repair and restoration of cast iron fence for Greystone Mansion, Essex, NY.
Photo survey of Labor Union Hall, Barre, VT, prior to rehabilitation.
Evaluation and research of historic colonial tannery structure in Essex, NY.
Rehabilitation of 19th century barn for use as residence, Trumansburg, NY.

● **Historic Preservation Educational Projects**

Presentation to the Orange County Association of Environmental Professionals (AEP) "Current Issues with CEQA and Historic Resources."
Presentation to the Mission Inn Museum – "Hidden Histories."
Presentation to the Moreno Valley Historical Society – "Explaining Historic Resource Eligibility Criteria."
Presentation to the U.S. Forest Service – Region 5, "Evaluating Historic Resources."
Create text on the history of the San Antonio Valley after 1850 for Fort Hunter Liggett Army Reserve.
Education and slide presentation of American architectural styles.
Education and slide presentation of California revival architectural styles.
Walking tours of Windsor, Vergennes and Shelburne, Vermont.
Research paper on decorative historic painted finishes created in Vermont public buildings during the late 19th century.

● **Other Preservation Projects:**

Adaptive Reuse – Downtown Development Project for six historic structures in Morrisville, VT.
Develop Revised Design Review and Zoning Guidelines, City of Burlington, VT. Part of team to develop guidelines for protecting historic resources in the city.
Presenter at Vermont Historic Preservation Conference on Industrial Archeology and site research.
Developed and implemented educational tours and day programs of historic sites and properties.
Awarded grant proposals for educational and historic preservation projects.
Developed and designed fundraising and publicity brochures.

● **Preservation Skills**

Maintenance and repairs to historic structures including painting, mortar analysis, mortar repointing, and plaster repair.
Historic Structures Reports - condition assessment reports.
Use of the Secretary of the Interiors Standards for the restoration, rehabilitation, or restoration of historic buildings.
Historical paint analysis (chromochronology).
Research of historic structures using deeds, wills, public records and archival documentation.
Nomination of historic sites and structures for the National Register of Historic Places.
Section 106 and 110 of the National Historic Preservation Act.
Federal Historic Preservation Tax Incentive program.
California "Mills Act" historic preservation program.

Business Management/Accounting

- Over 25 years experience in financial management and accounting.
- Competence in all accounting aspects: profit and not-for-profit organizations.
- Successful grant writing and funding from state, private and federal agencies.
- Extensive experience corresponding with federal, state, county and private organizations regarding agency fiscal requirements.
- Analyzed the efficiency of business internal accounting systems, implementing procedures to improve financial accuracy and operating cost-effectiveness.

Financial Project Management/Supervision

- Managed agency and individual project budgets from $350,000 to $2.5 million.
- Responsible for overseeing budget and direct labor requirements of Government contracts.
- Financial project management for 26 concurrent projects valued at $29 million.
- Coordinated five departments to meet financial and organizational goals.
- Supervised eight project managers to meet contractual agreements.
- Negotiated prime and sub-contractor agreements and purchase orders.
- Qualified contract specialist with U.S. Department of Defense, NASA and National Park Service. Experience with FAR, DFAR and associated regulations.

Employment History

2005 - present	Architectural Historian Consultant	Daly & Associates, Riverside, CA.
2003 – 2005	Sr. Architectural Historian	Earth Tech, Inc., Colton, CA.
1998 to June 2003	Architectural Historian Consultant	Daly & Associates, Shelburne, VT.
1998 (two semesters)	Teaching Assistant	Historic Preservation Dept., University of Vermont
1989 - 1997	Director of Contracts	Odyssey Research Assoc., Inc., Ithaca, NY.
1987 - 1989	Senior Corporate Accountant	Emerson Power Transmission, Ithaca, NY.

Volunteer History

1999– 2003	Commission Member – Town of Shelburne, Vermont Historic Preservation Design Review Board.
1996 - 1997	President - Board of Directors, Historic Ithaca, NY.
1993 - 1996	Board Member, Secretary, Historic Ithaca, NY.

Professional Affiliations

APT – Association for Preservation Technology
CCPH – California Council for the Promotion of History
CPF - California Preservation Foundation
LTA - Land Trust Alliance
NTHP - National Trust for Historic Preservation - Forum Member
SIA - Society for Industrial Archeology
VAF - Vernacular Architecture Forum

Appendix B:
Cultural Resources
Records Search Results

This resource was recorded in 2012 by M. Dice as the open-air Cypress Channel, which was likely dug before 1938 to remove excess water out of orchards (Dice 2012). P-36-024903 was observed, as previously recorded during a survey by ICF archaeolgoists (2017) and appears to be currently used by the El Prado Golf Course for channeling runoff water. Only the portion running underneath and approximately 150 feet on either side of Pine Avenue was included in this 2017 survey. Modern culverts appear to have been added for sections of the channel undercutting portions of golf cart access roads for the El Prado Golf Course. Ornamental vegetation including palms were observed on either side of Pine Avenue along this earthen channel. This resource was previously found to be ineligible for inclusion in the NRHP and CRHR, which was supported by the most current survey.

Overview of P-36-024903 including modern culverts, facing north.

Resources:

Dice, M.
2012 DPR form P-36-024903. On file at the South Central Coastal Information Center.

Droessler, R. and P. McGinnis
2017 Pine Avenue Extension Project Archaeological Survey Report, City of Chino, San Bernardino County.

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State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # 36-024903
HRI #
Trinomial: H

NRHP Status Code: 6Z
Other Listings | Review Code | Reviewer | Date

*Resource Name or #: Cypress Channel

P1. Other Identifier:
*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County: San Bernardino

*b. USGS 7.5' Quad: Prado Dam, CA. and Ontario, CA. Date: 1981 and begin T.3S R.7W, (Section 6) and ends T.2S R.7W, (Section 6.) S.B.B.M.
c. Address: City: Zip:
d. UTM: South end of Flood Control waterway joins with Chino Creek at 439594mE/3755740mN (Euclid Avenue) and the north end of the flood control waterway begins at a storm drain opening at 440352mE/3765224mN. Zone 11. Note: Points taken with GoogleEarth aerials, NAD 1984.
e. Other Locational Data: Flood Control Facility 1-901-1A, 1-901-1C and 1-905-6B. Elevation: 820-510 feet ASL.
*P3a. Description: Located in east Chino and south Ontario, historic aerial photographs disclose that the Cypress Channel was a long ditch and trench very likely dug before 1938 that was used to remove excess water out of orchards in Ontario and fields in Chino. Today, the open-air portion of the channel begins at the corner of Walnut and Sultana where runoff from a storm drain buried below Sultana is deposited. County Flood Control has built a modern asphalted box culvert in this section of the channel. At this point waters run southwest in the culvert following the track of a former historic-era railroad branch line, through an undercrossing below Euclid, then into another v-shaped concrete box culvert, thence to a turn south at Riverside Drive, whereupon the channel runs directly south and across California Correctional Facility properties. The channel remains a concrete culvert until reaching a point just west of the Majestic project site, whereupon it becomes a shored trench, which quite likely represents the original condition of the channel during the 1938 historic period. Just before passing beneath Kimball Avenue, it again returns to a concrete v-shaped culvert and winds its way south until the channel reaches the El Prado Golf Course. Water then winds through the golf course in what appears to have been the original wash channel, joins with Chino Creek at Euclid and eventually merges with the floodplain of the Prado Basin.

*P3b. Resource Attributes: HP11
*P4. Resources Present: ☐ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other
P5b. Description of Photo: View north of the unmodified Cypress Creek channel from Kimball Avenue.

*P6. Date Constructed/Age and Sources: ☒ Historic ☐ Prehistoric ☐ Both

*P7. Owner and Address: San Bernardino County Flood Control

*P8. Recorded by:
M. Dice, M.A.
Michael Brandman Associates
621 E Carnegie Dr, Suite #100
San Bernardino, CA. 92408

*P9. Date Recorded:
August 22, 2012
*P10. Survey Type: CEQA level Phase 1 survey.
*P11. Report Citation: Dice, M.H. 2012. Phase 1 Cultural Resource Survey of the Majestic Airport Center Project, City of Chino, California. Draft dated August 22, 2012.

*Attachments: ☐ NONE ☒ Location Map ☐ Sketch Map ☐ Continuation Sheets ☒ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☒ Photograph Record ☐ Other (List):

*Resource Name or #: Cypress Channel
B1. Historic Name: unknown
B2. Common Name:
B3. Original Use: Runoff drain for orchards, fields and roads.
B4. Present Use: Flood control channel
*B5. Architectural Style: None
*B6. Construction History: (*Construction date, alterations, and date of alterations*)

According to a 1938 aerial photograph found at "www.netr.com" the Cypress Channel may have begun as a simple ditch along a spur railroad originating at a Sunkist packinghouse at Sunkist and Monterey south of the Ontario downtown core. The old spur railroad grade, known on the 1912 USGS *Ontario, CA.* topographic map as the *Southern Pacific Railroad Chino Branch* ran roughly south from the packinghouse parallel to what is now Monterey Avenue (in the 1938 photo, the tracks have clearly been removed but the grade scar remains) then southwest until ending at the railroad sidings just south of the downtown portion of Chino where other packing houses were located. The railroad grade ran through numerous small orchards located on relatively flat land, and a ditch would have been necessary to shunt water away from the grade. The ditch appears to have become a formal excavated and probably cut and shored channel just south of the corner of what is now Fern and Blue Jay Way a little east of Euclid in northeast Chino. At that time, a second railroad line (this appears to have been the then-active *Chino Valley Narrow Gauge Railway* - which ran down the middle of Euclid Avenue) plus another drain paralleling Fern Avenue merged to form a formal channel along the north side of the narrow gauge railway tracks. At Cypress Avenue, the channel turned and ran due south through orchards and fields, similar to that observed near the project site. This channel appears constructed in the same manner until reaching Kimball Avenue, whereupon it becomes a very natural-looking wash channel that winds its way through the bottomlands between Chino Creek and Cucamonga Wash in an area that is now known as the 200-year flood reservoir of the Prado Basin. At time of the 1938 photograph, Prado Dam has not yet been built.

Only that portion of the Cypress Channel adjacent to the Majestic project area as well as certain unshored sections in the El Prado Golf Course appears original compared with the 1938 image, while the rest of the channel has been modified to concrete through regional flood control efforts. *This remains the only segment of the channel evaluated for significance. The El Prado section has not* been previously recorded.

Near the Majestic project site, the channel consists of a trench cut to about 10 feet below existing grade using heavy equipment, then shoring in the form of cut railroad ties and wire netting had been placed along the edges of the cut channel so as to hold back erosional deterioration. Soils located below the plow zone of adjacent properties can be observed, but an extensive amount of dumping had occurred due to the open nature of the channel in this area. Piles of concrete, vegetation, wood and trash can be observed.

Channels such as these were built during the historic period purely as a way of removing unwanted water from roadways, railroads and developed lots with impermeable surfaces. Because regional (County) flood control management had not been authorized by the State until 1939, runoff from orchards, fields and the streets of cities was typically sent to the nearest creek or river that was nearby by local authorities. In the case of Chino and Ontario, runoff was an increasingly cumbersome problem because these towns were built on ancient alluvial fan sediments east of Chino Creek and north of the Santa Ana with a drop in grade typically about 50-60 feet per mile (55/5280) or about 1% slope. Few natural creeks or drainages existed in this area so flooding and damage to existing roadways and orchards was often extensive during intense storms, especially when flood waters would develop and flow out of the San Gabriel Mountains to the north.

There is no evidence that this flood control engineering structure was created by a significant local person, nor is it known exactly when it was first constructed. Events that are reflected by its existence as an engineered structure are uniquely significant to the history of flood control in the Chino-Ontario region because most of the old channels have been converted to concrete culverts. However, the loss of integrity in the whole of the channel since 1938 is nearly complete. The section of Cypress Channel directly adjacent to the project site represents the only original *portion of the old channel that exists: the remainder has been modernized by San Bernardino* County Flood Control. Therefore the integrity of the facility since the earliest period we know about (1938 and before) has been lost to the point where the whole of the channel no longer reflects the historical period. The location of the old channel is marked by a permanent culvert

*B7. Moved? ☒ No ☐ Yes ☐ Unknown Date: Original Location:

*B8. Related Features: None

B9a. Architect: none. b. Builder: unknown

*B10. Significance: The intact segment from the historic period is nonsidered not significant at the Local and State level of analysis through survey evaluation.

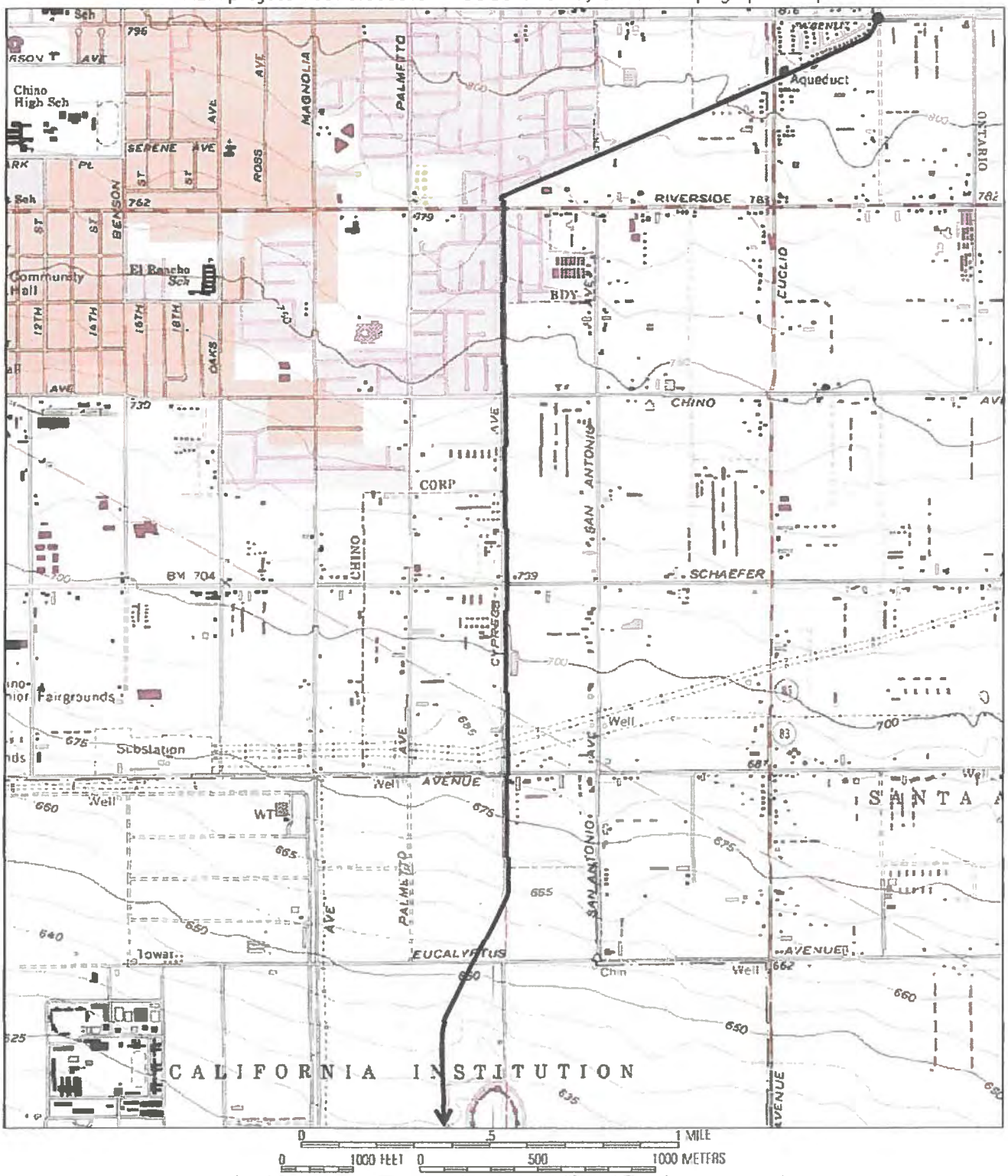
State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP, northern portion

Primary # 36-024903
HRI#
Trinomial:

Resource Name or #: Cypress Channel

MBA project #0576.0039.0 - USGS Ontario, CA. 7.5' topographic map



Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

Note: map to scale. North is up. Black line shows location of Cypress Channel as of about 1938.

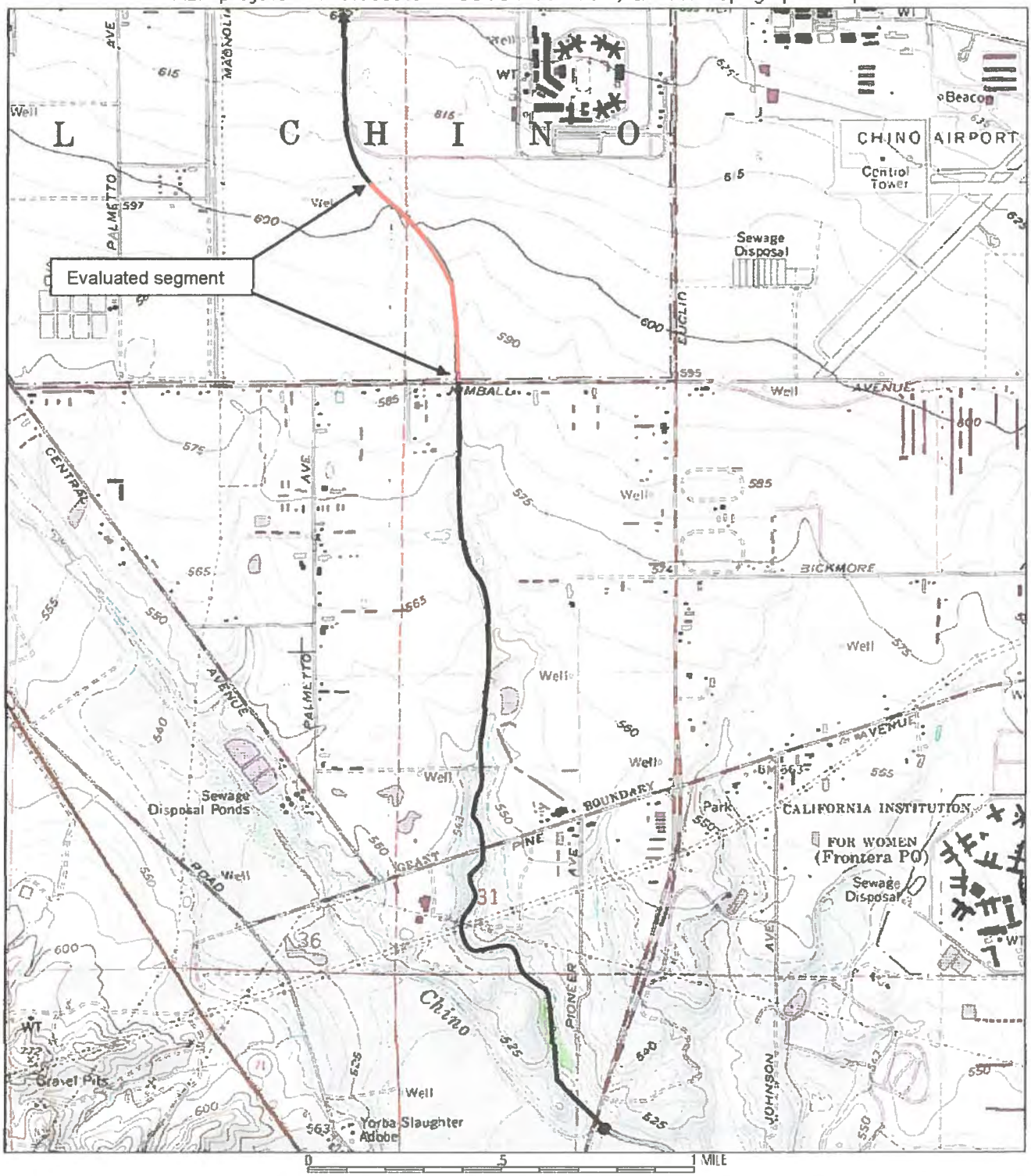
State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP, northern portion

Primary # 36-024903
HRI#
Trinomial:

Resource Name or #: Cypress Channel

MBA project #0576.0039.0 - USGS Prado Dam, CA. 7.5' topographic map



Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

Note: map to scale. North is up. Black line shows location of Cypress Channel as of about 1938 and red line shows the historical segment evaluated for the Majestic project.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PHOTOGRAPHIC RECORD

Primary # 36-024903
HRI#
Trinomial:

Resource Name or #: Cypress Channel

View south of the Cypress Channel north of Kimball showing the cut walls, railroad tie shoring and wire fence.

View north-northwest of the Cypress Channel showing the cut walls, railroad tie shoring and wire fence.

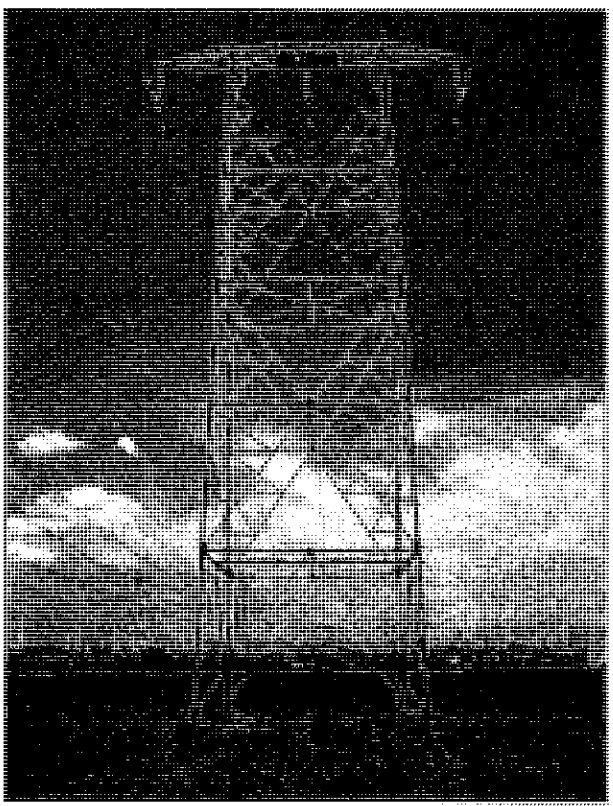
State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary#: 36-025440
HRI #:
Trinomial: H
NRHP Status Code: 6Z
Other Listings:
Review Code _____ Reviewer _____ Date _____

Page 1 of 5 ***Resource Name or #** Southern California Edison Company (SCE) Chino-Mira Loma No. 1 Transmission Line
P1. Other Identifier:
***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted**
***a. County** San Bernardino + GUAST 1
***b. USGS 7.5' Quad: Ontario & Prado Dam** Date: 1967 photo revised 1981 **T** _; **R** _; _ ¼ **of** _ ¼ **of Sec** _; __**B.M.** _____
c. Address: n/a City: n/a Zip: n/a T2S R7W SW
d. UTM: (Give more than one for large and/or linear resources) Zone 11, _____ mE/ _____ mN
e. Other Locational Data:

***P3a. Description:**
The subject property is an approximate 12-mile 220kV electrical transmission line connecting the Southern California Edison Company's Chino and Mira Loma substations. The circuit is comprised of the transmission cables and their supporting towers as well as a grounding system. The line was originally designed with two parallel lines of single circuit towers; however in 1979 the eastern two-mile segment was converted to a single line of double circuit towers. The towers, which are the steel lattice type, are the most obvious feature of the transmission line. They are "T" shaped, holding the transmission cables in a horizontal array across their top. The towers were designed to be modular and their heights vary based on the given topography of their location, however they are typically approximately 90 feet tall. Each tower has four legs, approximately twenty feet apart, and rest on simple concrete footings. Spacing, like their height, varies based on topography, but they are generally installed 1,200 feet apart. Coil mount insulators provide connection between the transmission cables and the towers.

***P3b. Resource Attributes:** HP11: Engineering Structure (Transmission Line)
***P4. Resources Present:** ☐Building ☑Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)



***P5b. Description of Photo:**
Contemporary view of the Chino-Mira Loma No.1 220 kV Transmission Line. Image Source: Matthew Wetherbee, SCE Contingent Archaeologist / PCR Services, Inc.

***P6. Date Constructed/Age and Source:**
☑Historic, 1937 -1979
☐ Prehistoric
☐ Both

***P7. Owner and Address:**
Southern California Edison Co.
2244 Walnut Grove Avenue
Rosemead, CA 91770

***P8. Recorded by:**
Wendy L. Tinsley Becker, AICP, RPH, Principal
Urbana Preservation & Planning, LLC
3525 4th Avenue, San Diego, CA 92103
619-543-0693/Phone
248 3rd Street #841, Oakland, CA 94607
510-663-7443/Phone

***P9. Date Recorded:**
June 2010

***P10. Survey Type:**
Intensive Level
(CEQA / NHPA §106 Survey)

***P11. Report Citation:** Urbana Preservation & Planning, LLC, *Southern California Edison Company's Tehachapi Renewable Transmission Project Historic Infrastructure Eligibility Evaluation – NRHP/CRHR Review Chino-Mira Loma No. 1 220kV Transmission Line*, July 2010.

***Attachments:** ☐NONE ☑Location Map ☐Continuation Sheet ☑Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #: 36-025440
HRI #:

BUILDING, STRUCTURE, OBJECT RECORD

Page 2 of 5 ***Resource Name or #** SCE Chino-Mira Loma No. 1 220kV Transmission Line ***NRHP Status Code:** 6Z

B1. Historic Name: Chino-Mira Loma No.1 220 kV Transmission Line
B2. Common Name: Chino-Mira Loma No.1 220 kV Transmission Line
B3. Original Use: Electrical Transmission Line
B4. Present Use: Electrical Transmission Line
***B5. Architectural Style:** Utilitarian / Steel Lattice Tower
***B6. Construction History:** Original parallel two line single circuit constructed in 1937. Several towers were replaced in 1940. Over the years minor changes/maintenance activities completed to the lines as required, including the replacement of insulators in 1953. In 1979, the eastern two miles of line was rerouted and converted from a single to a double circuit configuration, which included the removal of seven towers (which were reused on the Mira Loma-Vincent 500kV transmission line), the relocation of two towers and addition of one new tower.
***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** _____ **Original Location:**
***B8. Related Features:** The Chino and Mira Loma substations that the line physically connects to.
B9a. Architect: Southern California Edison Company **b. Builder:** Southern California Edison Company
***B10. Significance: Theme:** N/A **Area:** N/A
Period of Significance: N/A **Property Type:** Engineering Structure **Applicable Criteria:** N/A

The Chino-Mira Loma No. 1 220kV Transmission Line does not appear to be eligible for inclusion on the California Register of Historical Resources or the National Register of Historic Places. No information was found during the course of historical research to support a positive eligibility statement for the transmission line or its steel lattice transmission towers. The line was not identified as having a direct association with the historic elements or construction period at the Chino Substation (1912-1920s), nor was the transmission line found to relate to the City of Chino or the City of Ontario's outward expansion or growth patterns. The Chino-Mira Loma Transmission Line was not found to be technologically or materially innovative within the history of electrical transmission and voltage systems, and additional research of the line would not appear to provide additional information that would be considered important to the history of Chino, Ontario, San Bernardino County, the Southern California Inland Empire region, California, or the nation.

The Chino-Mira Loma No. 1 220kV Transmission Line does not appear to meet the definition of a historic property under the National Historic Preservation Act or a historical resource under the California Environmental Quality Act. Future undertakings or discretionary projects proposed along the line, including replacement of existing cables or steel towers, would not appear to cause a significant adverse effect or cause a substantial adverse change in the significance of a historic property or historical resource.

B11. Additional Resource Attributes: None
***B12. References:** Southern California Edison Company, Civil Engineering Group – Chino-Mesa Transmission Line files. Edison Electric Institute Bulletin, *Developments in Electrical Transmission*, 327-329. (http://www.eei.org/industry_issues/industry_overview_and_statistics/history/Entering7thDecade.pdf)
B13. Remarks: None.
***B14. Evaluator:** Wendy L. Tinsley Becker, AICP, RPH, Principal, Urbana Preservation & Planning, LLC
***Date of Evaluation:** June 2010

See Location Maps included as Pages 3-5.

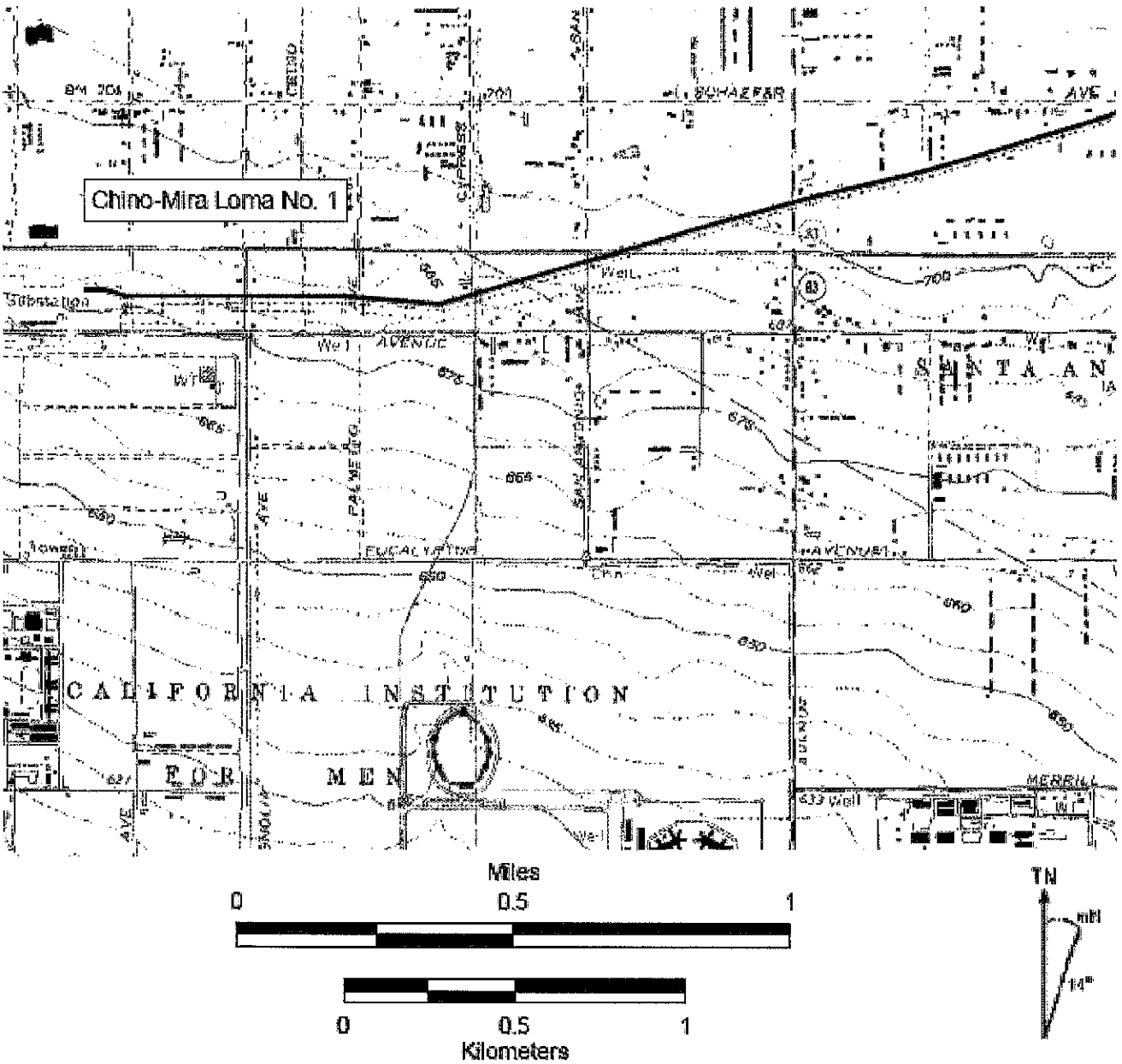
Official Comments:

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary#: 36-025440
HRI #:
Trinomial:

 *Resource Name or # SCE Chino-Mira Loma No. 1 220 kV Transmission Line *NRHP Status Code: 6Z
*Map Name: Ontario & Prado Dam *Scale: 1:24000 *Date of Map: 1967 Revised 1981/1981



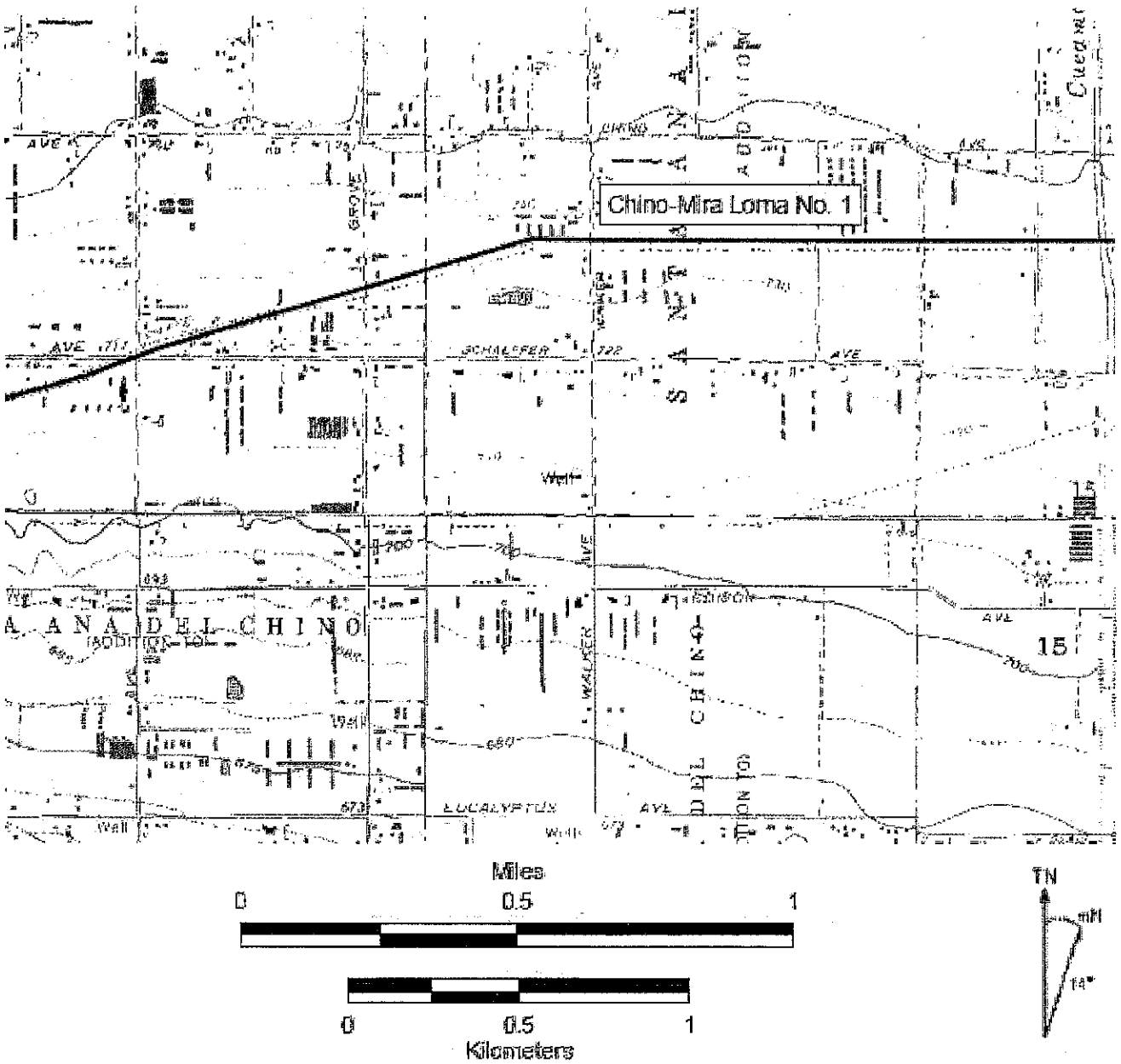
Showing the general location of the Chino-Mira Loma No. 1 Transmission Line (Map 1 of 3).

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary#: 36-025440
HRI #:
Trinomial:

 *Resource Name or # SCE Chino-Mira Loma No. 1 220 kV Transmission Line *NRHP Status Code: 6Z
*Map Name: Ontario & Prado Dam *Scale: 1:24000 *Date of Map: 1967 Revised 1981/1981



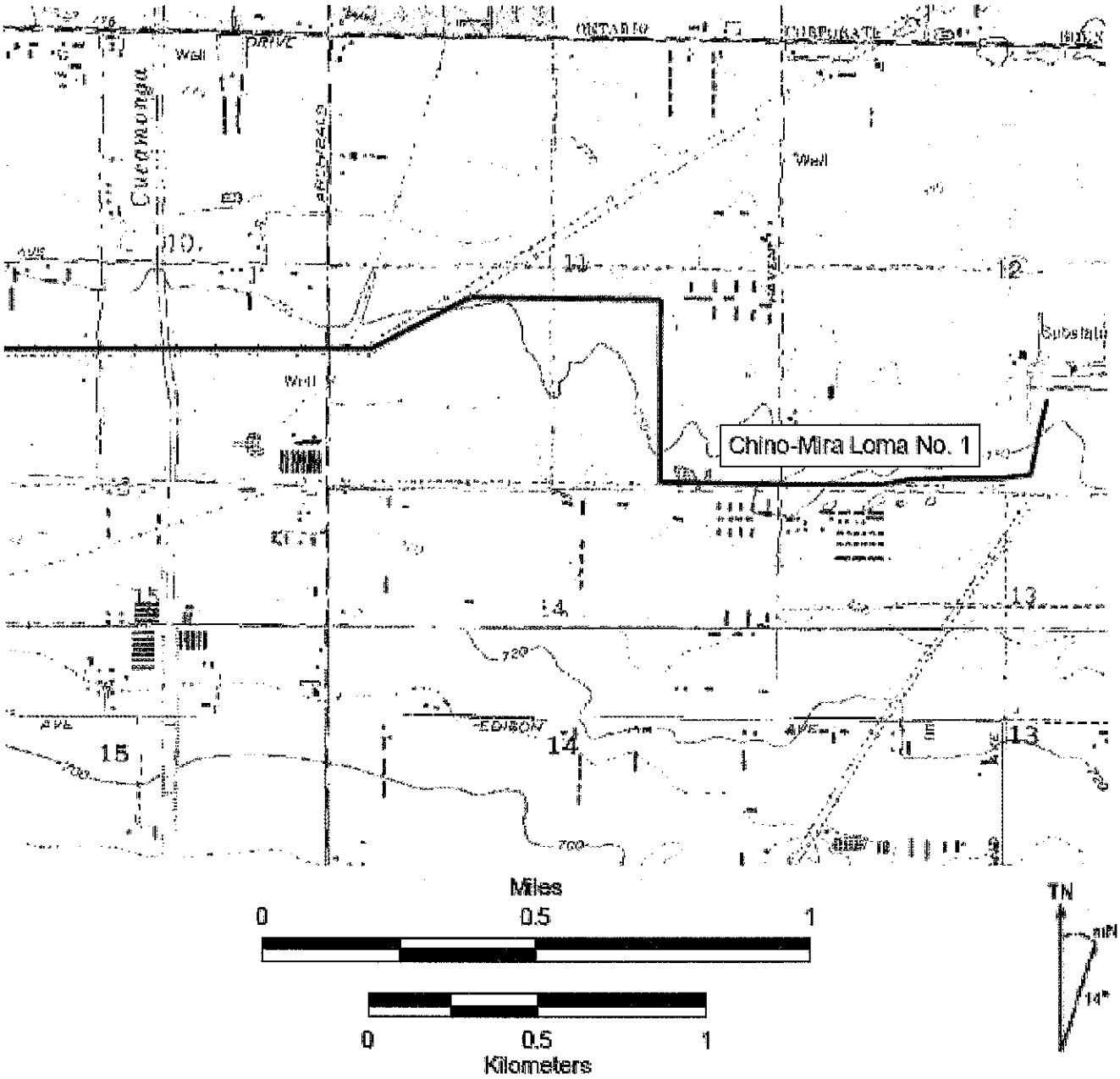
Showing the general location of the Chino-Mira Loma No. 1 Transmission Line (Map 2 of 3).

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary#: 36-025440
HRI #:
Trinomial:

Page 5 **of** 5 ***Resource Name or #** SCE Chino-Mira Loma No. 1 220 kV Transmission Line ***NRHP Status Code:** 6Z
***Map Name:** Ontario & Prado Dam + GUEST ***Scale:** 1:24000 ***Date of Map:** 1967 Revised 1981/1981



Showing the general location of the Chino-Mira Loma No. 1 Transmission Line (Map 3 of 3).

Appendix C:
NAHC and Native American Correspondence

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Eucalyptus East

County: San Bernardino

USGS Quadrangle Name: Ontario and Prado Dam

Township: 02S **Range:** 07W **Section(s):** 19

Company/Firm/Agency: Material Culture Consulting, Inc.

Street Address: 2701-B N. Towne Ave.

City: Pomona **Zip:** 91767

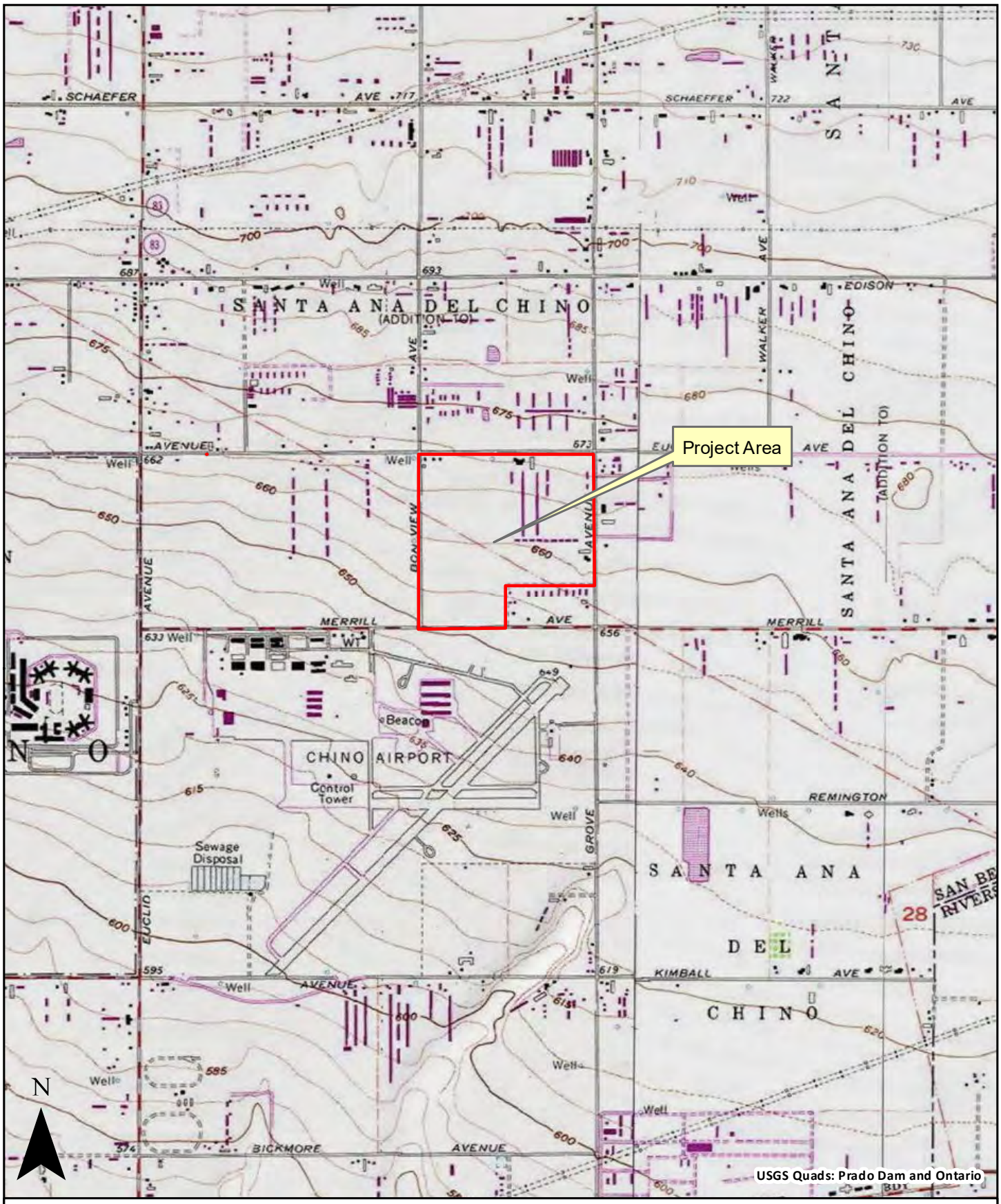
Phone: 626-205-8279

Fax: 626-205-8279

Email: tria@materialcultureconsulting.com

Project Description:

This project proposes the construction of an Industrial Park in Ontario, CA. Please see the attached topo map for a more detailed location.



Project Area

0 0.25 0.5 1 Miles

0 0.25 0.5 1 Kilometers

1:24,000

MATERIAL CULTURE CONSULTING

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone: (916) 373-3710
Email: nahc@nahc.ca.gov
Website: http://www.nahc.ca.gov
Twitter: @CA_NAHC

October 10, 2018

Allison Hill
Material Culture Consul.
2701-B N.Towne Ave.
Pomona, CA 91767

VIA Email: allison@materialcultureconsulting.com

RE: Eucalyptus East

Dear Ms. Hill;

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: Katy.Sanchez@NAHC.ca.gov.
Sincerely,

Katy Sanchez

Associate Environmental Planner
Attachment

Cc: tria@materialcultureconsulting.com

Native American Heritage Commission
Native American Contacts List
10/09/2018

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 — Gabrielino
Covina ,CA 91723
admin@gabrielenoindians.org
(626) 926-4131

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 — Gabrielino Tongva
San Gabriel ,CA 91778
GTTribalcouncil@aol.com
(626) 483-3564 Cell
(626) 286-1262 Fax

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 — Gabrielino Tongva
Los Angeles ,CA 90012
sgoad@gabrielino-tongva.com
(951) 807-0479

Morongo Band of Mission Indians
Denisa Torres, Cultural Resources Manager
12700 Pumarra Road — Cahuilla, Serrano
Banning ,CA 92220
dtorres@morongo-nsn.gov
(951) 849-8807

Morongo Band of Mission Indians
Robert Martin, Chairperson
12700 Pumarra Road — Cahuilla, Serrano
Banning ,CA 92220
(951) 849-8807
(951) 922-8146 Fax

San Fernando Band of Mission Indians
Donna Yocum, Chairperson
P.O. Box 221838 — Fernandeno, Tataviam, Serrano, Vanyume, Kitanemuk
Newhall ,CA 91322
ddyocum@comcast.net
(503) 593-0933
(503) 574-3308

San Manuel Band of Mission Indians
Lee Clauss, Director-CRM Dept.
26569 Community Center Drive — Serrano
Highland ,CA 92346
lclauss@sanmanuel-nsn.gov
(909) 864-8933
(909) 864-3370 Fax

San Manuel Band of Mission Indians
Lynn Valbuena
26569 Community Center Dr. — Serrano
Highland ,CA 92346
(909) 864-8933

Serrano Nation of Mission Indians
Goldie Walker, Chairperson
P.O. Box 343 — Serrano
Patton ,CA 92369

(909) 528-9027

This list is current as of the date of this document and is based on the information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code,Section 5097.94 of the Public Resources Code, or Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American Tribes for the proposed: Eucalyptus East, San Bernardino County,

October 24, 2018

Andrew Salas, Chairperson
Gabrieleno Band of Mission Indians-Kizh Nation
P.O. Box 393
Covina, CA 91723

RE: Proposed Ontario Ranch Commerce Center Project, City of Ontario; Ontario and Prado Dam USGS Quadrangle, San Bernardino County, California.

Greetings,

This Project proposes to convert multiple parcels of land into new warehouse facilities in the City of Ontario, San Bernardino County, California (see attached map). Material Culture Consulting, Inc (MCC) is conducting the cultural resources review of the project to support preparation of the environmental documents. As part of our background research, we would like to request your input on potential cultural resources within the project area. This request is not part of any formal local, state, or federal consultation process.

Our firm contacted the Native American Heritage Commission (NAHC) on July 19, 2018 to request review of the Sacred Lands File and for a list of tribes with traditional lands and/or cultural places within the area. The NAHC responded on July 25, 2018, stating that the Sacred Lands File review resulted in negative results, and provided your contact information as part of the list. We understand that negative results do not preclude the existence of cultural resources, and that a tribe may be the only source of information regarding the existence of a tribal cultural resource, which is why we are contacting you.

Project Location and Description

The proposed project is located at the northwest corner of the intersection of Eucalyptus Avenue and S. Grove Avenue, bounded by Eucalyptus Avenue to the north, S. Grove Avenue to the east, Bon View Avenue to the west, and Merrill Avenue to the south (see attached map). The area of potential impact (API) includes a total of approximately 126.8 acres and located within Section 19 of Township 2 South and Range 7 West (San Bernardino Base Meridian).

Please respond at your earliest convenience if you wish to share any knowledge of cultural resources within or adjacent to the API. Any information, concerns, or recommendations regarding cultural resources within the API can be shared with me via telephone, email, or via standard mail. Thank you very much for your assistance.

Kindest regards,

Tria Belcourt, M.A., RPA
President and Principal Archaeologist
626-205-8279
tria@materialcultureconsulting.com

Map of Proposed Eucalyptus East Project, as depicted on Ontario and Prado Dam USGS 7.5-minute Quadrangle.

Gmail by Google

Sonia Sifuentes <sonia@materialcultureconsulting.com>

Fwd: Ontario Ranch Commerce Center Project

Tria Belcourt <tria@materialcultureconsulting.com> Thu, Nov 1, 2018 at 10:18 AM
To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Please see below from Jessica. Thanks!

Tria Belcourt, M.A., RPA # 917250
President and Principal Archaeologist

Material Culture Consulting, Inc.
Certified DBE/WBE/SBE

2701-B North Towne Avenue
Pomona CA, 91767
Phone: 626-205-8279
Fax: 626-249-0479

www.materialcultureconsulting.com
tria@materialcultureconsulting.com

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---------- Forwarded message ---------
From: **Tria Belcourt** <tria@materialcultureconsulting.com>
Date: Thu, Nov 1, 2018 at 10:17 AM
Subject: Re: Ontario Ranch Commerce Center Project
To: Jessica Mauck <JMauck@sanmanuel-nsn.gov>

Thank you for your response. Hope you are doing well!

Tria Belcourt, M.A., RPA # 917250
President and Principal Archaeologist

Material Culture Consulting, Inc.
Certified DBE/WBE/SBE

2701-B North Towne Avenue
Pomona CA, 91767
Phone: 626-205-8279
Fax: 626-249-0479

www.materialcultureconsulting.com
tria@materialcultureconsulting.com

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On Thu, Nov 1, 2018 at 10:16 AM Jessica Mauck <JMauck@sanmanuel-nsn.gov> wrote:

> Hi Tria,
>
> Thank you for contacting the San Manuel Band of Mission Indians (SMBMI) regarding the above referenced project. SMBMI appreciates the opportunity to review the project documentation, which was received by our Cultural Resources Management Department on 31 October 2018. The proposed project is located outside of Serrano ancestral territory and, as such, SMBMI will not be requesting consulting party status with the lead agency or requesting to participate in the scoping, development, and/or review of documents created pursuant to these legal and regulatory mandates.
>
> Regards,
>
> THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination or copying of this communication is strictly prohibited. If you have received this electronic transmission in error, please delete it from your system without copying it and notify the sender by reply e-mail so that the email address record can be corrected. Thank You
>
> Jessica Mauck
> CULTURAL RESOURCES ANALYST
> O: (909) 864-8933 x3249
> M: (909) 725-9054
> 26569 Community Center Drive Highland California 92346
> SAN MANUEL BAND OF MISSION INDIANS

MORONGO BAND OF MISSION INDIANS
TRIBAL HISTORIC PRESERVATION OFFICE
12700 PUMARRA RD BANNING, CA 92220
OFFICE 951-755-5259 FAX 951-572-6004

Date: 11/2/2018

Re:
Ontario Ranch Commerce Center

Dear,
Tria Belcourt
President and Principal Archaeologist
Material Culture Consulting

Thank you for contacting the Morongo Band of Mission Indians (MBMI) Cultural Heritage Department regarding the above referenced project(s). After conducting a preliminary review of the project, the tribe would like to respectfully issue the following comments and/or requests:

☒ The project is located within the Tribe's aboriginal territory or in an area considered to be a traditional use area or one in which the Tribe has cultural ties. In order to further evaluate the project for potential impacts to tribal cultural resources, we would like to formally request the following:

- ☒ A thorough records search be conducted by contacting one of the California Historical Resources Information System (CHRIS) Archaeological Information Centers and a copy of the search results be provided to the tribe.
- ☒ Tribal monitor participation during the initial pedestrian field survey of the Phase I Study of the project and a copy of the results of that study. In the event the pedestrian survey has already been conducted, MBMI requests a copy of the Phase I study be provided to the tribe as soon as it can be made available.

Please include this response in your report to your client.

Sincerely,

Travis Armstrong
Tribal Historic Preservation Officer
Morongo Band of Mission Indians
Email: tpho@morongo-nsn.gov
Phone: (951) 755-5259

Gmail by Google

Sonia Sifuentes <sonia@materialcultureconsulting.com>

Fwd: Proposed Ontario Ranch Commerce Center Project

1 message

Tria Belcourt <tria@materialcultureconsulting.com> Wed, Nov 7, 2018 at 2:46 PM
To: Sonia Sifuentes <sonia@materialcultureconsulting.com>, Allison Hill <allison@materialcultureconsulting.com>, Julia Carvajal <julia@materialcultureconsulting.com>

Please see below. Thank you,

Tria Belcourt, M.A., RPA # 917250
President and Principal Archaeologist

Material Culture Consulting, Inc.
Certified DBE/WBE/SBE

2701-B North Towne Avenue
Pomona CA, 91767
Phone: 626-205-8279
Fax: 626-249-0479

www.materialcultureconsulting.com
tria@materialcultureconsulting.com

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---------- Forwarded message ---------
From: **Tria Belcourt** <tria@materialcultureconsulting.com>
Date: Wed, Nov 7, 2018 at 2:45 PM
Subject: Re: Proposed Ontario Ranch Commerce Center Project
To: Padilla, Lacy (TRBL) <lpadilla@aguacaliente.net>

Greetings Ms. Padilla,

Thank you for your reply! We will make sure to note this in our report.

Kindest regards,

Tria Belcourt, M.A., RPA # 917250
President and Principal Archaeologist

Material Culture Consulting, Inc.
Certified DBE/WBE/SBE

2701-B North Towne Avenue
Pomona CA, 91767
Phone: 626-205-8279
Fax: 626-249-0479

www.materialcultureconsulting.com
tria@materialcultureconsulting.com

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On Wed, Nov 7, 2018 at 2:31 PM Padilla, Lacy (TRBL) <lpadilla@aguacaliente.net> wrote:

> Greetings,
>
> A records check of the Tribal Historic preservation office's cultural registry revealed that this project is not located within the Tribe's Traditional Use Area. Therefore, we defer to the other tribes in the area. This letter shall conclude our consultation efforts.
>
> Thank you,
>
> **Lacy Padilla**
>
> Archaeological Technician
>
> Agua Caliente Band of Cahuilla Indians
>
> 5401 Dinah Shore Drive
>
> Palm Springs, CA 92264
>
> 760-699-6956 Of ice
> 760-333-5222 Cell
>
> The information contained in this message may be privileged and confidential and protected from disclosure. If the reader of this message is not the intended recipient, or an employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to the message and deleting it from your computer

Gmail by Google

Sonia Sifuentes <sonia@materialcultureconsulting.com>

CEQA Outreach Follow Up, Proposed Ontario Ranch/Eucalyptus East Commerce Center Project, City of Ontario; Ontario and Prado Dam USGS Quadrangle, San Bernardino County

5 messages

Sonia Sifuentes <sonia@materialcultureconsulting.com> Mon, Nov 12, 2018 at 12:02 PM
To: Tria Belcourt <info@materialcultureconsulting.com>
Bcc: Administration Gabrieleno Indians <admin@gabrielenoindians.org>, GTTribalcouncil@aol.com, sgoad@gabrielino-tongva.com, ddyocum@comcast.net

Good afternoon,

Material Culture Consulting, Inc (MCC) is attempting a follow-up on our letter (dated October 24, 2018) regarding the proposed Ontario Ranch Commerce Center Project, located in the City of Ontario, San Bernardino County, to verify you received the letter and if you had a chance to review the Project Area. Additionally, MCC informs you that the Project is now known as Eucalyptus East.

Please respond at your earliest convenience if you wish to share any knowledge of cultural resources within or adjacent to the API. Any information, concerns, or recommendations regarding cultural resources within the Project Area can be shared with us via telephone, email, or via standard mail. Thank you very much for your assistance.

Sincerely,
--
Sonia Sifuentes, M.Sc., RPA
Archaeologist
Material Culture Consulting, Inc.
2701-B North Towne Avenue
Pomona CA, 91767
Cell: 909-730-8829
www.materialcultureconsulting.com

Administration Gabrieleno Indians <admin@gabrielenoindians.org> Wed, Nov 14, 2018 at 12:45 PM
To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Hello Sonia

Is there a way you can resend the letter? Please let us know.
Thank you

Sincerely,

Brandy Salas
Admin Specialist
Gabrieleno Band of Mission Indians - Kizh Nation
PO Box 393
Covina, CA 91723
Office: 844-390-0787
website: www.gabrielenoindians.org

[Quoted text hidden]

Sonia Sifuentes <sonia@materialcultureconsulting.com> Wed, Nov 14, 2018 at 12:56 PM
To: Administration Gabrieleno Indians <admin@gabrielenoindians.org>
Cc: Tria Belcourt <info@materialcultureconsulting.com>

Hello Brandy Salas,

Here is the digital copy of the letter we sent out (dated Oct 24th). Please respond at your earliest convenience if there is any information, concerns, or recommendations the Tribe wishes to share with us. Thank you for your assistance.

Sincerely,
Sonia
[Quoted text hidden]

NAHC_Letter_EucalyptusEast_OntarioRanch_GabrielenoKizh.pdf
689K

Administration Gabrieleno Indians <admin@gabrielenoindians.org> Fri, Nov 16, 2018 at 11:49 AM
To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Thank you
Sincerely,
Admin Specialist
Gabrieleno Band of Mission Indians - Kizh Nation
PO Box 393
Covina, CA 91723
Office: 844-390-0787
website: www.gabrielenoindians.org

[Quoted text hidden]

Administration Gabrieleno Indians <admin@gabrielenoindians.org> Fri, Nov 16, 2018 at 12:03 PM
To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Hello Sonia,

If there will be any ground disturbance taking place regarding the project our tribal government would like to consult with your agency.
Thank you

Sincerely,

Brandy Salas
Admin Specialist
Gabrieleno Band of Mission Indians - Kizh Nation
PO Box 393
Covina, CA 91723
Office: 844-390-0787
website: www.gabrielenoindians.org

[Quoted text hidden]

Sonia Sifuentes <sonia@materialcultureconsulting.com>

Fwd: Ontario Ranch Commerce Center Project

1 message

Tria Belcourt <tria@materialcultureconsulting.com> Fri, Nov 16, 2018 at 10:47 AM
To: Sonia Sifuentes <sonia@materialcultureconsulting.com>

Tria Belcourt, M.A., RPA
President

Material Culture Consulting, Inc.
2701-B North Towne Avenue
Pomona, California 91767
626.205.8279
www.materialcultureconsulting.com

---------- Forwarded message ---------
From: **Sarah Bliss** <sbliss@spotlight29.com>
Date: Fri, Nov 16, 2018, 10:43 AM
Subject: Ontario Ranch Commerce Center Project
To: tria@materialcultureconsulting.com <tria@materialcultureconsulting.com>
Cc: TNP Consultation <TNPConsultation@29palmsbomi-nsn.gov>

Good Morning,

For the Ontario Ranch Commerce Center Project, the Twenty-Nine Palms Band of Mission Indians Tribal Historic Preservation Office (THPO) is not aware of any additional archaeological/cultural resources that pertain to the Twenty-Nine Palms Band of Mission Indians. If there are any findings during the cultural resource investigation, please have the Lead Agency send the completed cultural report to the THPO. After evaluation of the completed cultural report, the THPO will send additional recommendations. If you have any questions, please do not hesitate to contact the Tribal Historic Preservation Office at (760) 775-3259 or by email: TNPConsultation@29palmsbomi-nsn.gov.

Thank you,

Sarah Bliss

Twenty-Nine Palms Band of Mission Indians

Cultural Resources Manager

46-200 Harrison Place, Coachella, CA 92236

Ofc: (760) 863-2489

Cell: (760) 702-0679

E-mail: sbliss@29palmsbomi-nsn.gov

https://www.29palmstribe.org/historic-preservation

Description: cid:image001.png@01D20D9D.FA633D40

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2 attachments

image001.png
19K

image001.png
19K

Appendix D:
Paleontological
Records Search

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007

tel 213.763.DINO
www.nhm.org

NATURAL HISTORY MUSEUM
LOS ANGELES COUNTY

Vertebrate Paleontology Section
Telephone: (213) 763-3325

e-mail: smcleod@nhm.org

12 October 2018

Material Culture Consulting
2701-B North Towne Avenue
Pomona, CA 91767

Attn: Allison Hill, Archaeologist

re: Paleontological resources for the proposed Eucalyptus East Project, in the City of Ontario, San Bernardino County, project area

Dear Allison:

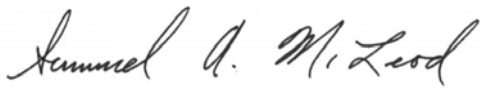
I have conducted a thorough check of our paleontology collection records for the locality and specimen data for the proposed Eucalyptus East Project, in the City of Ontario, San Bernardino County, project area as outlined on the portion of the Prado Dam USGS topographic quadrangle map that you sent to me via e-mail on 2 October 2018. We do not have any vertebrate fossil localities that lie within the proposed project area boundaries, but we do have localities nearby from sedimentary deposits similar to those that occur at depth in the proposed project area.

The entire proposed project area has surface deposits that consist of younger Quaternary Alluvium, derived broadly as alluvial fan deposits from the San Bernardino Mountains to the north. These deposits typically do not contain significant vertebrate fossils in the uppermost layers, but at relatively shallow depth there are probably older Quaternary deposits that may well contain significant vertebrate fossils. Our closest fossil vertebrate locality from similar older Quaternary deposits is LACM 7811, just south of due east of the proposed project area west of Mira Loma east of Archibald Avenue along Sumner Road north of Cloverdale Road, that produced a fossil specimen of whipsnake, *Masticophis*, at a depth of 9 to 11 feet below the surface. Further to the south-southeast of the proposed project area, on the northwestern side of Corona west of Cota Street between Railroad Street and Harrington Street, our vertebrate fossil locality LACM 1207 produced a fossil specimen of deer, *Odocoileus*.

Shallow excavations in the younger Quaternary Alluvium exposed throughout the proposed project area are unlikely to uncover significant fossil vertebrate remains. Deeper excavations there that extend down into the older Quaternary sediments, however, may well encounter significant vertebrate fossils. Any substantial excavations in the proposed project area, therefore, should be monitored closely to quickly and professionally recover any fossil remains while not impeding development. Sediment samples should also be collected from the finer-grained deposits in the proposed project area and processed to determine their small fossil potential. Any fossils collected should be placed in an accredited scientific institution for the benefit of current and future generations.

This records search covers only the vertebrate paleontology records of the Natural History Museum of Los Angeles County. It is not intended to be a thorough paleontological survey of the proposed project area covering other institutional records, a literature survey, or any potential on-site survey.

Sincerely,



Samuel A. McLeod, Ph.D.
Vertebrate Paleontology

enclosure: invoice

Name/Affiliation	**Date and Method of 1st Contact**	**Date of 1st Follow Up Attempt**	**Date of 2nd Follow-Up Attempt**	**2020 Project Update Letter**	**Results**	**MCC Response**
Anthony Morales, Chairperson Gabrieleno/ Tongva San Gabriel Band of Mission Indians	October 24, 2018-letter sent via USPS	November 12, 2018-via email	November 27, 2018 via phone call; no answer / voicemail left.	January 30, 2020-letter sent via USPS	Received a call back from Anthony Morales on 11/28/18. Mr. Morales requests that the Gabrieleno / Tongva San Gabriel Band of Mission Indians be included in any monitoring activity should it take place. Mr. Morales mentioned that the Project area is known to have had Gabrieleno village sites, that the area could have been used as a trade route to the Inland Empire and that there may be concrete or mortar-lined water conveyance features.	MCC thanked the Gabrieleno / Tongva San Gabriel Band of Mission Indians for their response.
Sandonne Goad, Chairperson Gabrieleno/Tongva Nation	October 24, 2018-letter sent via USPS	November 12, 2018-via email	November 27, 2018 via phone call-message left	January 30, 2020-letter sent via USPS	As of December 31, 2018, no response received.	None required
Donna Yocum, Chairperson San Fernando Band of Mission Indians	November 02, 2018-letter sent via USPS	November 12, 2018-via email	November 27, 2018 via phone call-message left	January 30, 2020-letter sent via USPS	As of December 31, 2018, no response received.	None required

Name/ Affiliation	**Date and Method of 1st Contact**	**Date of 1st Follow Up Attempt**	**Date of 2nd Follow-Up Attempt**	**2020 Project Update Letter**	**Results**	**MCC Response**
Goldie Walker, Chairperson Serrano Nation of Mission Indians	October 24, 2018- letter sent via USPS	November 12, 2018- via phone	November 27, 2018 via phone call- number cannot be complete d as dial error	January 30, 2020-letter sent via USPS	As of December 31, 2018, no response received.	None required
Andrew Salas, Chairperson Gabrieleno Band of Mission Indians- Kizh Nation	October 24, 2018- letter sent via USPS	November 12, 2018-via email	Not necessary	January 30, 2020-letter sent via USPS	Email received on November 16, 2018 from Brandy Salas, Admin Specialist- Tribe stated that if ground disturbance takes place regarding the Project, their tribal government would like to consult with the agency.	MCC thanked the Gabrieleno Band of Mission Indians – Kizh Nation for their response.
Joseph Hamilton, Chairperson Ramona Band of Cahuilla	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Charles F. Wood, Chairperson Chemehuevi Indian Tribe	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Lynn Valbuena San Manuel Band of Mission Indians	October 24, 2018- letter sent via USPS	Not necessary	Not necessary	January 30, 2020-letter sent via USPS	See below response	MCC thanked SMBMI for their response.

Name/ Affiliation	**Date and Method of 1st Contact**	**Date of 1st Follow Up Attempt**	**Date of 2nd Follow-Up Attempt**	**2020 Project Update Letter**	**Results**	**MCC Response**
Lee Clauss, Director CRM Dept. San Manuel Band of Mission Indians	October 24, 2018- letter sent via USPS	Not necessary	Not necessary	January 30, 2020-letter sent via USPS	Email from Jessica Mauck, Cultural Resources Analyst for SMBMI received on November 1, 2018- The proposed project is located outside of Serrano ancestral territory and as such SMBMI will not be requesting consulting party status with the lead agency or requesting to participate in the scoping, development, and/or review of documents created pursuant to these legal and regulatory mandates. On February 5, 2020- Email received by Alexandra McCleary, Tribal Archaeologist, in response to 2020 Project Update: The proposed project is located outside of Serrano ancestral territory and as such SMBMI will not be requesting consulting party status	MCC thanked SMBMI for their response.

Name/ Affiliation	**Date and Method of 1st Contact**	**Date of 1st Follow Up Attempt**	**Date of 2nd Follow-Up Attempt**	**2020 Project Update Letter**	**Results**	**MCC Response**
Timothy Williams, Chairperson Fort Mojave Indian Tribe	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Robert Robinson, Chairperson	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Mark Macarro, Chairperson Pechanga Band of Luiseno Indians	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Joseph Ontiveros, Cultural Resource Dept. Soboba Band of Luiseno Indians	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Danelle Guiterrez, THPO Big Pine Paiute Tribe of the Owens Valley	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Genevieve Jones, Chairperson Big Pine Paiute Tribe of the Owens Valley	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary
Jeff Grubbe, Chairperson Agua Caliente Band of Cahuilla Indians	October 24, 2018- letter sent via USPS	Representative not designated by NAHC; No further contact attempts made.	Not necessary	Not necessary	Not necessary	Not necessary

Name/ Affiliation	**Date and Method of 1st Contact**	**Date of 1st Follow Up Attempt**	**Date of 2nd Follow-Up Attempt**	**2020 Project Update Letter**	**Results**	**MCC Response**
Patricia Garcia-Plotkin, Director/THPO Agua Caliente Band of Cahuilla Indians	October 24, 2018- letter sent via USPS	Not necessary	Not necessary	Not necessary	Email from Lacy Padilla, Archaeological Technician for ACBCI received on November 7, 2018- THPO's cultural registry revealed that the Project is not located within the Tribe's Traditional Use Area. ACBCI defers to other tribes in the area.	MCC thanked the tribe for their response.
Darrell Mike, Chairperson Twenty-Nine Palms Band of Mission Indians	October 24, 2018- letter sent via USPS	Not necessary	Not necessary	Not necessary	Email received on November 16, 2018 from Sarah Bliss, Cultural Resource Manager-Tribal Historic Preservation Officer (THPO) is not aware of any additional archaeological/cultural resources. Requests that should any cultural findings occur during the cultural investigation to have the Lead Agency send the completed cultural report to THPO.	MCC thanked the Twenty-Nine Palms Band of Mission Indians
Anthony Madrigal, Jr. THPO Twenty-Nine Palms Band of Mission Indians	October 24, 2018- letter sent via USPS	Not Necessary	Not necessary	Not necessary	See response above	MCC thanked the Twenty-Nine Palms Band of Mission Indians

Name/ Affiliation	**Date and Method of 1st Contact**	**Date of 1st Follow Up Attempt**	**Date of 2nd Follow-Up Attempt**	**2020 Project Update Letter**	**Results**	**MCC Response**
Robert Martin, Chairperson Morongo Band of Mission Indians	October 24, 2018-letter sent via USPS	Not necessary	Not necessary	January 30, 2020-letter sent via USPS	Email containing letter from Travis Armstrong, Tribal Historic Preservation Officer for MBMI, received on November 2, 2018: Project is located within the Tribe's aboriginal territory or in an area considered to be a traditional use area or one in which the Tribe has cultural ties. MBMI requests a through records search be conducted via CHRIS and a copy of the search results be provided to the tribe; and a tribal monitor participate during the initial pedestrian field survey of the Phase I Study of the Project with copy of results of the study provided. If the pedestrian survey has already been conducted, MBMI requests a copy of the Phase I study be provided to the tribe as soon as it is made available.	MCC thanked the Morongo Band of Mission Indians for their response.

Name/ Affiliation	**Date and Method of 1st Contact**	**Date of 1st Follow Up Attempt**	**Date of 2nd Follow-Up Attempt**	**2020 Project Update Letter**	**Results**	**MCC Response**
Denisa Torres, Cultural Resources Manager Morongo Band of Mission Indians	November 02, 2018-letter sent via USPS	Not necessary	Not necessary	January 30, 2020-letter sent via USPS	See Response above	None required

January 30, 2020

EXAMPLE

RE: Update for the Proposed Eucalyptus East Project, City of Ontario; Prado Dam USGS Quadrangle, San Bernardino County, California.

Greetings,

Material Culture Consulting, Inc. (MCC) previously contacted you in 2018 and 2019, regarding the Eucalyptus East Project. This Project proposes the construction of new warehouse facilities on 140 acres of land located on the north/east intersection of Bon View Ave and Merrill Ave in the City of Ontario, San Bernardino County. Material Culture Consulting, Inc (MCC) conducted the initial cultural resources review of the project to support preparation of the environmental documents. As part of this review, our firm contacted the Native American Heritage Commission (NAHC) and was provided your contact information. Outreach for this project was not part of any formal local, state, or federal consultation process.

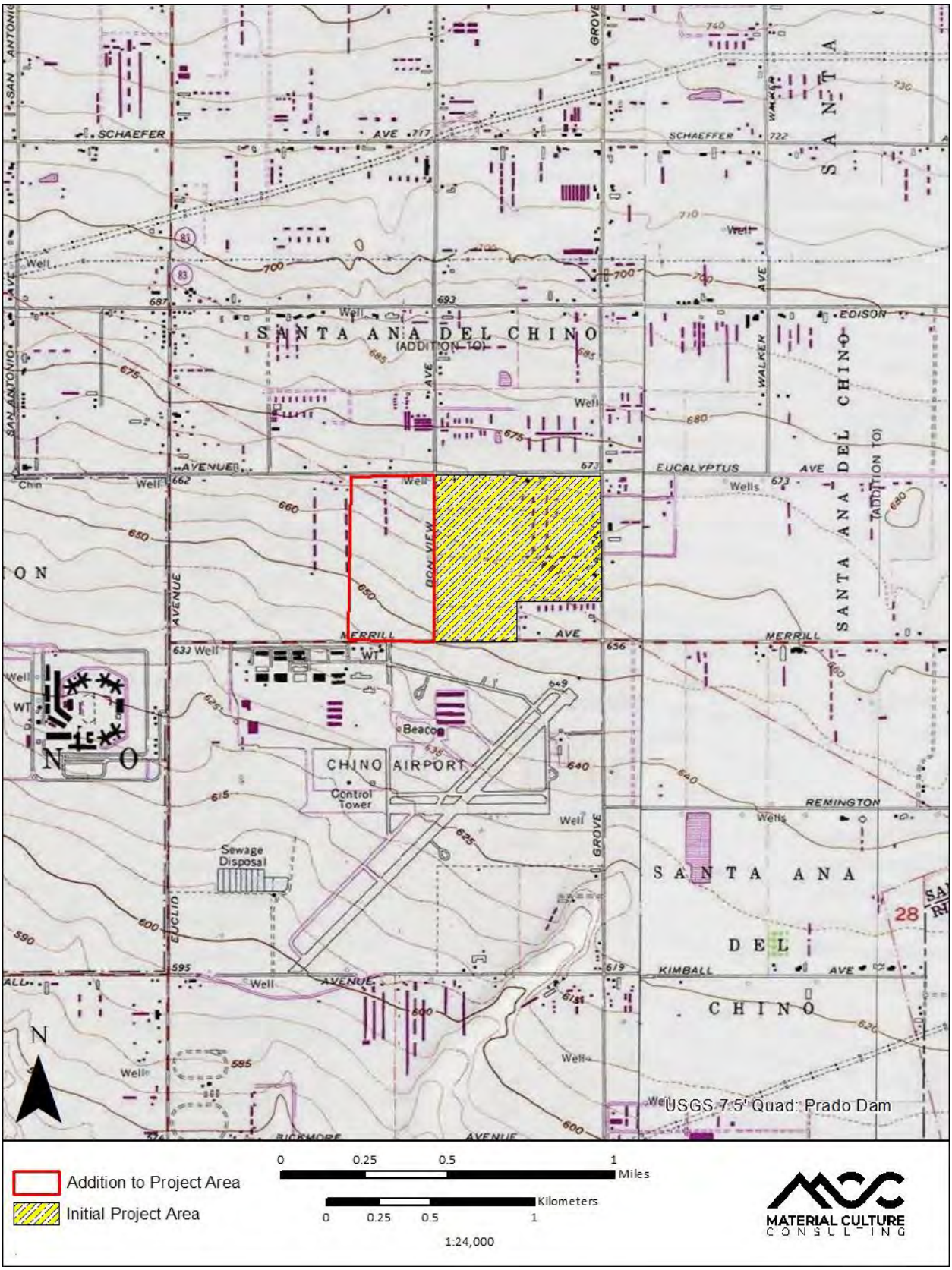
The initial cultural resources assessment included a cultural records search of the California Historical Resources Information System (CHRIS), a search of the Sacred Lands File by the NAHC, outreach efforts with Native American tribal representatives, a pedestrian survey, and a literature review. MCC found that the project area had been consistently utilized for agricultural and dairy activities since the 1930s. No archaeological resources were identified during survey of the Project Area. A total of seven historic structures, including George Borba & Sons Dairy, were identified within the Project Area, which were evaluated by a qualified architectural historian and determined to be ineligible for listing on the National Register of Historic Places or California Register of Historical Resources. Based on our findings, MCC recommended that the probability of encountering significant cultural resources within the Project Area is considered low. MCC recommends no further mitigation measures prior to implementation of the Project. While we did not recommend additional mitigation prior to construction, we did recommend including a condition of approval or mitigation measure which addresses inadvertent discoveries of cultural materials and/or human remains, should these be encountered during any projects within the Specific Plan Area.

MCC is contacting you to inform you that the footprint for this project has been expanded to include an adjoining 80 acres located at the north/west intersection of Bon View Ave and Merrill Ave (See attached map). The Project area now includes a total of approximately 220 acres located within Section 19 of Township 2 South and Range 7 West (San Bernardino Base Meridian). If you wish to share additional information with us, to include in the revised assessment, we invite you to contact us vial email, letter, or phone. MCC will be conducting a supplemental assessment of this expanded Project Area. The City of Ontario remains the lead agency for this Project if you wish to seek formal consultation.

Thank you very much for your time.

Kindest regards,

Tria Belcourt, M.A., RPA
President and Principal Archaeologist
626-205-8279
tria@materialcultureconsulting.com



Map of Proposed Eucalyptus East Project, as depicted on Prado Dam USGS 7.5-minute Quadrangle.

Gmail by Google

Julia Carvajal <julia@materialcultureconsulting.com>

Fwd: Proposed Eucalyptus East Project Update

1 message

Tria Belcourt <tria@materialcultureconsulting.com> Wed, Feb 5, 2020 at 1:55 PM
To: Julia Carvajal <julia@materialcultureconsulting.com>, Sonia Sifuentes <sonia@materialcultureconsulting.com>

Tria Belcourt, M.A., RPA # 917250
President and Principal Archaeologist

Material Culture Consulting, Inc.
Certified DBE/WBE/SBE

2701-B North Towne Avenue
Pomona CA, 91767
Phone: 626-205-8279
Fax: 626-249-0479

www.materialcultureconsulting.com
tria@materialcultureconsulting.com

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---------- Forwarded message ---------
From: **Alexandra McCleary** <Alexandra.McCleary@sanmanuel-nsn.gov>
Date: Wed, Feb 5, 2020 at 1:38 PM
Subject: Proposed Eucalyptus East Project Update
To: Tria Belcourt <tria@materialcultureconsulting.com>

Dear Tria,

Thank you for contacting the San Manuel Band of Mission Indians (SMBMI) regarding the above-referenced project. SMBMI appreciates the opportunity to review the project documentation, which was received by the Cultural Resources Management Department on February 3, 2020. The proposed project is located outside of Serrano ancestral territory and, as such, SMBMI will not be requesting consulting party status with the lead agency or requesting to participate in the scoping, development, and/or review of documents created pursuant to legal and regulatory mandates.

Kind regards,

Alexandra McCleary

Alexandra McCleary
TRIBAL ARCHAEOLOGIST
O: (909) 864-8933 x502023
M: (909) 633-0054
26569 Community Center Drive Highland CA 92346
SAN MANUEL
BAND OF MISSION INDIANS

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Appendix E:
DPR Forms for George Borba & Sons Dairy

State of California — The Resources Agency	Primary #
DEPARTMENT OF PARKS AND RECREATION	HRI #
PRIMARY RECORD	Trinomial
	NRHP Status Code: 6Z
Other Listings	
Review Code	Reviewer Date

Page 1 **of** 30 ***Resource Name:** George Borba & Son Dairy

P1. Other Identifier: APN 1054-081-03-0000,1054-091-01-0000,1054-091-02-0000,1054-071-01-0000,1054-071-02-0000,1054-101-01-0000, 1054-101-02-0000,1054-241-01-0000,1054-241-02-0000,1054-231-01-0000,1054-231-02-0000,1054-311-01-0000,1054-341-02-0000.

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted** ***a. County: San Bernardino**

and

***b. USGS 7.5' Quad:** Prado Dam **Date:** 1981 **T 2S; R 7W; N.E. ¼ ; Section 20 S.B.B.M.**

c. Address: 7955 Eucalptus Avenue City: Chino Zip: 91710

d. UTM: See Location Map for UTM coordinates

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:

The 130.4 acre dairy farm is situated at the southeast corner of Bon View Avenue and Eucalyptus Avenue.

***P3a. Description:**

Per information from the San Bernardino County Assessor's Office, the George Borba & Son Dairy was established at this location in 1963. Aerial photographs from 1938, 1959, 1966 and 2002 present a visual history of a small collection of houses and barn were the only built-environment resources on the land in 1938, and how the Borba Dairy property expanded the size of their operations. (See Continuation Sheets for historic aerial photographs.) George Borba & Son Dairy would expand his holdings with the purchase of the 16-acre Boersma Dairy property in 1993, leaving the Haranga ranch as the only acreage not owned by the Borbas in the quarter section. When Borba established his dairy, there were three, small worker cottages and a utility barn located at the corner of Eucalyptus Avenue and Bon View Avenue, of his property.

Borba Main House: The house was constructed in 1963 as a modern interpretation of Ranch style architecture with modest reference to the Eichler and Cliff May Homes that had been presented to the public in the early 1950s. Eichler and Cliff May shared the design aspects of using a post-and-beam structure with board-and-batten siding, and emphasized access to outdoor terraces (Hess, Alan. *The Ranch House*. New York: Harry N. Abrams, Inc.; 2004.)

The 4,868 square foot, one-story home was designed using a compound plan of center block comprised of a low-pitch, gable-roofed rectangular mass with wide overhanging eaves, arranged with two wings of rectangular-massed block with low-pitched gable roofs set on each side of center block at 45° in a northerly direction. The roof of the main block is set on a north-south axis, while the two wings are set at a northeast-southwest, and northwest-southeast axis. The house may have been designed to take advantage of the views provided by the San Gabriel Mountains to the east. (See Continuation Sheet for additional text.)

***P3b. Resource Attributes:** HP33 (Farm/ranch), HP32 (Rural open space), HP3 (Multiple family property), HP4 (Ancillary buildings).

***P4. Resources Present:** ☒Building ☒Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

P5b. Description of Photo:
Main dairy barn and milking parlor, front (north) and east elevations, view looking southwest.

***P6. Date Constructed/Age and Sources:** ■Historic ☐Prehistoric ☐Both
Dairy barn/milking parlor constructed in 1963. San Bernardino County Assessor.

***P7. Owner and Address:**
George Borba & Son Dairy
7955 Eucalyptus Avenue
Chino, CA 91710

***P8. Recorded by:**
Pamela Daly, M.S.H.P.
Daly & Associates
2242 El Capitan Drive
Riverside, CA 92506

***P9. Date Recorded:**
June 14, 2019

***P10. Survey Type:**
City of Ontario/CEQA

***P11. Report Citation:** None.

***Attachments:** ☐NONE ☒Location Map ☐Sketch Map ☒Continuation Sheet ☒Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***NRHP Status Code**: 6Z

***Resource Name:** George Borba & Son Dairy

B1. Historic Name: George Borba & Son Dairy
B2. Common Name: Borba Dairy
B3. Original Use: Dairy farm
B4. Present Use: Dairy farm

***B5. Architectural Style:** Ranch style 1960-1980

***B6. Construction History:** George Borba Sr. moved onto the land in 1963. Already existing on his land were worker cottages and a utilty barn at the southeast corner of Bon View Ave. and Eucalyptus Ave. Borba Sr. built dairy associated structures and a managers house on his land. In 1993, he purchased the Harry Boersma house and dairy at 14746 South Grove Ave.. The worker cottages were demolished in 1988, and four new, single family dwellings were erected in the same location.

***B7. Moved?** ■No ☐Yes ☐Unknown **Date:** **Original Location:**

***B8. Related Features:**
Utilitarian dairy farm features that include: pole structures, out buildings, garages, utility sheds, feed bins, cooling tanks, water tanks, and runoff pits.

B9a. Architect: Unknown
b. Builder: Unknown

***B10. Significance:** None **Theme:** New Model Colony Area (Ontario, CA) **Area:** San Bernardino County
Period of Significance: None **Property Type:** Large Capacity Dairy Farm **Applicable Criteria:** Ontario/CR

The following text is excerpted from *The City of Ontario's Historic Context for the New Model Colony Area*, prepared by Galvin & Associates for the City of Ontario Planning Department in September 2004.

In 1967, the County of San Bernardino designated 14,000 acres of agricultural land in the Chino Valley, located in the southwest area of San Bernardino County, an agricultural preserve. This agricultural land, which has been protected by Williamson Act contracts and the 1965 Land Conservation Act, has been farmed primarily by Dutch, French Basque and Portuguese dairy farmers for the last 50 years.

In the 1990s, as dairy operation costs escalated and the demand for housing in the region swelled, development pressures mounted and the process of incorporating this area into adjacent cities began. Anticipating the expiration of the Williamson Act contracts, this area was divided and portions were incorporated into three adjacent cities. In 1999, 8,200 acres were annexed by the City of Ontario; in 2003, 5,000 acres were annexed by the City of Chino, referred to as the Preserve; and the City of Chino Hills annexed the remaining few hundred acres of land.

The City of Ontario named their portion of the former San Bernardino County Agricultural Preserve the *New Model Colony* (NMC) after the original *Model Colony of Ontario* established by the Chaffey Brothers, William and George Jr., in 1882. Over time, the New Model Colony area has been known as Santa Ana Del Chino, the Chino Valley, the Chino Basin, and the San Bernardino Agricultural Preserve or Ag Preserve. It consists of an expansive area of flat arid land that was historically sandy desert. In 2004, the NMC survey area included 711 parcels of predominately open agricultural land scattered with single-family homes and farm buildings. (See Continuation Sheet for additional text.)

B11. Additional Resource Attributes:

***B12. References:** noted in text.

B13. Remarks:

See Continuation sheets for aerial views of the property.

***B14. Evaluator:** Pamela Daly, M.S.H.P.

***Date of Evaluation:** June 14, 2019

(This space reserved for official comments.)

*Recorded by: Pamela Daly, M.S.H.P. *Date: June 14, 2019 ■ Continuation ☐ Update

P3. Description, continued:

Borba Main House, **continued:** The entire building maintains a linear pattern with an emphasis on a horizontal plan. The main block serves as the formal entrance to the house and four trapezoidal-shaped, fixed clerestory lights are set equally on the gable end, under the eaves. Under the band of clerestory lights, the front façade is divided into four sections, reflecting the narrow rafter tails extending from under the wide overhanging eave. A large pair of wood entrance doors, with fixed side lights, are situated to the west of the center of the façade. The entire façade to the west of the front doors is clad with a stucco finish over regularly set, narrow, vertical bands of wood that give the wall surface movement. The wall surface to the east of the front doors is also clad with the narrow, vertical banding, and large, wood-framed picture windows are set in each of the two eastern wall sections. Extending northward from the front façade, on both sides of the doors, are screen walls constructed with decorative breezeway block. The same breezeway block is used in the lower perimeter wall, approximately 36" to 48" high, which parallels the front elevation. The perimeter wall on the west is topped with metal fencing as an additional deterrent to trespassing.

The two wings of the house are clad with a stucco finish, have aluminum window fenestration, and are virtually devoid of ornamentation. The eastern wing of the house contains the attached garage, which is entered on the south elevation, and the kitchen and dining room areas of the house. The bedrooms are located in the west wing, and the center section is where the living room/family room is situated. The roof is clad with composite shingles, and the building has a poured concrete foundation. An inground pool was constructed in the backyard in 1973, and a concrete-block wall encircles the backyard area. A circular driveway curves from Eucalyptus Avenue to the front entrance, and the area around the house is nicely landscaped with lawn, mature trees and shrubs.

The Contemporary Ranch style house associated with the George Borba & Son Dairy property meets the criteria to be considered a "1960s through 1980s Ranch" style house within the historic context of the New Model Colony. The Main House of the George Borba & Son Dairy reflects how, after World War II, the simple Ranch style homes of the 1920s evolved into sprawling homes with little association to their its original roots derived from the houses found on the historic ranchos in California. The Main House of George Borba & Son Dairy meets, but does not rise above being a modest example, of a 1960s Contemporary Ranch style house that was widely constructed in California during the same time period. "Some thought that the Contemporary style afforded opportunities to build at a lower cost. In particular, very low-pitch or flat roofs, relatively open floor plans, and the use of post-and-beam rather than stud construction were characteristics of many Contemporary style houses that builders touted as cost-saving innovations (California Department of Transportation. "Tract Housing in California, 1945-1973: A Context for National Register Evaluation"; Sacramento: 2011.)

Plan books published as early as 1945 by companies such as Industrial Publications, Inc., Chicago, Illinois; The L.F. Garlinghouse Co., Topeka, Kansas; and Hiawatha Estates & Associates, Northridge, California, all had plans available for one-story, rambling styled homes with exterior features ranging from a rustic/ranch look - to that which would be considered a Modern exterior today. The design plans offered were all but unrecognizable in relation to the first "modern" Ranch style residence, the Gregory House, designed by California architect William Wurster in 1928. In 1946, architect Cliff May and Sunset Magazine collaborated to write and publish a book, *Sunset Western Ranch Houses* (Hess, 2004.) "The Magazine of Western Living consciously linked the Ranch House to Modernism (Hess, 2004.)

Managers House, 8099 Eucalyptus Avenue (14544 Grove Avenue): The house at the corner of Eucalyptus Avenue and Grove Avenue was constructed for the George Borba & Son Dairy in 1978, and enlarged in 1990. The house is one-story, cross-gable , rectangular-massed structure, comprised of 1,974 square feet of living space, and an attached garage. The exterior walls are clad in stucco, and the fenestration is provided by metal-frame sliding windows and modern-composite fixed windows. The house does not present any significant architectural features or characteristics that raise it above a common residential design that dates from the late 1970s.

(See Continuation sheets for additional text)

P3. Descriptions, continued:

Main Dairy Barn/Milking Parlor at 7955 Eucalyptus Ave.: The Dairy Barn was constructed at the same time of the Main House in 1963. The exterior of the milk storage portion of the building is clad in a stucco finish and devoid of any superfluous ornamentation or architectural features. The Main Dairy Barn, comprised of both the milking parlor and sanitary milk storage facility, is a rectangular-massed building approximately 168 feet long (north-south) and 62 feet wide. The northern section of the building contains the sanitary milk storage facilities, and the automated milking parlor makes up the remainder of the building. The cows pass through the washing bays at the south end of the building before entering the milking parlor stalls, attached to stations and milking machinery. This part of the building is partially open sided, and covered with a corrugated metal roof. The roof is supported on angular, steel support beams set along the stucco-clad concrete walls that form the outside of the building. There is a stepped parapet wall at the roof line between the milking parlor and storage structure. The northern portion of the Dairy Barn has a medium pitch gable roof set on a north-south axis, and the exterior walls of this section are clad with a stucco finish. The west half of the storage facilty is wider than the east side, and the roof slope extends over this additional room area, creating uneven roof slopes. A large, aluminum utility door is set in the center of the north (front) façade, and is flanked on both sides by aluminum sliding windows. A poured concrete, circular driveway with the dimensions to allow large tanker trucks access to the front of the building, provides egress from Eucalyptus Avenue.

Auxilliary Dairy Barn at 7955 Eucalyptus Ave: The Auxilliary Dairy Barn was constructed in 1978, when the decision was made to enlarge the size of the herd and milk production. This dairy barn is somewhat unique solely for the reason that it is situated on an east-west axis, instead of a north-south axis as usually seen for dairy barns. The exterior of the milk storage portion of the building is clad in a stucco finish and devoid of any superfluous ornamentation or architectural features. The Auxilliary Dairy Barn, comprised of both the milking parlor and sanitary milk storage facility, is a rectangular-massed building approximately 172 feet long (east-west). The milk parlor section is approximately 40 feet wide, and the storage storage section is 62 feet wide. The west section of the building contains the sanitary milk storage facilities, and the automated milking parlor makes up the remainder of the building. The cows pass through the washing bays at the east end of the building before entering the milking parlor stalls, attached to stations and milking machinery. This part of the building is partially open sided, and covered with a corrugated metal roof. The roof is supported on angular, steel support beams set along the stucco-clad concrete walls that form the outside of the building. The western portion of the Dairy Barn has a medium pitch gable roof set on a north-south axis, and the exterior walls of this section are clad with a stucco finish. The south half of the storage facilty is wider than the east side, and the roof slope extends over this additional room area, creating uneven roof slopes. A pedestrian door is situated in line with the gable peak, and sliding, metal unit windows provide the fenestration on both sides of the pedestrian door. A poured concrete, circular driveway with the dimensions to allow large tanker trucks access to the front of the building, provides egress from Eucalyptus Avenue.

Feed (dry and wet) sorting structures: There are two large, rectangular-massed, dry feed sorting structures situated to the southwest of the Main House, in the western area of the dairy farm. One feed sorter structure is open to the west, and measures approximately 162 feet long and 52 feet wide. The second dry feed sorter is open to the east, and measures approximately 92 feet long and 34 feet wide. Each structure has a concrete foundation, a shed roof, and is enclosed on three sides. The larger feed sorter has seven bays, with the bay walls topped by plywood panels. A wet-feed structure is located to the immediate northwest of the dry feed sheds, and it has a two bay, poured concrete lined pit, where raw vegetables and excess produce can be dumped and then accessed by bucket loaders for depositing into feed troughs in the pens.

Cattle shade pole structures: Cattle covers have shed roofs that are supported by a system of steel poles, with a shed having a roof height ranging between approximately 10 feet tall to 18 feet tall. The sheds roofs are approximately 16 feet to 22 feet in width, and range from 30 feet to almost 1,000 feet long. There are approximately sixteen pole structures situated within the cattle pens on all the Borba property used for providing shelter from sun and inclement weather to the dairy cows, and these provide over 1.25-linear miles of cattle sheds. The acreage covered by the shades and the gable roof cover is approximately 4 acres.

(See Continuation Sheet for additional text.)

P3. Description, continued:

Hay cover pole structures: There are multiple pole structures with shed roofs located in a north-south line between the Borba Main and Auxiliary Dairy Barns, and in an east-west line to the southwest of the Boersma Dairy Barn. These pole structures are similar in construction to the cattle shade structures.

Cattle pens: The cattle pens were designed using feedlot fencing around a large section of land, with the large pens divided into various sized pens that can hold from just a few cows to more than 100. The tubular steel fencing is embedded in concrete footing and a concrete apron and/or concrete trough extends away from the fencing on the outside of the pen to allow an area for the feed to be laid out for each pen.

Manure pits: There is a dry manure capture structure situated south of the Managers House, parallel to Grove Avenue. This structure may actually date from before George Borba built his dairy. In the most southern portion of the dairy property, near Merrill Avenue, there are two sections of land that are dug to a depth of approximately 8' to be filled with the liquid runoff from the cattle pens. On a routine basis, the pits are drained to be recycled as liquid fertilizer.

Water pumping systems and equipment: A farm the size of Borba's 130+acres required multiple water pumping systems to supply all of the farms needs. Pumping equipment would be comprised of electrically-powered jet pumps used to raise water from underground resources.

Single-family residences at 7721, 7735, 7745 Eucalyptus Ave.: According to the demolition and building permits filed in San Bernardino County, the three houses that were located at the southeast corner of Eucalyptus Avenue and Bon View Avenue were demolished in 1988, and a permit to build four new single-family houses of 1,075 square feet each, was submitted that same year. The older houses had dated from circa 1915, and were associated with the gable roof barn that still stands just south of the houses, on Bon View Avenue.

Old Barn: Research failed to produce any information regarding the construction date of this barn that may date from the 1920s, or1930s. It appears to be in its original location, which was near three small worker cottages located at the southeast corner of Bon View Avenue and Eucalyptus Avenue. (The original cottages, that according to San Bernardino County Assessor records, dated from 1915 and 1925, were demolished in 1988 and replaced with four new single family dwellings in the same location.) Aerial photographs dating from 1936 do not show any agricultural buildings and structures within an entire quarter-section of the barn that can provide information as to who the barn belonged to, or what its exact purpose was originally. The barn is comprised of a gable roof structure that measures approximately 66 feet lone (east-west) by 45 feet wide, and is 20 feet high at its peak. The barn appears to have been used for general farm use, and based upon the vent features in the gable ridge and lack of window openings, for the storage of equipment, supplies, and/or temporary harvest space. The building is clad entirely with corrugated steel panels on its walls and roof. There is a set of tall hanging doors on the west (front) façade of the barn. A tall pole, shade structure with concrete pad, is situated to the immediate north of the barn. This structure may have been used to cover tractors or other motor vehicles. The barn has lost its association with its historic context, and aspects of integrity of feeling, setting, and design (its original purpose is unknown).

Boersma House, 14746 South Grove Ave.: According to building permits records from San Bernardino County, the house was constructed in 1960 as a modest example of Ranch style architecture from the 1950s and 1960s. The one-story home has a low-pitch gable roof with wide overhanging eaves and exposed rafter tails. The roof is set on a north-south axis, and the rectangular main body of the house is approximately 62 feet long by 42 feet wide. The garage is attached to the main block, but set back (to the west) approximately 18 feet from being in alignment with the house's front façade. At the south end of the house, there is a room projection from the building that creates a cross gable extension. The formal entrance to the house is in an unusual location, as it is set between the recessed façade of the garage, next to the north façade of the main block, and the front door has sidelights of glass block. (It is unknown if this was the original design or a later alteration.) Based on the style of windows in the dairy barn, which was constructed at the same time as the house, all of the house's original fenestration has been removed and replaced with modern composite window units. The house is clad with a stucco finish, except for a false water table row of wide clapboards creating a decorative element to the house. The element of wide clapboards is repeated in the north gable end of the house. (See Continuation Sheet for additional text.)

P3. Description, continued:

Boersma House, continued:

The Ranch style house constructed by Harry Boersma, and now owned by the George Borba and Son Dairy, meets the criteria to be considered a "1960s through 1980s Ranch" style house within the historic context of the New Model Colony. While the house meets the architectural description to be considered a "1960s through 1980s Ranch" style house associated with dairy farms in Ontario, California, it also meets the architectural characteristics of a Ranch style house that was constructed during the same time period anywhere in California, or the United States. From the publication written by the Cultural Studies Office of Caltrans Division of Environmental Analysis, "Tract Housing in California, 1945-1973: A Context for National Register Evaluation; 2011", the characteristics of a Ranch House are those houses that are "one-story and exhibit a predominant horizontality".

Plan books published as early as 1945 by companies such as Industrial Publications, Inc., Chicago, Illinois; The L.F. Garlinghouse Co., Topeka, Kansas; and Hiawatha Estes & Associates, Northridge, California, all had plans available for one-story, rambling styled homes with exterior features ranging from a rustic/ranch look - to that which would be considered a Modern exterior today. The design plans offered were all but unrecognizable in relation to the first "modern" Ranch style residence, the Gregory House, designed by architect William Wurster in 1928.

Boersma Dairy Barn/Milking Parlor: The Dairy Barn was constructed at the same time of the Boersma House in 1960, and was designed to reflect the modest architectural details and design of the house. The Dairy Barn is a rectangular-massed building approximately 153 feet long (east-west) and 42 feet wide, and eastern portion of the building facing South Grove Avenue is where the formal front pedestrian entrance and sanitary milk storage units are located. This eastern portion of the building is covered with a gable roof system, with an added shed roof slope running across the façade to create a false gable-on-hip roof system. There are rafter tails that extend from under the roof eaves, and these, in association with diamond frames on the windows, are the sole decorative features of the front elevation. The milking parlor of the building has solid, concrete masonry walls approximately 6 feet tall, and these walls support the steel support poles and beams that support the roof system. The parlor portion of the building is covered with a corrugated metal roof that has a vent system along the gable ridge. The west end of the building is where the cows enter and exit the milking parlor.

*Recorded by: Pamela Daly, M.S.H.P. *Date: June 14, 2019 ■ Continuation ☐ Update

B10. Statement of Significance, continued:

During the Rancho Period in the history of Southern California, large land grants were given to influential citizens leading to European settlement of ranchos for raising cattle in the San Bernardino Valley. The Rancho period lasted from 1834 until the Mexican War of 1846. Colonists were encouraged to settle in the San Bernardino Valley to help protect the region from such raids. Recipients of the land grants included Spanish gentlemen (dons) from many of the first families of California, such as the Lugos, Sepulvedas, Yorbas, Bandinis, Tapias, Palomares, and Picos.

One of the largest land grants in the area was Rancho Santa Ana del Chino, which encompassed the New Model Colony project study area. In 1841, the Spanish governor Alvarado granted the 22,000-acre Rancho Santa Ana del Chino to his uncle, Antonio Maria Lugo.

Located on a sloping plateau at the base of the 10,000-foot Mt. San Antonio, the City of Ontario, California, was named for Ontario, Canada by George Chaffey, a Canadian- born engineer who came to Riverside in 1880. He and his brother William acquired 1000 acres of the Garcia Rancho in 1881 which they intended to subdivide into small fruit farms. The Chaffeys purchased an additional 6,000 acres that would become the cities of Ontario and Upland. One of the keys to the Chaffeys success as developers was their creation of a "mutual water company" in which each landowner became a stockholder. Ontario was incorporated on December 10, 1891.

Chino's beginning can be traced to Isaac William's Rancho Santa Ana del Chino, known for its cattle and fine horses, its sugar beet factory, its dairy farms, and its truck farms in the early days. After Williams died the Chino Ranch suffered difficult times until the ranch and some additional lands were purchased by Richard Gird in 1881. Gird imported dairy cattle and built up a herd of 200 milk cows, which was the start of Chino's more recent role as a dairy center of Southern California. In 1887 he subdivided half the ranch and set aside the town site of Chino.

The first herds of good cows to reach California were those led or driven across the plains by the gold-seekers of 1849. The cows were fed or grazed along the trail and contributed to the family menu on the way. These cows were the foundation stock of pioneer dairy efforts in the foothills and mountain valleys of the Sierra Nevada. During the late 1840s and early 1850s, Sacramento was the center of California's cattle market. It was during this period that dairying became an established industry in California.

The scientist, Louis Pasteur, discovered in 1865 that heating milk to 140 degrees Fahrenheit for 20 minutes would destroy germs of tuberculosis, typhoid fever and other pathogenic organisms. Due to his discovery, the milk manufacturing industry began to develop in other areas related to the dairy industry such as supply machinery and equipment for milk pasteurizing plants, coolers, pasteurizers, bottling machines and a score of other products.

In the 1880s, dairying was largely confined to Humboldt County, Pt. Reyes Peninsula, the coastal section of San Luis Obispo and the mountain pastures of the Lake Tahoe region. In the early 1890s, the first farm separators (mechanical milk separators) were introduced into California.

There are three distinct phases in dairy farming in Southern California. The first phase was from 1900-1930 and consisted of free grazing of the cattle. The first dairies before 1930s were small family concerns, consisting of five or six acres. During the 1920s, the dairies gravitated to the southeastern part of Los Angeles County around Paramount, Artesia, and Bellflower.

The second phase of dairying, from 1931-1949 saw a change from free grazing dairying to dry-lot dairying with the mechanization of milking. Prior to World War II, dairies were widely dispersed throughout Los Angeles County. Large clusters of dairies were found in areas such as Torrance, Artesia, El Monte and the San Fernando Valley. During this period much of the feed and fodder was available from the local area, and dairies usually occupied the less valuable land that was not suited to citrus or truck farms raising vegetables for market.

The third phase of dairying in Southern California took place between 1950 and 1969. One of the paradoxes of the 1950s Los Angeles milk industry is that the rapidly growing human population and industry of Los Angeles County after the end of World War II, squeezed the dairymen into smaller and smaller areas, forcing the dairy industry to produce milk more economically than before the squeeze began. The dairy farmers moved to new dairies to take advantage of mechanization; their old barns were not large enough for the new machinery.

Dairies first came to the Chino Valley in the late 1890s, mostly on rented land. The Chino Valley was a good location for dairy farming because of its vast areas to cultivate hay and its sunshine, fertile soil, and water supply. In the late 1950s and early 1960s many housing developments began in Westminster and Cypress and dairymen started to buy farm land in the Chino Valley which had been used mostly for growing grapes. By 1957, more than 135 dairies were located in the Chino Valley area.
(See additional text on Continuation Page)

*Recorded by: Pamela Daly, M.S.H.P. *Date: June 14, 2019 ■ Continuation ☐ Update

B10. Statement of Significance, continued:

In moving to the Chino Valley area, the dairymen established the most efficient and modern dairies in the nation. By 1979, the largest concentration of dairies in the world was located in the approximately 18 square miles that comprise the Chino Valley. Sixty percent of the milk produced in the State of California was produced in this area.

Dairy farming in the Chino Valley, between 1950 and 1969, consisted of the introduction of scientific feeing and breeding, resulting in larger herds and more productive dairy operations. The dairy properties that developed during 1950-1969 are located on very large parcels or on properties that comprise multiple smaller parcels. The average size for a property associated with this context is approximately forty (40) acres or more. As the mechanization of dairying advanced, the size of the parcel increased as the dairy farmer was capable of milking more cattle. The layout of the dairy property also changed as the dairy operation began to introduce new farming equipment for the mechanization process.

With the technology of the new milking systems (of the 1950s-60s) one man easily could milk 450 cows twice a day. Machines could handle more cows, consequently, the herds increased in size again. Also, the dairy farmers from this period were able to afford more land after selling their dairies for premium prices in the highly valued inner-city areas of Los Angeles County, and could consequently increase the size of their operations and upgrade their milking facilities as the cost of land in the Chino Valley area was far less costly.

The George A Borba & Son Dairy operation is situated on 130+ acres, divided into 11 legal parcels, and is situated in the southeast corner of Bon View Avenue and Eucalyptus Avenue. The history and evaluation of the Borba & Son Dairy is based upon a review of historic aerial photographs dating from 1938 to 2002 that provide a view of buildings and structures on the parcels in the subject area; San Bernardino County building permit records from the 1960s for the subject parcels; historic newspaper articles; census information; and an interview with George Borba Sr.'s daughter, Linda Borba Gourdakian.

The George Borba & Son Dairy was established in Chino by George Antonio Borba, who had been born in Ontario, California, in 1932. George A. Borba was the fourth child of Pete Borba Sr. (given name Pedro Antonio Borba) and his wife Marie. Pete Borba had been born in 1895, and was 17 when he emigrated from the Azore Islands (an autonomous region of Portugal), and arrived in the United States in 1912. He followed the arrival of his brothers, Joa/Joe in 1900, John in 1903, and Emanuel in 1909. By 1920, he is married and living in the dairy community of Lemoore, in Kings County, California. At least two of his brothers have also settled in Lemoore, and a search of census lists suggest there were possibly more members of the extended family living in that area of California.

Pete, his wife Marie, and three children (Pete Jr., Joe, and John) moved to Southern California in time for the 1930 Census, and were living in the Cucamonga area of San Bernardino County. It then appears that Pete Sr. joins with brothers Emanuel and Joe, and moves to the Chino Valley dairy area. Pete Sr. is noted in City Directories as living on Edison Avenue, in Chino. Pete Sr. and Marie would have two additional children while living in Ontario-Chino, George Antonio, and Mary. George Antonio Borba, born in 1932, grew up working with his brothers for his father's successful potato farm, and on his Uncle Joe's dairy farm. During George's high school years, his name shows up frequently in local newspapers for his outstanding skills on the baseball field.

George married a high school classmate, Dolores Sartain in 1955, and they settled in the northern Chino (southern Ontario) area near his father's farm on Edison Avenue. It was in 1963 that George and Dolores established a dairy operation on three-quarters of the land bound by Bon View Avenue to the west; Eucalyptus Avenue to the north; Grove Avenue to the east; and Merrill Avenue to the south. (In 1963, the two, 16-acre parcels in the southeast quarter of the "block" were owned by Harry Boersma and Rudy Haringa.) When George purchased the land for his future house and dairy, there were three houses and one barn situated at the southeast corner of the intersection of Eucalyptus Avenue and Bon View Avenue, and there was a small house at the southwest corner of built the house and dairy farm at 7955 Eucalyptus Avenue.

The Borba Dairy was recognized for its gold medal winning milk, and Borba was able to expand his operations in the 1970s. He increased the size of his herd so much that in 1978, he built an additional dairy barn and a single-family residence to be used by the farm manager. The Boersma Dairy farm property became available in 1993, after Mr. Boersma passed away, and Borba now had over 130 acres of land and three dairy barns to keep over 3,000 head of milking cows. Besides the dairy operations, George Sr. (now that there was a George Jr.) was very active in the dairy community, local government and land use organizations, and even was a director of the newly established Chino Valley Bank. George A. Borba (Sr.) passed away in 2012, and his son has continued the family business in Chino/Ontario and in Kern County. (Sources: Ancestry.com for "George Antonio Borba". Resources include 1910, 1920, 1930 and 1940 U.S. Census records, World War II draft card for "George A. Borba", Immigration Record for Pete A. Borba, City Directories and Voter Registration Records.)

(See Continuation Sheet for additional text.)

*Recorded by: Pamela Daly, M.S.H.P. *Date: June 14, 2019 ■ Continuation ☐ Update

B10 Statement of Significance, continued:

In assessing the historical significance of the subject property, federal, state, and local significance criteria were applied. The subject property is not currently listed in either the National Register of Historic Places, California Register of Historical Resources, or as a City of Ontario Historic Landmark.

National Register and California Register

Criteria A/1: Pursuant to the National Register and/or California Register criterion relating to the Borba & Son Dairy Farm property's association with significant historical events that exemplify broad patterns of our history, the subject property does not qualifies as a significant resource under Criteria A/1. While the history of the Borba & Son Dairy Farm with the development of the dairy industry in Chino Valley-Ontario is important, the Borba & Son Dairy was not specifically identified in our research as the site of an event important to the history of large-scale dairy farming in California, or the United States. There is no evidence that the Borba & Son Dairy Farm property is eligible for listing under National Register Criterion A or California Register Criterion 1.

Criteria B/2: Pursuant to National Register and California Register criteria relating to the Borba & Son Dairy's association with the lives of persons significant in our past, the property does not qualify as a significant resource under National Register Criterion B or California Register Criterion 2. This criterion is used to determine if George A. Borba Sr. is *directly* associated with the development and history of large-scale dairy farming in the mid-twentieth century, or if he was important in the settlement of Chino Valley or Ontario. While George A. Borba Sr. was very active in local, regional, and even statewide organizations associated with the dairy industry and related subjects, our research did not reveal that his activities were demonstrably important on a national or state level.

Criteria C/3: Pursuant to the National Register and California Register criteria relating to the distinctive characteristics of a type, period, region, or method of construction, the Borba & Son Dairy does not appears to be eligible for listing as a significant Large Capacity Dairy under National Register Criterion C or California Register Criterion 3. The Borba & Son Dairy Farm property is an example of a Large Capacity Dairy constructed in Ontario in 1963. The design of a Large Capacity Dairy had been developed over 50 years of both technical improvements in milking machinery and the handling of dairy cows. The Large Capacity Dairies were simply an expansion of the dairy operations built soon after World War II, which brought together the improved hygienics of milking operations with the use of mechanical milking parlors. Large-scale dairy farms had been established, constructed, and operated in Southern California and the Chino Valley Dairy region since the early 1950s, and Borba & Son Dairy was not found to be a pioneer of large-scale dairy management. Borba & Son Dairy built an operation whose success was insured by following the example of the layout and management of other regional farms and industry guidelines. The Borba & Son Dairy does not present any significant contributions to the history of Large Capacity Dairies that would warrant it being eligible for listing as a significant property under Criterion C/3.

Evaluation of the Ranch style house of the Borba & Son Dairy Farm property per National Register and California Register Criteria

The Main House of the Borba & Son Dairy has been found to meet the criteria to be considered a contributing resource, 1960s through 1980s Ranch style house, under the New Model Colony Historic Context. While the Main House of the Borba & Son Dairy meets the level of integrity to be considered a local resource, the building itself has not been found to meet the criteria to be listed in the National Register or California Register.

The Main House of Borba & Son Dairy has not been found to have been associated with events that have made a significant contribution to the broad pattern of dairy farm ranch houses, or to the cultural history of dairy farming, in Chino Valley-Ontario, California, or the United States.

The Main House of Borba & Son Dairy has not been found to have been directly associated with persons important to the dairy farm industry in Ontario, California, or the United States.

The Main House of Borba & Son Dairy does not present a Contemporary Ranch style residence of high artistic values, or a design that contributes to the national or regional discussion regarding Contemporary Ranch style houses constructed in 1963.

(See Continuation Sheet for additional text.)

B10 Statement of Significance, continued:

City of Ontario Criteria

The Borba & Son Dairy does present high integrity for a "Post 1950, Scientific, Large Capacity Dairy" farm constructed in 1963, for possessing the physical attributes of a large-scale dairy operation, but it does not appear to have the capacity to be determined a significant individual property as a contributor to the history of dairy farming in the City of Ontario.

Prior to 1950, the dairy farms in the Chino Valley area were primarily owned and operated by a single family, with some hired hands to supplement the family's involvement. Even with the advent of modern milking equipment, improved feeding and animal husbandry, the dairy farms continued to resemble those of the early twentieth-century, with the cows able graze in pastures and the farms make a visual connection to the early days of settlement in Ontario and the Chino Valley.

After World War II, the pressure from urban development, high price of land, and loss of interest by the younger generations of dairy farmers, forced dairy farmers in the New Model Colony Area to adapt to the modern livestock business plan of operating, what is called in common terminology, a factory farm. The Borba & Son Dairy can accommodate approximately 3,000 head of cattle on the property, with approximately 1,500 head being milked on a daily basis due to the improvement of technology, and the three dairy barns located on the farm. A factory farm is considered:

"An operation is defined as an animal feeding operation, or AFO, if the facility confines, stables, or feeds animals for 45 days or more in a 12-month period, and a ground cover of vegetation is not sustained over at least 50 percent of the confinement area. An operation is defined as a concentrated animal feeding operation, or CAFO, if it meets the definition of an AFO and also confines more than 1,000 animal units (1,000 animal units is equal to 700 dairy cows). (United State Department of Agriculture (USDA) https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/plantsanimals/livestock/afo/)

Criterion a.: Evaluating the property under the City of Ontario criteria for historic landmarks, the property of the Borba & Son Dairy has not been found to exemplify or reflect special elements of the City's history. The "Post 1950, Scientific, Large Capacity Dairies" were identified in the "New Model Colony Historic Context" not for their contribution to the post World War II development of the City of Ontario, but rather that the advancements of dairy management and technology allowed for farmers to milk a greater number of cows in a 24-hour period. Farmers expanded the size of their cattle pens to hold more head of cattle, and that in turn allowed a dairy farmer to sell more milk. There may have been technological improvements which contributed to the amount of milk produced in Southern California, but we find no evidence that the activities of the Borba & Son Dairy operations presented any special elements to the City's history.

Criterion b.: The Borba & Son Dairy has not been identified with persons or events significant in local, state, or national history. George A. Borba was very active in his community; both in civic and industry activities, but his contributions were not so substantial as to have demonstrably changed local history.

Criterion c.: The built-environment resources of the Borba & Son Dairy were not designed or organized by a notable builder, designer, architect, or dairy farm expert. These types of large-scale dairy operations were being constructed across California, and in many parts of the United States, since the end of World War II. Per the USDA, there are over 450,000 AFOs in the United States in 2017, of which dairy operations make up a large percentage of the total number.

Criterion d.: While the Borba & Son Dairy property has been noted as having high integrity as an example of a "Post 1950 Scientific, Large Capacity Dairy", the buildings and structures of the Borba & Son Dairy Farm do not exhibit significantly important examples of building practices that would be important to the dairy industry dating from after 1963. The design of the dairy facility at Borba & Son Dairy had no impact on the future of architectural or agricultural development of dairy farms in Ontario or the Chino Valley in the last half of the twentieth-century.

Criterion e.: The buildings and structures of the Borba & Son Dairy do not exhibit noteworthy examples of the use of indigenous materials or craftsmanship.

(See Continuation Sheet for additional text.)

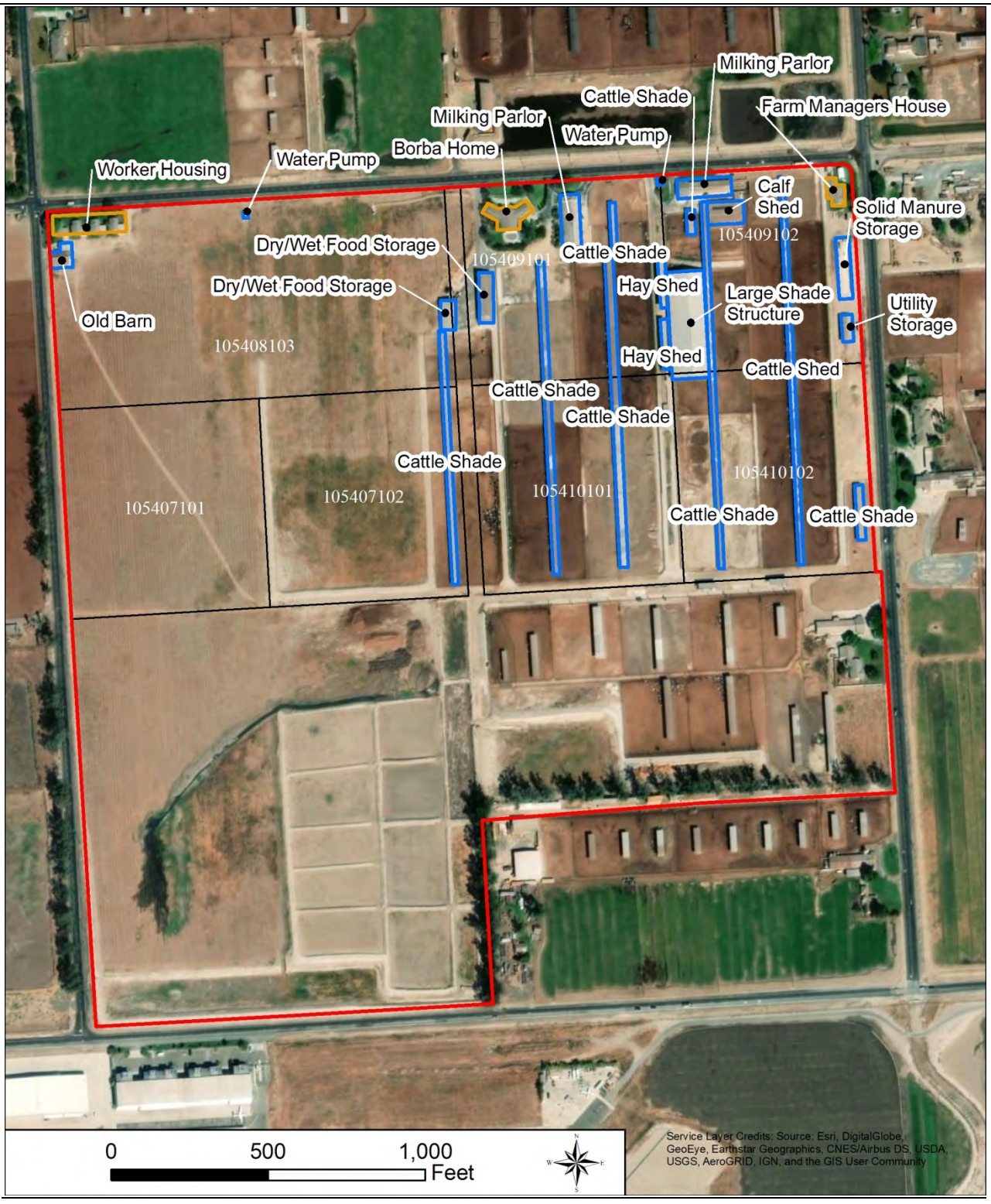
B10 Statement of Significance, continued:

Criterion f.: The Borba & Son Dairy property does not embody elements that represent significant dairy technology, or design of a factory farm, constructed in the 1960s. The Borba & Son Dairy Farm operation presents the type of large scale, dry lot, milking operation widely used across California where urban growth pushes against agrarian interests. (And why the Williamson Act was enacted to protect agricultural and open space land.)

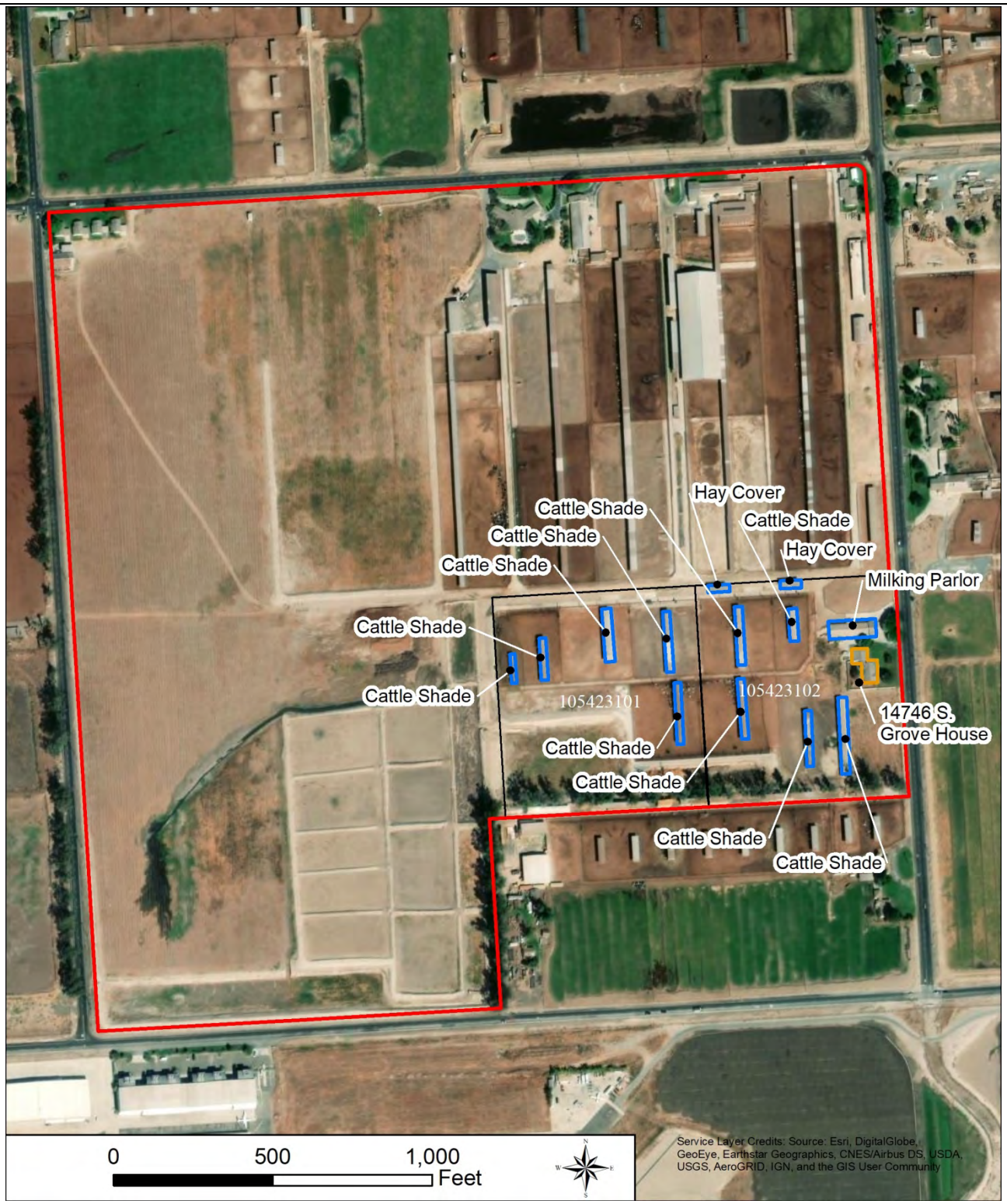
Criterion g.: The Main House and Dairy Barns of Borba & Son Dairy are not located in a unique location. The farm is just one of many dating from the 1960s that are still located in the Chino Valley-Ontario area.

Criterion h.: Large capacity dairies continue to operate across California. Many of the dairy farmers who are leaving the Chino Valley area are moving north to Tulare, Merced, and Kern Counties. They are constructing dairy operations that are based upon the same basic physical design, but are being outfitted with technologically advanced milking, animal husbandry, and herd control devices. The Borba & Son Dairy is not an important or significant example of a large capacity dairy, and its loss would not adversely affect the history of dairy operations in Ontario.

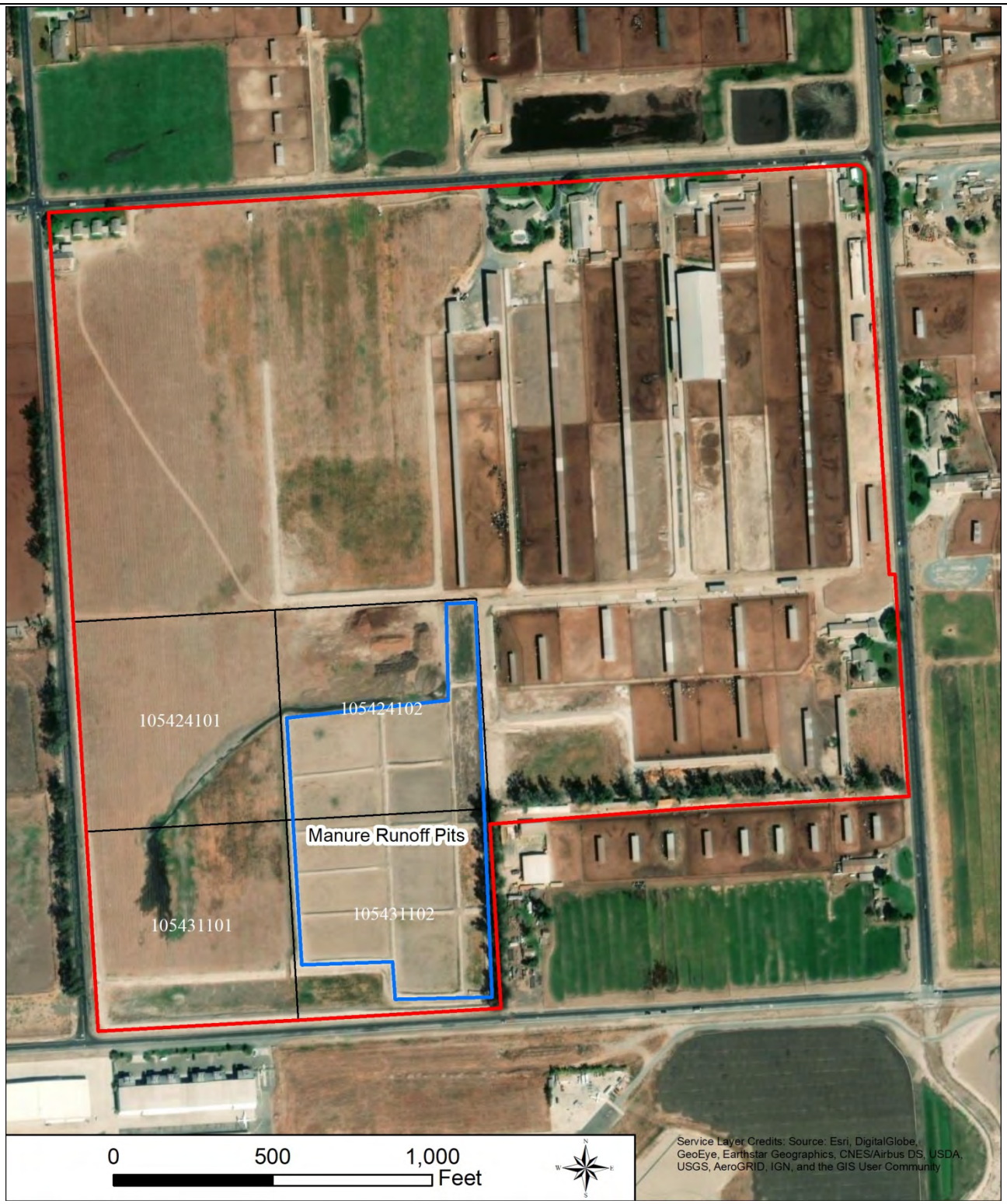
The Borba & Son Dairy property has not been identified as a contributing member of any indentified Historic District of thematically related groupings of Large Capacity Dairy farms in the Model Colony Area.



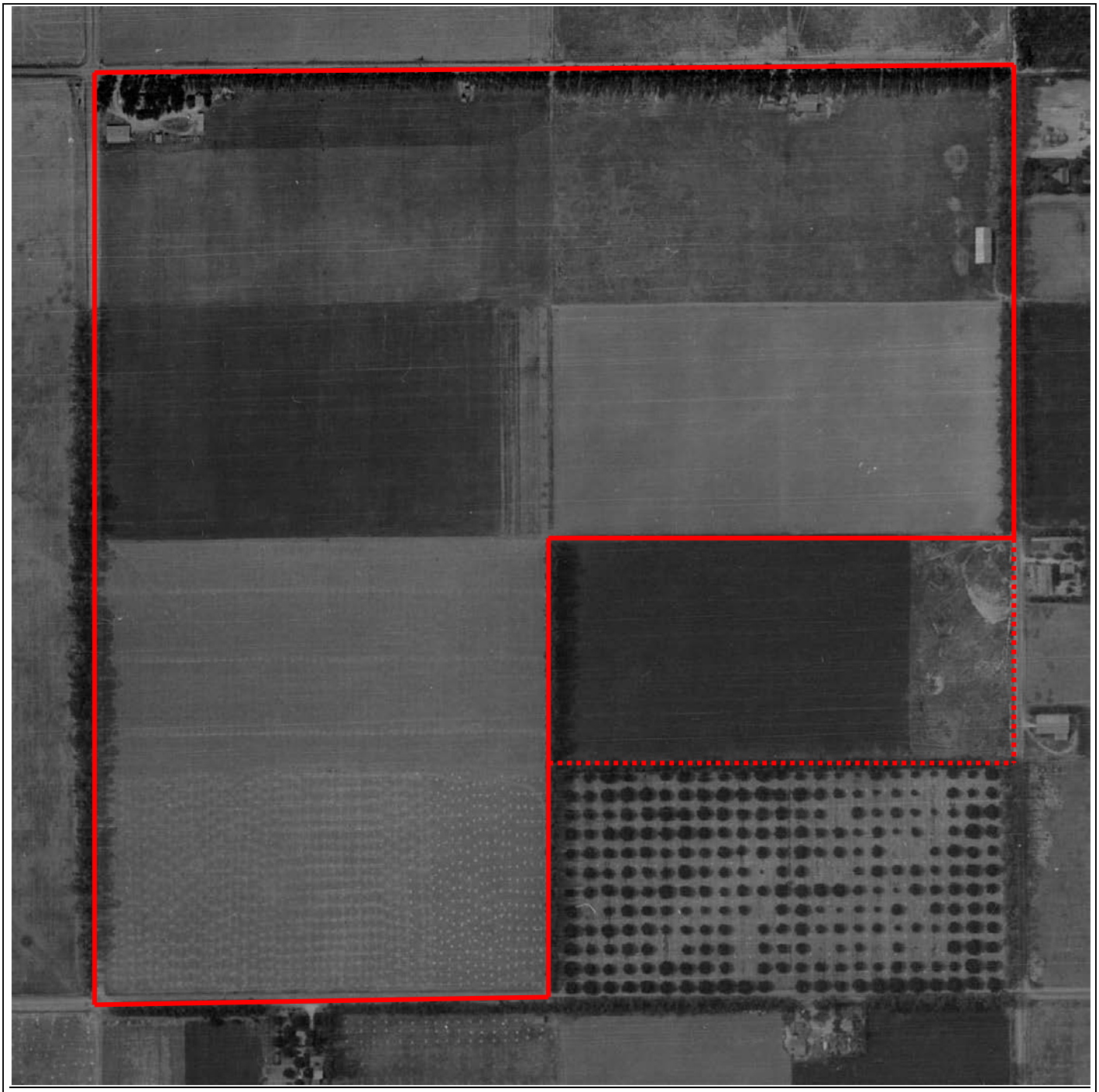
Buildings and structures located on APNs: 1054-081-03-0000, 1054-071-01-0000, 1054-071-02-0000, 1054-091-01-0000, 1054-091-02-0000,1054-101-01-0000, 1054-101-02-0000.



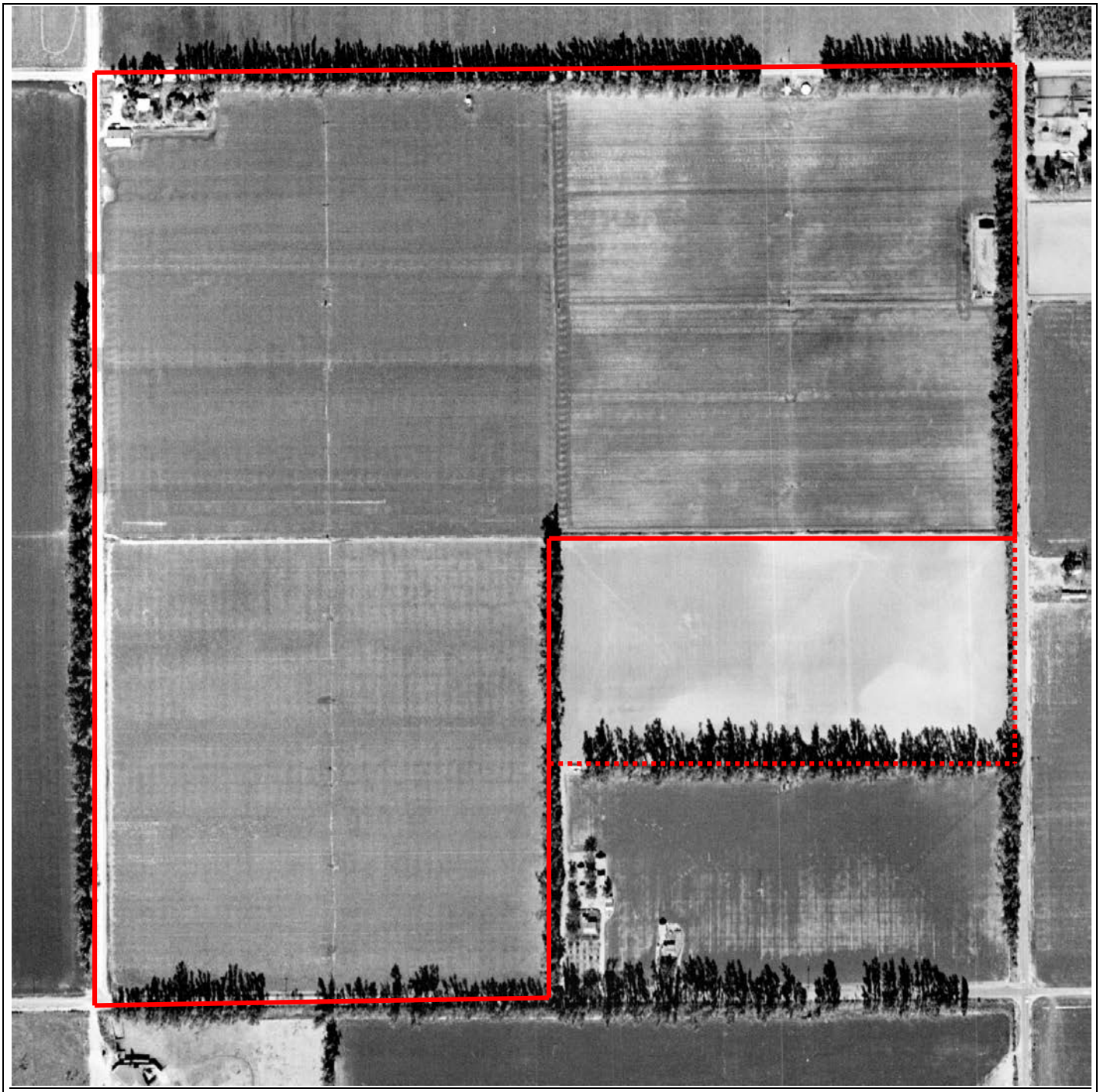
Buildings and structures located on APNs: 1054-231-01-0000, 1054-231-02. This was the Boersma Dairy Farm 1960-1993.



Buildings and structures located on APNs: 1054-241-01-0000, 1054-241-02-0000, 1054-311-01-0000, 1054-311-02-0000.



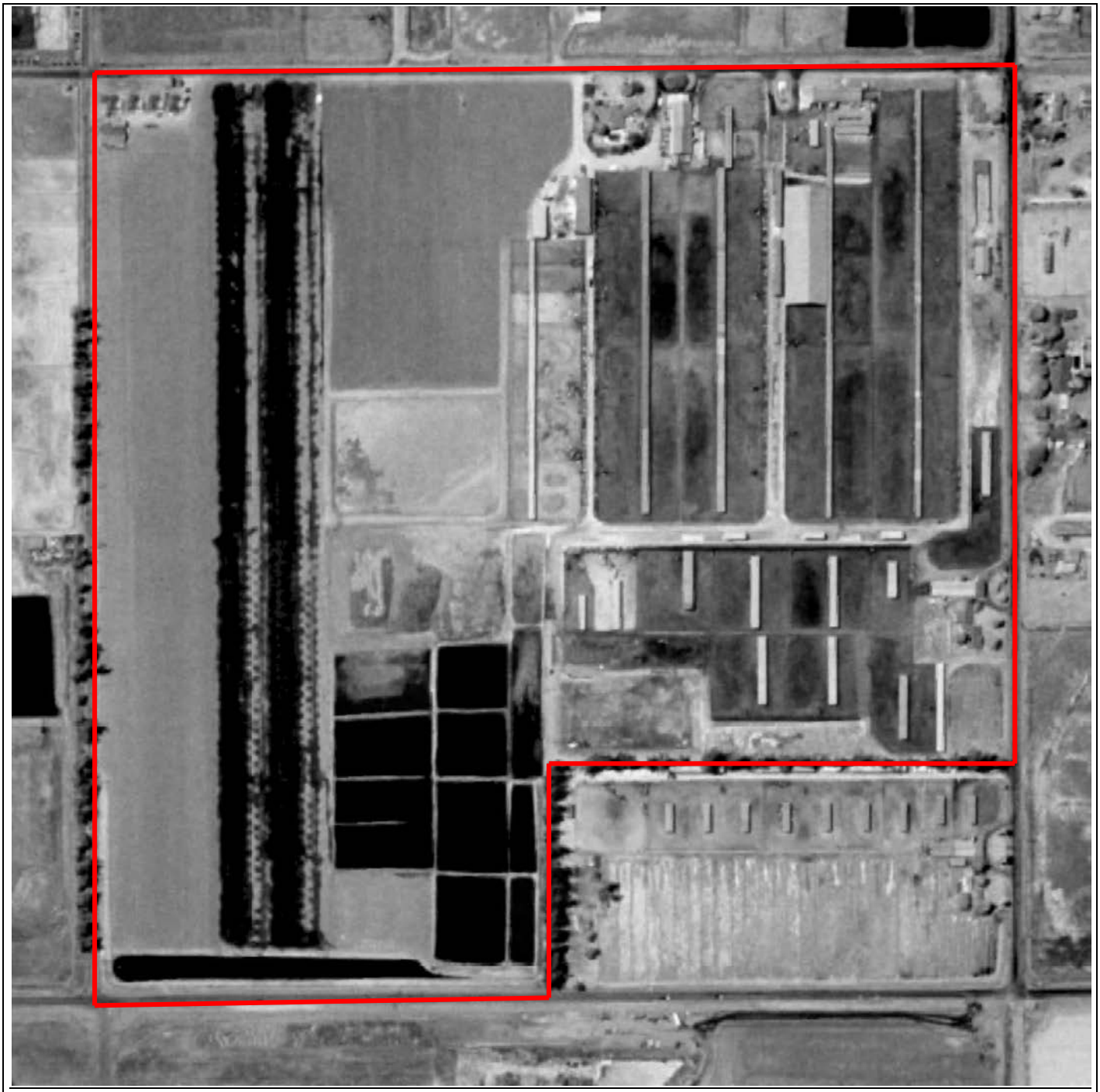
Aerial view in 1938 of what will be:
Solid line: will be the George Borba & Son property in 1963
Dotted line: will be the Harry Boersma property in 1960



Aerial view in 1959 of what will be:
the George Borba & Son property in 1963
the Harry Boersma property in 1960

Aerial view in 1966 of:
the George Borba & Son property
the Harry Boersma property

*Recorded by: Pamela Daly, M.S.H.P. *Date: June 14, 2019 ■ Continuation ☐ Update



Aerial view in 2002 of:
the George Borba & Son Dairy property that now includes the Harry Boersma property

Borba Dairy Main House. View looking southeast.

Borba Dairy Main House, front elevation. View looking west.

North (front) and west elevations of Main Dairy Barn. View looking southeast.

West (front) and north elevations of Auxiliary Dairy Barn. View looking southeast.

Farm manager's house. View looking west.

Farm manager's house. View looking northwest.

Residence built by Boersma. View looking west.

Boersma-Borba House. View looking southwest.

Dairy barn built for Harry Boersma Farm, bought by Borba in 1993. View looking west.

Boersma-Borba Dairy barn. View looking northwest.

Single-family residences, built by Borba in 1988. View looking southeast.

Single-family residences. View looking southwest.

Storage barn. View looking southeast.

Storage barn. View looking northeast.

Dry feed sorter. View looking south.

Dry feed sorter. View looking southwest.

Wet food mixing bay. View looking northwest.

Cattle shade east of Main Dairy Barn. View looking south.

Cattle shade east of Auxiliary Dairy Barn. View looking south.

Water pump located west of Main House, along Eucalyptus Ave. View looking east.

Water pump and tank located immediately west of Auxiliary Dairy Barn. View looking north

Dry manure-holding structure on South Grove Ave. View looking south.

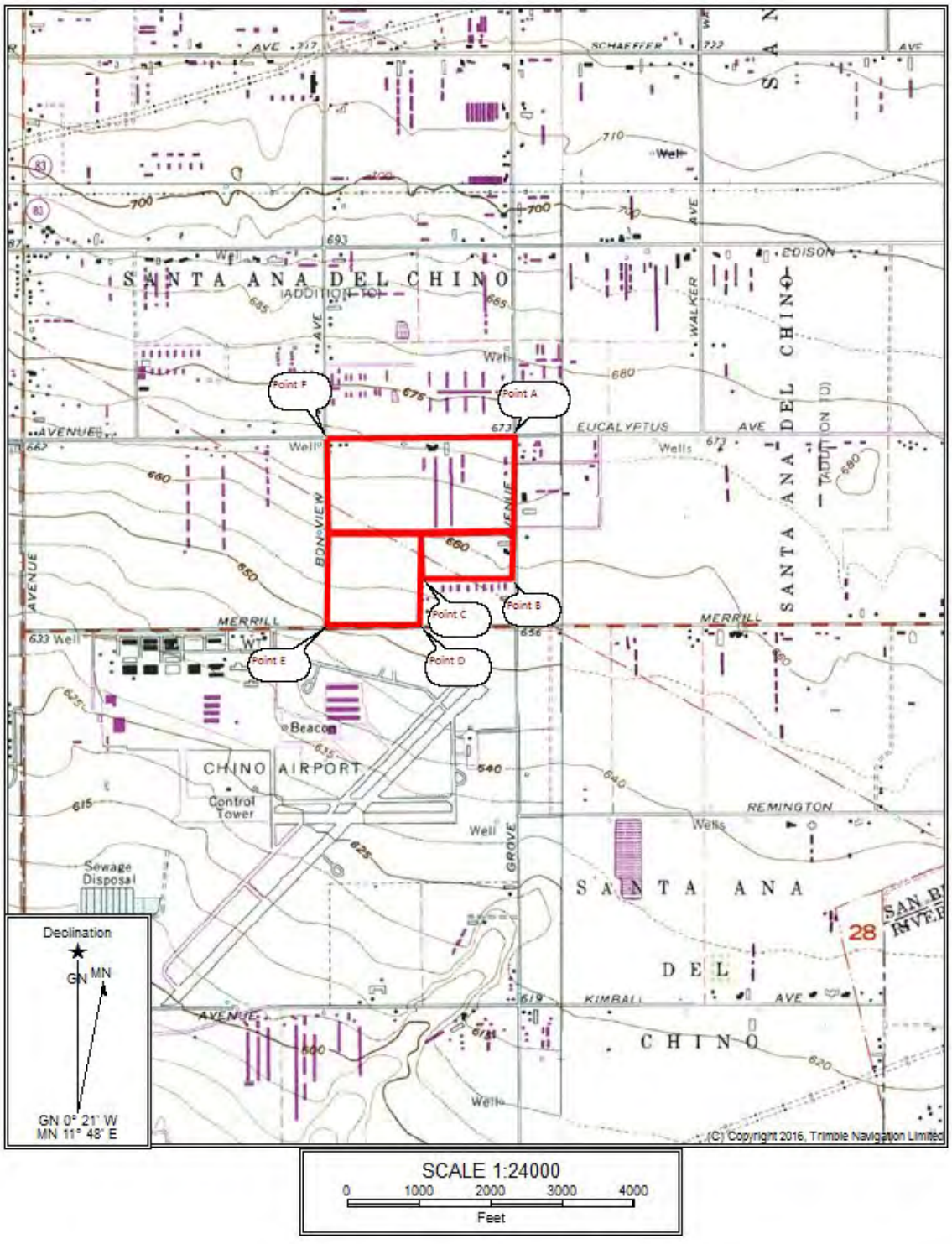
Hay shed (left) across from gable cow shade structure. View looking south.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI#
Trinomial

Page 30 **of** 30 ***Resource Name or #:** George Borba & Son Dairy
***Map Name:** Prado Dam ***Scale:** 1:24,000 ***Date of Map:** 1981



DPR 523J (1/95) ***Required information**

APPENDIX D2

NATIVE AMERICAN CONSULTATION

NAHC CONSULTATION

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Merri Lopez-Keifer
Luiseño

PARLIAMENTARIAN
Russell Attebery
Karuk

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Julie Tumamait-Stenslie
Chumash

COMMISSIONER
[**Vacant**]

COMMISSIONER
[**Vacant**]

COMMISSIONER
[**Vacant**]

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

January 28, 2021

Alexis Vaughn
City of Ontario

Via Email to: avaughn@ontarioca.gov

Re: Native American Consultation, Pursuant to Senate Bill 18, Government Code §65352.3 and §65352.4, South Ontario Logistics Center Specific Plan Project, San Bernardino County

Dear Ms. Vaughn:

Attached is a consultation list of tribes with traditional lands or cultural places located within the boundaries of the above referenced counties.

Government Code §65352.3 and §65352.4 require local governments to consult with California Native American tribes identified by the Native American Heritage Commission (NAHC) for the purpose of avoiding, protecting, and/or mitigating impacts to cultural places when creating or amending General Plans, Specific Plans and Community Plans.

The law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction. The NAHC believes that this is the best practice to ensure that tribes are consulted commensurate with the intent of the law.

The NAHC also believes that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

    - A listing of any and all known cultural resources that have already been recorded or are adjacent to the APE, such as known archaeological sites;
    - Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
    - Whether the records search indicates a low, moderate or high probability that unrecorded cultural resources are located in the APE; and
    - If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

    - Any report that may contain site forms, site significance, and suggested mitigation measures.

All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code §6254.10.

3. The result of the Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was negative.

4. Any ethnographic studies conducted for any area including all or part of the APE; and

5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event, that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we are able to assure that our consultation list remains current.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Tribal Consultation List
San Bernardino County
1/28/2021

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 — Gabrieleno
Covina, CA, 91723
Phone: (626) 926 - 4131
admin@gabrielenoindians.org

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 — Gabrieleno
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626) 286-1262
GTTribalcouncil@aol.com

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 — Gabrielino
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490 — Gabrielino
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com

Gabrielino-Tongva Tribe
Charles Alvarez,
23454 Vanowen Street — Gabrielino
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com

Quechan Tribe of the Fort Yuma Reservation
Jill McCormick, Historic Preservation Officer
P.O. Box 1899 — Quechan
Yuma, AZ, 85366
Phone: (760) 572 - 2423
historicpreservation@quechantribe.com

Santa Rosa Band of Cahuilla Indians
Lovina Redner, Tribal Chair
P.O. Box 391820 — Cahuilla
Anza, CA, 92539
Phone: (951) 659 - 2700
Fax: (951) 659-2228
lsaul@santarosa-nsn.gov

Soboba Band of Luiseno Indians
Scott Cozart, Chairperson
P. O. Box 487 — Cahuilla, Luiseno
San Jacinto, CA, 92583
Phone: (951) 654 - 2765
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 6097.98 of the Public Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Government Code Sections 65352.3 and 65352.4 et seq for the proposed South Ontario Logistics Center Specific Plan Project, San Bernardino County.

SAMPLE AB 52 CONSULTATION LETTER

CITY OF ONTARIO
303 EAST B STREET | ONTARIO, CALIFORNIA 91764
(909) 395-2000 FAX (909) 395-2070 OntarioCA.gov

PAUL S. LEON
MAYOR

ALAN D. WAPNER
MAYOR PRO TEM

JIM W. BOWMAN
DEBRA DORST-PORADA
RUBEN VALENCIA
COUNCIL MEMBERS

SHEILA MAUTZ
CITY CLERK

JAMES R. MILHISER
TREASURER

SCOTT OCHOA
CITY MANAGER

DELIVERED BY CERTIFIED MAIL

March 11, 2021

Andrew Salas
Gabrieleno Band of Mission Indians – Kizh Nation
P.O. Box 393
Covina, CA 91723

SUBJECT: **AB 52 NOTIFICATION – South Ontario Logistics Center Specific Plan / Nos. PSP19-001 & PGPA19-004**

Dear Mr. Salas:

The City of Ontario is evaluating a proposed Specific Plan and General Plan amendment, along with a Development Plan, Tentative Parcel Map, and Development Agreement ("Specific Plan" or "project"). The project is described below and illustrated on the attached map. The project is subject to the California Environmental Quality Act (CEQA). In accordance with Assembly Bill 52 (Public Resources Code Section 21080.3.1), California Native American Tribes may request consultation regarding possible significant effects that implementation of the proposed project may have on tribal cultural resources. A request for consultation must be received within 30 days of the date of this letter. The request must be in writing to the City of Ontario and must identify a lead contact person. If consultation is requested, the City of Ontario will begin the consultation process within 30 days.

The project and contact information are provided below:

Project Name/File No.: South Ontario Logistics Center Specific Plan (File Nos. PSP19-001 **&** PGPA19-004)

Project Location: The project site is bound by Eucalyptus Avenue to the north, existing right-of-way for the future Campus Avenue extension to the west, Merrill Avenue to the south, and Grove Avenue to the east. Regional location and local vicinity maps are provided in Figure 1, *Regional Location Map* and Figure 2, *Vicinity Map,* respectively. The project site is located in southwestern San Bernardino County, within the City of Ontario. The City of Ontario is located approximately 40 miles from downtown Los Angeles, 20 miles from downtown San Bernardino, and 30 miles from Orange County. Regional access is available to the Project site via State Route 83 (SR-83) approximately one mile to the west, State Route 60 (SR-60) approximately three miles to the north, Interstate 15 (I-15) approximately five miles to the east, and State Route 91 (SR-91) approximately eight miles to the south. The attached exhibits depict the regional location

of the site (Exhibit 1); the project vicinity (Exhibit 2); aerial of the project site and surrounding area (Exhibit 3); and, USGS Map (Exhibit 4).

The proposed Project site consists of 23 parcels that are associated with the San Bernardino County Assessor's Parcel Numbers (APNs) presented in Table 1.

Table 1: Assessor Parcel Numbers

1054-071-01	1054-071-02	1054-081-03	1054-091-01	1054-091-02
1054-101-01	1054-101-02	1054-231-01	1054-231-02	1054-241-01
1054-241-02	1054-321-01	1054-321-02	1054-311-01	1054-311-02
1054-051-01	1054-051-02	1054-061-01	1054-061-02	1054-251-01
1054-251-02	1054-301-01	1054-301-02		

Project Description: The proposed Project site is currently occupied by agricultural uses, including a dairy farm and row crops, and vacant land. There are several residential structures located throughout the Project site. Dairy farming and agriculture have been the primary uses of the property since the 1930s or earlier. The Project also includes dairy barns, a storage structure, feed storage barns, and numerous livestock corrals. There are large existing retention ponds that collect agricultural waste.

The Project includes a General Plan Amendment, Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s) to allow development of approximately 5.4 million square feet (SF) of industrial and business park land uses on the 222.18-acre site, as described further below. The Project is proposed in two phases. Phase I, comprised of Planning Areas 1 and 2, would allow approximately 3,172,780 SF of industrial and business park uses. Phase I is depicted in Exhibit 2, Concept Site Plan, and will be evaluated at a project-specific level in the EIR. The Development Plan for Phase I currently proposes the construction of eight industrial concrete tilt-up industrial/warehouse buildings totaling 2,926,955 SF of industrial/warehouse and ancillary office space. The EIR will also evaluate, at a programmatic level, the potential future development of Phase II, which is comprised of Planning Areas 3, 4 and 5 (no specific development proposals have been identified for the Phase II area). The EIR will evaluate the total maximum allowable development in the Specific Plan, which is 5,412,591 SF of industrial and business park land uses and associated onsite and offsite infrastructure improvements.

The following summarize the discretionary approvals to be evaluated in the EIR as part of the Project review and approval process by the City of Ontario.

General Plan Amendment (GPA). The proposed GPA would amend the City's General Plan Land Use Map by changing the existing land use designations of the 222.18-acre Project site from 159.04 acres of "Low Medium Density Residential" and 63.14 acres of "Business Park" to 181.04 acres of "General Industrial," and 41.14 acres of "Business Park," to facilitate development of the Project site.

South Ontario Logistics Center Specific Plan (SP). The SP proposes a comprehensive land use plan, circulation plan, streetscape plan, infrastructure service plan, grading plan, maintenance plan, phasing plan, design guidelines, development regulations, and implementation measures to guide the development of the 222.18-acre Project site into a master-planned industrial/business park. The SP consists of five Planning Areas (PAs) which would accommodate a variety of industrial-serving commercial, low-intensity office, technology, manufacturing, and warehouse/distribution uses that are compatible with the Project site's location within Safety Zone 6 of the Chino Airport.

The SP would allow up to 5,412,591 SF of building space for these PAs combined. PAs 1 and 3 would be located along Eucalyptus Avenue frontage. PAs 2, 4, and 5 will be located south of the PAs 1 and 3, north of Merrill Avenue, along the Bon View Avenue frontage (west) and Grove Avenue (east). The SP would establish two land use designations encompassing the SP area as follows:

- **Business Park:** The SP would allow for up to 1,075,235 SF of Business Park building space to be developed on a total of 41.14 gross acres within PAs 1 and 3. These PAs would be developed with business park buildings that would allow for the development of uses such as offices, technology centers, research and development, enterprises, light manufacturing and warehouse/distribution uses.
- **General Industrial:** The SP would allow up for up to 4,337,356 SF of Industrial building space to be constructed within PAs 2, 4 and 5. These PAs would comprise 181.04 gross acres and would allow for the development of uses such as general light industrial, manufacturing, warehouse/distribution, and e-commerce fulfillment center operations.

Housing Accountability Act (Senate Bill [SB] 330): The EIR will include evaluation of "replacement housing" in accordance with SB 330, the Housing Crisis Act of 2019 (Government Code Section 6300). SB 330 requires in part, that where a development project results in reducing the number of housing units allowed under existing zoning, the City must concurrently rezone other parcels such that there is no "net loss" of the total allowable housing development in the City. The City has evaluated the proposed Project, and has determined that it would result in the "loss" of approximately 1,352 low to moderate density housing units (due to the proposed rezoning and associated General Plan Amendment and Zone Change). Therefore, the City is evaluating replacement sites for rezoning to ensure that there is no net loss in allowable housing density due to the Project: the City may either rezone a portion of Grove Avenue to create a higher density transit-friendly corridor, or may rezone two specific sites proposed by the applicant at slightly higher residential densities. Both options are shown in see Figure 6, ***SB330 Replacement Sites***. The EIR will evaluate the potential environmental impacts of rezoning this area for higher density residential uses at a programmatic level, as no specific development has been proposed for these sites and no site-specific applications have been submitted to the City at this time.

Background: The City is preparing an Environmental Impact Report (EIR) for the project and will be incorporating project-specific mitigation measures along with standard The Ontario Plan (General Plan) set mitigation measures from the Certified Environmental Impact Report (FEIR) prepared for The Ontario Plan that was adopted in 2010. At minimum, the following Cultural Resources mitigation measure will be required for the project:

1. Should any cultural and/or archaeological resources be accidentally discovered during construction, construction activities shall be moved to other parts of the project site and a qualified archaeologist shall be contacted to determine the significance of these resources. If the find is determined to be an historical or unique archaeological resource, as defined in Section 15064.5 of the CEQA Guidelines, avoidance of other appropriate measures shall be implemented.

2. If paleontological resources are identified during any excavations, construction activities shall be moved to other parts of the project site and a qualified paleontologist shall be contacted to

determine the significance of these resources. If the find is determined to be significant, avoidance or other appropriate measures shall be implemented. One appropriate measure would include that a qualified paleontologist shall be permitted to recover and evaluate the find(s) in accordance with current standards and guidelines.

3. In the event of the accidental discovery or recognition of any human remains during excavation/construction, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the County Coroner has been contacted and any required investigation or required Native American consultation has been completed.

General Plan FEIR Cultural Resources Mitigation Measures:

5-1 Historic or potentially historic resources in the City shall be evaluated for historic significance through the City's tier system prior to the issuance of plan or development approvals.

5-2 In Areas of documented or inferred archaeological and/or paleontological resource presence, City staff shall require applicants for development permits to provide studies to document the presence/absence of such resources. On properties where resources are identified, such studies shall provide a detailed mitigation plan, including a monitoring program and recovery and/or in situ preservation plan, based on the recommendation of a qualified cultural preservation expert. The Mitigation plan shall include the following requirements:

a) Archaeologist and/or paleontologist shall be retained for the project and will be on call during grading and other significant ground-disturbing activities.

b) Should any cultural resources be discovered, no further grading shall occur in the area of the discovery until the Planning Director or designee is satisfied that adequate provisions are in place to protect these resources.

c) Unanticipated discoveries shall be evaluated for significance by a San Bernardino County Certified Professional Archaeologist/Paleontologist. If significance criteria are met, then the project shall be required to perform data recovery, professional identification, radiocarbon dates, and other special studies; submit materials to a museum for permanent curation; and provide a comprehensive final report including catalog with museum numbers.

Cultural Resources Analysis: The project is required to prepare a cultural resources impact analysis and the results of which will be included in the project EIR. In March 2020, a phase 1 cultural and paleontological resources assessment records search information was provided by the Material Culture Consulting group. A copy of the report's Appendix B: Cultural Resources Records Search Results is enclosed. Further research will need to occur for Phase 2 of the Specific Plan area, should it be developed in the future.

ONTARIO PLANNING DEPARTMENT – AB 52 NOTIFICATION
FILE NO.: PSP19-001, PGPA19-004

Lead Agency Contact: Alexis Vaughn, City of Ontario, 303 East "B" Street, Ontario, California 91764.

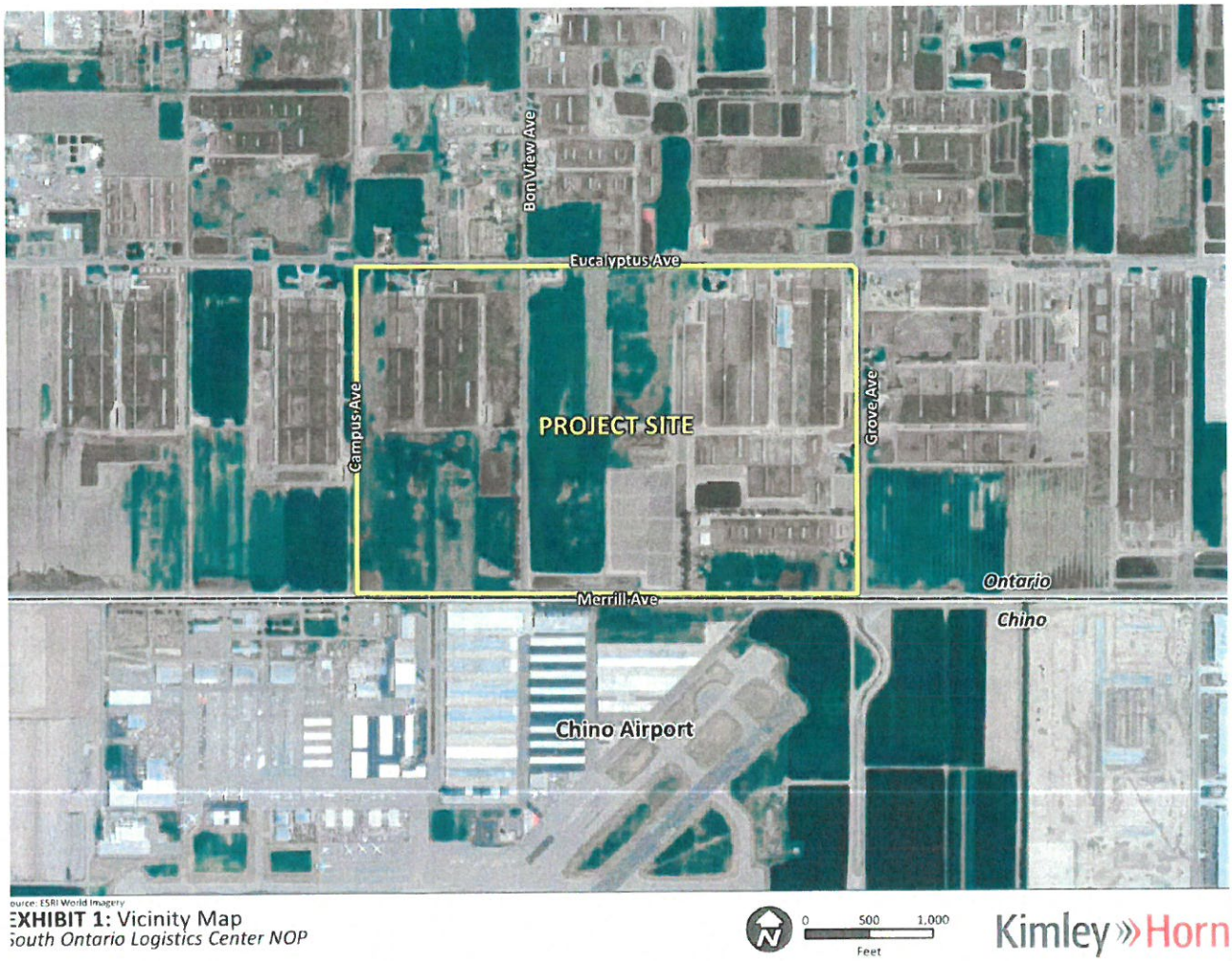
Should you have any questions regarding this matter, or require additional information or further clarification, please feel free to contact me by telephone at (909) 395-2416 or by e-mail at avaughn@ontarioca.gov. Thank you in advance for your timely attention to this matter.

Respectfully,

Alexis Vaughn
Assistant Planner
Enclosures

Figure 1, *Regional Location Map*

Figure 2, *Vicinity Map*



ource: ESRI World Imagery
EXHIBIT 1: Vicinity Map
South Ontario Logistics Center NOP

Kimley»Horn

Figure 3, USGS Map

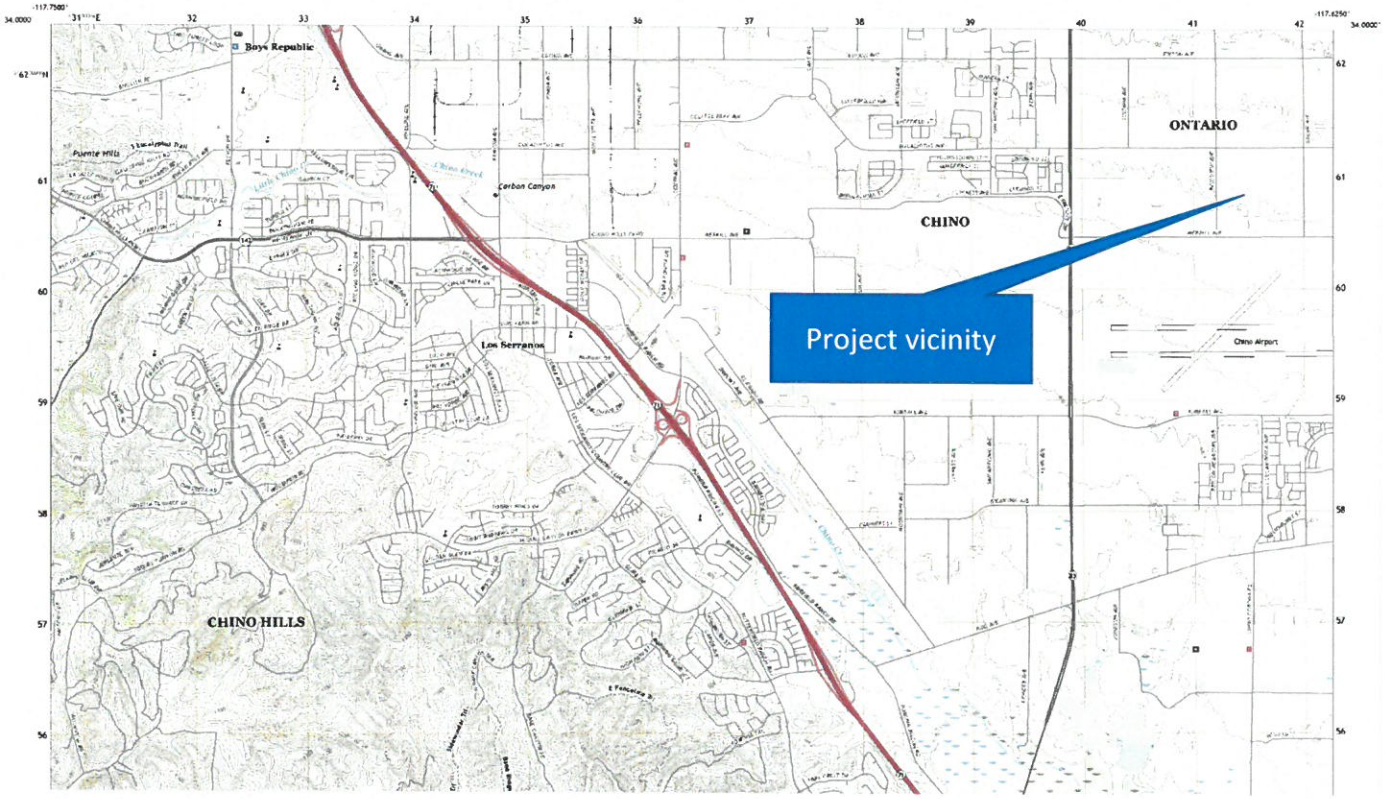
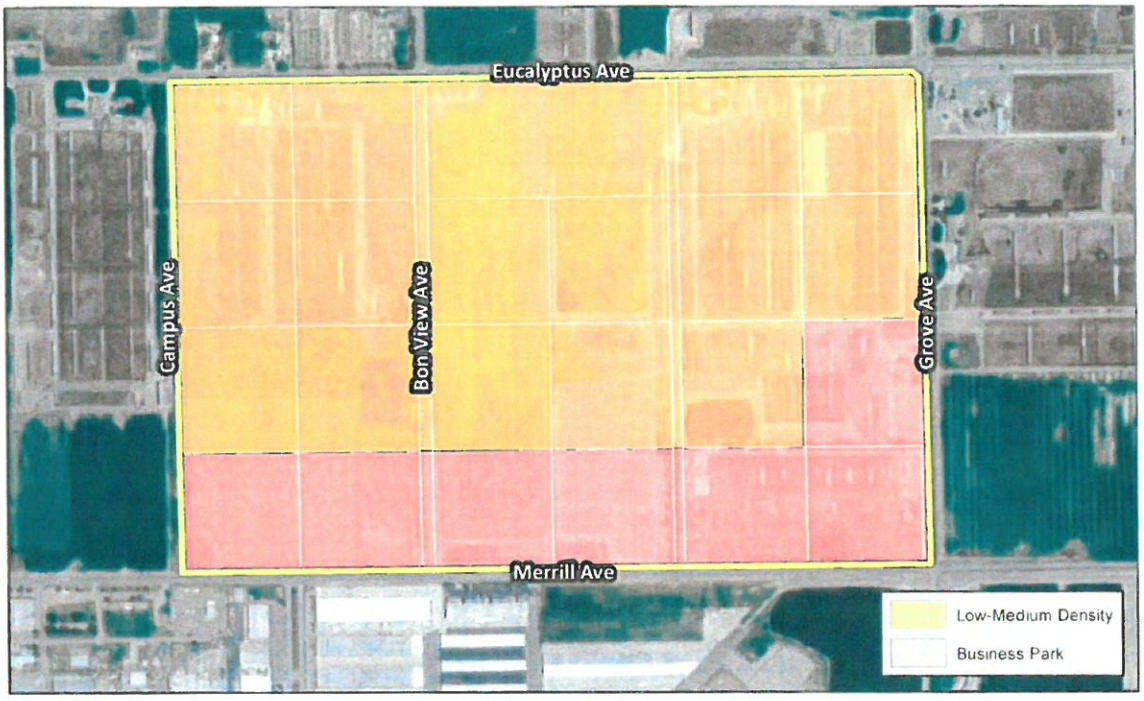
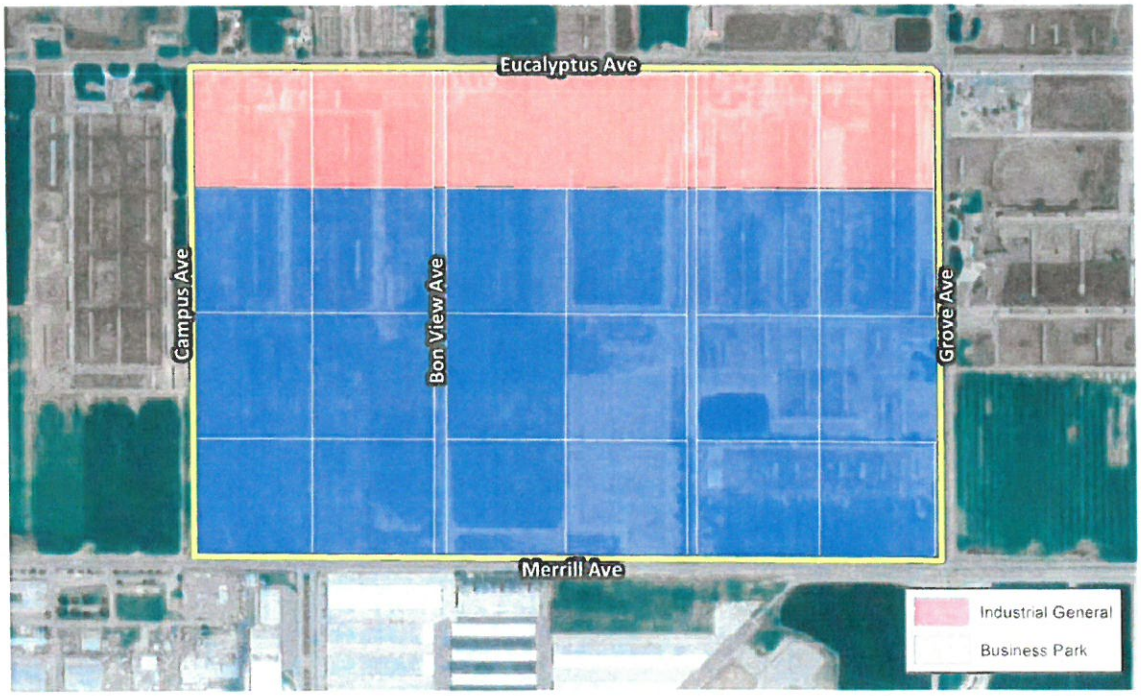


Figure 4, Existing and Proposed General Plan Land Use



Existing Land Use



Proposed Land Use

Source: Ontario General Plan; ESRI World Imagery

EXHIBIT 2: Proposed General Plan Land Uses
South Ontario Logistics Center NOP

0 500 1,000
Feet

Kimley»Horn

Figure 5, Proposed Specific Plan Land Use Plan

Figure 6, SB330 Replacement Sites

Source: City of Ontario

EXHIBIT 4: SB330 Replacement Sites
South Ontario Logistics Center NOP

Kimley»Horn

SAMPLE SB 18 CONSULTATION LETTER

CITY OF ONTARIO
303 EAST B STREET | ONTARIO, CALIFORNIA 91764
(909) 395-2000 FAX (909) 395-2070 OntarioCA.gov

PAUL S. LEON
MAYOR

ALAN D. WAPNER
MAYOR PRO TEM

JIM W. BOWMAN
DEBRA DORST-PORADA
RUBEN VALENCIA
COUNCIL MEMBERS

SHEILA MAUTZ
CITY CLERK

JAMES R. MILHISER
TREASURER

SCOTT OCHOA
CITY MANAGER

DELIVERED BY CERTIFIED MAIL

March 11, 2021

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas
P.O. Box 393
Covina, CA 91723

SUBJECT: **SB 18 NOTIFICATION – South Ontario Logistics Center Specific Plan / Nos. PSP19-001 & PGPA19-004**

Dear Mr. Salas:

In an effort to preserve and protect California Native American traditional tribal cultural places, the City of Ontario invites you to consult on the proposed Specific Plan, pursuant to Government Code 65352.3. The City of Ontario recognizes that the proposed project may have impacts to potential cultural resources and encourages tribal participation. It is important for the City and local Tribes to collaborate efforts in order to preserve cultural resources through the local planning process.

The project and contact information are provided below:

Project Name/File No.: South Ontario Logistics Center Specific Plan (File Nos. PSP19-001 **&** PGPA19-004)

Project Location: The project site is bound by Eucalyptus Avenue to the north, existing right-of-way for the future Campus Avenue extension to the west, Merrill Avenue to the south, and Grove Avenue to the east. Regional location and local vicinity maps are provided in Figure 1, *Regional Location Map* and Figure 2, *Vicinity Map,* respectively. The project site is located in southwestern San Bernardino County, within the City of Ontario. The City of Ontario is located approximately 40 miles from downtown Los Angeles, 20 miles from downtown San Bernardino, and 30 miles from Orange County. Regional access is available to the Project site via State Route 83 (SR-83) approximately one mile to the west, State Route 60 (SR-60) approximately three miles to the north, Interstate 15 (I-15) approximately five miles to the east, and State Route 91 (SR-91) approximately eight miles to the south. The attached exhibits depict the regional location

of the site (Exhibit 1); the project vicinity (Exhibit 2); aerial of the project site and surrounding area (Exhibit 3); and, USGS Map (Exhibit 4).

The proposed Project site consists of 23 parcels that are associated with the San Bernardino County Assessor's Parcel Numbers (APNs) presented in Table 1.

Table 1: Assessor Parcel Numbers

1054-071-01	1054-071-02	1054-081-03	1054-091-01	1054-091-02
1054-101-01	1054-101-02	1054-231-01	1054-231-02	1054-241-01
1054-241-02	1054-321-01	1054-321-02	1054-311-01	1054-311-02
1054-051-01	1054-051-02	1054-061-01	1054-061-02	1054-251-01
1054-251-02	1054-301-01	1054-301-02		

Project Description: The proposed Project site is currently occupied by agricultural uses, including a dairy farm and row crops, and vacant land. There are several residential structures located throughout the Project site. Dairy farming and agriculture have been the primary uses of the property since the 1930s or earlier. The Project also includes dairy barns, a storage structure, feed storage barns, and numerous livestock corrals. There are large existing retention ponds that collect agricultural waste.

The Project includes a General Plan Amendment, Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s) to allow development of approximately 5.4 million square feet (SF) of industrial and business park land uses on the 222.18-acre site, as described further below. The Project is proposed in two phases. Phase I, comprised of Planning Areas 1 and 2, would allow approximately 3,172,780 SF of industrial and business park uses. Phase I is depicted in Exhibit 2, Concept Site Plan, and will be evaluated at a project-specific level in the EIR. The Development Plan for Phase I currently proposes the construction of eight industrial concrete tilt-up industrial/warehouse buildings totaling 2,926,955 SF of industrial/warehouse and ancillary office space. The EIR will also evaluate, at a programmatic level, the potential future development of Phase II, which is comprised of Planning Areas 3, 4 and 5 (no specific development proposals have been identified for the Phase II area). The EIR will evaluate the total maximum allowable development in the Specific Plan, which is 5,412,591 SF of industrial and business park land uses and associated onsite and offsite infrastructure improvements.

The following summarize the discretionary approvals to be evaluated in the EIR as part of the Project review and approval process by the City of Ontario.

General Plan Amendment (GPA). The proposed GPA would amend the City's General Plan Land Use Map by changing the existing land use designations of the 222.18-acre Project site from 159.04 acres of "Low Medium Density Residential" and 63.14 acres of "Business Park" to 181.04 acres of "General Industrial," and 41.14 acres of "Business Park," to facilitate development of the Project site.

South Ontario Logistics Center Specific Plan (SP). The SP proposes a comprehensive land use plan, circulation plan, streetscape plan, infrastructure service plan, grading plan, maintenance plan, phasing plan, design guidelines, development regulations, and implementation measures to guide the development of the 222.18-acre Project site into a master-planned industrial/business park. The SP consists of five Planning Areas (PAs) which would accommodate a variety of industrial-serving commercial, low-intensity office, technology, manufacturing, and warehouse/distribution uses that are compatible with the Project site's location within Safety Zone 6 of the Chino Airport.

The SP would allow up to 5,412,591 SF of building space for these PAs combined. PAs 1 and 3 would be located along Eucalyptus Avenue frontage. PAs 2, 4, and 5 will be located south of the PAs 1 and 3, north of Merrill Avenue, along the Bon View Avenue frontage (west) and Grove Avenue (east). The SP would establish two land use designations encompassing the SP area as follows:

- **Business Park:** The SP would allow for up to 1,075,235 SF of Business Park building space to be developed on a total of 41.14 gross acres within PAs 1 and 3. These PAs would be developed with business park buildings that would allow for the development of uses such as offices, technology centers, research and development, enterprises, light manufacturing and warehouse/distribution uses.
- **General Industrial:** The SP would allow up for up to 4,337,356 SF of Industrial building space to be constructed within PAs 2, 4 and 5. These PAs would comprise 181.04 gross acres and would allow for the development of uses such as general light industrial, manufacturing, warehouse/distribution, and e-commerce fulfillment center operations.

Housing Accountability Act (Senate Bill [SB] 330): The EIR will include evaluation of "replacement housing" in accordance with SB 330, the Housing Crisis Act of 2019 (Government Code Section 6300). SB 330 requires in part, that where a development project results in reducing the number of housing units allowed under existing zoning, the City must concurrently rezone other parcels such that there is no "net loss" of the total allowable housing development in the City. The City has evaluated the proposed Project, and has determined that it would result in the "loss" of approximately 1,352 low to moderate density housing units (due to the proposed rezoning and associated General Plan Amendment and Zone Change). Therefore, the City is evaluating replacement sites for rezoning to ensure that there is no net loss in allowable housing density due to the Project: the City may either rezone a portion of Grove Avenue to create a higher density transit-friendly corridor, or may rezone two specific sites proposed by the applicant at slightly higher residential densities. Both options are shown in see Figure 6, ***SB330 Replacement Sites***. The EIR will evaluate the potential environmental impacts of rezoning this area for higher density residential uses at a programmatic level, as no specific development has been proposed for these sites and no site-specific applications have been submitted to the City at this time.

Background: The City is preparing an Environmental Impact Report (EIR) for the project and will be incorporating project-specific mitigation measures along with standard The Ontario Plan (General Plan) set mitigation measures from the Certified Environmental Impact Report (FEIR) prepared for The Ontario Plan that was adopted in 2010. At minimum, the following Cultural Resources mitigation measure will be required for the project:

1. Should any cultural and/or archaeological resources be accidentally discovered during construction, construction activities shall be moved to other parts of the project site and a qualified archaeologist shall be contacted to determine the significance of these resources. If the find is determined to be an historical or unique archaeological resource, as defined in Section 15064.5 of the CEQA Guidelines, avoidance of other appropriate measures shall be implemented.

2. If paleontological resources are identified during any excavations, construction activities shall be moved to other parts of the project site and a qualified paleontologist shall be contacted to

determine the significance of these resources. If the find is determined to be significant, avoidance or other appropriate measures shall be implemented. One appropriate measure would include that a qualified paleontologist shall be permitted to recover and evaluate the find(s) in accordance with current standards and guidelines.

3. In the event of the accidental discovery or recognition of any human remains during excavation/construction, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the County Coroner has been contacted and any required investigation or required Native American consultation has been completed.

General Plan FEIR Cultural Resources Mitigation Measures:

5-1 Historic or potentially historic resources in the City shall be evaluated for historic significance through the City's tier system prior to the issuance of plan or development approvals.

5-2 In Areas of documented or inferred archaeological and/or paleontological resource presence, City staff shall require applicants for development permits to provide studies to document the presence/absence of such resources. On properties where resources are identified, such studies shall provide a detailed mitigation plan, including a monitoring program and recovery and/or in situ preservation plan, based on the recommendation of a qualified cultural preservation expert. The Mitigation plan shall include the following requirements:

a) Archaeologist and/or paleontologist shall be retained for the project and will be on call during grading and other significant ground-disturbing activities.

b) Should any cultural resources be discovered, no further grading shall occur in the area of the discovery until the Planning Director or designee is satisfied that adequate provisions are in place to protect these resources.

Unanticipated discoveries shall be evaluated for significance by a San Bernardino County Certified Professional Archaeologist/Paleontologist. If significance criteria are met, then the project shall be required to perform data recovery, professional identification, radiocarbon dates, and other special studies; submit materials to a museum for permanent curation; and provide a comprehensive final report including catalog with museum numbers.

I would like to assure you that the City of Ontario will enforce all above mitigation measures as set forth in the General Plan FEIR. In addition, project specific mitigations measures identified in the project's EIR will also be enforced.

Lead Agency Contact: Alexis Vaughn, City of Ontario, 303 East "B" Street, Ontario, California 91764.

In accordance with Government Code section 65352.3 (a)(2), please respond to this request for consultation within 90 days following receipt of this notification.

Should you have any questions regarding this matter, or require additional information or further clarification, please feel free to contact me by telephone at (909) 395-2416 or by e-mail at avaughn@ontarioca.gov. Thank you in advance for your timely attention to this matter.

Respectfully,

Alexis Vaughn
Assistant Planner
Enclosures

Figure 1, *Regional Location Map*

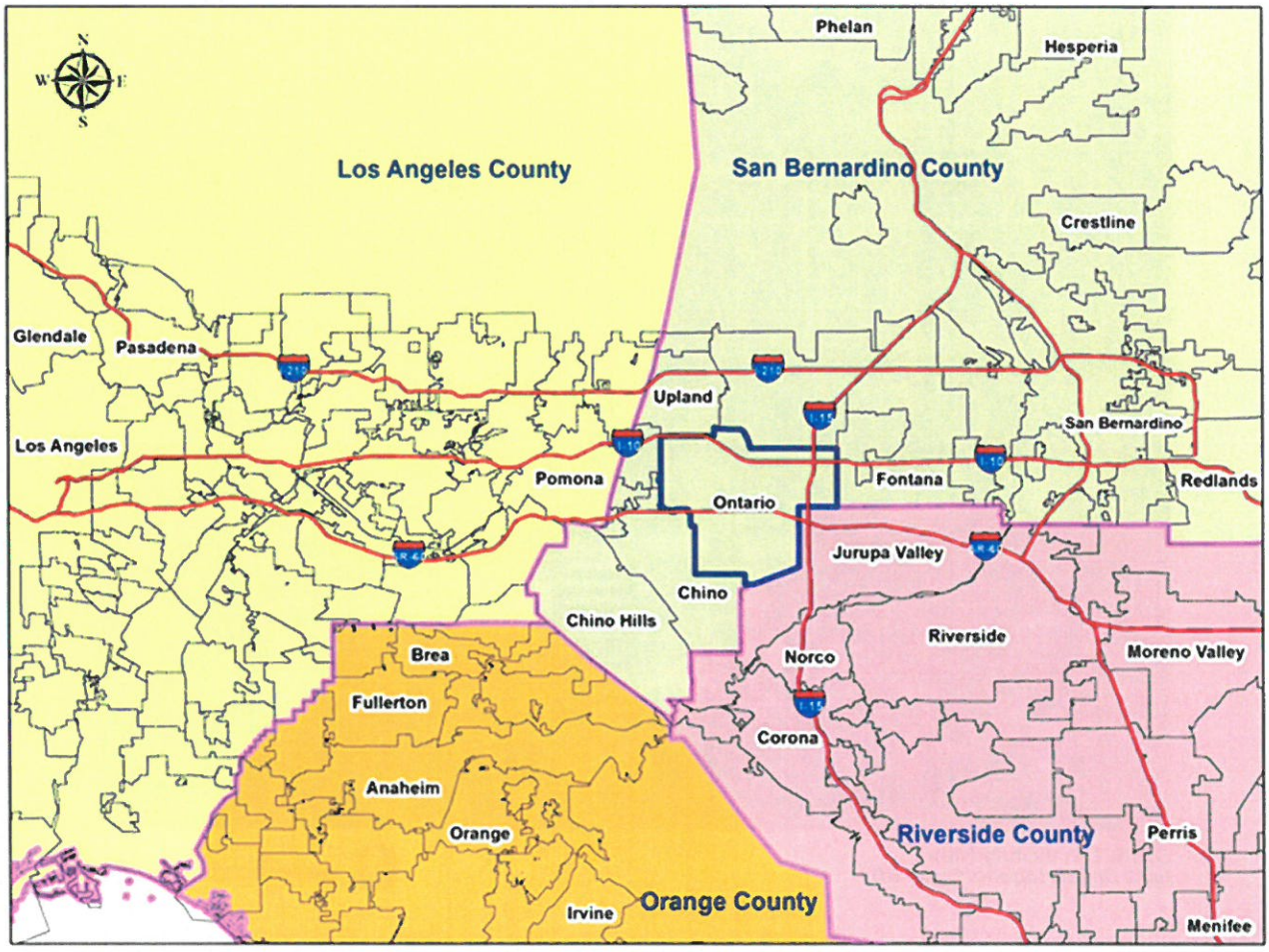
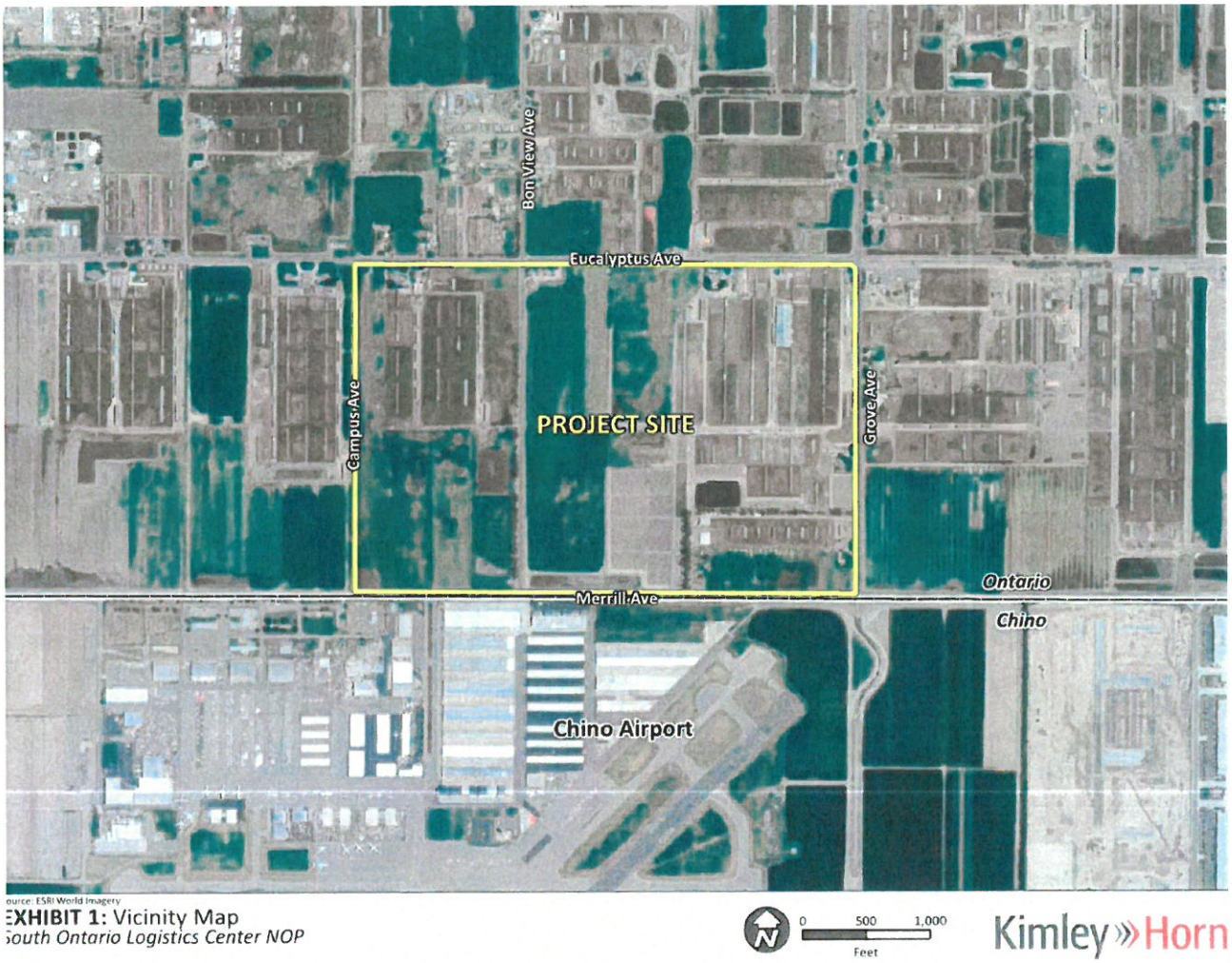


Figure 2, *Vicinity Map*

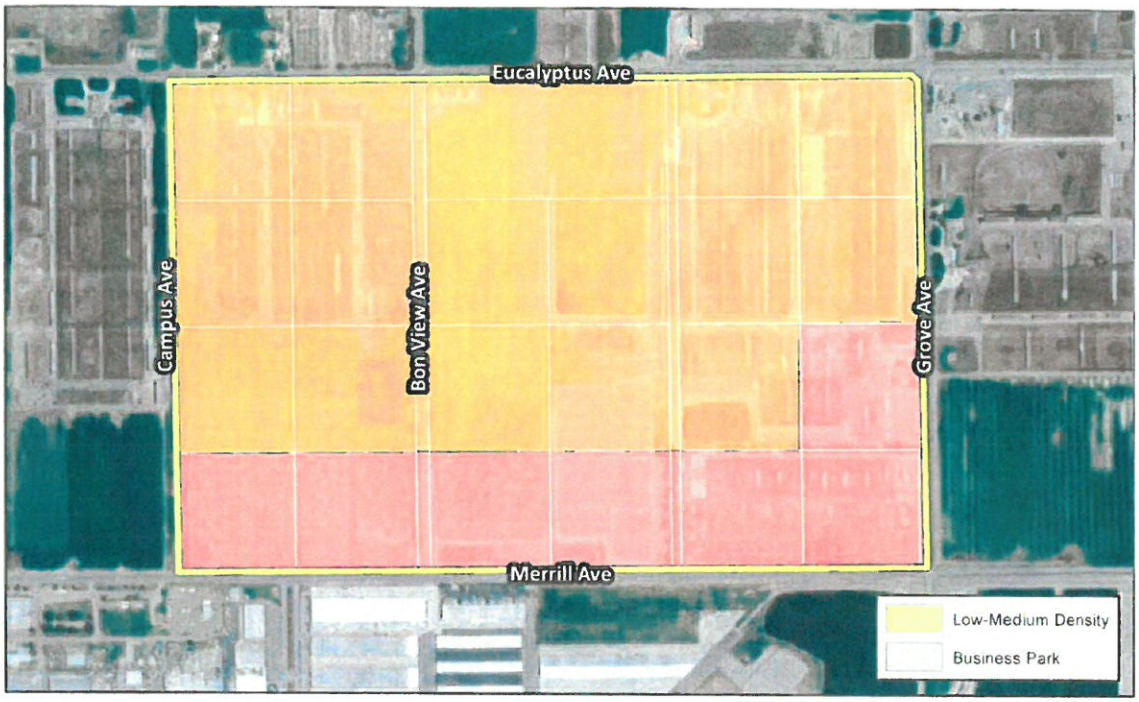


ource: ESRI World Imagery
EXHIBIT 1: Vicinity Map
South Ontario Logistics Center NOP

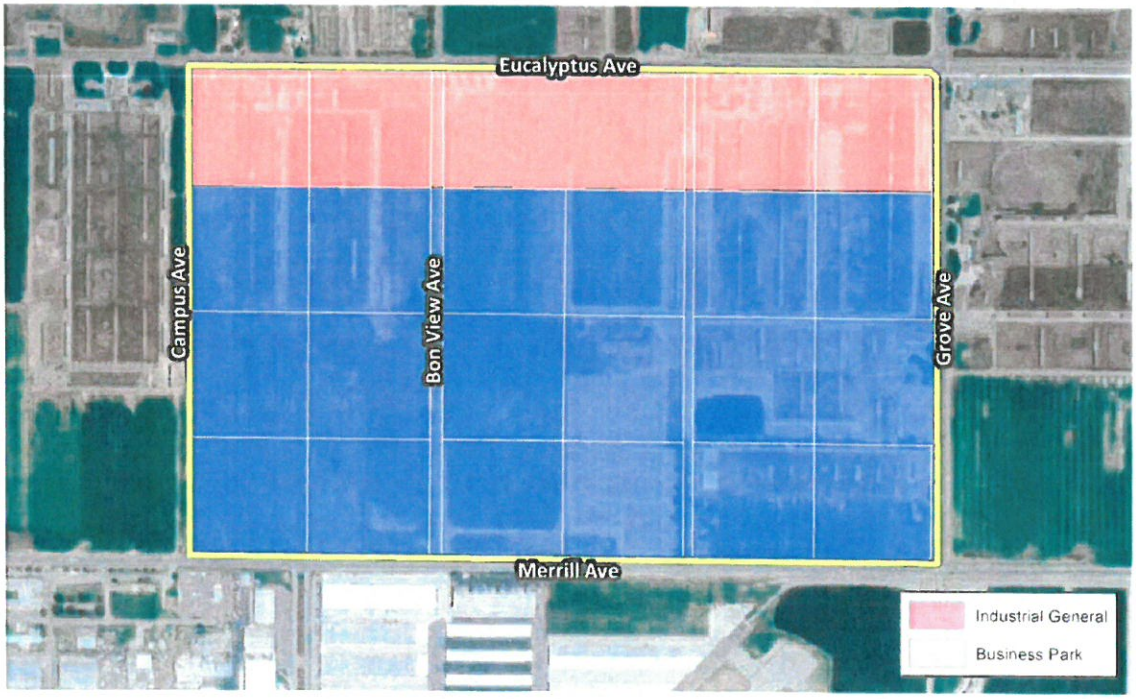
Kimley»Horn

Figure 3, USGS Map

Figure 4, Existing and Proposed General Plan Land Use



Existing Land Use



Proposed Land Use

Source: Ontario General Plan, ESRI World Imagery

EXHIBIT 2: Proposed General Plan Land Uses
South Ontario Logistics Center NOP

0 500 1,000
Feet

Kimley»Horn

Figure 5, Proposed Specific Plan Land Use Plan

Figure 6, SB330 Replacement Sites

EXHIBIT 4: SB330 Replacement Sites
South Ontario Logistics Center NOP

APPENDIX E

GEOLOGICAL RESOURCES REPORTS

APPENDIX E1

GEOTECHNICAL FEASIBILITY STUDY

GEOTECHNICAL FEASIBILITY STUDY
PROPOSED SOUTH ONTARIO LOGISTICS CENTER

SWC Eucalyptus Avenue and Grove Avenue
Ontario, California
For
REDA, LLC

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

September 26, 2019

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

REDA, LLC
4100 MacArthur Boulevard, Suite 120
Newport Beach, California 92660

Attention: Mr. Bill Goltermann

Project No.: **19G134-2**

Subject: **Geotechnical Feasibility Study**
Proposed South Ontario Logistics Center
SWC Eucalyptus Avenue and Grove Avenue
Ontario, California

Gentlemen:

In accordance with your request, we have conducted a geotechnical feasibility study at the subject site. We are pleased to present this report summarizing the conclusions and recommendations developed from our investigation.

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Daniel W. Nielsen, RCE 77915
Senior Engineer

Robert G. Trazo, M.Sc., GE 2655
Principal Engineer

Distribution: (1) Addressee

22885 Savi Ranch Parkway ▾ Suite E ▾ Yorba Linda ▾ California ▾ 92887
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Plate 2: Boring and Trench Location Plan
B Boring and Trench Logs
C Laboratory Testing
D Grading Guide Specifications
E Seismic Design Parameters

1.0 EXECUTIVE SUMMARY

Presented below is a brief summary of the conclusions and recommendations of this investigation. Since this summary is not all inclusive, it should be read in complete context with the entire report.

It should be noted that this investigation was focused on determining the geotechnical feasibility of the proposed development. **This report is not a design-level investigation. Future studies will be necessary to refine the preliminary design parameters that are presented within this report.**

Preliminary Geotechnical Design Recommendations

- Demolition of the existing structures, including the residence, milking barn, sheds, ponds, canopy shelters, and the existing pavements will be required in order to facilitate construction of the new buildings. Demolition of these structures should include all foundations, floor slabs, utilities, septic systems, and any other subsurface improvements that will not remain in place for use with the new development. Debris resultant from demolition should be disposed of offsite. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2 inch particle size, well mixed with the on-site soils, and incorporated into new structural fills or it may be crushed and made into crushed miscellaneous base (CMB).
- Site stripping of any existing vegetated areas should include all vegetation, organic soils, and root masses. These materials should be disposed of offsite. Site stripping should also include removal of all manure and any topsoil. These materials should also be disposed of off-site. Manure was observed throughout the cattle pen areas with thicknesses of up to 2± inches at the boring and trench locations. Additionally, some of the soils in the upper 6 to 24± inches in the cattle pen areas possess moderate to high organic contents.
- Existing undocumented fill soils were encountered most of the boring and trench locations, extending to depths of up to 3± feet. Potentially compressible native alluvial soils were at various depths throughout the upper 9 to 10± feet.
- The near-surface soils possess very low expansion potentials.
- The on-site soils possess moderate to high corrosion potentials. Some of the soils possess chloride concentrations that may be corrosive to steel within reinforced concrete. We recommend that the client contact a corrosion engineer for a more thorough evaluation.
- The proposed development is considered to be feasible with respect to the geotechnical conditions encountered at the boring and trench locations at the site. However, remedial grading will be necessary in order to support the proposed structures on conventional shallow foundation systems. Preliminary remedial grading and foundation design recommendations have been provided herein, based on the preliminary site plan, assumed site grading, and assumed foundation loads.
- Preliminarily, the overexcavations within the building areas are recommended to extend to a depth of at least 4 to 6 feet below existing grades and 3 to 4 feet below proposed building pad subgrade elevations. The overexcavation should also extend to a depth of at least 2 to 3 feet below bearing grade within the influence zones of any new foundations. These recommendations are subject to review and may be revised based on the results of the design-level geotechnical investigation.

- Preliminarily, the new parking area subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned to within 0 to 4 percent above the optimum moisture content and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.

Preliminary Foundation Design Recommendations

- Conventional shallow foundations, supported in newly placed compacted fill.
- 2,500 to 3,000 lbs/ft^2 maximum allowable soil bearing pressure.
- The design of the foundations will depend on the results of the future design-level geotechnical study. Minimum reinforcement consisting of two (2) to four (4) No. 5 rebars in strip footings. Additional reinforcement may be necessary for structural considerations.

Preliminary Floor Slab Design Recommendations

- Conventional slab-on-grade, minimum 6 to 7 inches thick.
- The design of the floor slabs will depend on the results of the future design-level geotechnical study. The actual thickness and reinforcement of the floor slabs should be determined by the structural engineer.

Preliminary Pavement Design Recommendations

ASPHALT PAVEMENTS (R = 30)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	6	8	10	11	13
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 30)				
Materials	**Thickness (inches)**			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in general accordance with our Proposal No. 19P305-2, dated July 29, 2019. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to determine the geotechnical feasibility of the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical feasibility study.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The subject site is located at the southwest corner of Eucalyptus Avenue and Grove Avenue in Ontario, California. The site is bounded to the north by Eucalyptus Avenue, to the west by Bon View Avenue, to the south by Merrill Avenue and an existing dairy farm, and to the east by Grove Avenue. The general location of the site is illustrated on the Site Location Map, enclosed as Plate 1 in Appendix A of this report.

The site is currently developed as a dairy farm. The eastern half of the subject site is presently developed with several cattle pens which include steel canopies, and steel barn. The northeastern portion of the site is developed with two (2) single-family residences, a milking parlor, and other structures associated with milking activities. The single-family residences appear to be of wood-frame and stucco construction, and are assumed to be supported on conventional shallow foundations with concrete slab-on-grade floors. The southeastern portion of the site is developed with multiple cattle pens, a 106,500± ft^2 wastewater pond, and a single-family residence in the southeastern corner. The ground surface cover surrounding the residences and the other structures generally consists of turf grass, aggregate base (AB), asphaltic concrete (AC), and concrete pavements, as well as manure in the cattle pen areas and exposed soils with sparse native grass and weed growth in the remaining areas of the site.

The western half of the site appears to be primarily utilized for agricultural purposes and wastewater storage. The ground surface cover generally consists of exposed soils with moderate to very dense native grass and weed growth. The northwestern corner of the site is developed with four (4) small farmhouses and a steel barn structure. The farmhouses appear to be of wood-frame and stucco construction, and are assumed to be supported on conventional shallow foundations with concrete slab-on-grade floors. The ground surface cover surrounding these structures consists of turf grass, concrete pavements, and exposed soil. The southern portion of the western half of the site contains ten (10) wastewater holding ponds ranging in size from 28,500± ft^2 to 90,000± ft^2 and depths ranging from 3 to 5± feet.

Topographic information of the subject site was prepared by Thienes Engineering, Inc. The site topography generally slopes downward to the south-southwest at a gradient of less than 1± percent. With the exception of the aforementioned wastewater holding ponds, the existing site grades range from an elevation of 675± feet mean sea level (msl) in the northeastern area of the site to 652± feet msl in the southwestern area.

3.2 Proposed Development

A conceptual site plan, prepared by HPA, Inc., was provided to our office by the client. This plan indicates that the site will be developed with eight (8) commercial/industrial buildings (identified as Buildings 1 through 8). Buildings 1 through 3 will occupy the majority of the subject site and will range from 473,335± ft^2 to 1,238,720± ft^2 in size. Buildings 1 and 2 will be constructed in

cross-dock configurations, and Building 3 will be constructed with dock-high doors along the southern building wall. Buildings 4 through 8 will be located in the northern region of the site along Eucalyptus Avenue, and will range from 67,490± ft² to 118,550± ft² in size. These buildings will be constructed with dock-high doors along the southern wall of each building. It is expected that the new buildings will be surrounded by asphaltic concrete pavements in the parking and drive lane areas, and Portland cement concrete pavements in the loading dock areas. We expect that several landscaped planters and areas of concrete flatwork will be constructed throughout the site.

Detailed structural information has not been provided. It is assumed that the commercial/industrial buildings will be single-story structures of tilt-up concrete construction, typically supported on conventional shallow foundations with concrete slab-on-grade floors. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 100 kips and 3 to 6 kips per linear foot, respectively.

Preliminary grading plans were not available at the time of this report. Based on the existing topography, and assuming a relatively balanced site, cuts and fills of up to 5± feet are expected to be necessary to achieve the proposed site grades within the proposed building areas. The proposed structures are not expected to incorporate any significant below-grade construction such as basements or crawl spaces. It should be noted that this estimate does not include the preliminary remedial grading recommendations which are presented in a subsequent section of this report.

3.3 Previous Study

Southern California Geotechnical, Inc. (SCG) previously performed infiltration testing at the subject site. The subsurface exploration for the previous study consisted of nine (9) infiltration test borings advanced to depths of 12 to 20± feet below the existing site grades. In addition to the nine (9) infiltration borings, one (1) exploratory boring was drilled to a depth of 60± feet. Disturbed alluvial soils were encountered at the ground surface at most of the infiltration test locations, extending to a depth of 3± feet below the existing site grades. The disturbed alluvial soils consisted of very loose to medium dense silty fine sands with varying amounts of medium sand. Native alluvial soils were encountered beneath the disturbed alluvium and at the ground surface at the exploratory boring and the remaining infiltration boring locations, extending to at least 60± feet. The alluvium consisted of soft to very stiff silty clays and fine sandy clays, and loose to dense fine sandy silts, silty fine sands, clayey fine sands, and fine sands with varying medium sand, silt, and clay content. Free water was not encountered during the drilling of any of the borings, and was considered to have existed at a depth in excess of 60± feet at the time of the previous subsurface exploration. Preliminary infiltration rates of 0 to 4.2 inches per hour were recommended to be used in the design of the proposed infiltration systems.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of six (6) borings advanced to depths of 20 to 25± feet below the existing site grades. In addition, five (5) trenches were excavated to depths of 4.5 to 10± feet below the existing site grades. The trenches were excavated using a backhoe with a 36-inch-wide bucket. All of the borings and trenches were logged during the drilling and excavation by members of our staff.

The borings were advanced with hollow-stem augers, by a truck-mounted drilling rig. Representative bulk and undisturbed soil samples were taken during drilling. Relatively undisturbed samples were taken with a split barrel "California Sampler" containing a series of one inch long, 2.416± inch diameter brass rings. This sampling method is described in ASTM Test Method D-3550. Samples were also taken using a 1.4± inch inside diameter split spoon sampler, in general accordance with ASTM D-1586. Both of these samplers are driven into the ground with successive blows of a 140-pound weight falling 30 inches. The blow counts obtained during driving are recorded for further analysis. Bulk samples were collected in plastic bags to retain their original moisture content. The relatively undisturbed ring samples were placed in molded plastic sleeves that were then sealed and transported to our laboratory.

The approximate locations of the borings (identified as Boring Nos. B-1 through B-6) and trenches (identified as Trench Nos. T-1 through T-5) are indicated on the Boring and Trench Location Plan, included as Plate 2 in Appendix A of this report. The Boring and Trench Logs, which illustrate the conditions encountered at the boring and trench locations, as well as the results of some of the laboratory testing, are included in Appendix B.

4.2 Geotechnical Conditions

Manure

Manure was present at the ground surface, within the cattle pen at Trench No. T-3, with a thickness of 1 to 2± inches below the existing site grades.

Artificial Fill

Artificial fill soils were encountered at the ground surface at Boring Nos. B-3 through B-6, and Trench Nos. T-I, T-2, T-4 and T-5, extending to depths of ½ to 3± feet below the existing site grades. The fill soils generally consist of very loose to medium dense silty fine sands to fine sandy silts with varying medium to coarse sand and fine to gravel content. The fill soils possess a disturbed appearance, resulting in their classification as artificial fill.

Alluvium

Native alluvium was encountered at the ground surface at Boring Nos. B-1 and B-2, beneath the manure at Trench No. T-3, and beneath the fill soils at the remaining boring and trench locations, extending to at least the maximum depth explored of 25± feet below the existing site grades. The near-surface alluvial soils generally consist of loose to medium dense fine sandy silts to silty fine sands, with varying medium sand and clay content, and occasional fine sands, with varying silt content, extending to depths of 4½ to 10± feet. At greater depths and extending to the maximum depth explored of 25± feet, the alluvial soils generally consist of medium stiff to stiff fine sandy clays, clayey silts, and silty clays, and occasional fine sands, with varying silt content. Boring No. B-2 encountered a medium dense layer consisting of silty fine to coarse sands at depths of 12 to 17± feet. Occasional very stiff to hard silty clay strata were encountered at depths between 8½ to 17± feet.

Groundwater

Free water was not encountered during the drilling of any of the borings nor during the excavation of the trenches. Based on the lack of any water within the borings and trenches, and the moisture contents of the recovered soil samples, the static groundwater table is considered to have existed at a depth in excess of 25± feet at the time of the subsurface exploration.

As part of our research, we reviewed available groundwater data in order to determine the historic high groundwater level for the site. Recent water level data was obtained from the California State Water Resources Control Board, GeoTracker, website, https://geotracker.waterboards.ca.gov/. The closest monitoring well in this database is located 200± feet from the southwestern corner of the subject site. Water level readings within this monitoring well indicates a high groundwater level of 83± feet below the ground surface, in April 2016.

5.0 LABORATORY TESTING

The soil samples recovered from the subsurface exploration were returned to our laboratory for further testing to determine selected physical and engineering properties of the soils. The tests are briefly discussed below. It should be noted that the test results are specific to the actual samples tested, and variations could be expected at other locations and depths.

Classification

All recovered soil samples were classified using the Unified Soil Classification System (USCS), in accordance with ASTM D-2488. The field identifications were then supplemented with additional visual classifications and/or by laboratory testing. The USCS classifications are shown on the Boring and Trench Logs and are periodically referenced throughout this report.

Dry Density and Moisture Content

The density has been determined for selected relatively undisturbed ring samples. These densities were determined in general accordance with the method presented in ASTM D-2937. The results are recorded as dry unit weight in pounds per cubic foot. The moisture contents are determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring and Trench Logs.

Consolidation

Selected soil samples have been tested to determine their consolidation potential, in accordance with ASTM D-2435. The testing apparatus is designed to accept either natural or remolded samples in a one-inch high ring, approximately 2.416 inches in diameter. Each sample is then loaded incrementally in a geometric progression and the resulting deflection is recorded at selected time intervals. Porous stones are in contact with the top and bottom of the sample to permit the addition or release of pore water. The samples are typically inundated with water at an intermediate load to determine their potential for collapse or heave. The results of the consolidation testing are plotted on Plates C-1 through C-8 in Appendix C of this report.

Soluble Sulfates

Representative samples of the near-surface soils were submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes into contact with these soils. The results of our soluble sulfate testing are presented below, and are discussed further in a subsequent section of this report.

Sample Identification	Soluble Sulfates (%)	Sulfate Classification
B-6 @ 0 to 5 feet	0.033	Not Applicable (S0)
T-3 @ 0 to 5 feet	0.049	Not Applicable (S0)

Corrosivity Testing

Representative bulk samples of the near-surface soils were submitted to a subcontracted analytical laboratory for determination of electrical resistivity, pH, and chloride concentrations. The resistivity of the soils is a measure of their potential to attack buried metal improvements such as utility lines. The results of the resistivity and pH testing are presented below:

Sample Identification	Resistivity (ohm-cm)	pH	Chlorides (mg/kg)
B-6 @ 0 to 5 feet	920	7.6	25
T-3 @ 0 to 3 feet	282	7.8	897

Organic Content Testing

Selected soil samples have been tested to determine their organic content, in accordance with ASTM Test Method 2974. The results of the testing are as follows:

Sample Identification	Organic Content (%)
T-1 @ 0 to 6 inches	6.2
T-1 @ 6 to 12 inches	4.1
T-2 @ 0 to 6 inches	5.1
T-2 @ 6 to 12 inches	5.3
T-3 @ 0 to 6 inches	5.1
T-3 @ 6 to 12 inches	2.8
T-3 @ 12 to 18 inches	3.7
T-3 @ 18 to 24 inches	4.5

Expansion Index

The expansion potential of the on-site soils was determined in general accordance with ASTM D-4829 as required by the California Building Code (CBC). The testing apparatus is designed to accept a 4-inch diameter, 1-in high, remolded sample. The sample is initially remolded to 50± 1 percent saturation and then loaded with a surcharge equivalent to 144 pounds per square foot. The sample is then inundated with water, and allowed to swell against the surcharge. The resultant swell or consolidation is recorded after a 24-hour period. The results of the EI testing are as follows:

Sample Identification	Expansion Index	Expansive Potential
B-1 @ 0 to 5 feet	0	Non-expansive
T-3 @ 0 to 3 feet	2	Very Low

Maximum Dry Density and Optimum Moisture Content

A representative bulk sample was tested to determine its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per

ASTM D-1557, and are presented on Plates C-9 in Appendix C of this report. This test is generally used for comparison with the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our review, field exploration, laboratory testing, and geotechnical analysis, the proposed development, which will consist of a new commercial/industrial development, is considered feasible from a geotechnical standpoint. The recommendations contained in this report should be taken into the design, construction, and grading considerations. The recommendations are contingent upon all grading and foundation construction activities being monitored by the geotechnical engineer of record.

Based on the preliminary nature of this investigation, further geotechnical investigation will be required prior to construction of the proposed development. The Grading Guide Specifications, included as Appendix D, should be considered part of this report, and should be incorporated into the project specifications. The contractor and/or owner of the development should bring to the attention of the geotechnical engineer any conditions that differ from those stated in this report, or which may be detrimental for the development.

6.1 Seismic Design Considerations

The subject site is located in an area which is subject to strong ground motions due to earthquakes. The performance of a site-specific seismic hazards analysis was beyond the scope of this investigation. However, numerous faults capable of producing significant ground motions are located near the subject site. Due to economic considerations, it is not generally considered reasonable to design a structure that is not susceptible to earthquake damage. Therefore, significant damage to structures may be unavoidable during large earthquakes. The proposed structures should, however, be designed to resist structural collapse and thereby provide reasonable protection from serious injury, catastrophic property damage and loss of life.

Faulting and Seismicity

Research of available maps indicates that the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Furthermore, SCG did not identify any evidence of faulting during the geotechnical investigation. Therefore, the possibility of significant fault rupture on the site is considered to be low.

The potential for other geologic hazards such as seismically induced settlement, lateral spreading, tsunamis, inundation, seiches, flooding, and subsidence affecting the site is considered low.

Seismic Design Parameters

The California Building Code (CBC) provides procedures for earthquake resistant structural design that include considerations for on-site soil conditions, occupancy, and the configuration of the structure including the structural system and height. The seismic design parameters presented below are based on the soil profile and the proximity of known faults with respect to the subject site.

Based on standards in place at the time of this report, the proposed development is expected to be designed in accordance with the requirements of the 2016 edition of the California Building Code (CBC). However, it is also possible that the proposed development may be designed using the 2019 CBC, which will be adopted on January 1, 2020. Therefore, this report provides design parameters for both the 2016 CBC and the 2019 CBC. Other design consultants should verify the version of the code under which the proposed development will be submitted.

The 2016 and 2019 CBC Seismic Design Parameters have been generated using the SEAOC/OSHPD Seismic Design Maps Tool, a web-based software application available at the website www.seismicmaps.org. This software application calculates seismic design parameters in accordance with several building code reference documents, including ASCE 7-10 and ASCE 7-16, upon which the 2016 CBC and 2019 CBC are based, respectively. The application utilizes a database of risk-targeted maximum considered earthquake (MCE_R) site accelerations at 0.01-degree intervals for each of the code documents. The tables below were created using data obtained from the application. The output generated from this program is included as Plates E-1A (2016 CBC) and E-1B (2019 CBC) in Appendix E of this report. Based on this output, the following parameters may be utilized for the subject site:

2016 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	S_S	1.500
Mapped Spectral Acceleration at 1.0 sec Period	S_1	0.600
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.500
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	0.900
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.000
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.600

The 2019 CBC requires that a site-specific ground motion study be performed in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped S_1 value greater than 0.2. However, Section 11.4.8 of ASCE 7-16 also indicates an exception to the requirement for a site-specific ground motion hazard analysis for certain structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) indicates that "In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites." **Based on our understanding of the proposed development, the seismic design parameters presented below were calculated assuming that the exception in Section 11.8.4 applies to the proposed structures at this site. However, the structural engineer should verify that this exception is applicable to the proposed structures.** Based on the exception, the spectral response accelerations presented below were calculated using the site coefficients (F_a and F_v) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2019 CBC.

2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped MCE_R Acceleration at 0.2 sec Period	S_S	1.661
Mapped MCE_R Acceleration at 1.0 sec Period	S_1	0.595
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.661
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.014
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.107
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.676

It should be noted that the site coefficient F_v and the parameters S_{M1} and S_{D1} were not included in the SEAOC/OSHPD Seismic Design Maps Tool output for the 2019 CBC. We calculated these parameters-based on Table 1613.2.3(2) in Section 16.4.4 of the 2019 CBC using the value of S_1 obtained from the Seismic Design Maps Tool, assuming that a site-specific ground motion hazards analysis is not required for the proposed buildings at this site.

Liquefaction

Liquefaction is the loss of strength in generally cohesionless, saturated soils when the pore-water pressure induced in the soil by a seismic event becomes equal to or exceeds the overburden pressure. The primary factors which influence the potential for liquefaction include groundwater table elevation, soil type and plasticity characteristics, relative density of the soil, initial confining pressure, and intensity and duration of ground shaking. The depth within which the occurrence of liquefaction may impact surface improvements is generally identified as the upper 50 feet below the existing ground surface. Liquefaction potential is greater in saturated, loose, poorly graded fine sands with a mean (d_{50}) grain size in the range of 0.075 to 0.2 mm (Seed and Idriss, 1971). Non-sensitive clayey (cohesive) soils which possess a plasticity index of at least 18 (Bray and Sancio, 2006) are generally not considered to be susceptible to liquefaction, nor are those soils which are above the historic static groundwater table.

Research of the San Bernardino County Land Use Services website indicates that the subject site is not located within a zone of liquefaction susceptibility. In addition, the subsurface conditions at the boring locations are not considered to be conducive to liquefaction. Based on the mapping performed by San Bernardino County and the conditions encountered at the boring and trench locations, liquefaction is not considered to be a design concern for this project.

6.2 Geotechnical Design Considerations

General

The active cattle pen areas are covered with manure at the ground surface, with thicknesses of about 1 to 2± inches, where encountered at the trench locations. All of the manure and any organic topsoil should be removed and exported from the site. Additionally, some of soils in the upper 24± inches, located beneath the manure and topsoil, possess organic contents greater

than 2 percent. Based on our experience with other former dairy and agricultural projects located in the city of Ontario, we understand that the city of Ontario requires that soils used as fill possess organic contents of less than 2 percent. It may be feasible to use soils possessing organic contents greater than 2 percent in structural fills, provided that they are cleaned of highly organic materials and can be blended with the underlying soils in order to reduce the organic content to less than 2 percent throughout. It may be necessary to export the highly organic materials off-site or use them in non-structural planter areas of the site.

The subject site is partially underlain by surficial fill soils, extending to depths of up to 3± feet. These fill soils vary in strength and composition. Furthermore, the existing undocumented fill and near-surface alluvium within the upper 10± feet possess variable strengths and variable consolidation characteristics.

Based on their variable strengths, the existing fill soils are considered to represent undocumented fill. They are therefore not considered suitable for support of new structures. Remedial grading will be necessary within the proposed building areas in order to remove and replace these undocumented fill soils as well as near-surface, variable strength alluvial soils as compacted structural fill.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils as well as a portion of the near-surface native alluvium, and replace these materials as compacted structural fill. The native soils that will remain in place below the recommended depth of overexcavation will not be subject to significant load increases from the foundations of the new structures. Provided that the recommended remedial grading is completed, the post-construction static settlements of the proposed structures are expected to be within tolerable limits.

Soluble Sulfates

The results of the soluble sulfate testing, as discussed in Section 5.0 of this report, indicate soluble sulfate concentrations of 0.033 and 0.049 percent. These concentrations are considered to be negligible with respect to the American Concrete Institute (ACI) Publication 318-05 Building Code Requirements for Structural Concrete and Commentary, Section 4.3. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes. It is, however, recommended that additional soluble sulfate testing be conducted during the design-level geotechnical investigation and at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at the proposed building pad grades.

Corrosion Potential

The results of the electrical resistivity and pH testing indicate that two samples of the on-site soils have resistivities of 282 and 960 ohm-cm and pH values of 7.6 and 7.8. These test results have been evaluated in accordance with guidelines published by the Ductile Iron Pipe Research Association (DIPRA). The DIPRA guidelines consist of a point system by which characteristics of the soils are used to quantify the corrosivity characteristics of the site. Resistivity and pH are two of the five factors that enter into the evaluation procedure. Relative soil moisture content as well as redox potential and sulfides are also included. Although redox potential and sulfide testing

were not part of the scope of services for this project, we have evaluated the corrosivity characteristics of the on-site soils using resistivity, pH and moisture content. Based on these factors, and utilizing the DIPRA procedure, **the on-site soils are considered to be severely corrosive to ductile iron pipes and other buried metal improvements. Therefore, it is expected that polyethylene encasement will be required for iron pipes.** If a more detailed evaluation is desired, redox potential and sulfide content should be determined for the on-site soils. **Since SCG does not practice in the area of corrosion engineering, it is recommended that the client contact a corrosion engineer to provide a more thorough evaluation. SCG also recommends additional corrosion testing during the future design-level geotechnical investigation.**

The results of the laboratory testing also indicates that selected samples of the on-site soils possess chloride concentrations of 25 and 897 mg/kg. The Caltrans Memo to Designers 10-5, Protection of Reinforcement Against Corrosion Due to Chlorides, Acids and Sulfates, dated June 2010, indicates that soils possessing chloride concentrations greater than 500 ppm are considered to be corrosive. Chlorides present in soils in contact with reinforced concrete can cause corrosion and weakening of steel reinforcement within reinforced concrete. **Since SCG does not practice in the area of corrosion engineering, the client should also consult a corrosion engineer regarding the protection of steel reinforcement in reinforced concrete since laboratory testing indicates that the onsite soils possess relatively high chloride concentrations.** We expect that it will be necessary for any reinforced concrete in contact with on-site soils that contain chloride concentrations in excess of 500 ppm to possess a reduced water to cement ratio and a higher compressive strength. Additional testing should be performed during the design-level investigation to better define the areas that possess high chloride concentrations.

Expansion

The near surface soils at this site generally consist of silty sands, sandy silts and fine sands. Laboratory testing indicates that these materials have a very low expansion potential (EI = 0 and 2). Based on these test results, no design considerations related to expansive soils are considered warranted for this site. Please note that expansive clayey soils are present below depths of 4½ to 8½ feet. Therefore, the depth of proposed cuts and fills may affect the exposure of the foundations and floor slabs to expansive soils. It is recommended that additional expansion index testing be conducted during design-level geotechnical investigation and at the completion of rough grading to verify the expansion potential of the as-graded building pads.

Organic Content

The results of laboratory testing performed on near-surface soils within the active cattle pen areas indicates soils within the upper 24± inches possess organic contents ranging from 2.8 to 6.2 percent.

It is recommended that all manure and any organic topsoil be removed during site stripping. It is expected that grubbing and segregating of the manure in the cattle pens will be performed prior to grading. Any additional organic materials encountered in buried fills should also be segregated during grading and disposed of off-site or utilized in non-structural planter areas throughout the site.

As previously discussed, it may be feasible to use some of the soils from the upper 6 to 24± in structural fills (not including the manure and organic topsoil) provided that these soils are cleaned of all apparent vegetation or highly organic material and thoroughly blended with the inorganic soils from greater depths at the site. Based on our experience with similar projects in the vicinity of the project site, a final mixture containing less than 2 percent organic content is acceptable for the project site. It is recommended that additional organic content testing be conducted during the design-level geotechnical investigation and at the completion of rough grading of the building pads in order to verify that the organic contents of the blended on-site soils are within the acceptable limits. Please note that some off-site disposal of the organic material will likely be required.

Shrinkage/Subsidence

Based on the results of the laboratory testing, removal and recompaction of the loose to medium dense undocumented fill and near-surface native alluvial soils, extending to depths of 1 to 2± feet, is estimated to result in an average shrinkage of 9 to 14 percent. The native medium dense silty sands and the clayey soils encountered below this layer, extending to depths of 5 to 6± feet, will likely possess an average shrinkage of 5 to 12 percent. The native alluvial soils encountered at greater depths are expected to possess an average shrinkage of 1 to 6 percent. Please note that based on the variation on soil type, in-place densities throughout the subject site, and in-place moisture contents, the local variation of shrinkage ranges from 1 to 14 percent. It should be noted that the potential shrinkage estimate is based on dry density testing performed on small-diameter samples taken at the boring locations. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test-pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Minor ground subsidence is expected to occur in the soils below the zone of removal, due to settlement and machinery working. The subsidence is estimated to be 0.10 feet.

These estimates are based on previous experience and the subsurface conditions encountered at the boring locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely.

Grading and Foundation Plan Review

No grading or foundation plans were available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report. These plans should also be made available prior to performance of the design-level geotechnical investigation.

6.3 Preliminary Site Grading Recommendations

The preliminary grading recommendations presented below are based on the design details that were available at the time of this report, and the subsurface conditions encountered at our boring

locations. These recommendations are general in nature, and should be confirmed as part of the design-level geotechnical investigation.

Site Stripping and Demolition

Initial site stripping should include removal of all manure and any surficial vegetation. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

The proposed development will require demolition of the existing buildings, dairy structures and pavements. Additionally, any existing improvements that will not remain in place for use with the new development should be removed in their entirety. This should include all foundations, floor slabs, utilities, and any other subsurface improvements associated with the existing structures. The existing pavements are not expected to be reused with the new development. Debris resultant from demolition should be disposed of offsite. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills or it may be crushed and made into CMB, if desired. Additionally, concrete and asphalt debris may be crushed to 2 to 4-inch particle sizes to be utilized as mechanical stabilization material for very moist subgrade soils.

Treatment of Existing Soils: Building Pads

Remedial grading will be necessary within the proposed building pad areas to remove all of the existing undocumented fill soils and a portion of the near surface potentially compressible/collapsible alluvial soils in order to provide a uniform blanket of compacted fill upon which to support the proposed structures. Based on the borings we drilled as part of this feasibility study, the fill soils extend to depths of up to 3± feet below ground surface. The actual depth of overexcavation should be refined during the design-level geotechnical investigation. On a preliminary basis, overexcavation to depths of 4 to 6 feet below existing building pad grades and 3 to 4 feet below proposed building pad grades should be anticipated. The overexcavation recommendation within the foundation areas will likely be 2 to 3± feet below foundation bearing grade. Any adverse geologic conditions encountered during the future design-level investigation could result in additional overexcavation requirements.

The overexcavation areas should extend at least 5 feet beyond the building perimeters and foundations, and to an extent equal to the depth of fill below the new foundations. If the proposed structures incorporate any exterior columns (such as for a canopy or overhang) the overexcavation should also encompass these areas.

Based on conditions encountered at the exploratory boring locations, some zones of very moist soils may be encountered at or near the base of the recommended overexcavation. Stabilization of the exposed overexcavation subgrade soils may be necessary. Scarification and air drying of these materials is expected to be sufficient to obtain a stable subgrade. However, if highly unstable soils are identified, and if the construction schedule does not allow for delays associated with drying, mechanical stabilization, usually consisting of coarse crushed stone or geotextile, could be necessary. In this event, the geotechnical engineer should be contacted for supplementary recommendations.

Treatment of Existing Soils: Retaining Walls and Site Walls

Although not indicated on the site plan, it may be necessary to construct some small retaining walls or site walls at or near the existing surface grade. Overexcavation will also be necessary in these areas to remove the existing fill soils and lower strength alluvium. The overexcavation depth should be expected to be on the order of 2 to 3 feet below proposed foundation bearing grade.

Treatment of Existing Soils: Parking and Drive Areas

Based on economic considerations, overexcavation of the existing soils in the new parking and drive areas is not considered warranted, with the exception of areas where lower strength, or unstable soils are identified by the geotechnical engineer during grading.

Subgrade preparation in the new parking areas should initially consist of removal of all soils disturbed during stripping and demolition operations. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to within 0 to 4 percent above the optimum moisture content, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of variable strength soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

The grading recommendations presented above for the proposed parking and drive areas assume that the owner and/or developer can tolerate minor amounts of settlement within the proposed parking areas. The grading recommendations presented above do not mitigate the extent of undocumented fill and variable density alluvial soils in the parking areas. As such, settlement and associated pavement distress could occur. Typically, repair of such distressed areas involves significantly lower costs than completely mitigating these soils at the time of construction. If the owner cannot tolerate the risk of such settlements, the parking and drive areas should be overexcavated to a depth of 2 feet below proposed pavement subgrade elevation, with the resulting soils replaced as compacted structural fill.

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to within 0 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer.
- All grading and fill placement activities should be completed in accordance with the requirements of the CBC and the grading code of the city of Ontario.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Fill soils should be well mixed.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Imported Structural Fill

All imported structural fill should consist of very low expansive (EI < 20), well graded soils possessing at least 10 percent fines (that portion of the sample passing the No. 200 sieve). Additional specifications for structural fill are presented in the Grading Guide Specifications, included as Appendix D.

Utility Trench Backfill

In general, all utility trench backfill should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Compacted trench backfill should conform to the requirements of the local grading code, and more restrictive requirements may be indicated by the city of Ontario. All utility trench backfills should be witnessed by the geotechnical engineer. The trench backfill soils should be compaction tested where possible; probed and visually evaluated elsewhere.

Utility trenches which parallel a footing, and extending below a 1h:1v plane projected from the outside edge of the footing should be backfilled with structural fill soils, compacted to at least 90 percent of the ASTM D-1557 standard. Pea gravel backfill should not be used for these trenches.

6.4 Construction Considerations

Excavation Considerations

The near surface soils generally consist of a variety of materials, including sands, silts, and clays. These materials may be subject to minor caving within shallow excavations. Where caving occurs within shallow excavations, flattened excavation slopes may be sufficient to provide excavation stability. On a preliminary basis, the inclination of temporary slopes should not exceed 2h:1v. Deeper excavations may require some form of external stabilization such as shoring or bracing. Maintaining adequate moisture content within the near-surface soils will improve excavation stability. All excavation activities on this site should be conducted in accordance with Cal-OSHA regulations.

Moisture Sensitive Subgrade Soils

The near-surface soils contain appreciable amounts of silt and clay and will become unstable if exposed to significant moisture infiltration or disturbance by construction traffic. In addition, based on their granular content, some of the on-site soils will also be susceptible to erosion. The site should, therefore, be graded to prevent ponding of surface water and to prevent water from running into excavations.

If the construction schedule dictates that site grading will occur during a period of wet weather, allowances should be made for costs and delays associated with drying the on-site soils or import of a drier, less moisture sensitive fill material. Grading during wet or cool weather may also increase the depth of overexcavation in the pad areas as well as the need for and/or the thickness of the crushed stone stabilization layer, discussed in Section 6.3 of this report.

Groundwater

Based on the conditions encountered in the borings and trenches, groundwater is not present within 30± feet of the ground surface. Based on the anticipated depth to groundwater, it is not expected that the groundwater will affect excavations for the foundations or utilities.

6.5 Preliminary Foundation Design and Construction Recommendations

Based on the preceding geotechnical design considerations and preliminary grading recommendations, it is assumed that the new buildings will be underlain by newly placed structural fill soils, extending to depths of at least 2 to 3 feet below foundation bearing grade. Based on this subsurface profile, the proposed structures may be supported on conventional shallow foundations.

The foundation design parameters presented below provide anticipated ranges for the allowable soil bearing pressures. These ranges should be refined during the subsequent design-level geotechnical investigation.

Building Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 2,500 to 3,000 lbs/ft^2.
- Minimum longitudinal steel reinforcement within strip footings: Two (2) to Four (4) No. 5 rebars.

General Foundation Design Recommendations

The allowable bearing pressures presented above may be increased by one-third when considering short duration wind or seismic loads. Additional reinforcement may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Estimated Foundation Settlements

Typically, foundations designed in accordance with the preliminary foundation design parameters presented above will experience total and differential settlements of less than 1.0 and 0.5 inches, respectively. A detailed settlement analysis should be conducted as part of the design-level geotechnical investigation, once detailed foundation loading information is available.

Lateral Load Resistance

Lateral load resistance will be developed by a combination of friction acting at the base of foundations and slabs and the passive earth pressure developed by footings below grade. The following friction and passive pressure may be used to resist lateral forces:

- Passive Earth Pressure: 250 to 300 lbs/ft^3

- Friction Coefficient: 0.25 to 0.30

6.6 Preliminary Floor Slab Design and Construction Recommendations

Subgrades which will support new floor slabs should be prepared in accordance with the recommendations contained in the ***Site Grading Recommendations*** section of this report. Preliminarily, the floors of the proposed structures may be constructed as conventional slabs-on-grades supported on newly placed structural fill. Based on geotechnical considerations, the floor slab may be designed as follows:

- Minimum slab thickness: 6 to 7 inches.

- Minimum slab reinforcement: Not required for geotechnical considerations due to the very low expansion potential of the near-surface soils. Additional expansion index testing should be performed to confirm this recommendation at the time of the design-level investigation. The actual floor slab reinforcement should be determined by the structural engineer, based upon the imposed loading.

- Slab underlayment: If moisture sensitive floor coverings will be used then minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire area of the proposed slab which will incorporate such coverings. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. Given that a rock free subgrade is anticipated and that a capillary break is not required, sand below the barrier is not required. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview. Where moisture sensitive floor coverings are not anticipated, the vapor barrier may be eliminated.

- Moisture condition the floor slab subgrade soils to 0 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.

- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slab should be completed by the structural engineer to verify adequate thickness and reinforcement.

6.7 Preliminary Retaining Wall Design and Construction Recommendations

Although not indicated on the site plan, some small (less than 6 feet in height) retaining walls may be required to facilitate the new site grades and in the dock-high areas of the new buildings. Retaining walls are also expected within the truck dock areas of the proposed buildings. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the boring locations, the following parameters may be used in the design of new retaining walls for this site. The following parameters assume that only the on-site soils will be utilized for retaining wall backfill. The soils within the upper 4½ to 8½± feet generally consist of silty sands, sandy silts, and fine sands. Based on their composition, the on-site soils have been assigned a friction angle of 30 degrees when compacted to 90 percent of the ASTM D-1557 maximum dry density. These design values should be confirmed during the design-level geotechnical investigation. **The on-site soils consisting of silty clays and clayey silts are not considered suitable for retaining wall backfill**.

The select fill material must be placed within the entire active failure wedge. This wedge is defined as extending from the heel of the retaining wall upwards at an angle of approximately 60° from horizontal.

RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type
		On-Site Sands, Silty Sands, and Sandy Silts
Internal Friction Angle (ϕ)		30°
Unit Weight		125 lbs/ft^3
Equivalent Fluid Pressure:	Active Condition (level backfill)	42 lbs/ft^3
	Active Condition (2h:1v backfill)	67 lbs/ft^3
	At-Rest Condition (level backfill)	63 lbs/ft^3

The walls should be designed using a soil-footing coefficient of friction ranging from 0.25 to 0.30 and an equivalent passive pressure ranging from 250 to 300 lbs/ft^3. Please note that these values are preliminary and the actual design values will be determined during the design-level geotechnical investigation. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

The active earth pressure may be used for the design of retaining walls that do not directly support structures or support soils that in turn support structures and which will be allowed to deflect. The at-rest earth pressure should be used for walls that will not be allowed to deflect such as those which will support foundation bearing soils, or which will support foundation loads directly.

Where the soils on the toe side of the retaining wall are not covered by a "hard" surface such as a structure or pavement, the upper 1 foot of soil should be neglected when calculating passive resistance due to the potential for the material to become disturbed or degraded during the life of the structure.

Seismic Lateral Earth Pressures

In addition to the lateral earth pressures presented in the previous section, retaining walls which are more than 6 feet in height should be designed for a seismic lateral earth pressure, in accordance with the 2016 CBC. Based on the current site plan, it is not expected that any walls in excess of 6 feet in height will be required for this project. If any such walls are proposed, our office should be contacted for supplementary design recommendations.

Backfill Material

Retaining wall backfill soils should consist of on-site sands, silty sands, and/or sandy silts, possessing an expansion index less than 20. All backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

It is recommended that a properly installed prefabricated drainage composite such as the MiraDRAIN 6000XL (or approved equivalent), which is specifically designed for use behind retaining walls, be placed against the face on the back side of the retaining walls. This material should extend from the top of the retaining wall footing to within 1 foot of the ground surface on the back side of the retaining wall. A 12-inch thick layer of a low permeability soil should be placed over the backfill to reduce surface water migration to the underlying soils.

All retaining wall backfill should be placed and compacted under engineering controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

As previously indicated, the retaining wall design parameters are based upon drained backfill conditions. Consequently, some form of permanent drainage system will be necessary in conjunction with the appropriate backfill material. Subsurface drainage may consist of either:

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.

- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

Weep holes or a footing drain will not be required for building stem walls.

6.8 Preliminary Pavement Design Parameters

Presented below are preliminary recommendations for pavements that may be required around the perimeters of the proposed structures. Grading and pavement thickness recommendations for these pavement areas should be developed during the design-level geotechnical investigation.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The soils within the upper 4½ to 8½± feet below the ground surface generally consist of silty sands, sandy silts and fine sands. These soils are considered to possess fair to good pavement support characteristics with estimated R-values ranging from 30 to 50. The subsequent pavement design is based upon an assumed R-value of 30. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It should be noted that cuts extending to depths greater than 4½± feet may expose clayey soils that possess lower R-values. Therefore, these pavement design recommendations should be refined during the design-level investigation and after grading plans become available for this project. It is recommended that R-value testing be performed after completion of rough grading.

Asphaltic Concrete

Presented below are the recommended thicknesses for new flexible pavement structures consisting of asphaltic concrete over a granular base. The pavement designs are based on the traffic indices (TI's) indicated. The client and/or civil engineer should verify that these TI's are representative of the anticipated traffic volumes. If the client and/or civil engineer determine that the expected traffic volume will exceed the applicable traffic index, we should be contacted for supplementary recommendations. The design traffic indices equate to the following approximate daily traffic volumes over a 20 year design life, assuming six operational traffic days per week.

Traffic Index	No. of Heavy Trucks per Day
4.0	0
5.0	1
6.0	3
7.0	11
8.0	35
9.0	93

For the purpose of the traffic volumes indicated above, a truck is defined as a 5-axle tractor trailer unit with one 8-kip axle and two 32-kip tandem axles. All of the traffic indices allow for 1,000 automobiles per day.

ASPHALT PAVEMENTS (R = 30)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	6	8	10	11	13
Compacted Subgrade	12	12	12	12	12

The aggregate base course should be compacted to at least 95 percent of the ASTM D-1557 maximum dry density. The asphaltic concrete should be compacted to at least 95 percent of the Marshall maximum density, as determined by ASTM D-2726. The aggregate base course may consist of crushed aggregate base (CAB) or crushed miscellaneous base (CMB), which is a recycled gravel, asphalt and concrete material. The gradation, R-Value, Sand Equivalent, and Percentage Wear of the CAB or CMB should comply with appropriate specifications contained in the current edition of the "Greenbook" Standard Specifications for Public Works Construction.

Portland Cement Concrete

The preparation of the subgrade soils within concrete pavement areas should be performed as previously described for proposed asphalt pavement areas. The minimum recommended thicknesses for the Portland Cement Concrete pavement sections are as follows:

PORTLAND CEMENT CONCRETE PAVEMENTS (R=30)				
Materials	**Thickness (inches)**			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	6½	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

The concrete should have a 28-day compressive strength of at least 3,000 psi. Any reinforcement within the PCC pavements should be determined by the project structural engineer. The maximum joint spacing within all of the PCC pavements is recommended to be equal to or less than 30 times the pavement thickness.

7.0 GENERAL COMMENTS

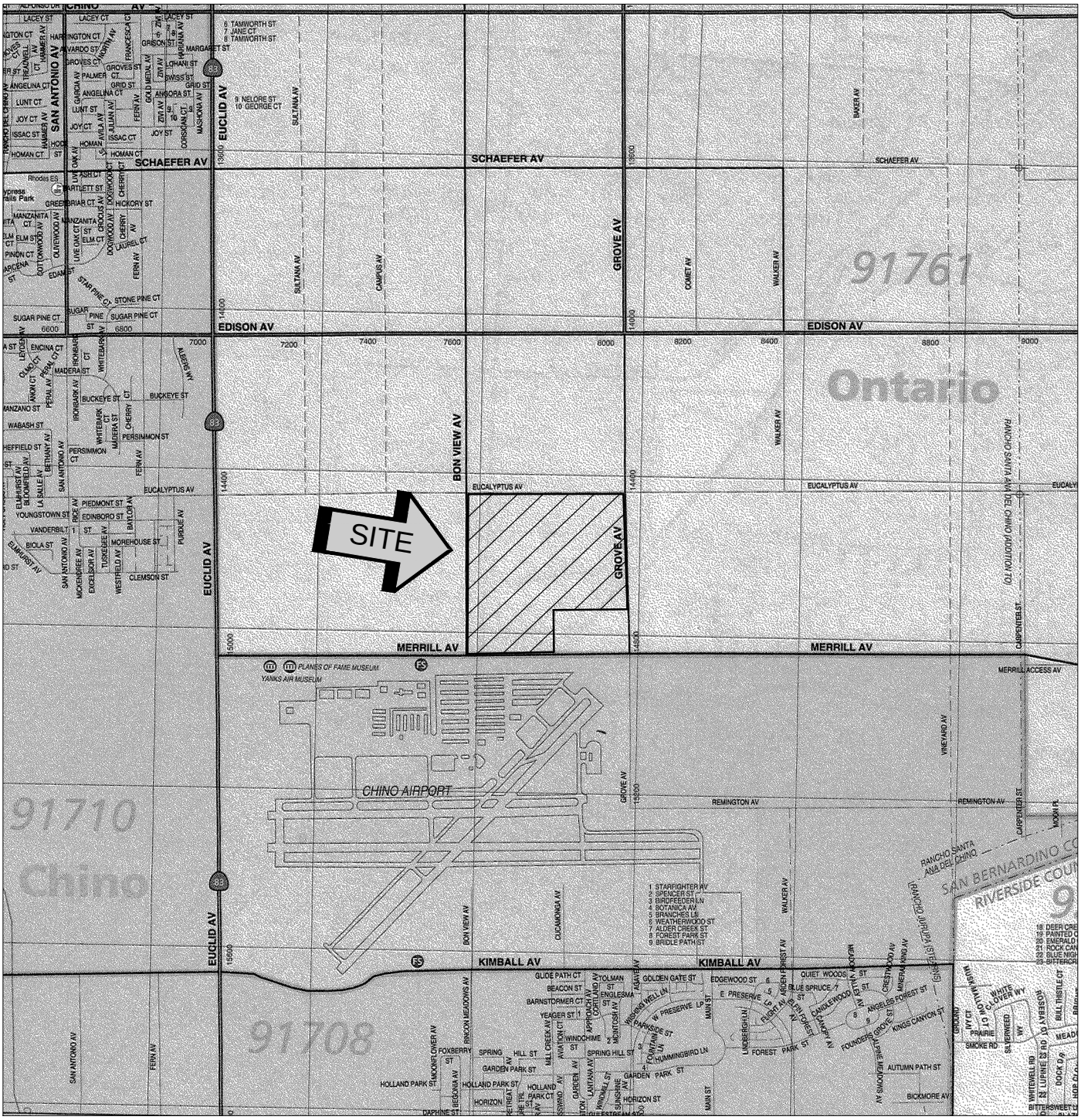
This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, civil engineer, and/or structural engineer. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The client(s)' reliance upon this report is subject to the Engineering Services Agreement, incorporated into our proposal for this project.

The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between boring locations and sample depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted.

The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

APPENDIX A



SOURCE: SAN BERNARDINO COUNTY
THOMAS GUIDE, 2013

SITE LOCATION MAP

PROPOSED SOUTH ONTARIO LOGISTICS CENTER

ONTARIO, CALIFORNIA

SCALE: 1" = 2400'

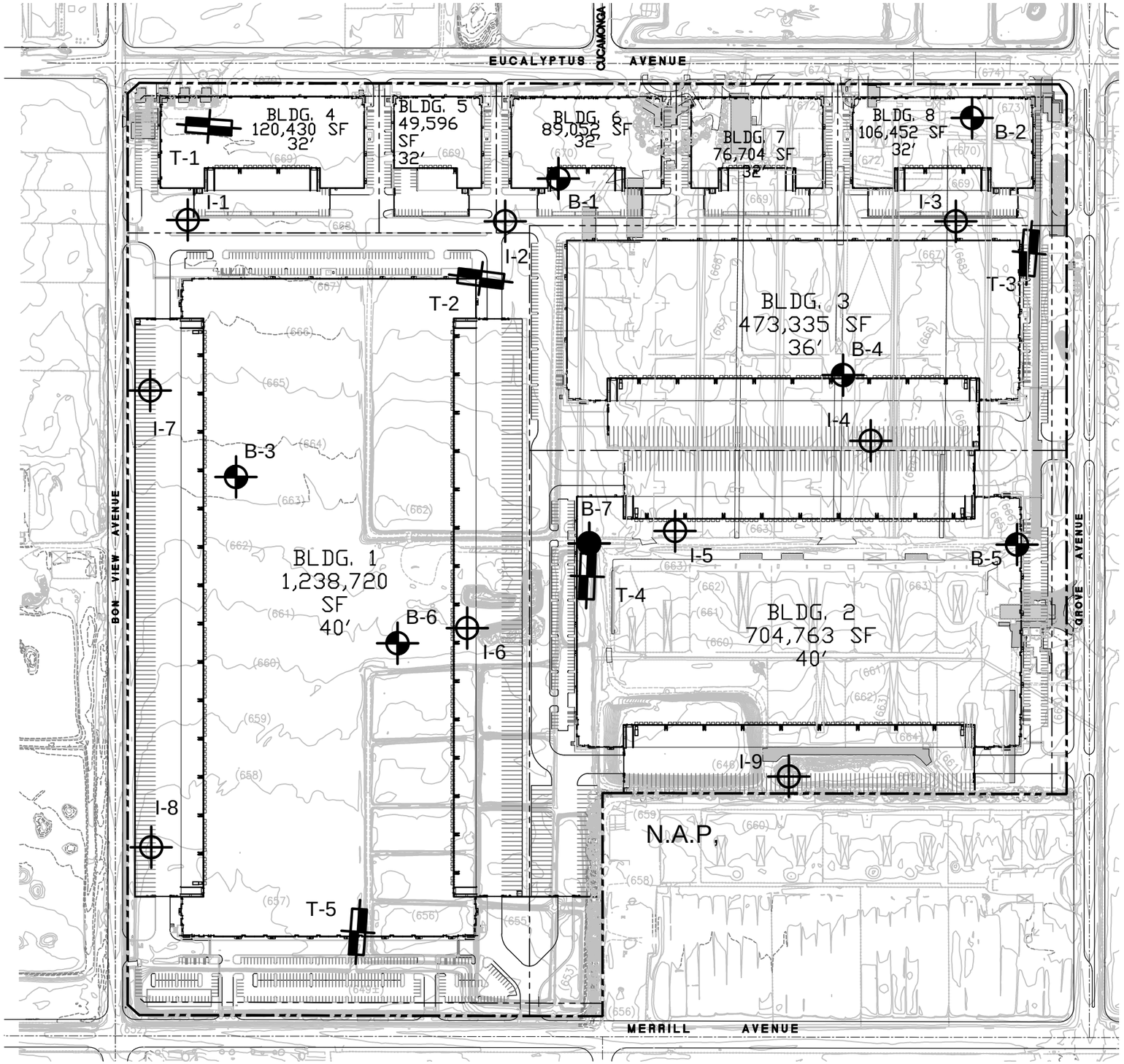
DRAWN: JLL
CHKD: RGT

SCG PROJECT
19G134-2

PLATE 1

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



NORTH
SoCalGeo

GEOTECHNICAL LEGEND

- APPROXIMATE BORING LOCATION
- APPROXIMATE TRENCH LOCATION
- APPROXIMATE EXPLORATORY BORING LOCATION FROM PREVIOUS STUDY (SCG PROJECT NO. 19G134-1)
- APPROXIMATE INFILTRATION TEST LOCATION FROM PREVIOUS STUDY (SCG PROJECT NO. 19G134-1)
- EXISTING STRUCTURES TO BE DEMOLISHED

NOTE: SITE PLAN PREPARED BY HPA, INC.
TOPOGRAPHIC INFORMATION PREPARED BY THIENES ENGINEERING, INC.

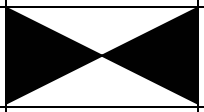
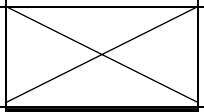
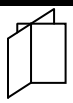
BORING AND TRENCH LOCATION PLAN
PROPOSED SOUTH ONTARIO LOGISTICS CENTER
ONTARIO, CALIFORNIA

SCALE: 1" = 300'
DRAWN: JLL
CHKD: RGT
SCG PROJECT 19G134-2
PLATE 2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX B

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

BLOW COUNT: Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.: Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

MOISTURE CONTENT: Moisture content of a soil sample, expressed as a percentage of the dry weight.

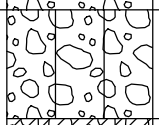
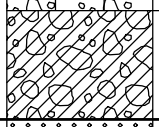
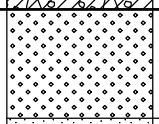
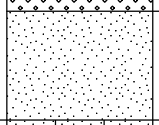
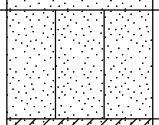
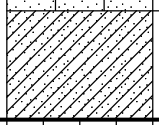
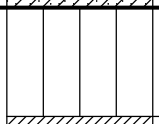
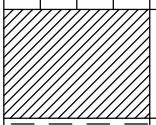
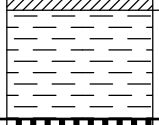
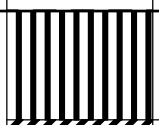
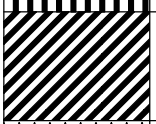
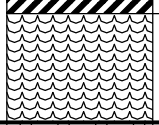
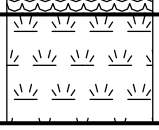
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE: The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR: The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 19G134-2
PROJECT: South Logistics Business Center
LOCATION: Ontario, California

DRILLING DATE: 8/29/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Joseph Lozano Leon

WATER DEPTH: Dry
CAVE DEPTH: 20 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 669 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					ALLUVIUM: Light Gray Brown fine Sandy Silt to Silty fine Sand, trace fine root fibers, medium dense-damp							
		26				102	3					EI = 0 @ 0 to 5 feet
		44			Light Brown to Brown Silty fine Sand, trace Iron oxide staining, medium dense-damp	110	8					
5		21	4.5		Gray Brown Clayey Silt, trace fine Sand, trace calcareous veining, hard-very moist	112	17					
		20	4.5			112	19					
10		18	4.5			107	21					
					Light Gray Brown to Gray Brown Silty Clay, trace calcareous veining, very stiff-very moist							
15		10	4.5			104	19					
20		16	3.0		@ 19 to 20 feet, trace to little fine Sand	104	20					
					Brown Silty fine Sand, trace medium Sand, trace Iron oxide staining, medium dense-moist to very moist							
25		35				119	14					
					Boring Terminated at 25'							

TBL 19G134-2.GPJ SOCALGEO.GDT 9/26/19

TEST BORING LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 19G134-2
PROJECT: South Logistics Business Center
LOCATION: Ontario, California

DRILLING DATE: 8/29/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Joseph Lozano Leon

WATER DEPTH: Dry
CAVE DEPTH: 20 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 672 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		6			ALLUVIUM: Brown Silty fine Sand, trace medium Sand, loose-damp		7					
		8					9					
5												
		11	3.0		Gray Brown to Dark Gray Brown Silty Clay, trace fine Sand, trace calcareous veining, stiff to very stiff-moist		16					
		7	2.0				16					
10												
					Gray Brown Silty fine to coarse Sand, little Clay, little Iron oxide staining, medium dense-damp							
		18					11					
15												
					Gray Brown Silty Clay, little calcareous veining, stiff to very stiff-very moist							
		10	2.0				22					
20												
					Brown fine Sandy Clay, little Silt. trace medium to coarse Sand, very stiff-moist to very moist							
		16	2.5				17					
25												
					Boring Terminated at 25'							

TBL 19G134-2.GPJ SOCALGEO.GDT 9/26/19

TEST BORING LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 19G134-2
PROJECT: South Logistics Business Center
LOCATION: Ontario, California

DRILLING DATE: 8/29/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Joseph Lozano Leon

WATER DEPTH: Dry
CAVE DEPTH: 17 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 663.5 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		25			FILL: Light Gray to Gray Silty fine Sand to fine Sandy Silt, trace fine root fibers, medium dense-damp		5					
		20			ALLUVIUM: Light Brown Silty fine Sand, trace calcareous veining, trace Iron oxide staining, trace fine root fibers, medium dense-damp		7					
5		24					6					
		9	2.5		Gray Brown Silty Clay, little fine to medium Sand, trace calcareous veining, very stiff-moist		15					
10												
		17	3.5		Gray Brown Clayey Silt, trace Iron oxide staining, trace calcareous veining, very stiff-very moist		19					
15												
		11	2.0		Light Gray Brown Clayey Silt, stiff-very moist		20					
20					Boring Terminated at 20'							

TBL 19G134-2.GPJ SOCALGEO.GDT 9/26/19

TEST BORING LOG

PLATE B-3

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 19G134-2
PROJECT: South Logistics Business Center
LOCATION: Ontario, California

DRILLING DATE: 8/29/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Joseph Lozano Leon

WATER DEPTH: Dry
CAVE DEPTH: 13 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 668.5 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		22			FILL: Light Gray to Gray Silty fine Sand to fine Sandy Silt, trace medium to coarse Sand, medium dense-damp		3					
		9			ALLUVIUM: Brown Silty fine Sand, trace Iron oxide staining, loose-moist		11					
5		7	2.0		Gray Brown Silty Clay, trace fine Sand, little calcareous veining, stiff-moist to very moist		18					
		7	2.0				18					
10					Light Gray Brown Clayey Silt, trace fine Sand, abundant Iron oxide staining, stiff-very moist							
		10	1.5				25					
15					Gray Brown Clayey Silt, trace fine Sand, trace Iron oxide staining, trace calcareous veining, stiff-very moist							
		8	1.5				31					
20					Boring Terminated at 20'							

TBL 19G134-2.GPJ SOCALGEO.GDT 9/26/19

TEST BORING LOG **PLATE B-4**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-5

JOB NO.: 19G134-2
PROJECT: South Logistics Business Center
LOCATION: Ontario, California

DRILLING DATE: 8/29/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Joseph Lozano Leon

WATER DEPTH: Dry
CAVE DEPTH: 17 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 666 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		16			FILL: Brown to Dark Brown Silty fine Sand, trace medium to coarse Sand, medium dense-very moist	98	15					
		13			ALLUVIUM: Gray Brown fine Sand, trace to little Silt, loose-damp	97	3					
5		23	4.5		Gray Brown Clayey Silt, trace fine Sand, hard-moist	114	14					
		21	4.5			109	16					
10		12	4.5			114	16					
					Light Gray Brown SIlty Clay, little calcareous nodules and veining, stiff to very stiff-very moist							
15		8	2.5			94	26					
20		13	2.5		@ 19 to 20 feet, trace fine Sand, little Iron oxide staining	97	26					
					Gray Brown Clayey Silt, trace fine Sand, trace calcareous veining, little Iron oxide staining, stiff to very stiff-very moist							
25		19	2.0			101	25					
					Boring Terminated at 25'							

TBL 19G134-2.GPJ SOCALGEO.GDT 9/26/19

TEST BORING LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-6

JOB NO.: 19G134-2
PROJECT: South Logistics Business Center
LOCATION: Ontario, California

DRILLING DATE: 8/29/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Joseph Lozano Leon

WATER DEPTH: Dry
CAVE DEPTH: 19 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 660.5 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		12			FILL: Brown to Dark Brown Silty fine Sand, trace fine root fibers, loose-moist	98	10					
		24			ALLUVIUM: Light Gray Brown Silty fine Sand, trace Iron oxide staining, medium dense-damp to moist	102	7					
5		20				110	10					
		15			Gray Brown fine Sandy Silt, little Iron oxide staining, trace to little Clay, medium dense-very moist	106	19					
		14	3.0		Gray Brown Clayey Silt, trace fine Sand, trace Iron oxide staining, stiff to very stiff-very moist	105	22					
10												
		10	2.0			105	20					
15												
					Light Gray to Gray Silty Clay, trace fine Sand, very stiff to hard-very moist							
		27	4.5			112	18					
20												
		17	3.0				19					
25					Brown fine Sand, little Silt, trace medium Sand, little Iron oxide staining, medium dense-damp to moist		9					
					Boring Terminated at 25'							

TBL 19G134-2.GPJ SOCALGEO.GDT 9/26/19

TEST BORING LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-1

JOB NO.: 19G134-2

PROJECT: Proposed South Ontario Logistics Center

LOCATION: Ontario, CA

DATE: 8-29-2019

EQUIPMENT USED: Backhoe

LOGGED BY: Scott McCann

ORIENTATION: N 86 W

TOP OF TRENCH ELEVATION: 669.0 feet msl

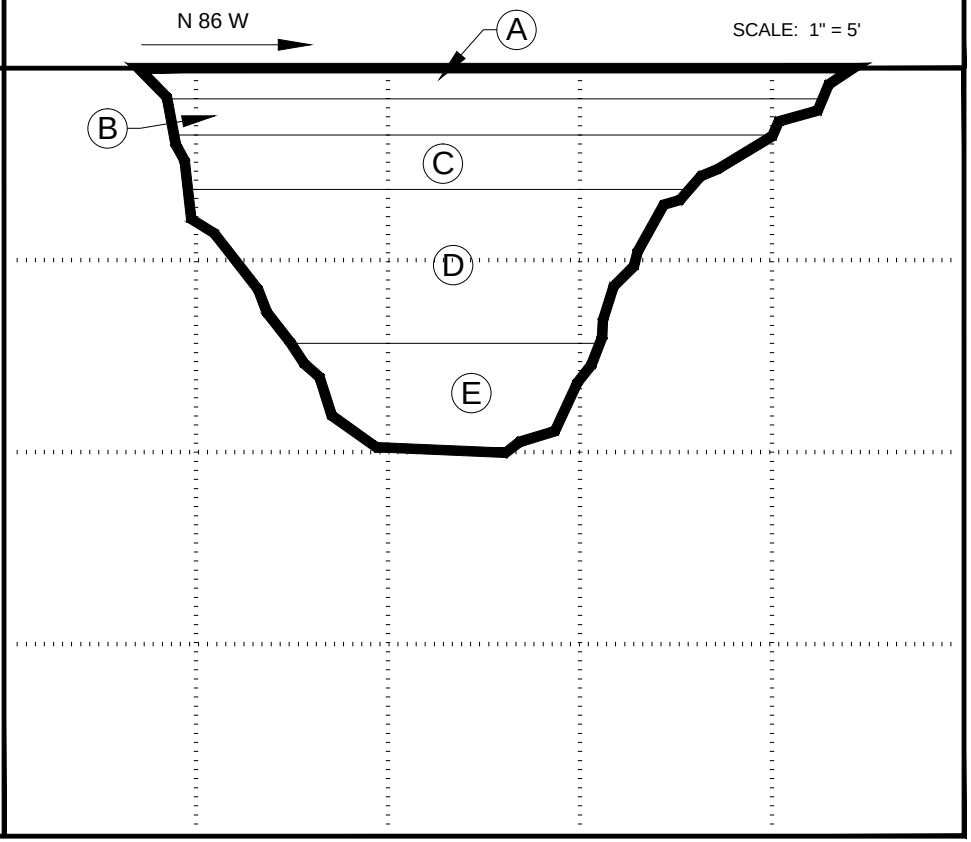
WATER DEPTH: Dry

SEEPAGE DEPTH: Dry

READINGS TAKEN: At Completion

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b	6.2	3	A: FILL: Light Gray Brown Silty fine Sand, little medium Sand, trace coarse Sand, trace fine Gravel, abundant fine root fibers, little Organic content, loose - damp
	b	4.1	7	
	b		9	
	b		8	B: ALLUVIUM: Light Gray Brown Silty fine Sand to fine Sandy Silt, trace medium Sand, trace fine root fibers, medium dense - damp to moist
	b		7	
	b		8	C: ALLUVIUM: Light Brown Silty fine Sand, medium dense - damp to moist
5	b		7	D: ALLUVIUM: Light Gray Brown fine Sand, little Silt, trace medium Sand, medium dense - damp to moist
	b		11	
				E: ALLUVIUM: Gray Brown fine Sandy Clay, trace Silt, trace calcareous veining and nodules, medium stiff - moist
10	b		15	
				Trench Terminated @ 10 feet Bottom of Trench Elevation: 659.0 feet msl
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
b - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-2

JOB NO.: 19G134-2

PROJECT: Proposed South Ontario Logistics Center

LOCATION: Ontario, CA

DATE: 8-29-2019

EQUIPMENT USED: Backhoe

LOGGED BY: Scott McCann

ORIENTATION: N 83 W

TOP OF TRENCH ELEVATION: 667.0 feet msl

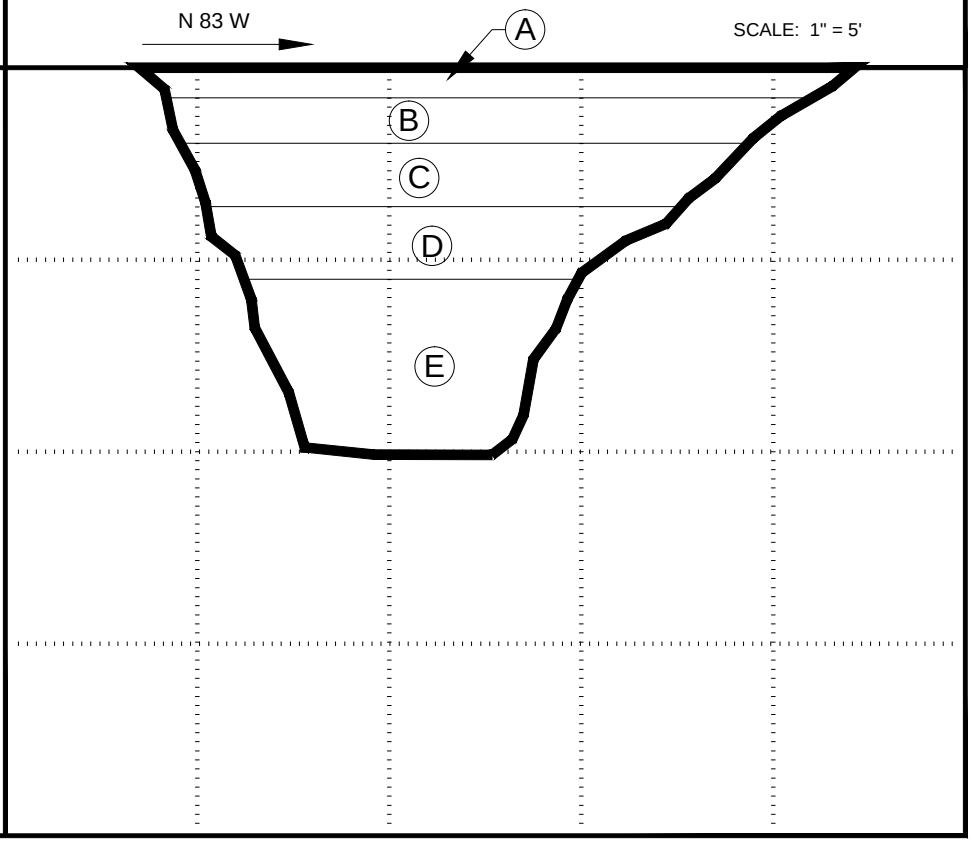
WATER DEPTH: Dry

SEEPAGE DEPTH: Dry

READINGS TAKEN: At Completion

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b	5.1	2	A: FILL: Light Gray Brown Silty fine Sand, little medium Sand, abundant fine root fibers, little Organic content, loose - dry to damp
	b	5.3	4	
	b		4	B: ALLUVIUM: Light Gray Brown Silty fine Sand to fine Sandy Silt, trace to little medium Sand, trace fine root fibers, medium dense - damp
	b		4	
	b		4	C: ALLUVIUM: Light Gray fine Sandy Silt, trace medium Sand, trace calcareous veining, medium dense - damp
	b		4	
5	b		7	D: ALLUVIUM: Light Brown Silty fine Sand, trace medium Sand, medium dense - damp
	b		14	E: ALLUVIUM: Gray Brown fine Sandy Silt, little Clay, medium dense - moist
10	b		14	Trench Terminated @ 10 feet Bottom of Trench Elevation: 657.0 feet msl
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
b - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-8

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-3

JOB NO.: 19G134-2

PROJECT: Proposed South Ontario Logistics Center

LOCATION: Ontario, CA

DATE: 8-29-2019

EQUIPMENT USED: Backhoe

LOGGED BY: Scott McCann

ORIENTATION: N 5 E

TOP OF TRENCH ELEVATION: 671.5 feet msl

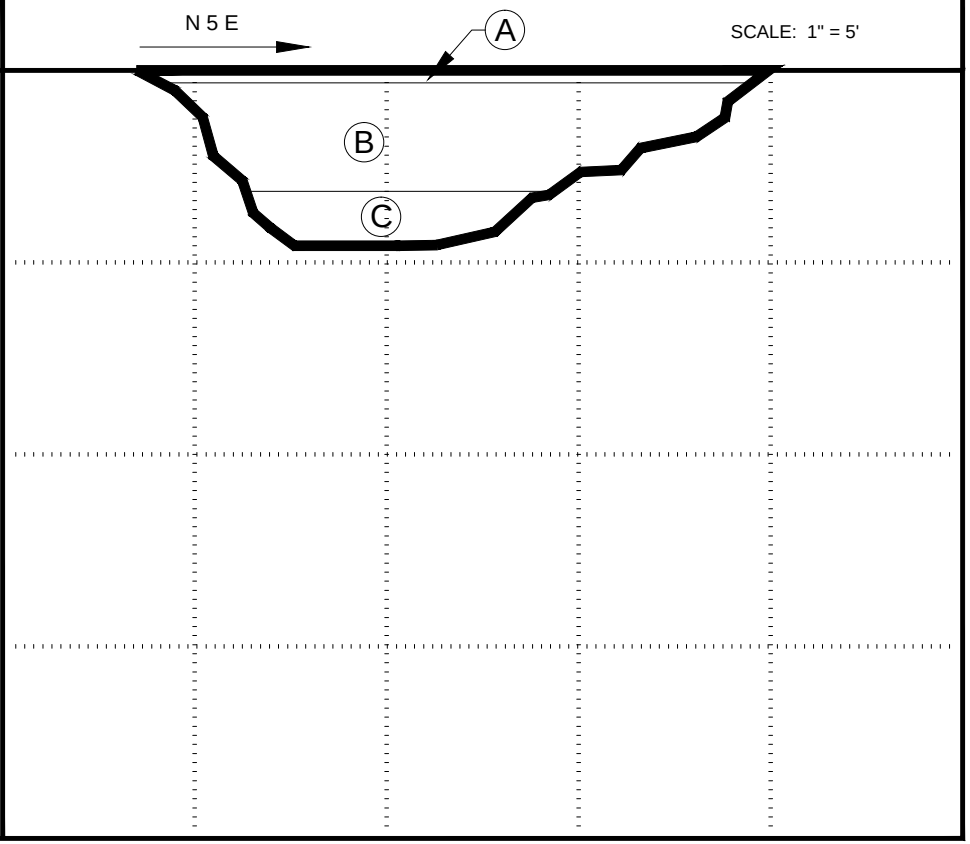
WATER DEPTH: Dry

SEEPAGE DEPTH: Dry

READINGS TAKEN: At Completion

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b	5.1	13	A: MANURE: 1 to 2 inches thick
	b	2.8	9	B: ALLUVIUM: Gray Silty fine Sand to fine Sandy Silt, trace to little Organic content, medium dense - damp to moist
	b	3.7	11	
	b	4.5	12	
	b		13	
	b		7	
				C: ALLUVIUM: Gray Brown Silty fine Sand, trace medium Sand, loose to medium dense - damp
	b		6	
5				Trench Terminated @ 4.5 feet
				Bottom of Trench Elevation: 667.0 feet msl
10				
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
b - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-9

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-4

JOB NO.: 19G134-2

PROJECT: Proposed South Ontario Logistics Center

LOCATION: Ontario, CA

DATE: 8-29-2019

EQUIPMENT USED: Backhoe

LOGGED BY: Scott McCann

ORIENTATION: N 2 E

TOP OF TRENCH ELEVATION: 660.0 feet msl

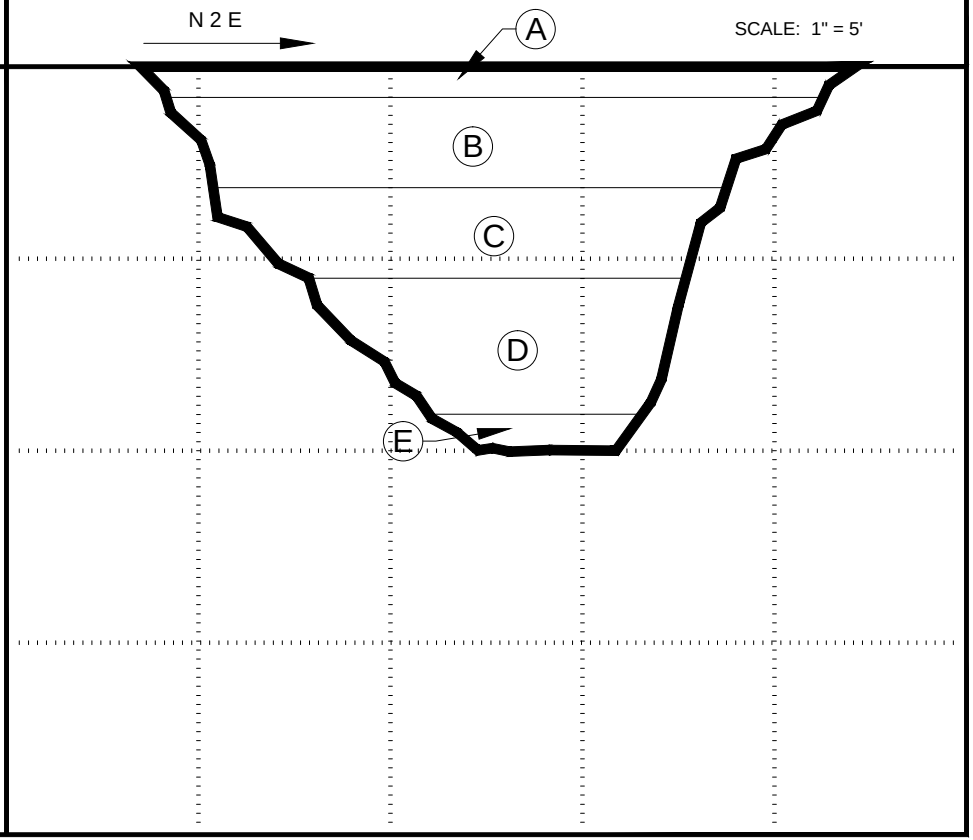
WATER DEPTH: Dry

SEEPAGE DEPTH: Dry

READINGS TAKEN: At Completion

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		14	A: FILL: Light Gray Brown Silty fine to medium Sand, little coarse Sand, trace to little fine Gravel, loose - moist to very moist
	b		10	
	b		11	
	b		11	B: ALLUVIUM: Gray Brown Silty fine Sand, trace to little medium Sand, medium dense - damp to moist
	b		10	
	b		11	
				C: ALLUVIUM: Light Gray Brown Silty fine Sand to fine Sandy Silt, trace medium Sand, loose to medium dense - moist
	b		12	
5				
	b		18	D: ALLUVIUM: Gray Brown fine Sandy Silt, little Clay, trace calcareous veining, medium dense - very moist
	b		18	E: ALLUVIUM: Light Gray Brown fine Sandy Clay, trace Silt, medium stiff - very moist
10				Trench Terminated @ 10 feet Bottom of Trench Elevation: 650.0 feet msl
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
b - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-10

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-5

JOB NO.: 19G134-2

PROJECT: Proposed South Ontario Logistics Center

LOCATION: Ontario, CA

DATE: 8-29-2019

EQUIPMENT USED: Backhoe

LOGGED BY: Scott McCann

ORIENTATION: N 4 E

TOP OF TRENCH ELEVATION: 657.0 feet msl

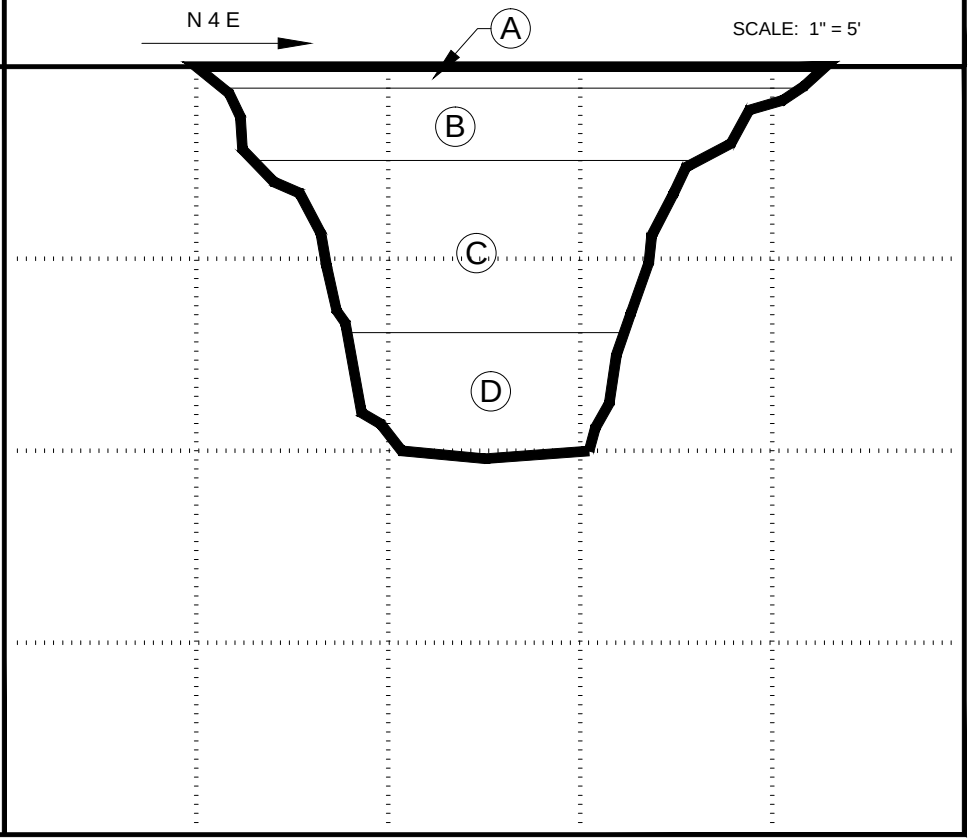
WATER DEPTH: Dry

SEEPAGE DEPTH: Dry

READINGS TAKEN: At Completion

DEPTH	SAMPLE	ORGANICS (%)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		2	A: FILL: Light Gray Brown Silty fine Sand, little medium Sand, trace coarse Sand, trace fine root fibers, very loose - dry
	b		10	
	b		10	
	b		11	B: ALLUVIUM: Light Brown Silty fine Sand to fine Sandy Silt, trace to little medium Sand, trace calcareous veining, loose to medium dense - damp to moist
	b		11	
	b		13	
				C: ALLUVIUM: Gray Brown Silty fine Sand, trace to little medium Sand, medium dense - moist to very moist
	b		22	
5				
	b		10	
				D: ALLUVIUM: Light Gray Brown Silty fine Sand to fine Sandy Silt, medium dense - moist
	b		13	
10				Trench Terminated @ 10 feet Bottom of Trench Elevation: 647.0 feet msl
15				

GRAPHIC REPRESENTATION



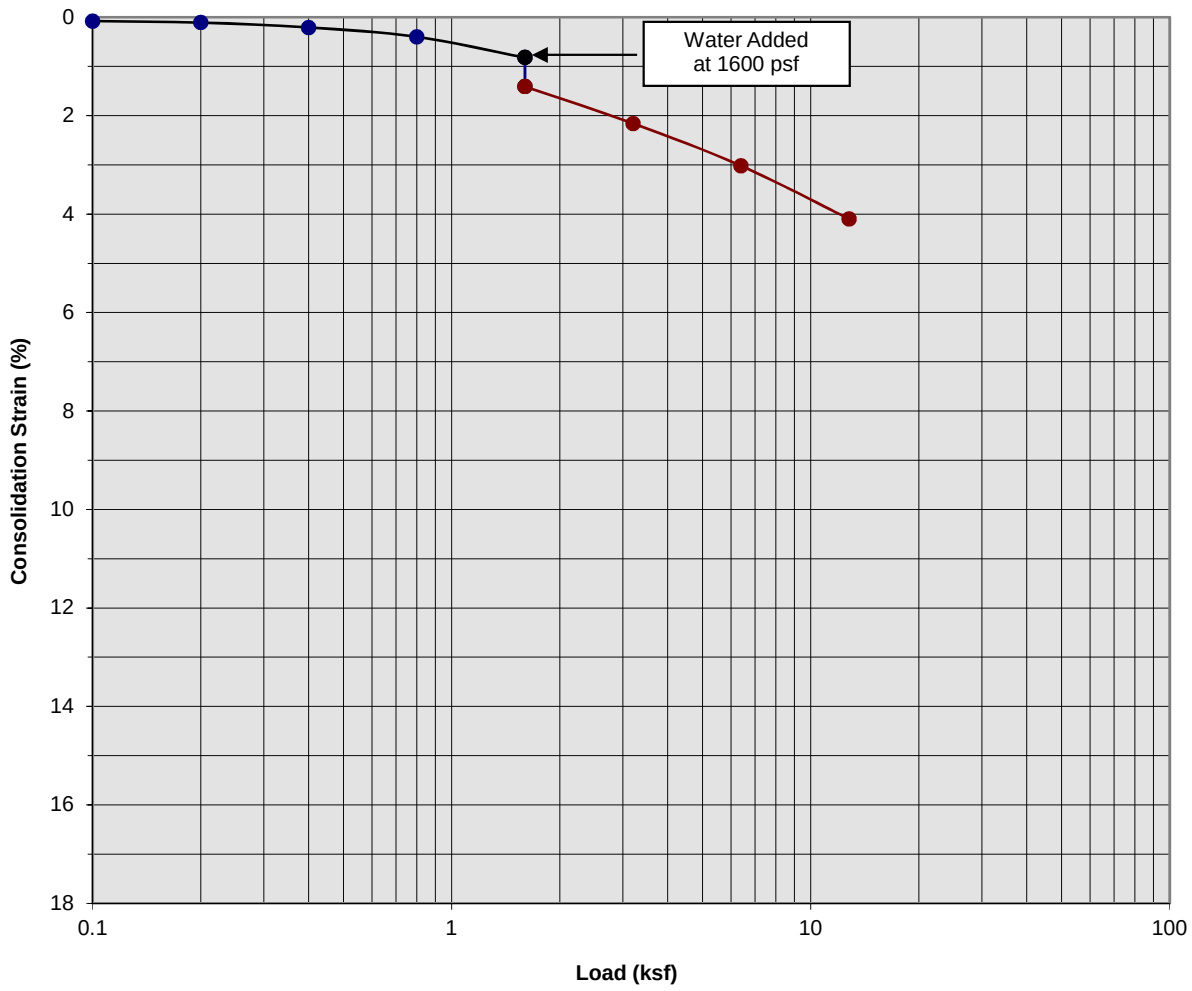
KEY TO SAMPLE TYPES:
b - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-11

APPENDIX C

Consolidation/Collapse Test Results



Classification: Gray Brown fine Sand, trace to little Silt

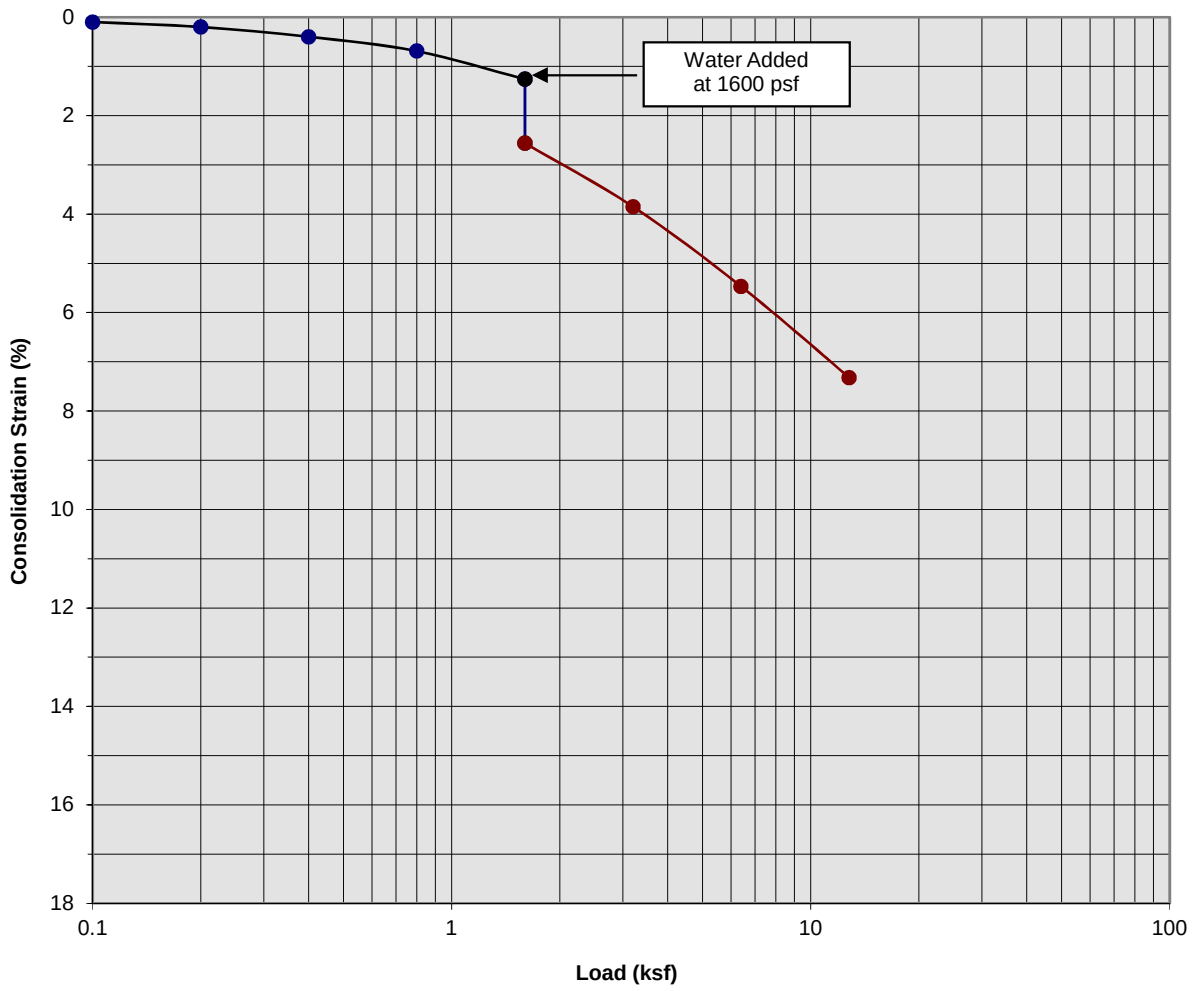
Boring Number:	B-5	Initial Moisture Content (%)	3
Sample Number:	---	Final Moisture Content (%)	18
Depth (ft)	3 to 4	Initial Dry Density (pcf)	97.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	100.9
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.59

Proposed South Ontario Logistics Center
Ontario, California
Project No. 19G134-2

PLATE C- 1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Clayey Silt, trace fine Sand

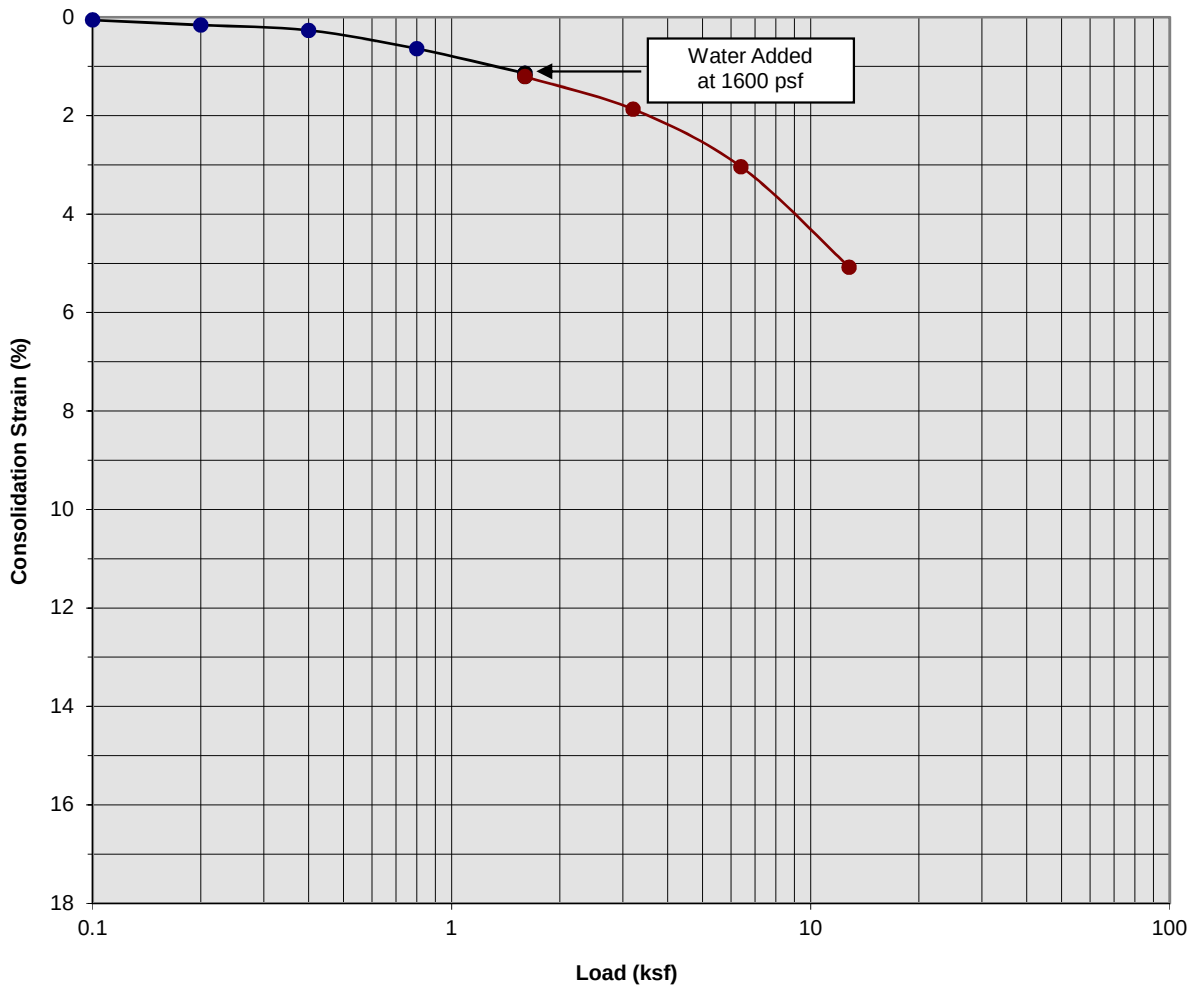
Boring Number:	B-5	Initial Moisture Content (%)	14
Sample Number:	---	Final Moisture Content (%)	17
Depth (ft)	5 to 6	Initial Dry Density (pcf)	113.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	121.8
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.30

Proposed South Ontario Logistics Center
Ontario, California
Project No. 19G134-2

PLATE C- 2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Clayey Silt, trace fine Sand

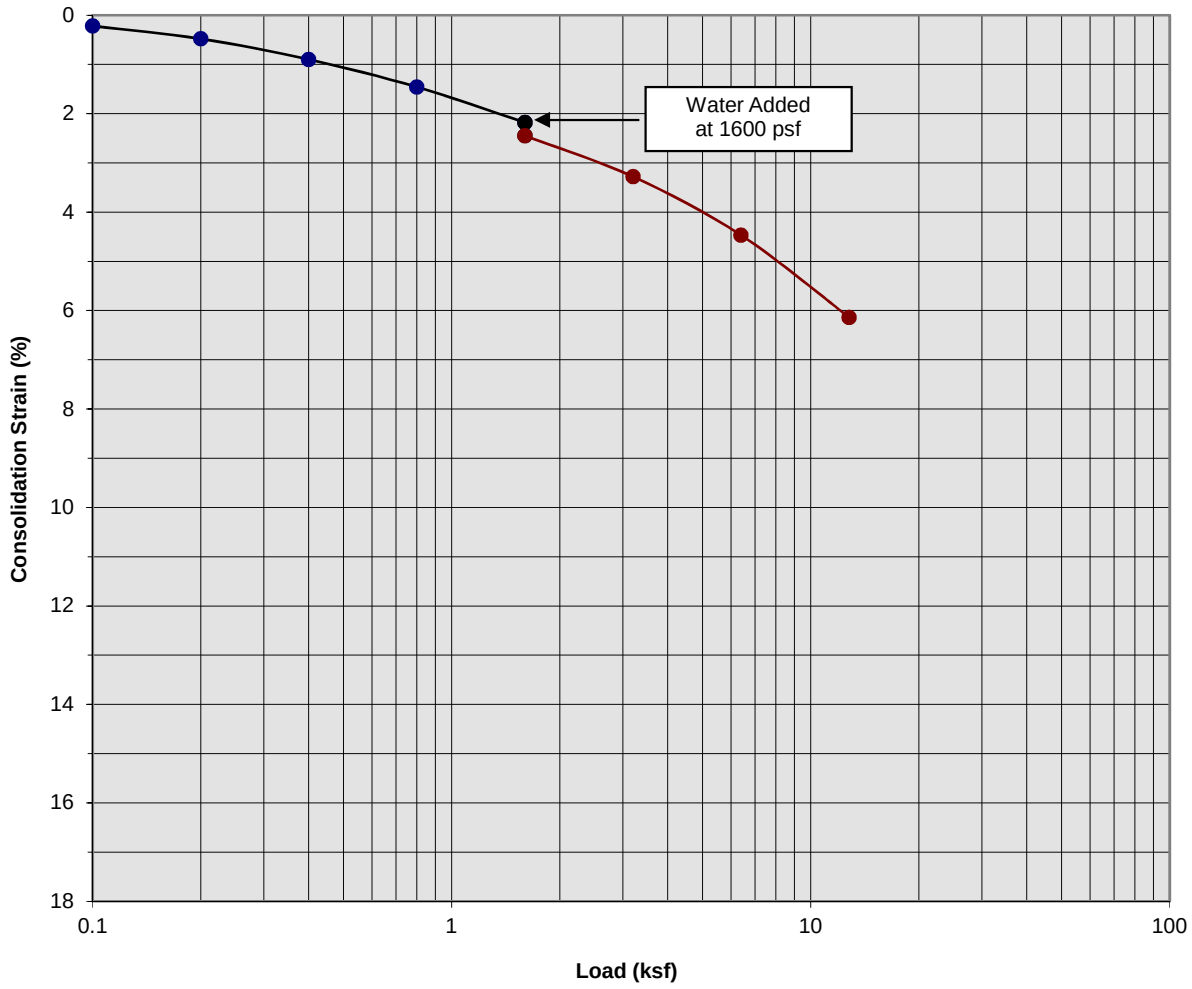
Boring Number:	B-5	Initial Moisture Content (%)	16
Sample Number:	---	Final Moisture Content (%)	19
Depth (ft)	7 to 8	Initial Dry Density (pcf)	109.1
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	114.1
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.07

Proposed South Ontario Logistics Center
Ontario, California
Project No. 19G134-2

PLATE C- 3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Clayey Silt, trace fine Sand

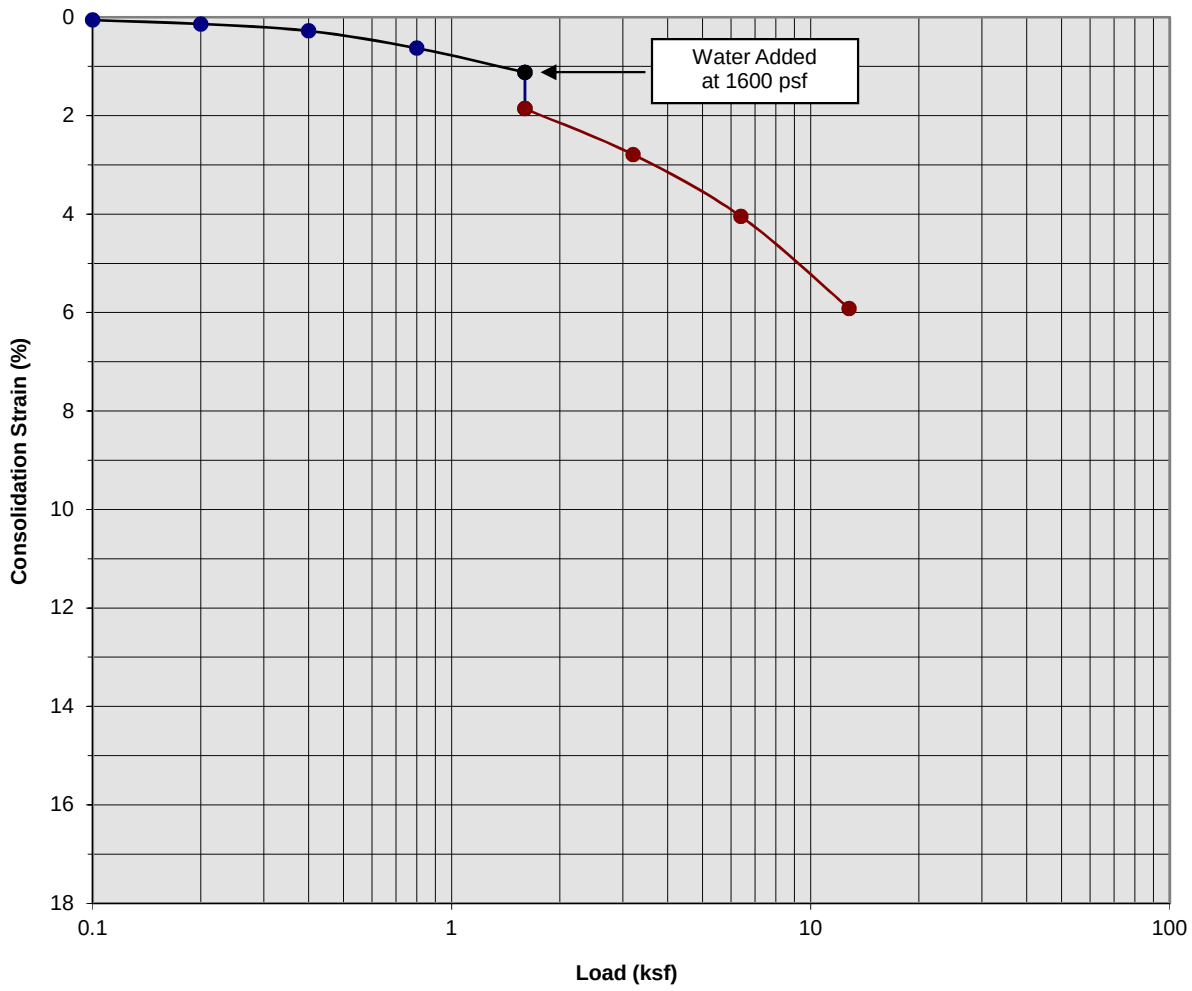
Boring Number:	B-5	Initial Moisture Content (%)	16
Sample Number:	---	Final Moisture Content (%)	16
Depth (ft)	9 to 10	Initial Dry Density (pcf)	113.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	121.4
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.27

Proposed South Ontario Logistics Center
Ontario, California
Project No. 19G134-2

PLATE C- 4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Gray Brown Silty fine Sand

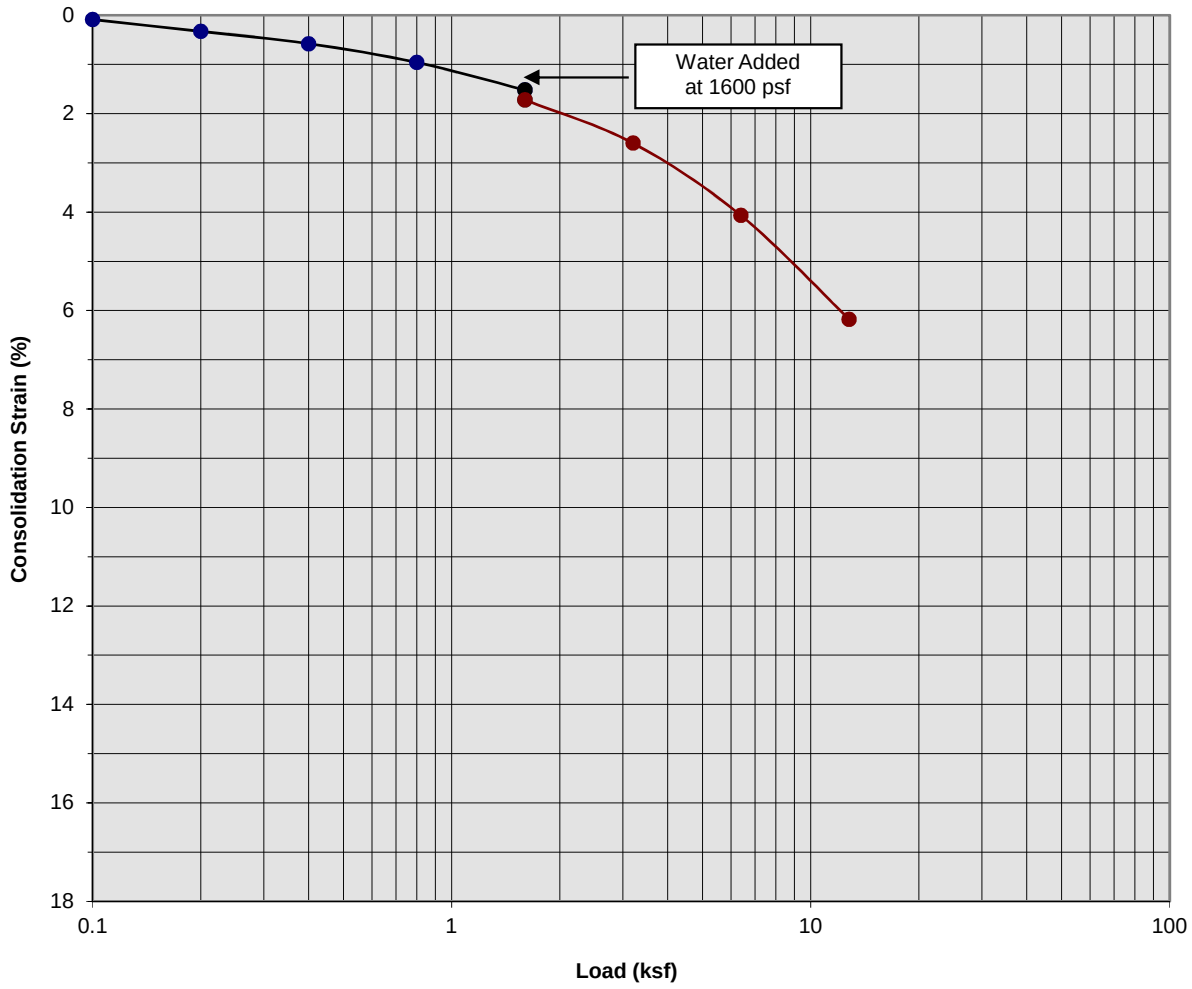
Boring Number:	B-6	Initial Moisture Content (%)	7
Sample Number:	---	Final Moisture Content (%)	20
Depth (ft)	3 to 4	Initial Dry Density (pcf)	102.3
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	108.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.74

Proposed South Ontario Logistics Center
Ontario, California
Project No. 19G134-2

PLATE C- 5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown fine Sandy Silt, trace to little Clay

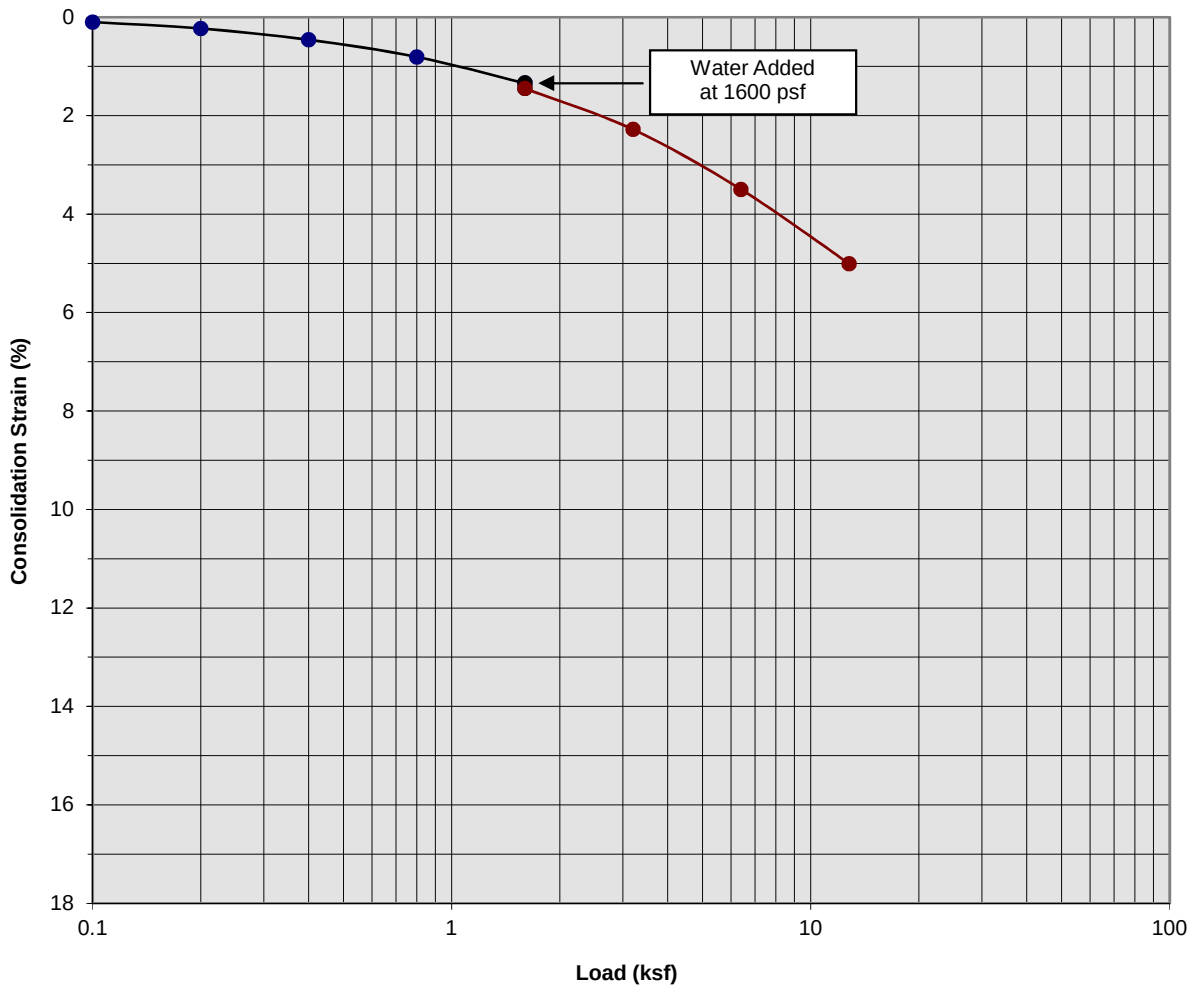
Boring Number:	B-6	Initial Moisture Content (%)	10
Sample Number:	---	Final Moisture Content (%)	17
Depth (ft)	5 to 6	Initial Dry Density (pcf)	110.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	116.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.20

Proposed South Ontario Logistics Center
Ontario, California
Project No. 19G134-2

PLATE C- 6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown fine Sandy Silt, trace to little Clay

Boring Number:	B-6	Initial Moisture Content (%)	19
Sample Number:	---	Final Moisture Content (%)	20
Depth (ft)	7 to 8	Initial Dry Density (pcf)	106.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	111.7
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.11

Proposed South Ontario Logistics Center
Ontario, California
Project No. 19G134-2

PLATE C- 7

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
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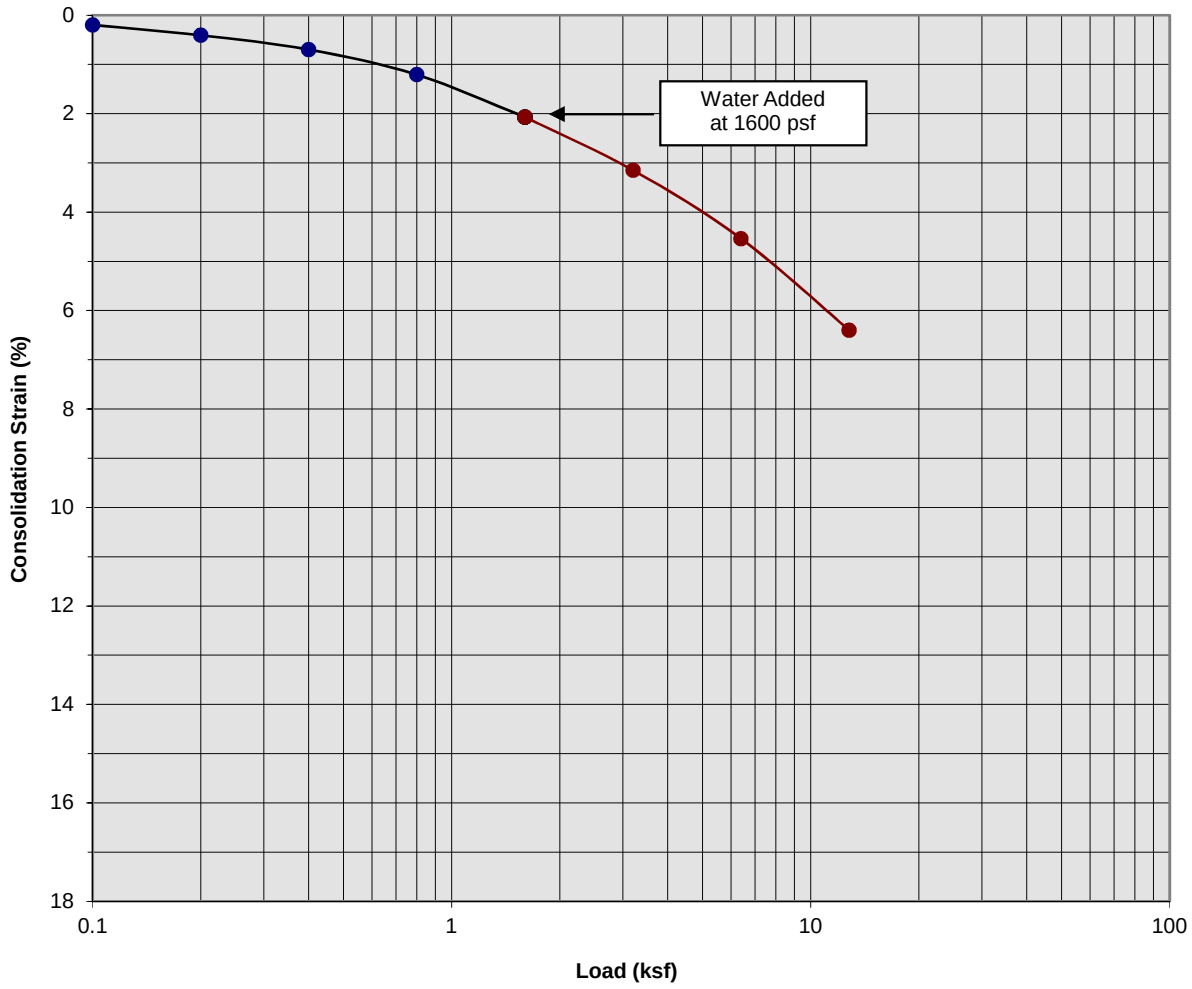
Consolidation/Collapse Test Results



Classification: Gray Brown Clayey Silt, trace fine Sand

Boring Number:	B-6	Initial Moisture Content (%)	22
Sample Number:	---	Final Moisture Content (%)	20
Depth (ft)	9 to 10	Initial Dry Density (pcf)	105.3
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	113.0
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.00

Proposed South Ontario Logistics Center
Ontario, California
Project No. 19G134-2

PLATE C- 8

SoCalGeo
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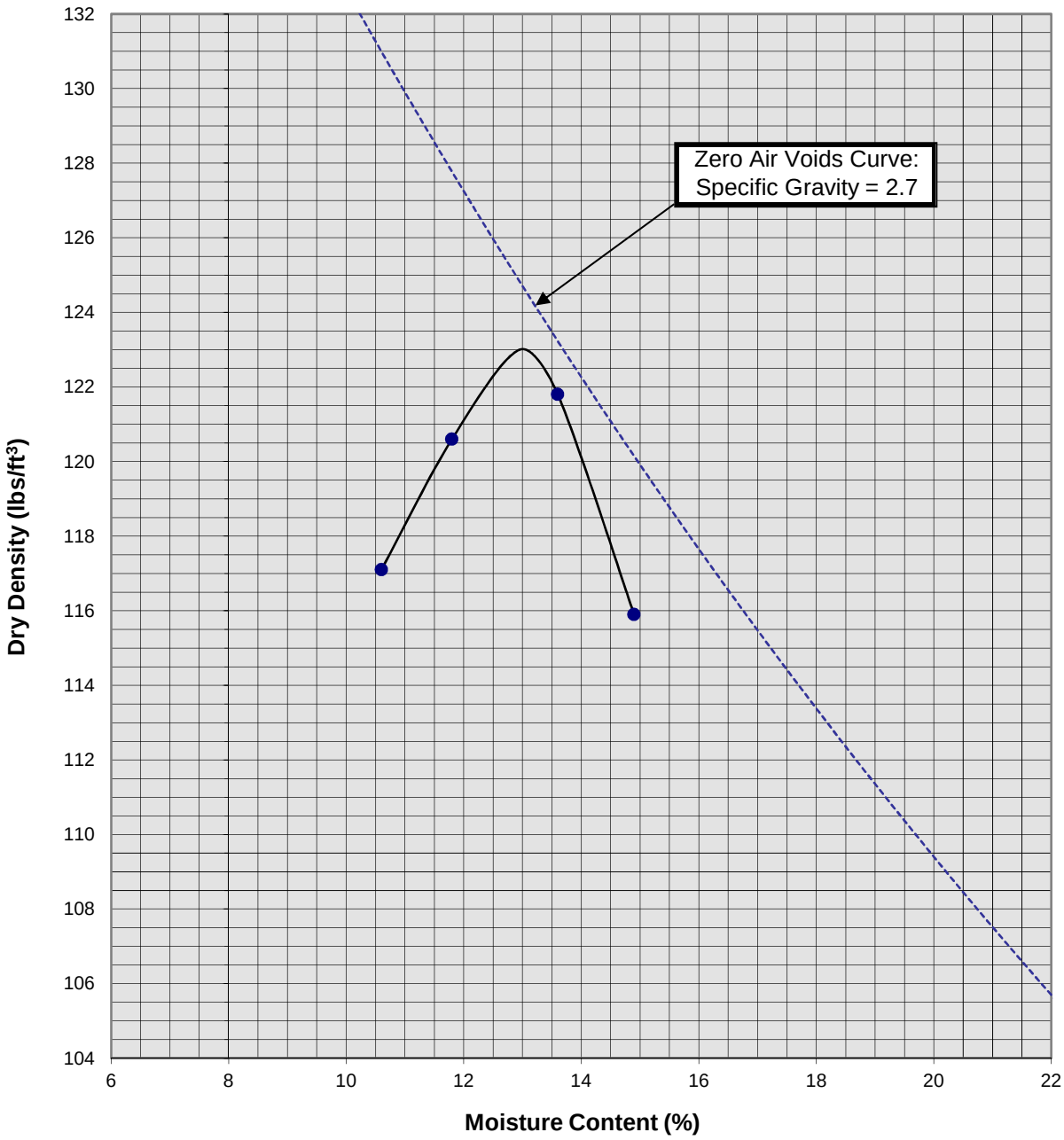
Moisture/Density Relationship
ASTM D-1557



Soil ID Number	B-5 @ 0 to 5'
Optimum Moisture (%)	13
Maximum Dry Density (pcf)	123
Soil Classification	Brown to Dark Brown Silty fine Sand, trace medium to coarse Sand

Proposed South Ontario Business Park
Ontario, California
Project No. 19G134-2

PLATE C-9

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

APPENDIX D

GRADING GUIDE SPECIFICATIONS

These grading guide specifications are intended to provide typical procedures for grading operations. They are intended to supplement the recommendations contained in the geotechnical investigation report for this project. Should the recommendations in the geotechnical investigation report conflict with the grading guide specifications, the more site specific recommendations in the geotechnical investigation report will govern.

General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.

- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.

- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.

- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.

- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.

- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.

- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.

- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.

- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.

- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.

- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted

- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as “contaminated,” and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.

- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.

- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.

- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:

    - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.

    - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

concrete. Ample water and compactive effort should be applied to the fill materials as they are placed in order that all of the voids between each of the fragments are filled and compacted to the specified density.

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.

- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.

- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.

- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.

- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.

- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.

- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.

- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.

- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.

- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.

- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.

- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.

- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core

- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.

- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.

- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).

- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.

- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

Cut Slopes

- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.

- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.

- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

- Stabilization key excavations should be provided with subdrains. Typical subdrain details are shown on Plates D-6.

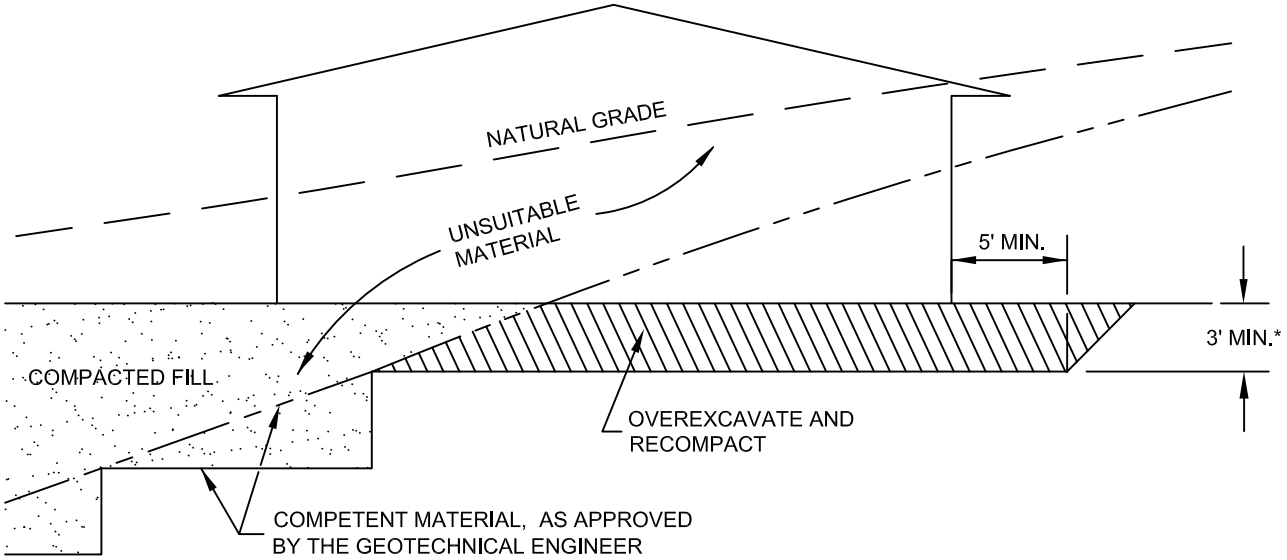
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.

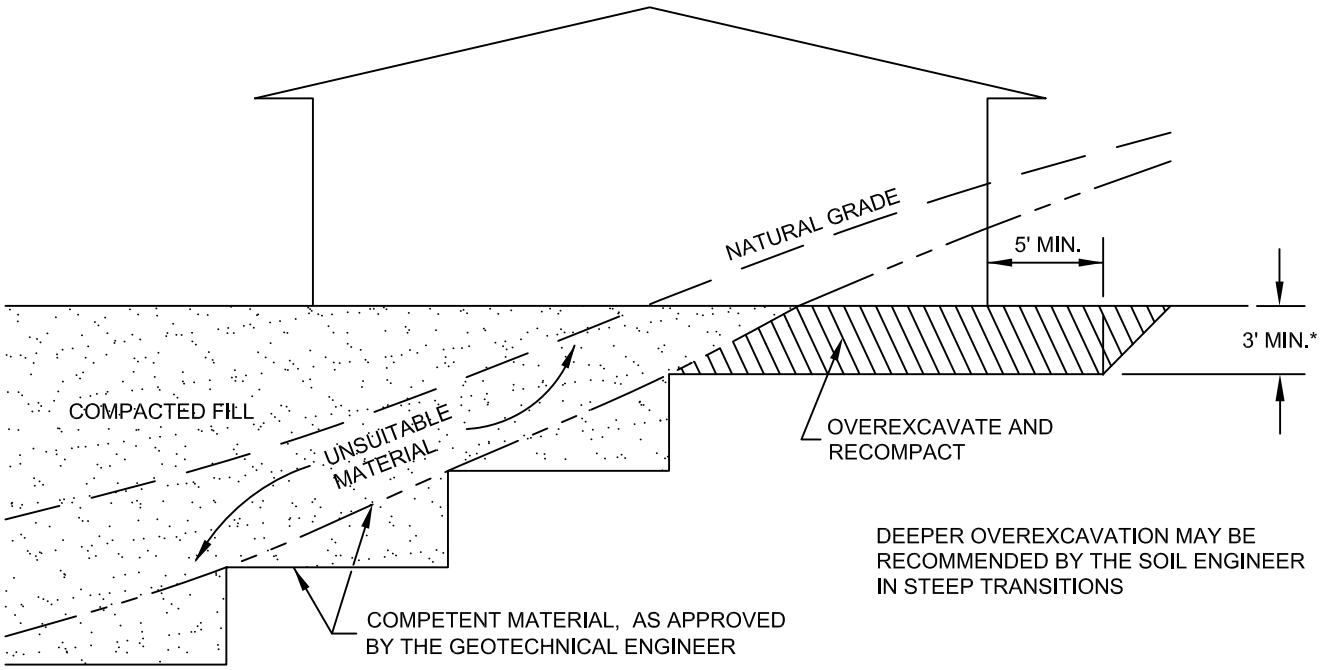
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.

- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ¾-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT



CUT/FILL LOT (TRANSITION)

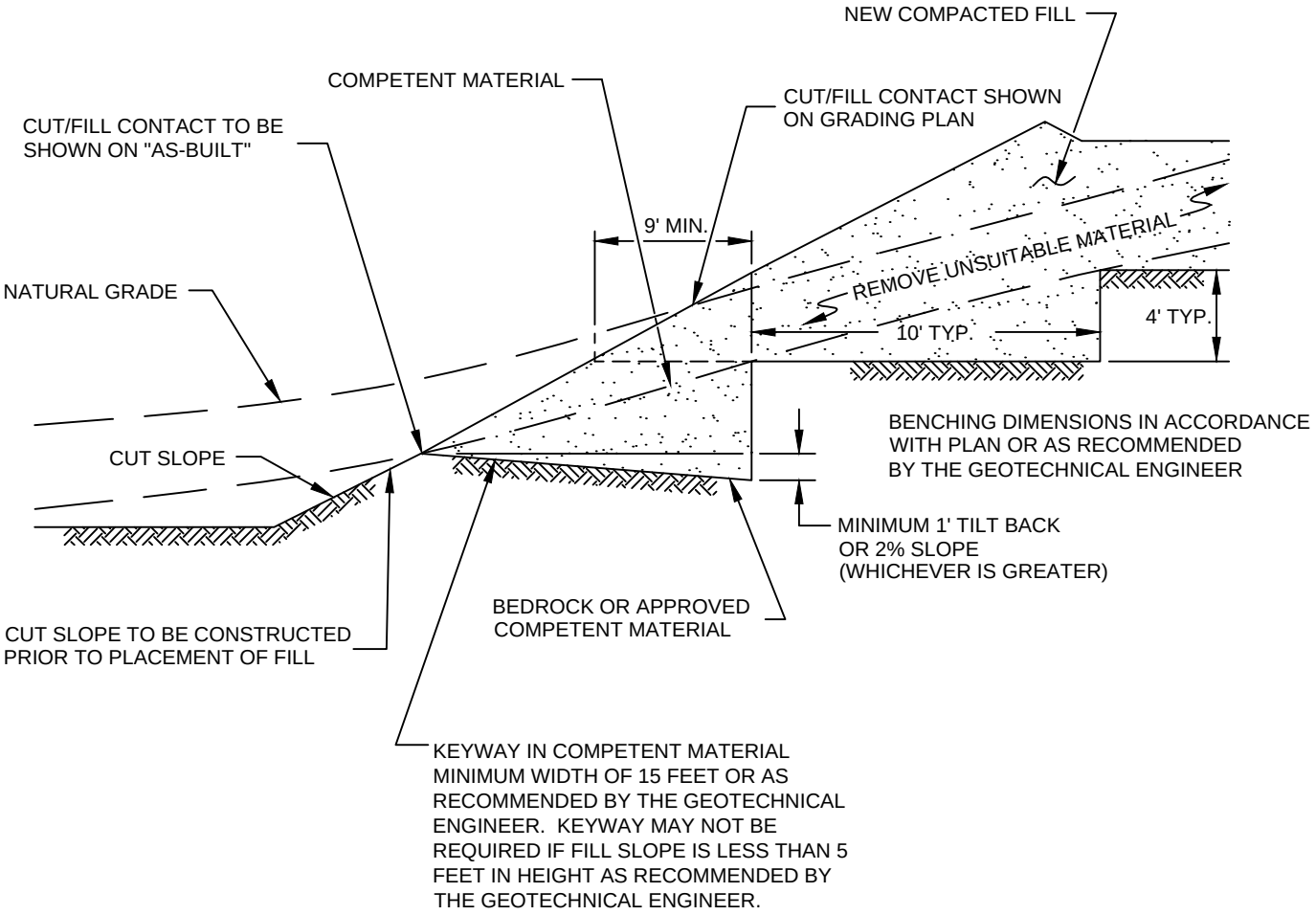


*SEE TEXT OF REPORT FOR SPECIFIC RECOMMENDATION. ACTUAL DEPTH OF OVEREXCAVATION MAY BE GREATER.

TRANSITION LOT DETAIL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE	SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JAS CHKD: GKM	
PLATE D-1	



FILL ABOVE CUT SLOPE DETAIL

GRADING GUIDE SPECIFICATIONS

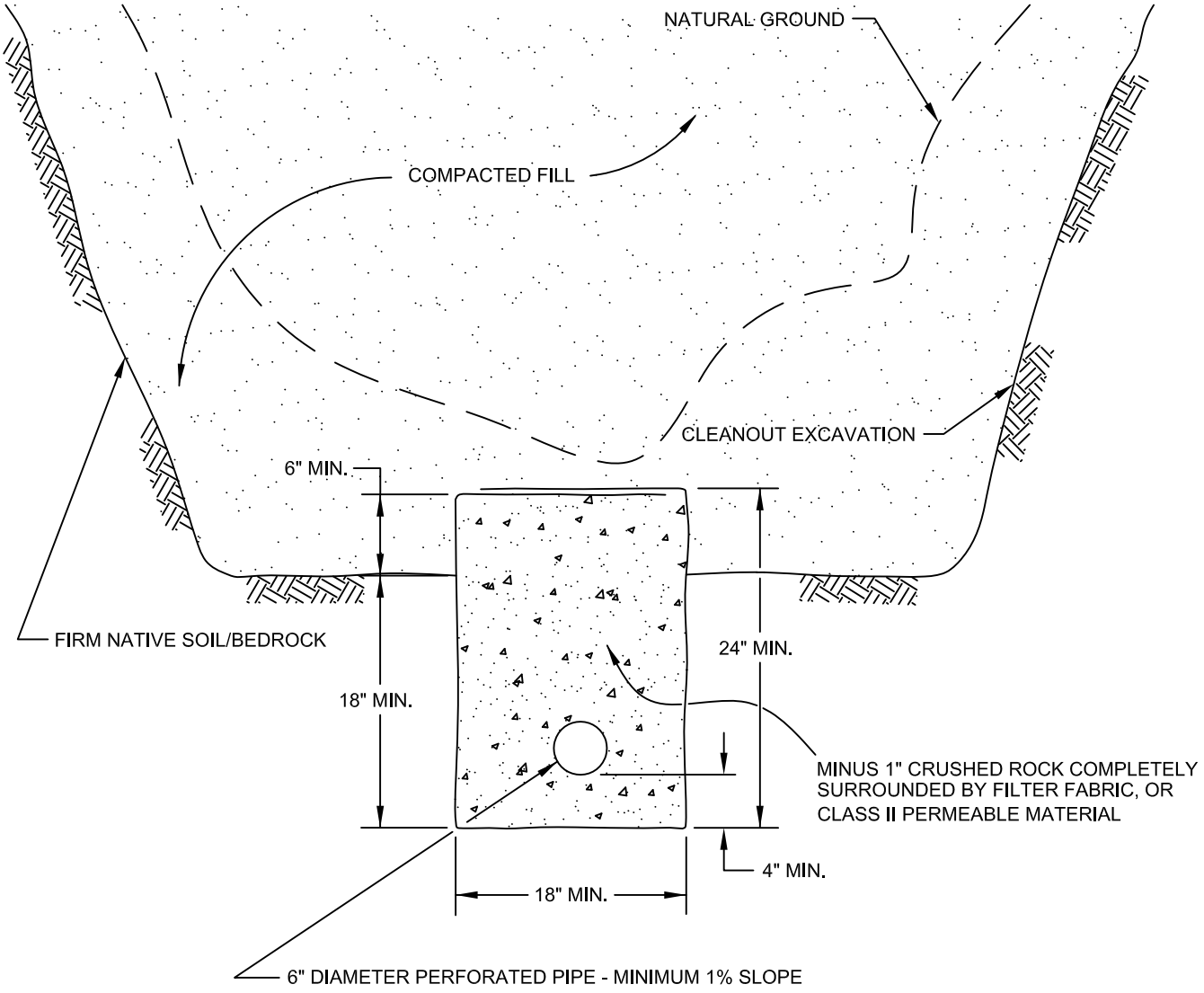
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-2

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



PIPE MATERIAL	DEPTH OF FILL OVER SUBDRAIN
ADS (CORRUGATED POLETHYLENE)	8
TRANSITE UNDERDRAIN	20
PVC OR ABS: SDR 35	35
SDR 21	100

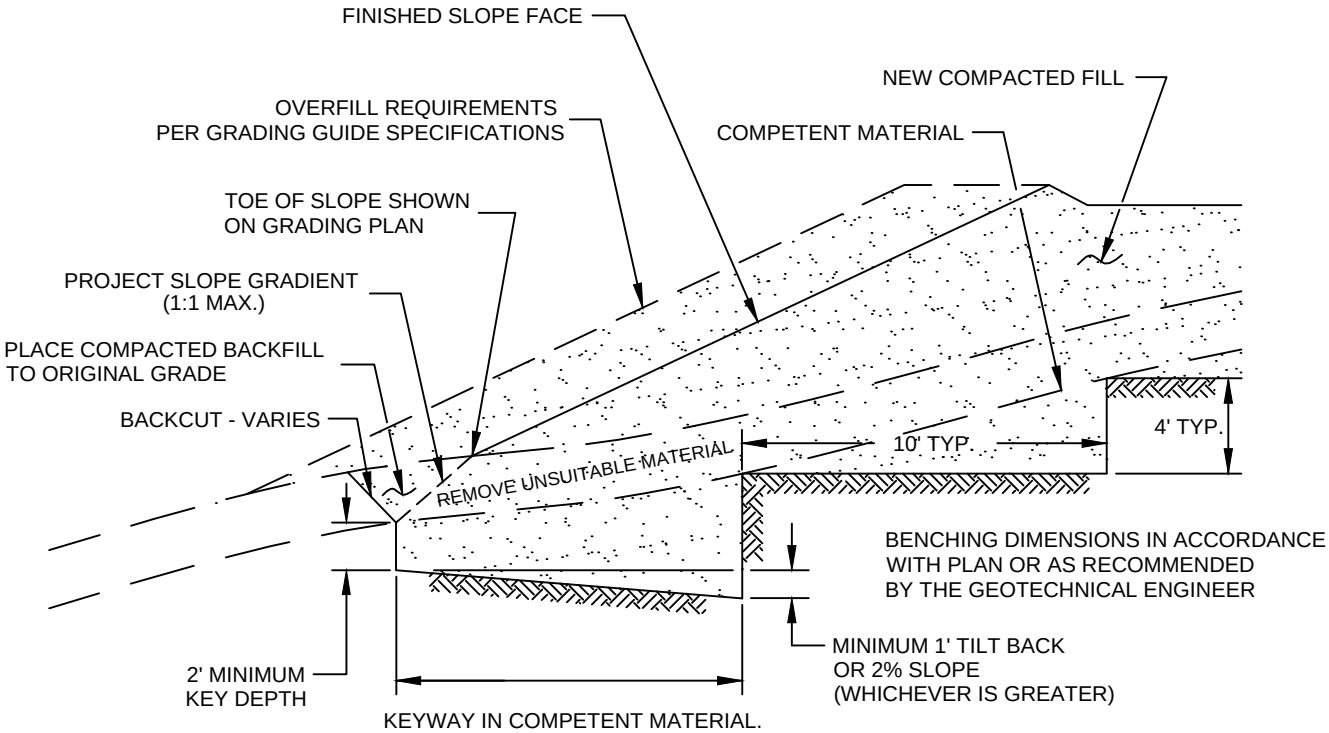
SCHEMATIC ONLY
NOT TO SCALE

CANYON SUBDRAIN DETAIL
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE
DRAWN: JAS
CHKD: GKM

PLATE D-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



NOTE:
BENCHING SHALL BE REQUIRED WHEN NATURAL SLOPES ARE EQUAL TO OR STEEPER THAN 5:1 OR WHEN RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

FILL ABOVE NATURAL SLOPE DETAIL

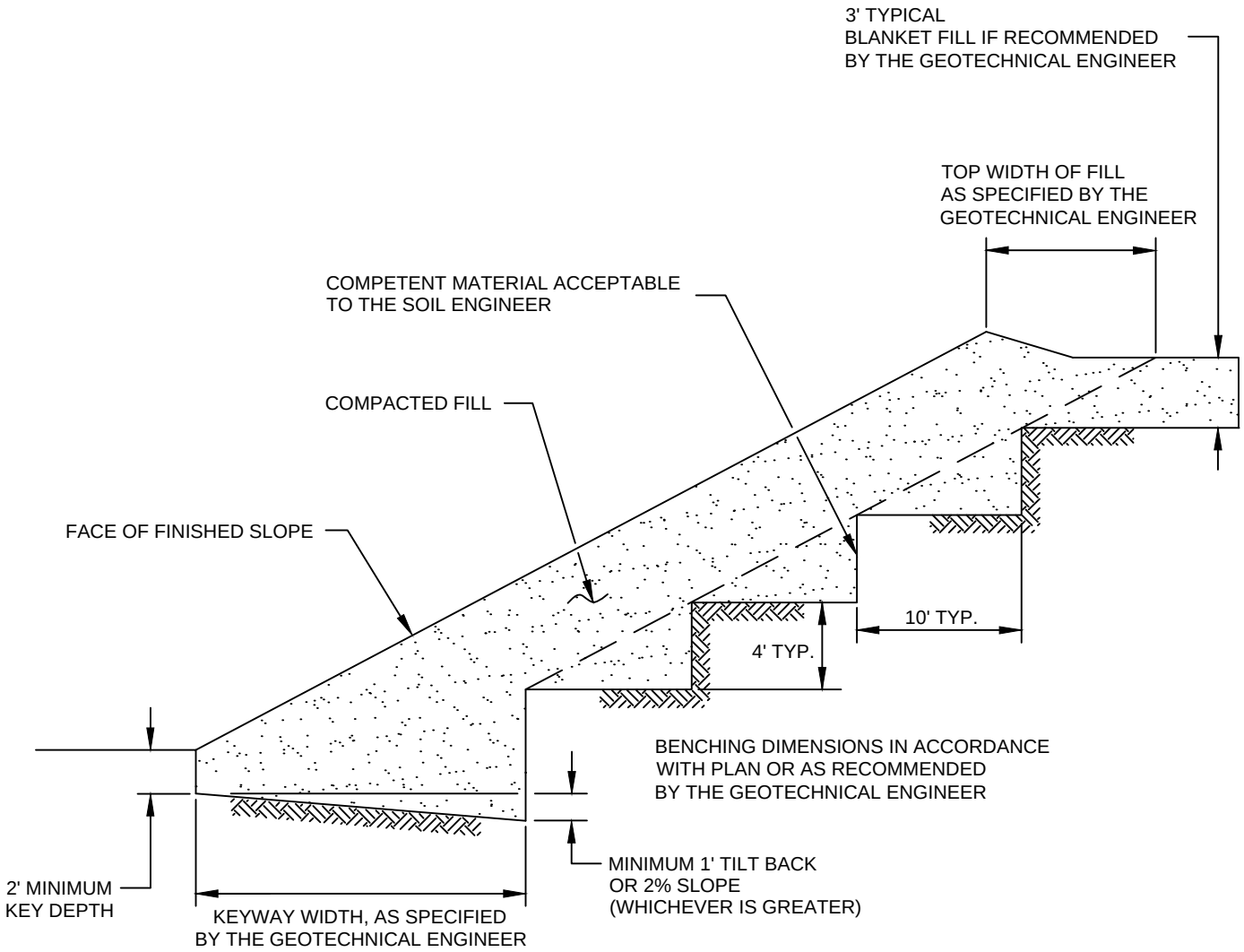
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



STABILIZATION FILL DETAIL

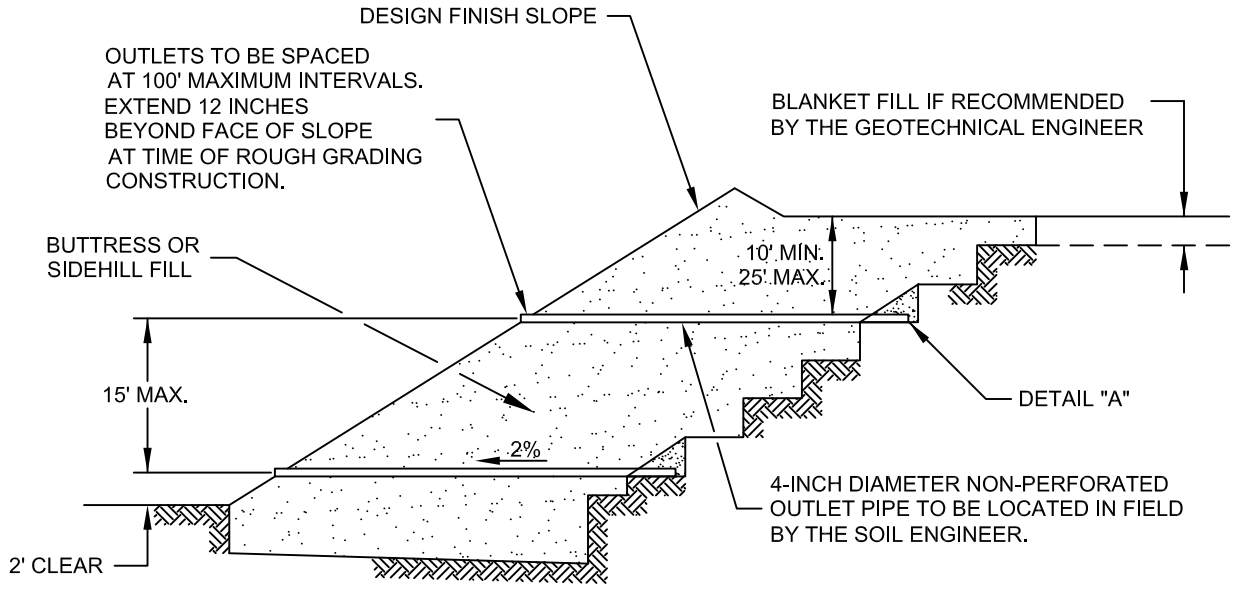
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



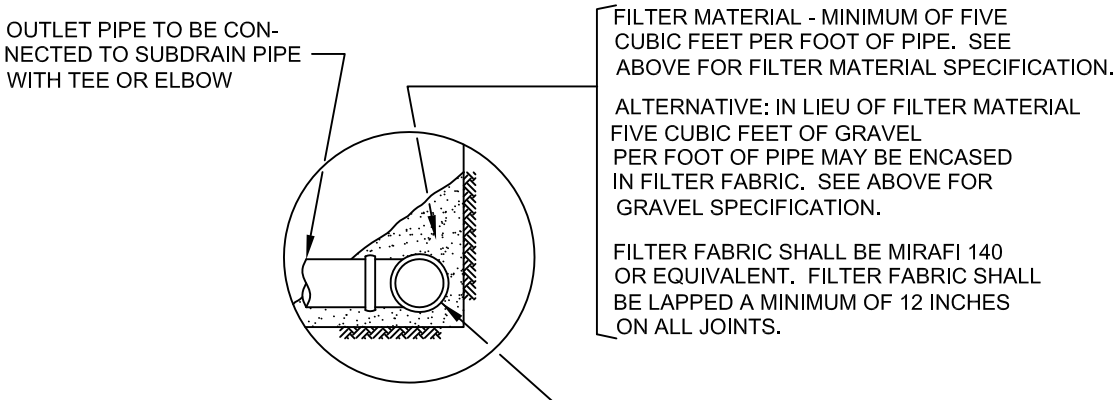
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50



DETAIL "A"

NOTES:
1. TRENCH FOR OUTLET PIPES TO BE BACKFILLED WITH ON-SITE SOIL.

SLOPE FILL SUBDRAINS

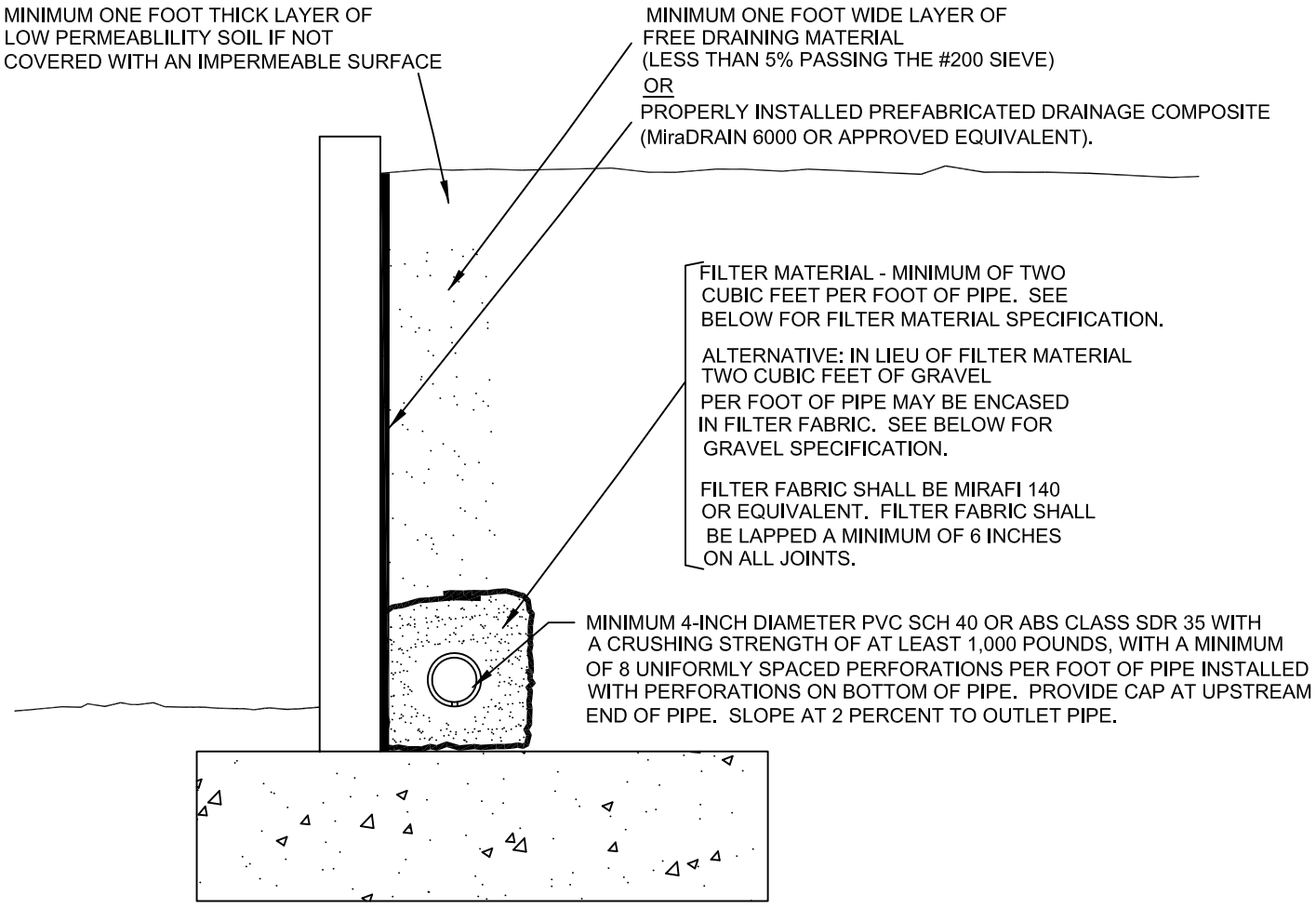
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50

RETAINING WALL BACKDRAINS

GRADING GUIDE SPECIFICATIONS

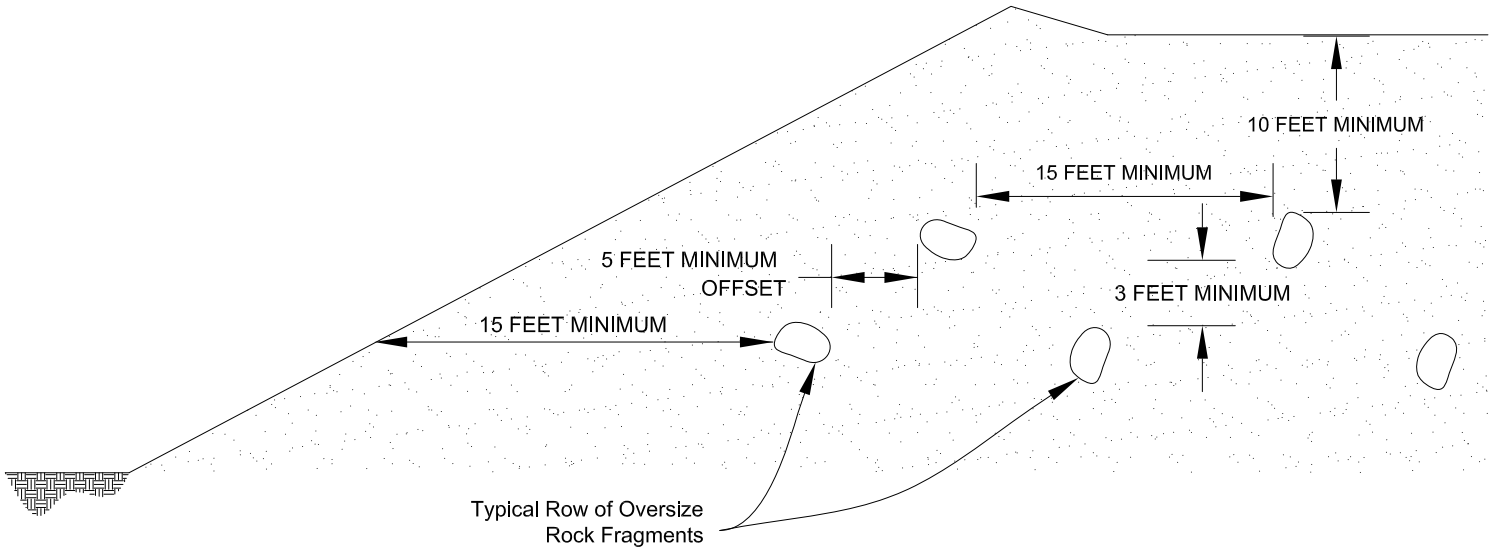
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

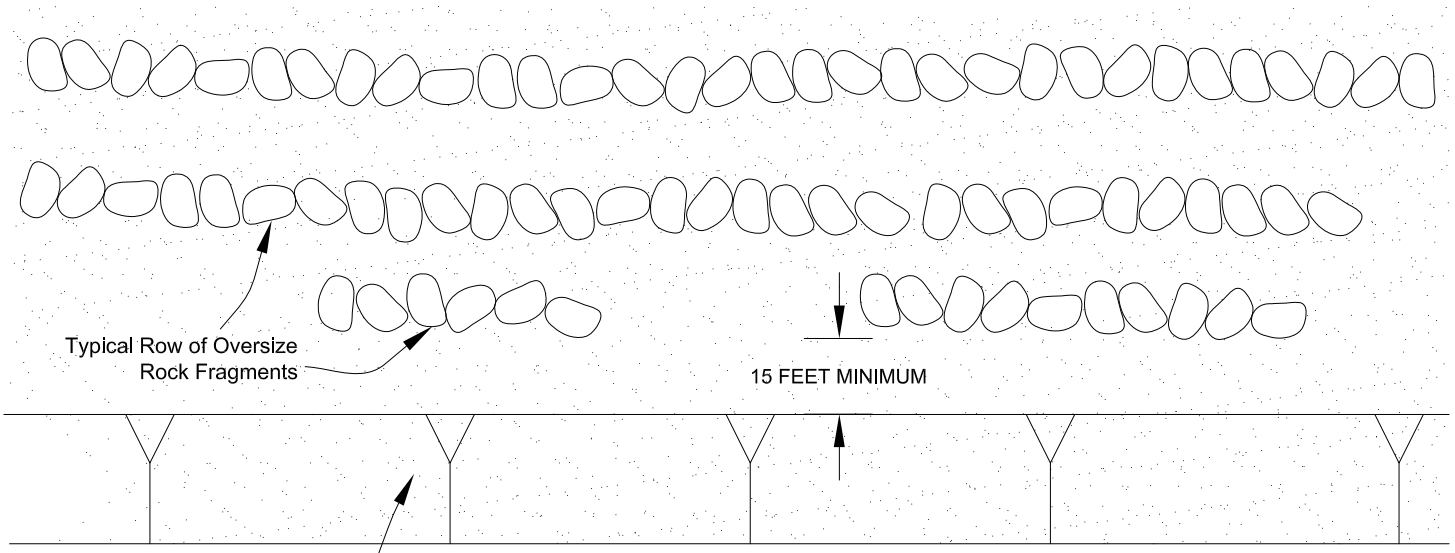
PLATE D-7

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



Section View



Plan View

PLACEMENT OF OVERSIZED MATERIAL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

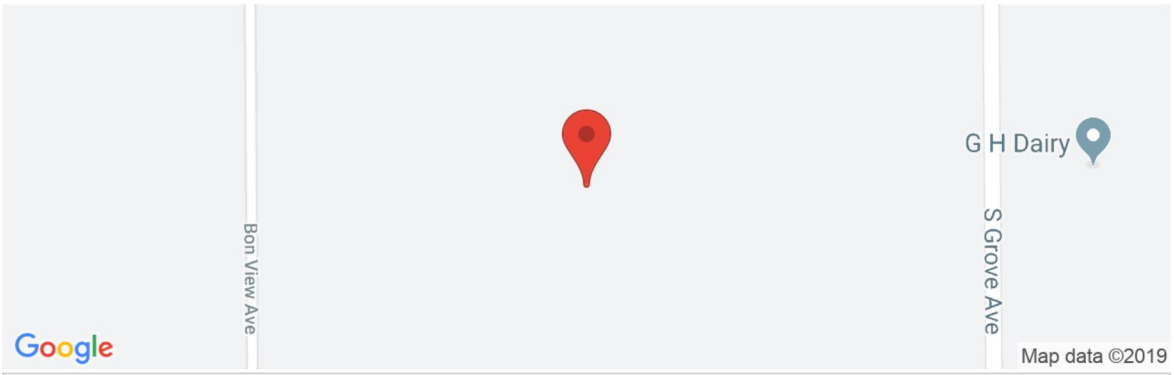
SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX E

OSHPD

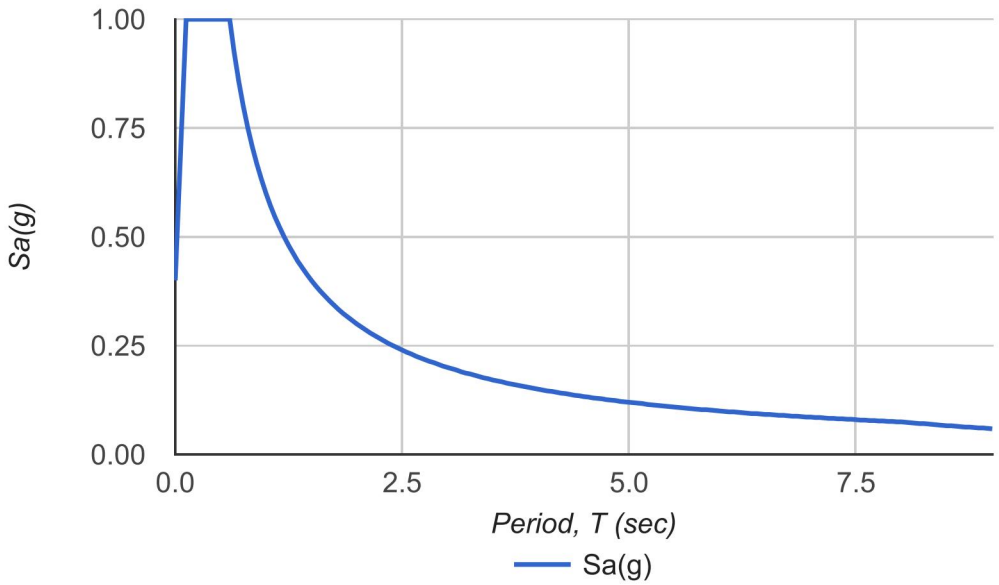
Latitude, Longitude: 33.987615, -117.632781



Date	8/31/2019, 11:47:44 AM
Design Code Reference Document	ASCE7-10
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description	Type	Value	Description
S_S	1.5	MCE_R ground motion. (for 0.2 second period)	SDC	D	Seismic design category
S_1	0.6	MCE_R ground motion. (for 1.0s period)	F_a	1	Site amplification factor at 0.2 second
S_{MS}	1.5	Site-modified spectral acceleration value	F_v	1.5	Site amplification factor at 1.0 second
S_{M1}	0.9	Site-modified spectral acceleration value	PGA	0.521	MCE_G peak ground acceleration
S_{DS}	1	Numeric seismic design value at 0.2 second SA	F_{PGA}	1	Site amplification factor at PGA
S_{D1}	0.6	Numeric seismic design value at 1.0 second SA	PGA_M	0.521	Site modified peak ground acceleration

Design Response Spectrum



SOURCE: SEAOC/OSHPD Seismic Design Maps Tool
<https://seismicmaps.org/>

SEISMIC DESIGN PARAMETERS - 2016 CBC

PROPOSED SOUTH ONTARIO LOGISTICS CENTER

ONTARIO, CALIFORNIA

DRAWN: JLL
CHKD: RGT

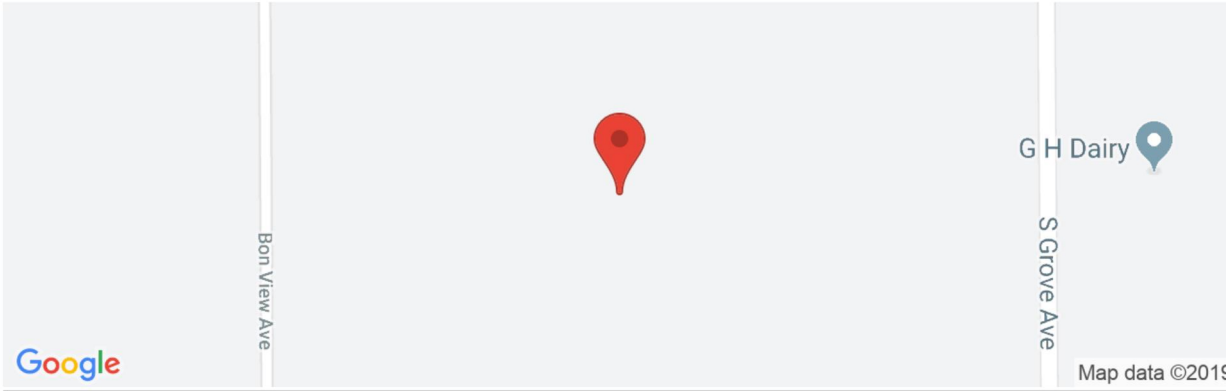
SCG PROJECT
19G134-2

PLATE E-1A

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

OSHPD

Latitude, Longitude: 33.987615, -117.632781



Date	9/17/2019, 2:23:17 PM
Design Code Reference Document	ASCE7-16
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.661	MCE_R ground motion. (for 0.2 second period)
S_1	0.595	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.661	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.107	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.691	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.76	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.661	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.78	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.858	Factored deterministic acceleration value. (0.2 second)
S1RT	0.595	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.649	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.605	Factored deterministic acceleration value. (1.0 second)
PGAd	0.756	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.933	Mapped value of the risk coefficient at short periods
C_{R1}	0.915	Mapped value of the risk coefficient at a period of 1 s

SOURCE: SEAOC/OSHPD Seismic Design Maps Tool
<https://seismicmaps.org/>

SEISMIC DESIGN PARAMETERS - 2019 CBC

PROPOSED SOUTH ONTARIO LOGISTICS CENTER

ONTARIO, CALIFORNIA

DRAWN: JLL
CHKD: RGT

SCG PROJECT
19G134-2

PLATE E-1B

SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX E2

INFILTRATION TESTING REPORT

May 3, 2019

REDA LLC
4100 MacArthur Boulevard, Suite 120
Newport Beach, California 92660

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Attention: Mr. Bill Goltermann

Project No.: **19G134-1**

Subject: **Results of Preliminary Infiltration Testing**
Proposed Commercial/Industrial Development
SWC Eucalyptus Avenue and Grove Avenue
Ontario, California

Reference: Geotechnical Feasibility Study, Proposed Commercial/Industrial Development, SWC Eucalyptus Avenue and Grove Avenue, Ontario, California, prepared by Southern California Geotechnical, Inc. (SCG), for Hillwood, SCG Project No. 18G133-1, dated April 18, 2018.

Dear Mr. Goltermann:

In accordance with your request, we have conducted infiltration testing at the subject site. We are pleased to present this report summarizing the results of the infiltration testing and our design recommendations. A total of nine (9) infiltration tests were performed in order to assess the feasibility of using on-site infiltration throughout the subject site. Additional infiltration testing will be required at a later date in order to determine the infiltration rates at the other infiltration system locations.

Scope of Services

The scope of services performed for this project was in general accordance with our Proposal No. 19P173R, dated March 27, 2019. The scope of services included site reconnaissance, subsurface exploration, field testing, and engineering analysis to determine the infiltration rates of the onsite soils. The infiltration testing was performed in general accordance with the guidelines published in the Technical Guidance Document for Water Quality Management Plans (WQMP), prepared for the County of San Bernardino Areawide Stormwater Program dated June 7, 2013. The San Bernardino County standards defer to guidelines published by Riverside County Department of Environmental Health (RCDEH).

Site and Project Description

The subject site is located at the southwest corner of Eucalyptus Avenue and Grove Avenue in Ontario, California. The site is bounded to the north by Eucalyptus Avenue, to the west by Bon View Avenue, to the south by Merrill Avenue and an existing dairy farm, and to the east by Grove Avenue. The general location of the site is illustrated on the Site Location Map, enclosed as Plate 1 of this report.

The site is currently developed as a dairy farm. The eastern half of the subject site is presently developed with several cattle pens, steel canopies, and a large steel barn structure in the north-central region. The northeastern portion of the site is developed with two (2) single-family residences, a milking parlor, and other structures associated with milking activities. The single-family residences appear to be of wood-frame and stucco construction, and are assumed to be supported on conventional shallow foundations with concrete slab-on-grade floors. The southeastern portion of the site is developed with multiple cattle pens, a large 106,500± ft^2 wastewater pond, and a single-family residence in the southeastern corner. The ground surface cover surrounding the residences and the other structures generally consists of turf grass, aggregate base (AB), asphaltic concrete (AC), and concrete pavements, as well as manure in the cattle pen areas and exposed soils with sparse native grass and weed growth in the remaining areas.

The western half of the site appears to be primarily utilized for agricultural purposes and wastewater storage. The ground surface cover generally consists of exposed soils with moderate to very dense native grass and weed growth. The northwestern corner of the site is developed with four (4) small farmhouses and a steel barn structure. The farmhouses appear to be of wood-frame and stucco construction, and are assumed to be supported on conventional shallow foundations with concrete slab-on-grade floors. The ground surface cover surrounding these structures consists of turf grass, concrete pavements, and exposed soil. The southern portion of the western half of the site contains ten (10) wastewater holding ponds ranging in size from 28,500± ft^2 to 90,000± ft^2 and depths ranging from 3 to 5± feet.

Topographic information for the subject site was obtained from a grading plan prepared by Thienes Engineering, Inc. The plan indicates that the site topography generally slopes downward to the south-southwest at a gradient of less than 1± percent. With the exception of the aforementioned wastewater holding ponds, the existing site grades range from an elevation of 675± feet mean sea level (msl) in the northeastern area of the site to 652± feet msl in the southwestern area.

Proposed Development

Based on the site plan provided to our office, the subject site will be developed with a total of eight (8) new commercial/industrial buildings. The buildings will be identified as Building 1 through Building 8. Buildings 1 through 3 will occupy the majority of the subject site and will range from 507,620± ft^2 to 1,294,400± ft^2 in size. Buildings 1 and 2 will be constructed in cross-dock configurations and Building 3 will be constructed with dock-high doors along the southern building wall. Buildings 4 through 8 will be located in the northern area of the site along Eucalyptus Avenue, and will range from 67,490± ft^2 to 118,550± ft^2 in size. These buildings will be constructed with dock-high doors along the southern wall of each building. It is expected that the buildings will be surrounded by asphaltic concrete pavements for the parking and drive lanes, and Portland cement concrete pavements in the loading dock areas. Several landscape planters and areas of concrete flatwork will also be included throughout the site.

We understand that the proposed development will include on-site infiltration to dispose of storm water. Based on an infiltration test exhibit, prepared by Thienes Engineering, Inc., the project civil engineer, the proposed infiltration system will consist of a total of twelve (12) below-grade chamber systems for the proposed development. The below-grade chambers are identified as

(Infiltration Chamber "A" through Infiltration Chamber "L". The bottoms of the below-grade chambers will range from 11 to 21½± feet below the existing site grades. In addition, several dry well systems may also be included as part of the infiltration system. The dry wells are expected to extend to depths of 50± feet. It should be noted that the infiltration testing was only completed for nine (9) of the below-grade chamber systems. The remaining infiltration systems are expected to be tested at a later time.

Previous Study

Southern California Geotechnical, Inc. (SCG) previously conducted a geotechnical feasibility study at the subject site, referenced above. As a part of this study, six (6) borings were advanced to depths of 20 to 30± feet below currently existing site grades. In addition to the six borings, five (5) trenches were excavated at the site to depths of 5 to 10± feet below existing site grades. Manure was present at the ground surface at two of the trenches with thicknesses of 4½ to 5± inches. Highly organic topsoil materials were encountered at some of the boring and trench locations, which consisted of silty fine sands and contained manure and/or other fibrous organic material. A 6±-inch-thick surficial layer of aggregate base was observed at the ground surface at one of the borings. Artificial fill soils were encountered beneath the AB layer and at the ground surface at one of the boring locations, extending to depths of 2½ to 3± feet. The fill soils consisted of medium dense fine sand with trace silt, fine gravel, and AC fragments. Native alluvial soils were encountered at the ground surface or beneath the fill, topsoil, and manure at all of the boring and trench locations. The near-surface alluvium generally consisted of loose to medium dense fine sands and silty fine sands to fine sandy silts, extending to depths of 4½ to 8½± feet below ground surface. Beneath these soils, the borings encountered stiff to very stiff clayey silts, silty clays, and sandy clays with occasional layers of medium dense silty sands, sandy silts, and clayey sands, extending to at least the maximum depth explored of 30± feet below existing site grades. Free water was not encountered during the drilling of any of the borings.

Subsurface Exploration

Scope of Exploration

The subsurface exploration conducted for the infiltration testing consisted of nine (9) infiltration test borings advanced to depths of 12 to 20± feet below the existing site grades. In addition to the nine (9) infiltration borings, one (1) exploratory boring was drilled to a depth of 60± feet to verify that the depth to groundwater is at least 10± feet below the bottom of the proposed dry well systems. All of the borings were advanced using a truck-mounted drilling rig, equipped with 8-inch-diameter hollow stem augers and were logged during drilling by a member of our staff. The approximate locations of the infiltration test borings (identified as I-1 through I-9) and the exploratory boring (Boring No. B-7) are indicated on the Infiltration Test Location Plan, enclosed as Plate 2 of this report.

Upon the completion of the infiltration borings, the bottom of each test boring was covered with 2± inches of clean ¾-inch gravel. A sufficient length of 3-inch-diameter perforated PVC casing was then placed into each test hole so that the PVC casing extended from the bottom of the test hole to the ground surface. Clean ¾-inch gravel was then installed in the annulus surrounding the PVC casing.

Geotechnical Conditions

Disturbed alluvial soils were encountered at the ground surface at Infiltration Boring Nos. I-1, I-2, and I-6 through I-8, extending to a depth of 3± foot below existing site grades. The disturbed alluvial soils consist of very loose to medium dense silty fine sands with varying amounts of medium sand. The soils classified as disturbed alluvium generally resemble the underlying native alluvium but have a disturbed, loose appearance from the possible tillage of the surficial soils resulting in their classification as disturbed alluvium.

Native alluvial soils were encountered beneath the disturbed alluvium and at the ground surface at the exploratory boring and the remaining infiltration boring locations, extending to at least 60± feet below the existing site grades. The alluvium generally consists of soft to very stiff silty clays and fine sandy clays, and loose to dense fine sandy silts, silty fine sands, clayey fine sands, and fine sands with varying medium sand, silt, and clay content. The Boring Logs, which illustrate the conditions encountered at the boring locations, are included with this report.

Groundwater

Free water was not encountered during the drilling of any of the borings. Based on the lack of any water within the borings and the moisture contents of the recovered soil samples, the static groundwater is considered to have existed at a depth in excess of 60± feet at the time of the subsurface exploration. As part of our research, we reviewed readily available groundwater data in order to determine regional groundwater depths. Recent water level data was obtained from the California State Water Resources Control Board GeoTracker website, http://geotracker.waterboards.ca.gov/. Available data for one of the monitoring wells, located approximately 3,090± feet southwest from the site, indicates a high groundwater level of 71± feet below ground surface.

Infiltration Testing

As previously mentioned, the infiltration testing was performed in general accordance with the guidelines published in the Technical Guidance Document for Water Quality Management Plans (WQMP), prepared for the County of San Bernardino Areawide Stormwater Program.

Pre-soaking

In accordance with the county infiltration standards, all nine (9) of the infiltration test borings were pre-soaked prior to the infiltration testing. The pre-soaking process consisted of filling the test borings by inverting a full 5-gallon bottle of clear water supported over each hole so that the water level reaches a level of at least 5 times the hole's radius above the gravel at the bottom of each hole. The pre-soaking was completed after all of the water had percolated through each test hole or after 15 hours since initiating the pre-soak. Based on the results of the pre-soaking process, different infiltration procedures were used during the infiltration testing at the infiltration boring locations.

Infiltration Testing

Following the pre-soaking process of the infiltration test borings, SCG performed the infiltration testing. Each test hole was filled with water to a depth of at least 5 times the hole's radius above the gravel at the bottom of each test hole, and less than or equal to the water level used during the pre-soaking process. In accordance with the San Bernardino County guidelines, since "sandy soils" were encountered at the bottom of Infiltration Boring Nos. I-3 through I-5 (where 6 inches of water infiltrated into the surrounding soils for two-consecutive 25-minute readings), readings were taken at 10-minute intervals for a total of 1 hour at Infiltration Test Nos. I-3, I-4, and I-5. Since "non-sandy soils" were encountered at the bottom of Infiltration Boring Nos. I-1, I-2, and I-6 through I-9, readings were taken at 30-minute intervals for a total of 6 hours for these six (6) infiltration tests. After each reading, the borings were refilled to the correct water level above the gravel at the bottom of each test hole. The water level readings are presented on the spreadsheets enclosed with this report. The infiltration rates for each of the timed intervals are also tabulated on the spreadsheets.

The infiltration rates from the test are tabulated in inches per hour. In accordance with the typically accepted practice, it is recommended that the most conservative reading from the latter part of the infiltration tests be used as the design infiltration rate. The rates are summarized below:

Infiltration Test No.	Depth (feet)	Test Elevation (msl)	Soil Description	Infiltration Rate (inches/hour)
I-1	15	653	Fine Sandy Clay, trace Silt	0.1
I-2	15½	652.5	Fine Sandy Clay	0.1
I-3	14	655	Silty fine to medium Sand, trace coarse Sand, trace Clay	4.0
I-4	16½	649	Silty fine to medium Sand	4.2
I-5	18½	645.5	Silty fine Sand	3.8
I-6	15½	645	Fine Sandy Clay, trace medium Sand, trace Silt	0.2
I-7	20	645	Clayey fine Sand, trace medium Sand	0.2
I-8	12	645	Fine Sandy Clay, little Silt	0.3
I-9	12	663.5	Fine Sandy Clay, trace Silt	0.2

Laboratory Testing

Moisture Content

The moisture contents for the recovered soil samples within the borings were determined in accordance with ASTM D-2216 and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Grain Size Analysis

The grain size distribution of selected soils collected from the bottom of each infiltration test boring have been determined using a range of wire mesh screens. These tests were performed in general accordance with ASTM D-422 and/or ASTM D-1140. The weight of the portion of the sample retained on each screen is recorded and the percentage finer or coarser of the total weight is calculated. The results of these tests are presented on Plates C-1 through C-9 of this report.

Design Recommendations

Nine (9) infiltration tests were performed at the subject site. As noted above, the infiltration rates at these locations range from 0.1 to 4.2 inches per hour. The primary factors affecting the infiltration rates are the silt and clay content of the soils encountered at the bottom of each infiltration test boring, which vary at different depths and locations at the subject site. As previously mentioned, a total of nine (9) infiltration tests were performed as part of the initial infiltration testing in order to assess the feasibility of using on-site infiltration throughout the subject site.

Based on the initial infiltration test results, the following preliminary infiltration rates are recommended:

Infiltration Chamber	Infiltration Rate (in/hr)
A	No Significant Infiltration
B	No Significant Infiltration
C	Additional Testing Required
D	Additional Testing Required
E	4.0
F	4.2
G	3.8
H	No Significant Infiltration
I	0.3
J	No Significant Infiltration
K	Additional Testing Required
L	No Significant Infiltration

Additional infiltration testing will be required within the proposed infiltration chambers that have not been tested and within Infiltration Chambers "E", "F", and "G" to confirm the infiltration rates at other locations within the chambers.

The design of the proposed storm water infiltration systems should be performed by the project civil engineer, in accordance with the City of Ontario and/or County of San Bernardino guidelines. However, it is recommended that the systems be constructed so as to facilitate removal of silt and clay, or other deleterious materials from any water that may enter the systems. The presence of such materials would decrease the effective infiltration rate. **It is recommended that the project civil engineer apply an appropriate factor of safety. The infiltration rates are based on the assumption that only clean water will be introduced to the subsurface profile. Any fines, debris, or organic materials could significantly impact the infiltration rates.** It should be noted that the infiltration rates are based on infiltration testing at nine (9) discrete locations and the overall infiltration rates of the storm water infiltration systems could vary considerably.

Construction Considerations

The infiltration rates presented in this report are specific to the tested locations and tested depths. Infiltration rates can be significantly reduced if the soils are exposed to excessive disturbance or compaction during construction. Therefore, the subgrade soils within proposed infiltration system areas should not be overexcavated, undercut or compacted in any significant manner. **It is recommended that a note to this effect be added to the project plans and/or specifications.**

Infiltration versus Permeability

Infiltration rates are based on unsaturated flow. As water is introduced into soils by infiltration, the soils become saturated and the wetting front advances from the unsaturated zone to the saturated zone. Once the soils become saturated, infiltration rates become zero, and water can only move through soils by hydraulic conductivity at a rate determined by pressure head and soil permeability. The infiltration rates presented herein were determined in accordance with the ASTM Test Method D-3385-03 standard and are considered valid for the time and place of the actual test. Changes in soil moisture content will affect these infiltration rates. Infiltration rates should be expected to decrease until the soils become saturated. Soil permeability values will then govern groundwater movement. Permeability values may be on the order of 10 to 20 times less than infiltration rates. The system designer should incorporate adequate factors of safety and allow for overflow design into appropriate traditional storm drain systems, which would transport storm water off-site.

Location of Infiltration Systems

The use of on-site storm water infiltration systems carries a risk of creating adverse geotechnical conditions. Increasing the moisture content of the soil can cause the soil to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Overlying structures and pavements in the infiltration areas could potentially be damaged due to saturation of subgrade soils. **The proposed infiltration systems for this site should be located at least 25 feet away from any structures, including retaining walls.** Even with this provision of locating the infiltration system at least 25 feet from the building, it is possible that infiltrating water into the subsurface soils could have an adverse effect on the proposed or existing structures. It should also be noted that utility trenches which

happen to collect storm water can also serve as conduits to transmit storm water toward the structure, depending on the slope of the utility trench. Therefore, consideration should also be given to the proposed locations of underground utilities which may pass near the proposed infiltration systems.

General Comments

This report has been prepared as an instrument of service for use by the client in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, structural engineer, and/or civil engineer. The design of the infiltration system is the responsibility of the civil engineer. The role of the geotechnical engineer is limited to determination of infiltration rate only. By using the design infiltration rates contained herein, the civil engineer agrees to indemnify, defend, and hold harmless the geotechnical engineer for all aspects of the design and performance of the infiltration system. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between trench locations and testing depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted. The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

Closure

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

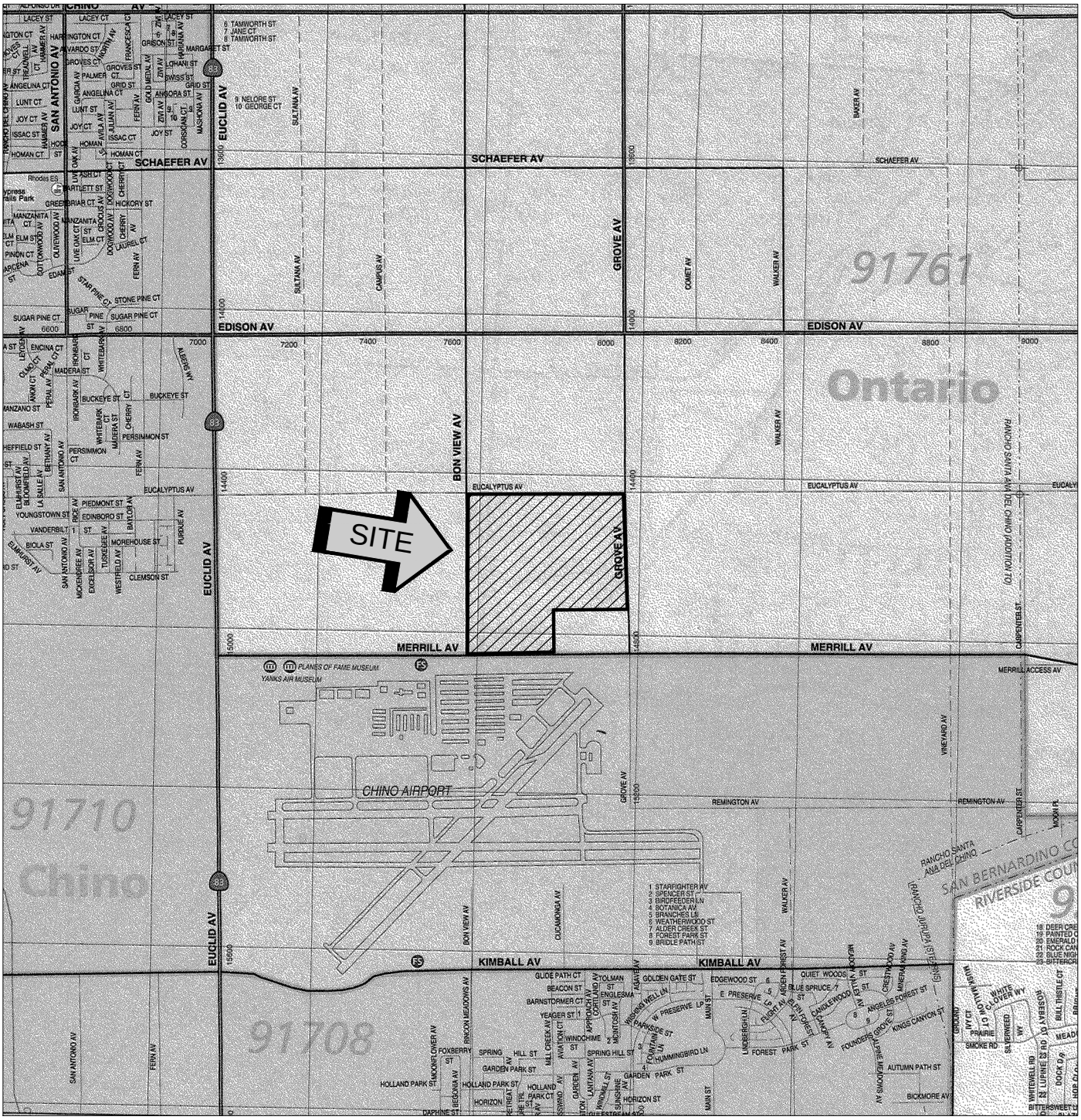
SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Scott McCann
Staff Scientist

Robert G. Trazo, GE 2655
Principal Engineer

Distribution: (1) Addressee

Enclosures: Plate 1 - Site Location Map
Plate 2 - Infiltration Test Location Plan
Boring Log Legend and Logs (13 pages)
Infiltration Test Results Spreadsheets (9 pages)
Grain Size Distribution Graphs (9 pages)



SOURCE: SAN BERNARDINO COUNTY
THOMAS GUIDE, 2013

SITE LOCATION MAP

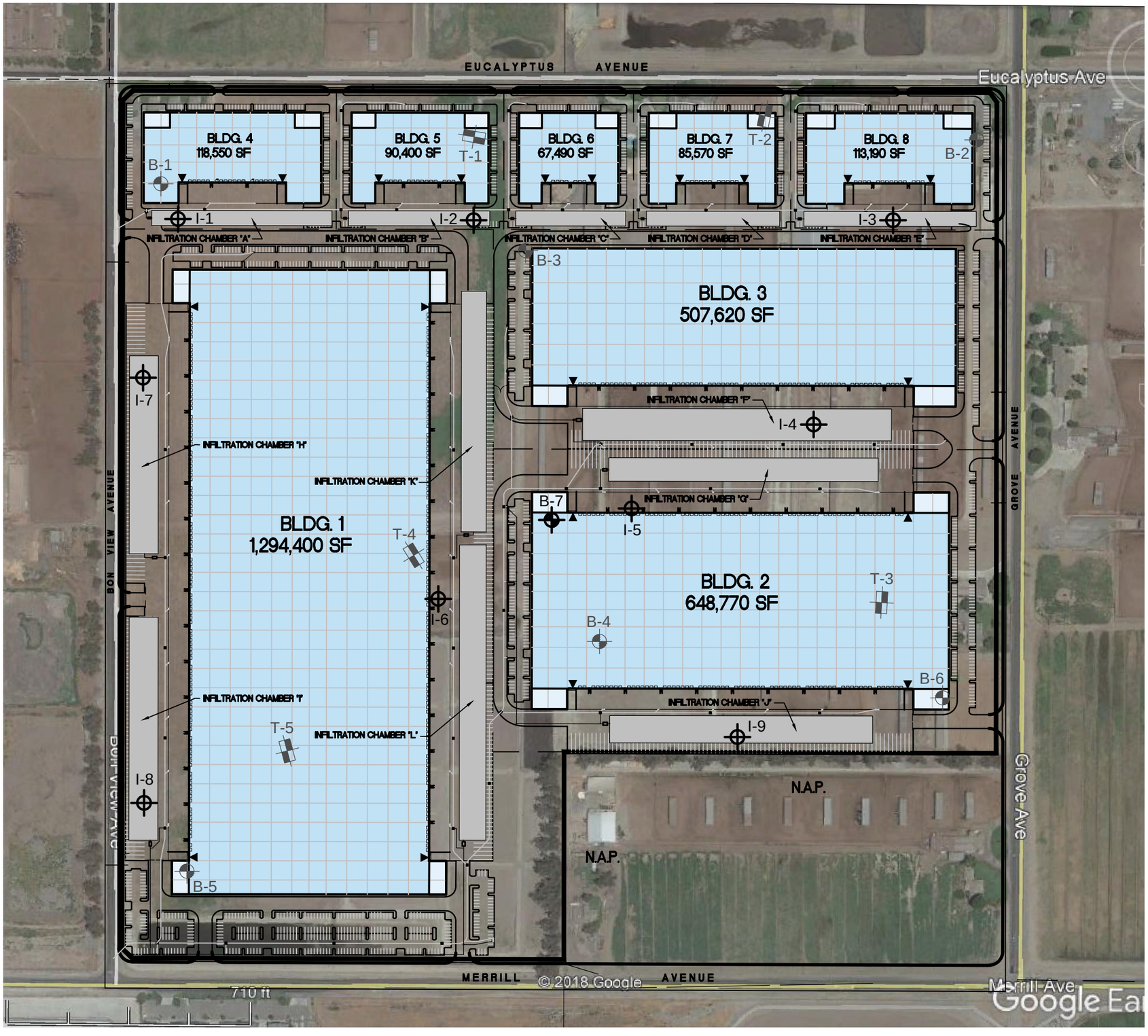
PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

ONTARIO, CALIFORNIA

SCALE: 1" = 2400'	
DRAWN: SAM CHKD: RGT	
SCG PROJECT 19G134-1	
PLATE 1	

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



GEOTECHNICAL LEGEND

- APPROXIMATE INFILTRATION TEST LOCATION
- APPROXIMATE EXPLORATORY BORING LOCATION
- PROPOSED BELOW-GRADE CHAMBER SYSTEM
- APPROXIMATE BORING LOCATION FROM PREVIOUS STUDY (SCG PROJECT NO. 18G133-1
- APPROXIMATE TRENCH LOCATION FROM PREVIOUS STUDY (SCG PROJECT NO. 18G133-1

NOTE: SITE PLAN PREPARED BY THIENES ENGINEERING, INC.
AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH.

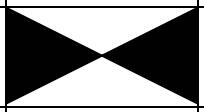
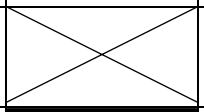
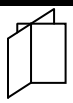
INFILTRATION TEST LOCATION PLAN

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

ONTARIO, CALIFORNIA

SCALE: 1" = 300'	SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: SAM CHKD: RGT	
SCG PROJECT 19G134-1	
PLATE 2	

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

BLOW COUNT: Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.: Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

MOISTURE CONTENT: Moisture content of a soil sample, expressed as a percentage of the dry weight.

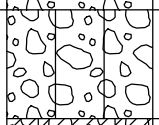
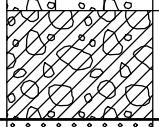
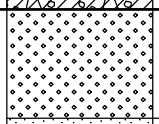
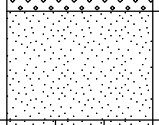
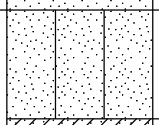
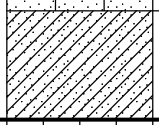
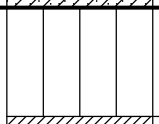
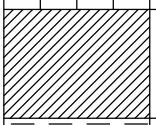
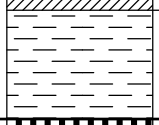
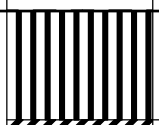
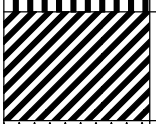
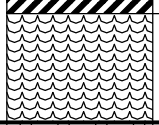
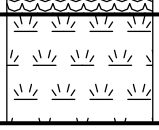
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE: The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR: The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-1

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/3/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 668 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		5			DISTURBED ALLUVIUM: Dark Gray Brown Silty fine Sand, trace fine root fibers, loose-moist		14					
		10			ALLUVIUM: Gray Brown fine Sand, little Silt, trace medium Sand, loose to medium dense-moist		14					
5		8			Light Gray Brown Silty fine Sand to fine Sandy Silt, trace to little Clay, trace to little Calcareous veining, trace Iron oxide staining, loose-very moist		23					
		7					28					
10												
		8	4.0		Gray Brown fine Sandy Clay, trace Silt, trace Calcareous veining, medium stiff to stiff-moist to very moist		21			78		
15					Boring Terminated at 15'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-2

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/4/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS					DESCRIPTION	LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	SURFACE ELEVATION: 668 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		12			DISTURBED ALLUVIUM: Gray Brown Silty fine Sand, trace fine root fibers, medium dense-moist		14					
		13			ALLUVIUM: Gray Brown Silty fine Sand, trace medium Sand, medium dense-moist		14					
5		9	3.0		Gray Silty Clay, trace to little fine Sand, trace Calcareous veining, trace Iron oxide staining, soft to stiff-very moist		23					
		4	1.0				28					
10					Gray Brown fine Sandy Clay, trace Calcareous nodules, stiff-moist to very moist							
		9	1.5				21			62		
15					Boring Terminated at 15.5'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-3

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/4/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 669 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		21			ALLUVIUM: Light Brown Silty fine Sand, little medium Sand, medium dense-damp		8					
		12	2.0		Brown fine Sandy Clay, trace to little Silt, trace Calcareous nodules, trace Iron oxide staining, stiff-moist		14					
5		10	2.5				16					
		16			Light Gray Clayey fine Sand, trace Silt, little Calcareous veining and nodules, medium dense-moist		16					
10												
		15			Light Gray Brown Silty fine to medium Sand, trace coarse Sand, trace Clay, medium dense-moist		10			26		
					Boring Terminated at 14'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-3

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-4

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/4/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 665.5 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		13			ALLUVIUM: Dark Gray Brown Silty fine Sand, trace medium Sand, medium dense-moist to very moist		13					
		22					13					
5		12	1.5		Gray fine Sandy Clay, little Calcareous veining, stiff-very moist		18					
		9			Gray Brown Clayey fine Sand, trace Calcareous veining and nodules, loose-very moist		16					
10												
					Light Brown Silty fine to medium Sand, medium dense-damp							
15		22					9			25		
					Boring Terminated at 16.5'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-4

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-5

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/4/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 664 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		10			ALLUVIUM: Dark Gray Brown Silty fine Sand, loose to medium dense-very moist		16					
		18			Gray Brown fine Sand, little Silt, medium dense-moist		11					
5		10	3.0		Gray Brown fine Sandy Clay, trace Calcareous veining and nodules, medium stiff to stiff-very moist		18					
		8	2.5				19					
10												
		15			Light Gray Brown Silty fine Sand to fine Sandy Silt, trace Clay, medium dense-very moist		21					
15												
		25			Light Gray Brown Silty fine Sand, little Iron oxide staining, medium dense-moist		12			37		
					Boring Terminated at 18.5'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-6

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/3/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 660.5 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		4			DISTURBED ALLUVIUM: Dark Gray Brown Silty fine Sand, very loose to loose-moist to very moist		14					
		9			ALLUVIUM: Gray Brown fine Sand, little medium Sand, little Silt, trace coarse Sand, loose-moist		12					
5		6			Gray Brown Clayey fine Sand, trace Calcareous nodules, loose-very moist		20					
		5			Gray Brown fine Sandy Clay, trace medium Sand, trace Silt, medium stiff-very moist		23					
10												
		7	2.0				20			60		
15					Boring Terminated at 15.5'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-7

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/3/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 665 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					DISTURBED ALLUVIUM: Dark Gray Brown Silty fine Sand, trace fine root fibers, loose-very moist							
		5					15					
		7			ALLUVIUM: Gray Brown fine Sand, little Silt, trace medium Sand, trace Clay, loose-moist to very moist		13					
5		9					10					
		6					15					
10												
					Gray fine Sandy Clay, trace Calcareous nodules, trace Iron oxide staining, stiff-very moist							
		10	3.5				23					
15												
					Light Gray Brown Clayey fine Sand, trace medium Sand, trace Calcareous nodules, medium dense-moist to very moist							
		12					14			35		
20					Boring Terminated at 20'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-8

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/3/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 657 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		6			DISTURBED ALLUVIUM: Dark Gray Brown Silty fine Sand, trace medium Sand, trace fine root fibers, loose-very moist		16					
		10			ALLUVIUM: Gray Brown fine Sand, little Silt, trace to little medium Sand, loose to medium dense-moist		12					
5		11					11					
					Gray Brown fine Sandy Clay, little Silt, trace Calcareous veining, stiff-very moist							
10		9	2.0				26			77		
					Boring Terminated at 12'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-8

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-9

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/4/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 675.5 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		7			ALLUVIUM: Brown Silty fine Sand, loose-moist		10					
		6			Gray Brown Silty fine Sand, trace medium Sand, loose-damp		7					
5		36			Light Gray Brown Silty fine Sand to fine Sandy Silt, trace medium Sand, trace Calcareous nodules, dense-damp		9					
10		15	1.5		Light Gray Brown fine Sandy Clay, trace Silt, little Calcareous veining, stiff to very stiff-moist		12			73		
					Boring Terminated at 12'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-9

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-7

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/3/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 55 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: 662 feet MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					ALLUVIUM: Gray Brown fine Sand, little Silt, trace medium Sand, loose-damp							
		9					7					
5												
					Gray fine Sandy Clay, trace Calcareous veining, medium stiff-very moist							
		6	2.0				18					
10												
					Gray Brown Clayey fine Sand, little medium Sand, loose-moist to very moist							
		9					14					
15												
					Brown fine Sandy Clay, trace medium Sand, trace Iron oxide staining, stiff-very moist							
		10	4.0				17					
20												
					Brown Silty fine Sand, trace medium Sand, medium dense-damp							
		23					9					
25												
					Gray Brown Clayey fine Sand, medium dense-very moist							
		17					18					
30												
					Gray Brown Silty fine Sand, medium dense-moist							
		18					11					

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-10a

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-7

JOB NO.: 19G134
PROJECT: Proposed C/I Development
LOCATION: Ontario, California

DRILLING DATE: 4/3/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Anthony Luna

WATER DEPTH: Dry
CAVE DEPTH: 55 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
40		28			Light Gray Brown fine to medium Sand, medium dense-damp		4					
45		47			Brown Silty fine Sand, trace to little medium Sand, trace Clay, medium dense to dense-moist to very moist		9					
50		20					15					
55		29			Gray Brown Clayey fine Sand, trace Silt, medium dense-moist to very moist		14					
60		21			Gray Brown fine Sandy Silt, little Clay, trace Iron oxide staining, medium dense-very moist		24					
					Boring Terminated at 60'							

TBL 19G134.GPJ SOCALGEO.GDT 5/3/19

TEST BORING LOG

PLATE B-10b

INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4	(in)
Test Depth	14.9	(ft)

Infiltration Test Hole	I-1

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	8:00 AM	30.0	13.04	0.07	1.83	0.14
	Final	8:30 AM		13.11			
2	Initial	8:30 AM	30.0	13.11	0.05	1.77	0.10
	Final	9:00 AM		13.16			
3	Initial	9:00 AM	30.0	13.16	0.04	1.72	0.08
	Final	9:30 AM		13.20			
4	Initial	9:30 AM	30.0	13.20	0.05	1.68	0.11
	Final	10:00 AM		13.25			
5	Initial	10:00 AM	30.0	13.19	0.05	1.69	0.11
	Final	10:30 AM		13.24			
6	Initial	10:30 AM	30.0	13.18	0.04	1.70	0.09
	Final	11:00 AM		13.22			
7	Initial	11:00 AM	30.0	13.20	0.04	1.68	0.09
	Final	11:30 AM		13.24			
8	Initial	11:30 AM	30.0	13.19	0.04	1.69	0.09
	Final	12:00 PM		13.23			
9	Initial	12:00 PM	30.0	13.17	0.03	1.72	0.06
	Final	12:30 PM		13.20			
10	Initial	12:30 PM	30.0	13.20	0.04	1.68	0.09
	Final	1:00 PM		13.24			
11	Initial	1:00 PM	30.0	13.19	0.04	1.69	0.09
	Final	1:30 PM		13.23			
12	Initial	1:30 PM	30.0	13.20	0.04	1.68	0.09
	Final	2:00 PM		13.24			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4	(in)
Test Depth	15.3	(ft)

Infiltration Test Hole	I-2

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	10:00 AM	30.0	13.13	0.05	2.15	0.09
	Final	10:30 AM		13.18			
2	Initial	10:30 AM	30.0	13.18	0.03	2.11	0.05
	Final	11:00 AM		13.21			
3	Initial	11:00 AM	30.0	13.21	0.03	2.08	0.05
	Final	11:30 AM		13.24			
4	Initial	11:30 AM	30.0	13.24	0.04	2.04	0.07
	Final	12:00 PM		13.28			
5	Initial	12:00 PM	30.0	13.28	0.03	2.01	0.06
	Final	12:30 PM		13.31			
6	Initial	12:30 PM	30.0	13.31	0.03	1.98	0.06
	Final	1:00 PM		13.34			
7	Initial	1:00 PM	30.0	13.34	0.03	1.95	0.06
	Final	1:30 PM		13.37			
8	Initial	1:30 PM	30.0	13.37	0.03	1.92	0.06
	Final	2:00 PM		13.40			
9	Initial	2:00 PM	30.0	13.40	0.03	1.89	0.06
	Final	2:30 PM		13.43			
10	Initial	2:30 PM	30.0	13.43	0.03	1.86	0.06
	Final	3:00 PM		13.46			
11	Initial	3:00 PM	30.0	13.46	0.03	1.83	0.06
	Final	3:30 PM		13.49			
12	Initial	3:30 PM	30.0	13.49	0.03	1.80	0.06
	Final	4:00 PM		13.52			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4	(in)
Test Depth	13.9	(ft)

Infiltration Test Hole	I-3

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)	
P1	Initial	8:00 AM	25.0	12.08	0.39	1.63	1.04	Pre-Sat
	Final	8:25 AM		12.47				
P2	Initial	8:26 AM	25.0	12.14	1.23	1.15	4.50	
	Final	8:51 AM		13.37				
1	Initial	8:52 AM	10.0	12.13	0.62	1.46	4.57	Infiltration Testing
	Final	9:02 AM		12.75				
2	Initial	9:03 AM	10.0	12.18	0.58	1.43	4.36	
	Final	9:13 AM		12.76				
3	Initial	9:13 AM	10.0	12.19	0.57	1.43	4.30	
	Final	9:23 AM		12.76				
4	Initial	9:23 AM	10.0	12.15	0.54	1.48	3.94	
	Final	9:33 AM		12.69				
5	Initial	9:33 AM	10.0	12.19	0.53	1.45	3.95	
	Final	9:43 AM		12.72				
6	Initial	9:44 AM	10.0	12.20	0.53	1.44	3.97	
	Final	9:54 AM		12.73				

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4	(in)
Test Depth	16.3	(ft)

Infiltration Test Hole	I-4

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)	
P1	Initial	10:00 AM	25.0	14.52	1.27	1.15	4.65	Pre-Sat
	Final	10:25 AM		15.79				
P2	Initial	10:26 AM	25.0	14.55	1.17	1.17	4.22	
	Final	10:51 AM		15.72				
1	Initial	10:52 AM	10.0	14.53	0.65	1.45	4.84	Infiltration Testing
	Final	11:02 AM		15.18				
2	Initial	11:03 AM	10.0	14.57	0.63	1.42	4.78	
	Final	11:13 AM		15.20				
3	Initial	11:13 AM	10.0	14.60	0.60	1.40	4.60	
	Final	11:23 AM		15.20				
4	Initial	11:23 AM	10.0	14.60	0.61	1.40	4.69	
	Final	11:33 AM		15.21				
5	Initial	11:33 AM	10.0	14.55	0.58	1.46	4.28	
	Final	11:43 AM		15.13				
6	Initial	11:44 AM	10.0	14.59	0.56	1.43	4.21	
	Final	11:54 AM		15.15				

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4	(in)
Test Depth	17.5	(ft)

Infiltration Test Hole	I-5

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)	
P1	Initial	9:00 AM	25.0	15.56	1.47	1.21	5.14	Pre-Sat
	Final	9:25 AM		17.03				
P2	Initial	9:26 AM	25.0	15.55	1.16	1.37	3.62	
	Final	9:51 AM		16.71				
1	Initial	9:52 AM	10.0	15.55	0.65	1.63	4.35	Infiltration Testing
	Final	10:02 AM		16.20				
2	Initial	10:03 AM	10.0	15.55	0.63	1.64	4.20	
	Final	10:13 AM		16.18				
3	Initial	10:13 AM	10.0	15.55	0.61	1.65	4.04	
	Final	10:23 AM		16.16				
4	Initial	10:23 AM	10.0	15.56	0.60	1.64	3.99	
	Final	10:33 AM		16.16				
5	Initial	10:33 AM	10.0	15.57	0.58	1.64	3.85	
	Final	10:43 AM		16.15				
6	Initial	10:44 AM	10.0	15.60	0.56	1.62	3.76	
	Final	10:54 AM		16.16				

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where:
- Q = Infiltration Rate (in inches per hour)
- ΔH = Change in Height (Water Level) over the time interval
- r = Test Hole (Borehole) Radius
- Δt = Time Interval
- H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4	(in)
Test Depth	15.4	(ft)

Infiltration Test Hole	I-6

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	9:15 AM	30.0	13.57	0.10	1.78	0.21
	Final	9:45 AM		13.67			
2	Initial	9:45 AM	30.0	13.67	0.09	1.69	0.19
	Final	10:15 AM		13.76			
3	Initial	10:15 AM	30.0	13.69	0.09	1.67	0.20
	Final	10:45 AM		13.78			
4	Initial	10:45 AM	30.0	13.70	0.08	1.66	0.18
	Final	11:15 AM		13.78			
5	Initial	11:15 AM	30.0	13.67	0.09	1.69	0.19
	Final	11:45 AM		13.76			
6	Initial	11:45 AM	30.0	13.66	0.08	1.70	0.17
	Final	12:15 PM		13.74			
7	Initial	12:15 PM	30.0	13.65	0.08	1.71	0.17
	Final	12:45 PM		13.73			
8	Initial	12:45 PM	30.0	13.70	0.08	1.66	0.18
	Final	1:15 PM		13.78			
9	Initial	1:15 PM	30.0	13.66	0.08	1.70	0.17
	Final	1:45 PM		13.74			
10	Initial	1:45 PM	30.0	13.69	0.08	1.67	0.17
	Final	2:15 PM		13.77			
11	Initial	2:15 PM	30.0	13.69	0.08	1.67	0.17
	Final	2:45 PM		13.77			
12	Initial	2:45 PM	30.0	13.70	0.08	1.66	0.18
	Final	3:15 PM		13.78			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4	(in)
Test Depth	19.8	(ft)

Infiltration Test Hole	I-7

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	8:10 AM	30.0	18.00	0.17	1.72	0.36
	Final	8:40 AM		18.17			
2	Initial	8:40 AM	30.0	18.05	0.15	1.68	0.33
	Final	9:10 AM		18.20			
3	Initial	9:10 AM	30.0	18.07	0.12	1.67	0.26
	Final	9:40 AM		18.19			
4	Initial	9:40 AM	30.0	18.03	0.11	1.72	0.23
	Final	10:10 AM		18.14			
5	Initial	10:10 AM	30.0	18.00	0.10	1.75	0.21
	Final	10:40 AM		18.10			
6	Initial	10:40 AM	30.0	18.01	0.10	1.74	0.21
	Final	11:10 AM		18.11			
7	Initial	11:10 AM	30.0	18.11	0.10	1.64	0.22
	Final	11:40 AM		18.21			
8	Initial	11:40 AM	30.0	18.09	0.09	1.67	0.20
	Final	12:10 PM		18.18			
9	Initial	12:10 PM	30.0	18.10	0.09	1.66	0.20
	Final	12:40 PM		18.19			
10	Initial	12:40 PM	30.0	18.07	0.10	1.68	0.22
	Final	1:10 PM		18.17			
11	Initial	1:10 PM	30.0	18.08	0.09	1.68	0.20
	Final	1:40 PM		18.17			
12	Initial	1:40 PM	30.0	18.10	0.09	1.66	0.20
	Final	2:10 PM		18.19			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4	(in)
Test Depth	11.8	(ft)

Infiltration Test Hole	I-8

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	8:20 AM	30.0	9.96	0.17	1.76	0.35
	Final	8:50 AM		10.13			
2	Initial	8:50 AM	30.0	10.03	0.15	1.70	0.32
	Final	9:20 AM		10.18			
3	Initial	9:20 AM	30.0	10.07	0.14	1.66	0.31
	Final	9:50 AM		10.21			
4	Initial	9:50 AM	30.0	10.06	0.15	1.67	0.33
	Final	10:20 AM		10.21			
5	Initial	10:20 AM	30.0	10.09	0.14	1.64	0.31
	Final	10:50 AM		10.23			
6	Initial	10:50 AM	30.0	10.10	0.14	1.63	0.31
	Final	11:20 AM		10.24			
7	Initial	11:20 AM	30.0	10.10	0.14	1.63	0.31
	Final	11:50 AM		10.24			
8	Initial	11:50 AM	30.0	10.05	0.13	1.69	0.28
	Final	12:20 PM		10.18			
9	Initial	12:20 PM	30.0	10.06	0.13	1.68	0.28
	Final	12:50 PM		10.19			
10	Initial	12:50 PM	30.0	10.09	0.13	1.65	0.29
	Final	1:20 PM		10.22			
11	Initial	1:20 PM	30.0	10.09	0.14	1.64	0.31
	Final	1:50 PM		10.23			
12	Initial	1:50 PM	30.0	10.10	0.13	1.64	0.29
	Final	2:20 PM		10.23			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Commercial/Industrial Development
Project Location	Ontario, CA
Project Number	19G134-1
Engineer	Scott McCann

Test Hole Radius	4	(in)
Test Depth	12.4	(ft)

Infiltration Test Hole	I-9

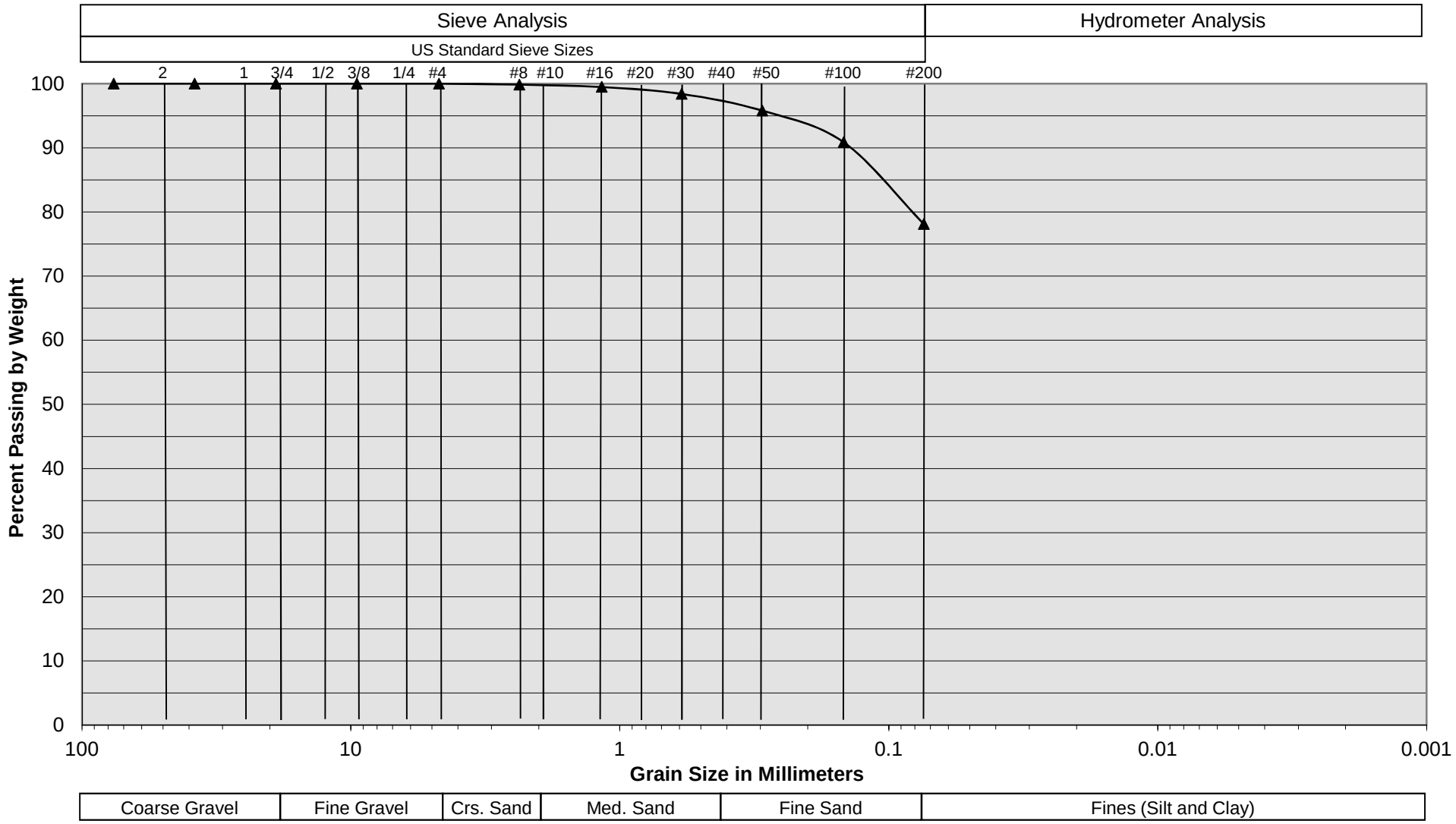
Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	8:05 AM	30.0	10.10	0.15	2.23	0.25
	Final	8:35 AM		10.25			
2	Initial	8:35 AM	30.0	10.10	0.14	2.23	0.23
	Final	9:05 AM		10.24			
3	Initial	9:05 AM	30.0	10.10	0.12	2.24	0.20
	Final	9:35 AM		10.22			
4	Initial	9:35 AM	30.0	10.08	0.13	2.26	0.21
	Final	10:05 AM		10.21			
5	Initial	10:05 AM	30.0	10.05	0.11	2.30	0.18
	Final	10:35 AM		10.16			
6	Initial	10:35 AM	30.0	10.07	0.11	2.28	0.18
	Final	11:05 AM		10.18			
7	Initial	11:05 AM	30.0	10.09	0.10	2.26	0.16
	Final	11:35 AM		10.19			
8	Initial	11:35 AM	30.0	10.10	0.10	2.25	0.17
	Final	12:05 PM		10.20			
9	Initial	12:05 PM	30.0	10.10	0.11	2.25	0.18
	Final	12:35 PM		10.21			
10	Initial	12:35 PM	30.0	10.10	0.10	2.25	0.17
	Final	1:05 PM		10.20			
11	Initial	1:05 PM	30.0	10.08	0.10	2.27	0.16
	Final	1:35 PM		10.18			
12	Initial	1:35 PM	30.0	10.09	0.10	2.26	0.16
	Final	2:05 PM		10.19			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where: Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

Grain Size Distribution

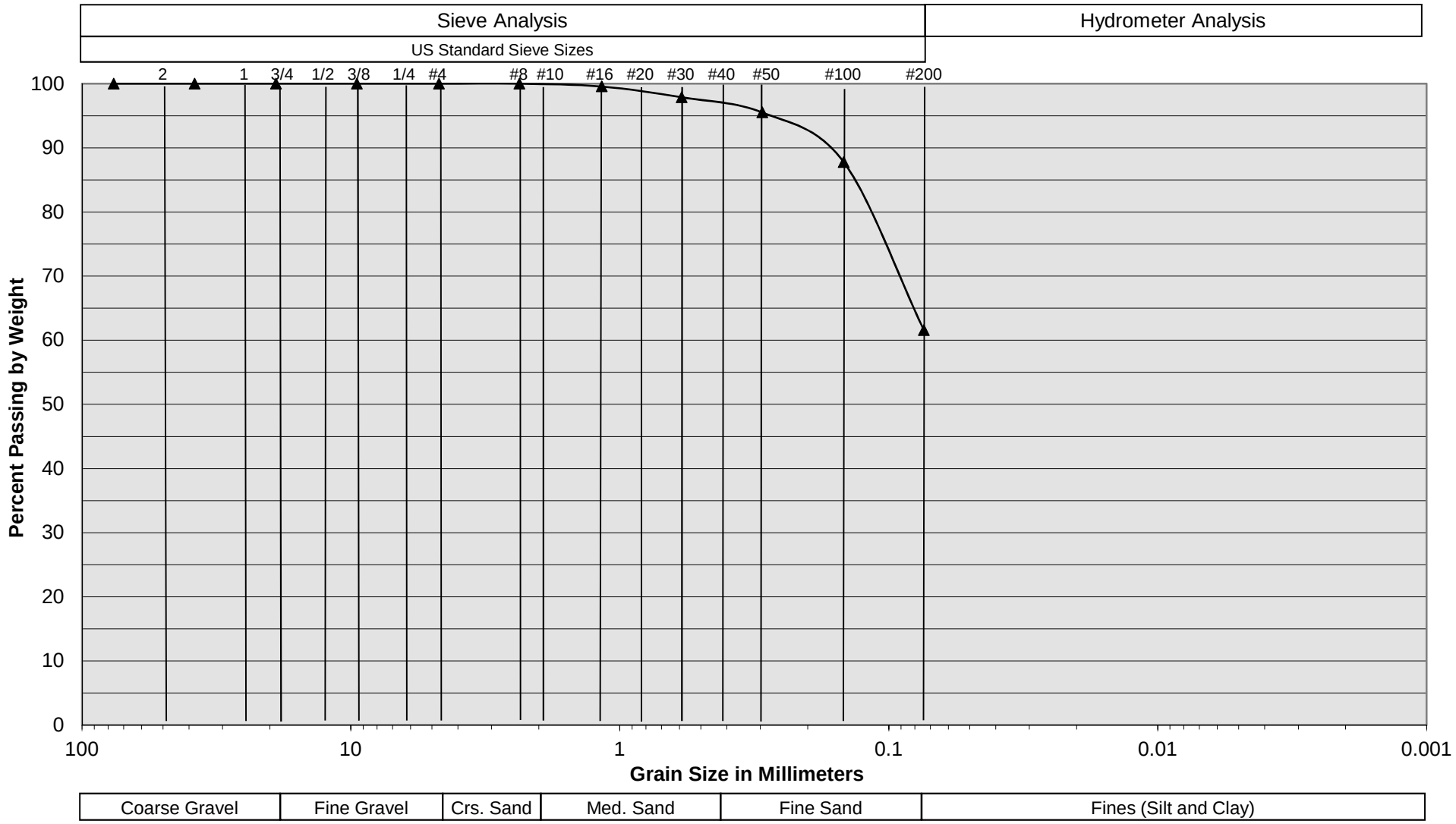


Sample Description	I-1 @ 13½ to 15 feet
Soil Classification	Gray Brown fine Sandy Clay, trace Silt

Proposed Commercial/Industrial Development
Ontario, CA
Project No. 19G134-1
PLATE C-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Grain Size Distribution

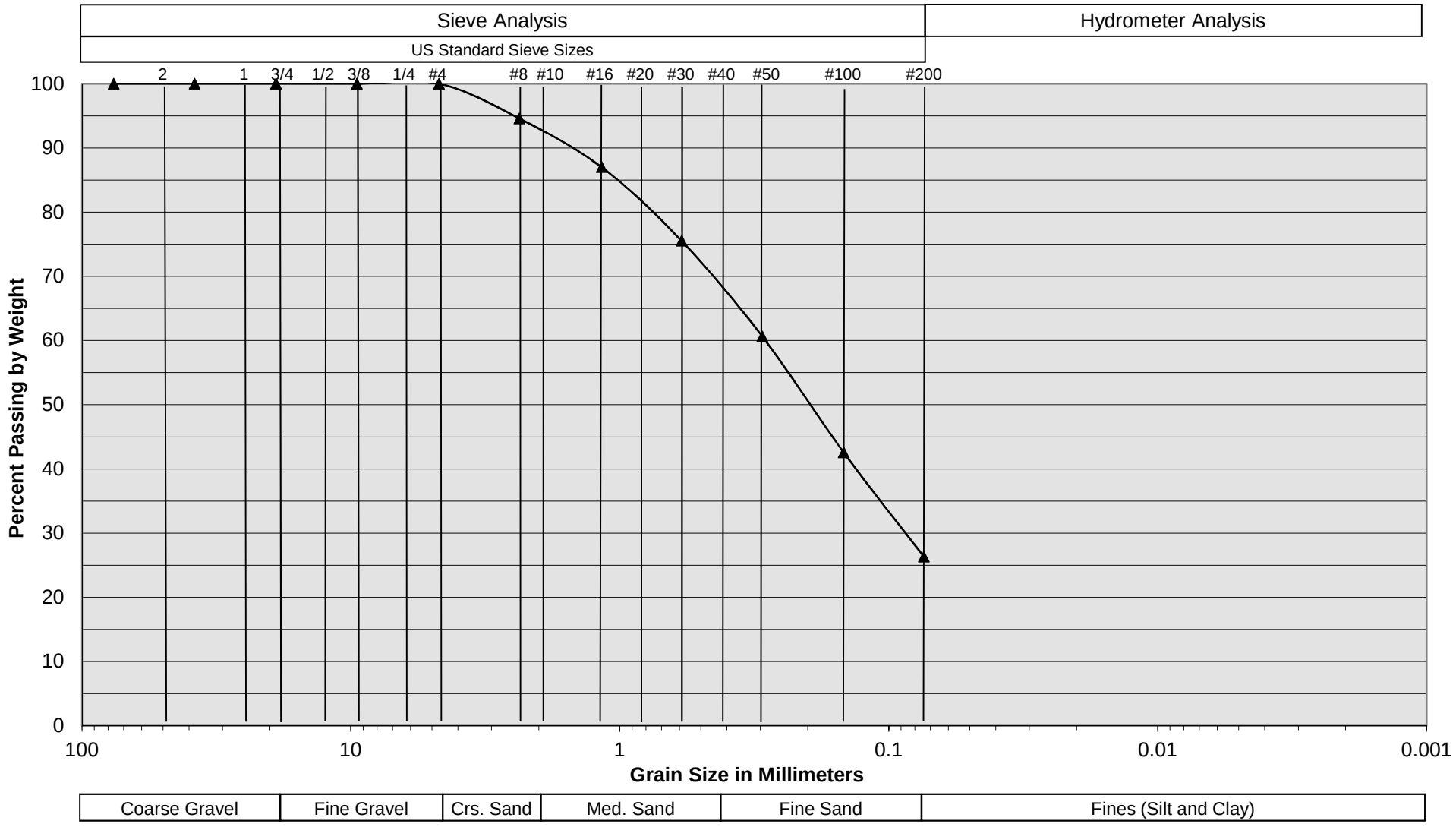


Sample Description	I-2 @ 14 to 15½ feet
Soil Classification	Gray Brown fine Sandy Clay

Proposed Commercial/Industrial Development
Ontario, CA
Project No. 19G134-1
PLATE C-2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Grain Size Distribution

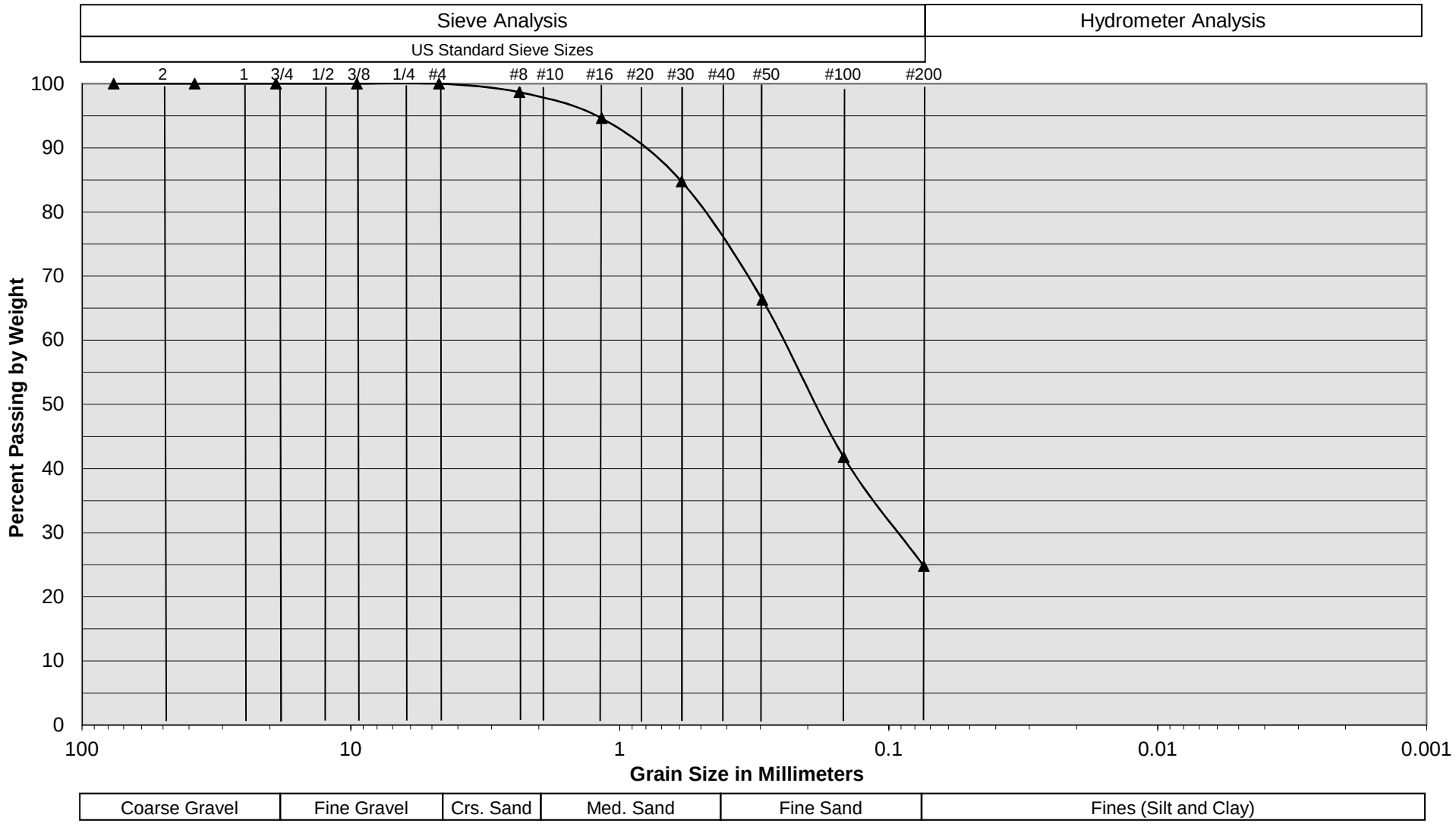


Sample Description	I-3 @ 12½ to 14 feet
Soil Classification	Light Gray Brown Silty fine to medium Sand, trace coarse Sand, trace Clay

Proposed Commercial/Industrial Development
Ontario, CA
Project No. 19G134-1
PLATE C-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Grain Size Distribution

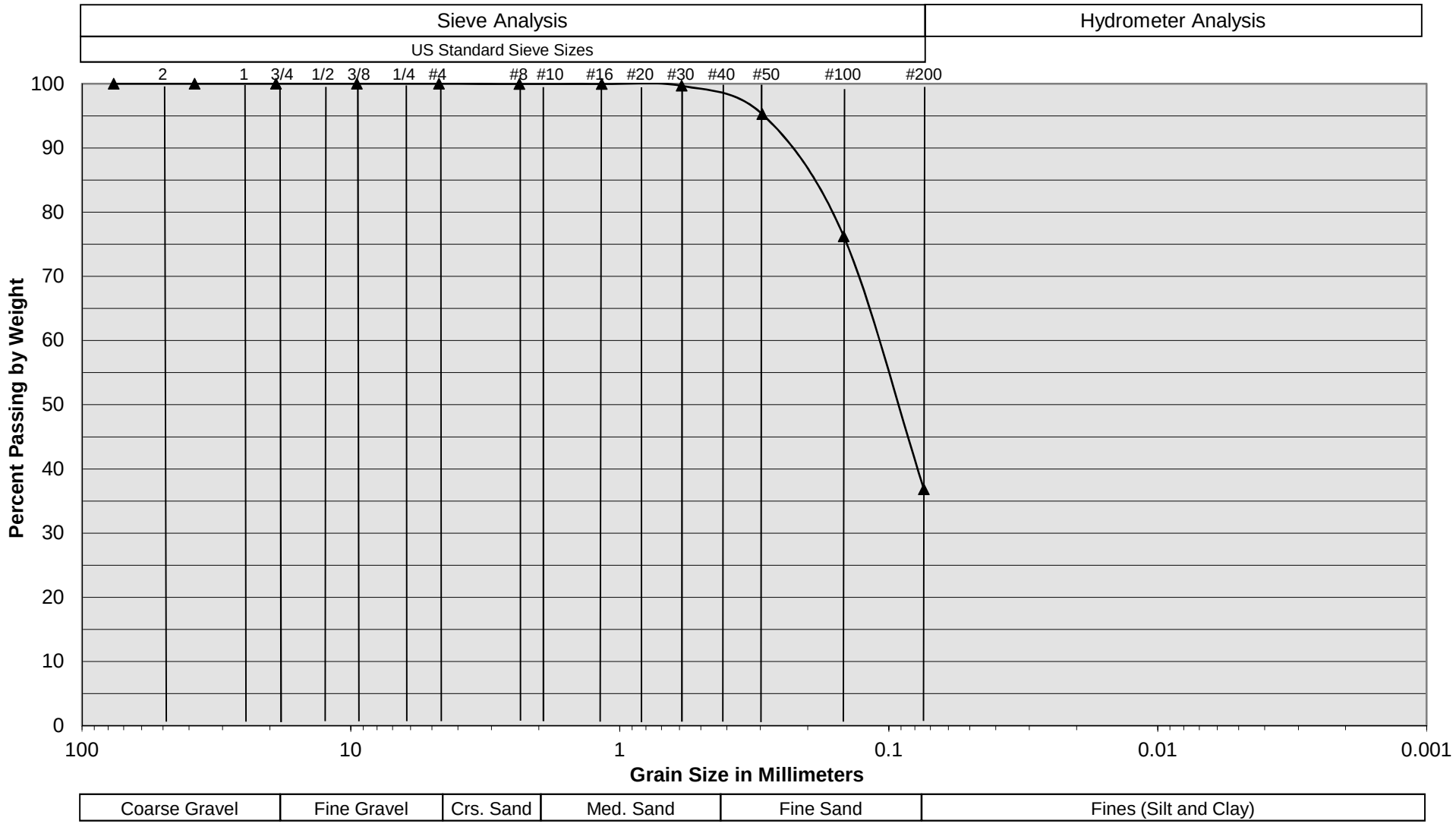


Sample Description	I-4 @ 15 to 16½ feet
Soil Classification	Light Brown Silty fine to medium Sand

Proposed Commercial/Industrial Development
Ontario, CA
Project No. 19G134-1
PLATE C-4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Grain Size Distribution



Sample Description	I-5 @ 17 to 18½ feet
Soil Classification	Light Gray Brown Silty fine Sand

Proposed Commercial/Industrial Development
Ontario, CA
Project No. 19G134-1
PLATE C-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

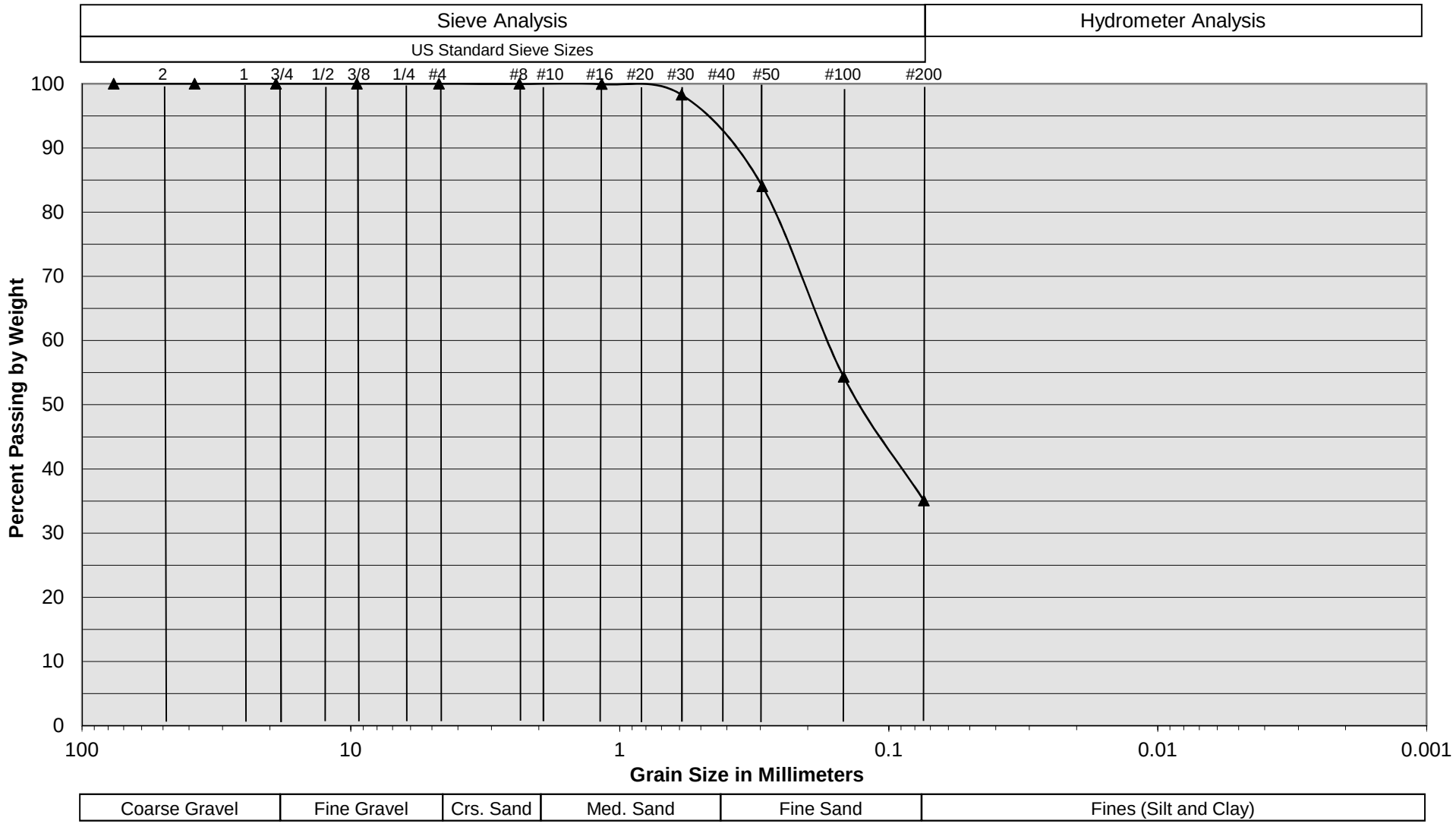
Grain Size Distribution

Sample Description	I-6 @ 14 to 15½ feet
Soil Classification	Gray Brown fine Sandy Clay, trace medium Sand, trace Silt

Proposed Commercial/Industrial Development
Ontario, CA
Project No. 19G134-1
PLATE C-6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Grain Size Distribution



Sample Description	I-7 @ 18½ to 20 feet
Soil Classification	Light Gray Brown Clayey fine Sand, trace medium Sand

Proposed Commercial/Industrial Development
Ontario, CA
Project No. 19G134-1
PLATE C-7

SoCalGeo
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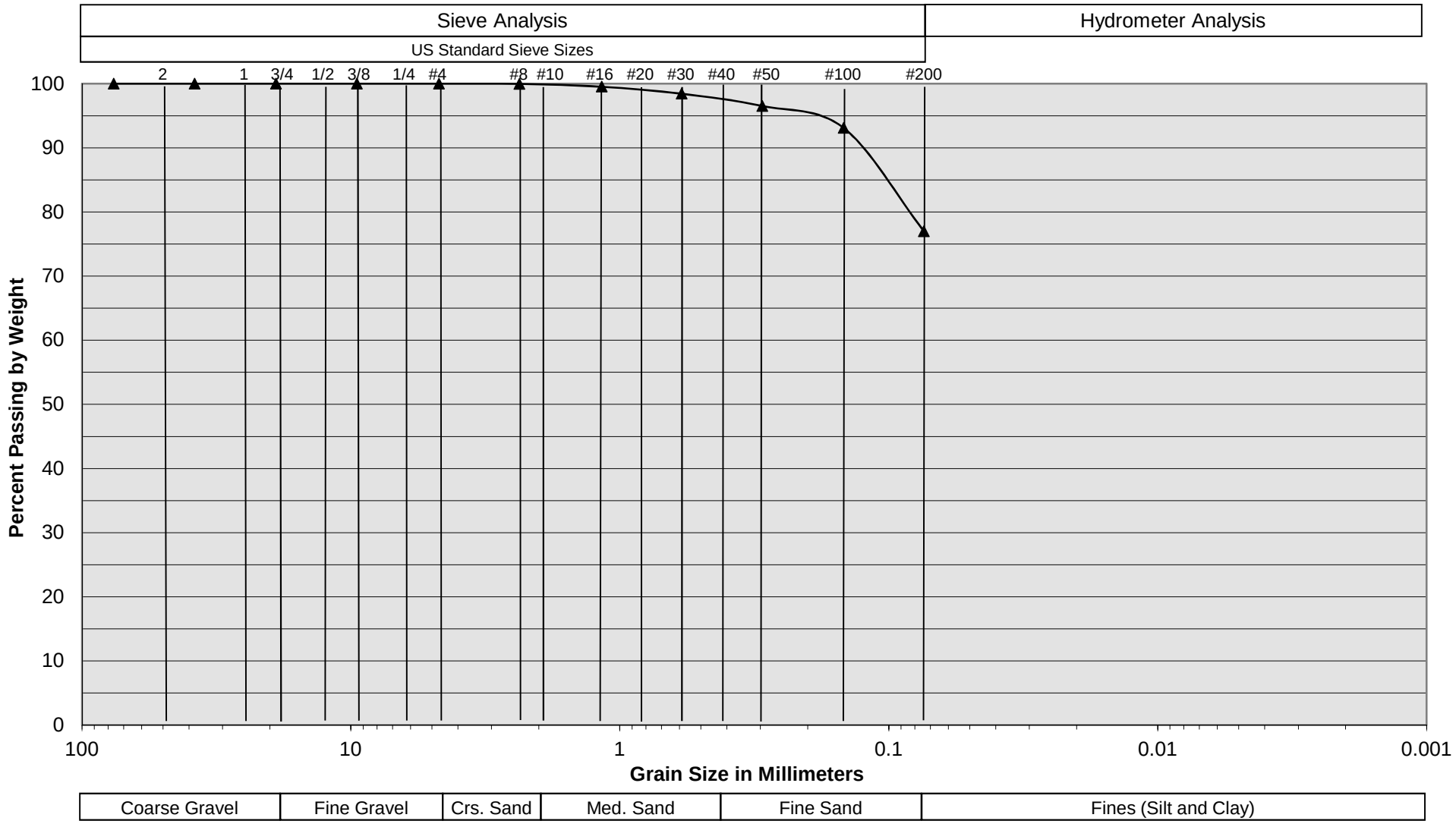
A California Corporation

Grain Size Distribution



Sample Description	I-8 @ 10½ to 12 feet
Soil Classification	Gray Brown fine Sandy Clay, little Silt

Proposed Commercial/Industrial Development
Ontario, CA
Project No. 19G134-1
PLATE C-8

SoCalGeo
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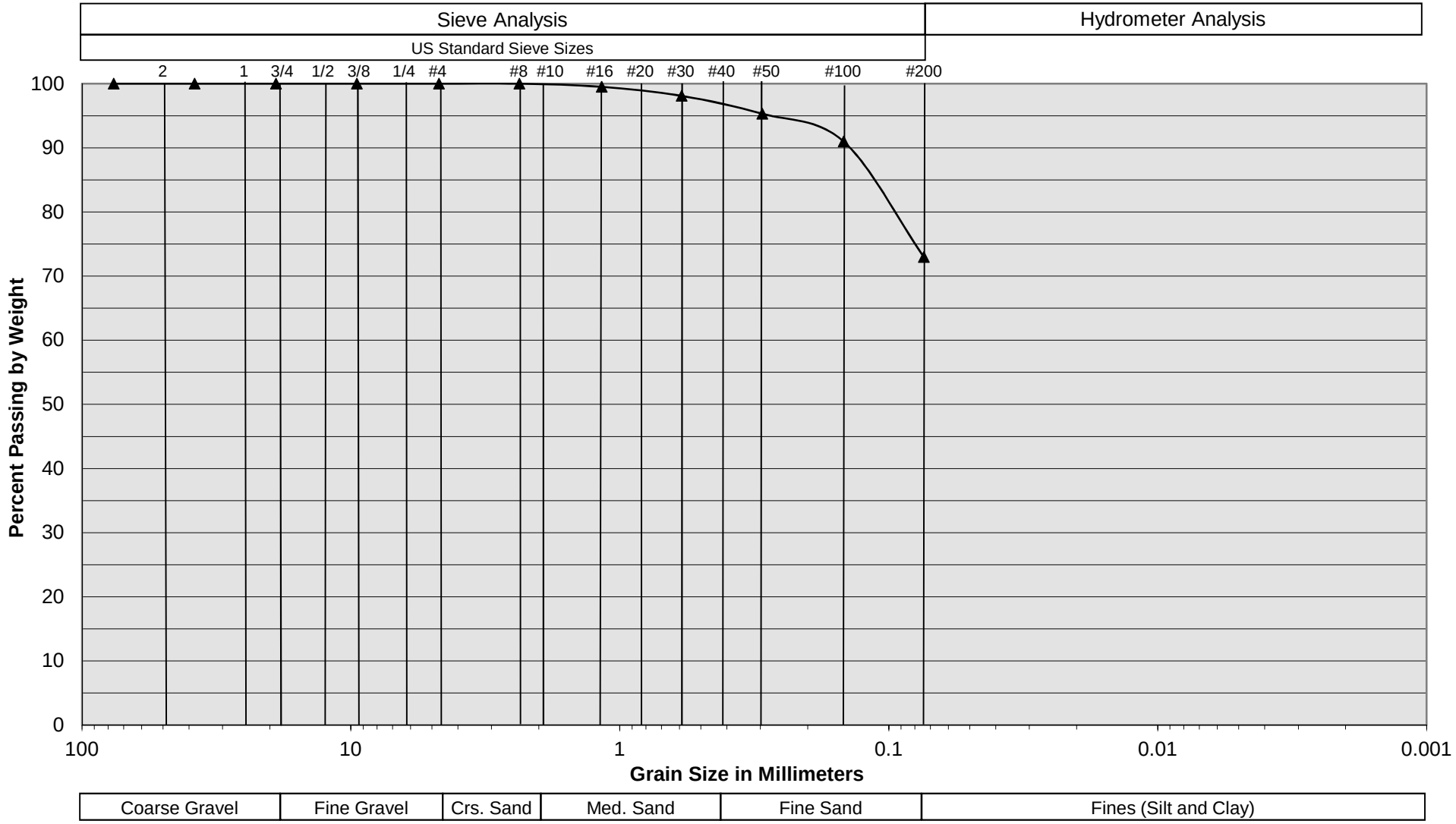
Grain Size Distribution



Sample Description	I-9 @ 10½ to 12 feet
Soil Classification	Light Gray Brown fine Sandy Clay, trace Silt

Proposed Commercial/Industrial Development
Ontario, CA
Project No. 19G134-1
PLATE C-9

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

APPENDIX F
HAZARDOUS MATERIALS REPORT

APPENDIX F1

PHASE I ENVIRONMENTAL SITE ASSESSMENT

PHASE I ENVIRONMENTAL SITE ASSESSMENT

South Ontario Logistics Center
Ontario, California

Prepared for

REDA ACQUISITIONS
4100 MacArthur Boulevard, Suite 120
Newport Beach, California 92660

Prepared by

GROUP DELTA CONSULTANTS, INC.
1035 South Milliken Avenue, Suite G
Ontario, California 91761
Group Delta Project No. EN381

October 11, 2018

GROUP DELTA

REDA Acquisitions
4100 MacArthur Blvd, Suite 120
Newport Beach, California 92660

October 11, 2018
Project No. EN381

Attention: Mr. Jason Krotts

SUBJECT: Phase I Environmental Site Assessment
South Ontario Logistics Center
Ontario, California

Dear Mr. Krotts:

Group Delta Consultants, Inc. is pleased to submit to REDA Acquisitions this Phase I Environmental Site Assessment report for the proposed development located in Ontario, California. This report discusses our project purpose, scope of work, execution of work, conclusions, and recommendations for the site. This Environmental Site Assessment was performed in general accordance with our proposal submitted on September 26, 2018.

We appreciate your selection of Group Delta Consultants for this project and look forward to assisting you further on this and other projects. If you have any questions, please do not hesitate to contact us.

Should you have any questions regarding this report, please feel free to call us at (949) 450-2100.

Sincerely,
GROUP DELTA CONSULTANTS, INC.

Glenn Burks, Ph.D., P.E.
Principal, Director of Environmental Services
Environmental Professional

Elaine
Staff Engineer

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Figure 1 Site Location Map

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EXECUTIVE SUMMARY

REDA Acquisitions (herein referred to as Client) has engaged Group Delta Consultants, Inc. (Group Delta) to perform a Phase I Environmental Site Assessment (ESA) for a 130.34-acre property located north of Merrill Avenue, west of Grove Avenue, east of Bon View Avenue, and south of Eucalyptus Avenue (Site) in Ontario, California. The Site is also identified by the San Bernardino County Assessor's Parcel Numbers (APN's) 1054-071-01, -02; 1054-081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-241-01, -02; 1054-311-01, -02; 1054-231-01, -02. The Site is currently under consideration for redevelopment.

This Phase I ESA was performed in accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13. This version of the ASTM standard complies with the Federal All Appropriate Inquiry (AAI) rule (40 Code of Federal Regulations [CFR] Part 312 – Standards and Practices for All Appropriate Inquiries). The purpose of the Phase I ESA is to review, evaluate, and document present and past land use and practices, and visually examine Site conditions in order to identify Recognized Environmental Conditions (RECs). The Phase I ESA included a Site reconnaissance, observation of adjacent properties, environmental regulatory agency records review, review of available historic documents, and an interview.

A Site reconnaissance was performed on October 4, 2018 as part of the ESA to observe current conditions throughout the Site. No observations of environmental concern were observed during the Site reconnaissance. No RECs were identified as a result of the Site reconnaissance. The Owner interview conducted during this Phase I ESA did not identify any RECs for the Site.

This assessment also included a review of available federal and state data reported by Environmental Data Resources (EDR), available regulatory agency environmental records, and available site history and records. The review did not identify any RECs for the Site. The review also included properties in the vicinity of the Site. Records indicated listed locations within ½ mile of the Site as listed in the EDR report. However, based on type of regulatory listing, regulatory status of the case, and/or location with respect to regional groundwater flow, the likelihood of Site contamination from an off-site source is considered low.

The information procured during this investigation was used to identify, to the extent practical and within the limitations of the Scope, RECs associated with the Site due to current or past land use.

This assessment has revealed no evidence of RECs in association with the Site, but one environmental concern:

- The former agricultural land use of the Site, beginning prior to 1938 and continuing to approximately 2005 is considered an environmental concern. This land use presents potential for residual organochlorine pesticides and arsenic commonly used on

agricultural land during the dates the Site was used for agriculture. These pesticides may persist in shallow soil on the Site.

The following are noteworthy considerations for the Site:

- Various hazardous materials are stored and used on the Site. In addition, per the interview with Ms. Gourdikian, used tractor oil is stored in a small tank next to the northwestern storage building adjacent to the chicken coop.
- Dairy farming on the Site presents the potential for elevated methane in soil-gas on the Site.
- Numerous structures onsite may contain hazardous building materials including asbestos and lead-based paint.
- There are a 2,000-gallon and 240-gallon AST on the Site. The 240-gallon AST was on concrete but did not have secondary containment.
- One or more septic systems are present on the Site.
- There are at least three water production wells on the Site.
- Three 1,000-gallon USTs were removed in March 1998. One UST contained diesel and two contained gasoline. The documentation provided by SBFD was sparse; however, residual concentrations detected in soil were considered low and the UST removal received case closure.

Based upon the findings and conclusions, Group Delta is providing the following opinions:

- A limited soil screening is recommended to assess for the presence of residual organochlorine pesticides and arsenic in the Site's soil.
- Hazardous materials and waste should be removed from the Site by the current owners prior to redevelopment in accordance with the Hazardous Materials Business Plan and under oversight from the Certified Unified Program Agencies (CUPA) (i.e., San Bernardino Fire Department (SBFD).
- The City of Ontario may require a soil-gas survey for methane prior to development.
- A hazardous materials survey should be conducted on the Site's structures prior to demolition.
- The ASTs on the Site should be removed and receive closure from appropriate regulatory agencies.
- The SBFD issued case closure for three USTs removed from the Site in the late 1998. As a conservative measure, a limited Phase II site investigation could be considered for the area of the former USTs. At a minimum, earthwork in the vicinity of the former USTs should be monitored for indications of residual contamination.

1.0 INTRODUCTION

1.1 Background and Project Description

REDA Acquisitions (herein referred to as Client) has engaged Group Delta Consultants, Inc. (Group Delta) to perform a Phase I Environmental Site Assessment (ESA) for a 130.34-acre property located north of Merrill Avenue, west of Grove Avenue, east of Bon View Avenue, and south of Eucalyptus Avenue (Site) in Ontario, California. The Site is currently under consideration for commercial redevelopment.

1.2 Purpose

The purpose of the Phase I ESA is to review, evaluate, and document present and past land uses and practices, and visually examine Site conditions in order to identify Recognized Environmental Conditions (RECs). A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The REC term does not include *de minimis* conditions that generally do not present a threat to human health or the environment, and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

1.3 Detailed Scope of Work

Group Delta has interpreted American Society for Testing and Materials (ASTM) E1527-13 as the guidance document and used its provisions to the extent deemed appropriate for this report. In general, the scope of work included:

- Review of available information to describe the general geology and hydrogeology at the Site and adjacent areas;
- Search of regulatory records regarding possible hazardous material handling, spills, storage, or production at the Site or in its vicinity;
- Review of on-line available data including databases maintained by the Department of Toxic Substances Control (DTSC) and the State Water Resources Control Board (SWRCB);
- Perform agency records review of available files from the South Coast Air Quality Management District (SCAQMD), San Bernardino County Fire Department (SBFD), Department of Transportation Pipeline and Hazardous Materials Administration (PHMSA) National Pipeline Mapping System (NPMS), and Division of Oil, Gas, and Geothermal Resources (DOGGR) for onsite wells;
- Review of historic aerial photographs, historic topographic maps, Sanborn® fire maps, City Directories, and a radius map database search provided by Environmental Data Resources, Inc. (EDR);

- Reconnaissance of the Site and the immediately surrounding area to identify indicators of the existence of hazardous materials or RECs;
- Interview of an owner representative for the Site;
- Development of conclusions and findings, and;
- Preparation of a report describing the assessment and presenting the results and findings.

A statement of interpretive limitations is contained in Section 1.5 of the report.

1.4 Significant Assumptions

As stated in the previous section, this ESA was conducted in general accordance with ASTM E1527-13 to the extent deemed appropriate. This was done to identify and analyze environmental conditions that constitute existing, past, or potential environmental risks associated with the Site. Performance in accord with this standard is intended to reduce, but not eliminate uncertainty with respect to the potential for RECs associated with the Site.

1.5 Limitations and Exceptions

This ESA report is intended for the sole use of the Client and on the specific project identified. Our services have been performed under mutually agreed-upon terms and conditions. If other parties wish to rely on this report, please have them contact us so that a mutual understanding and agreement of the terms and conditions for our services can be established prior to their use and reliance of this report and the information it contains.

The findings and opinions presented are relative to the dates of our Site work and should not be relied on to represent conditions at substantially later dates. The opinions included herein are based on information obtained during the study and our experience. If additional information becomes available, which might impact our environmental findings, we request the opportunity to review the information, reassess the potential conditions, and modify our opinions, if warranted.

Although this assessment has attempted to identify the potential for environmental impacts to the Site, potential sources of contamination may have escaped detection due to: (1) the limited scope of this assessment, (2) the inaccuracy of public records, and/or (3) the presence of undetected or unreported environmental incidents.

It was not within the scope of this assessment to address issues not included in ASTM E1527-13 (such as radon, lead in drinking water, naturally-occurring hazardous materials or vegetation, endangered species, wetlands, etc.). Furthermore, it was not the purpose of this study to determine the degree or extent of contamination, if any, at the Site.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar conditions, by reputable environmental consultants practicing in this or

similar localities. No other warranty, expressed or implied, is made regarding the professional information in this report.

1.6 Special Terms and Conditions

All appropriate inquiry (AAI) into the prior uses of the Site was made in accordance with good commercial and customary practices to identify and analyze RECs constituting existing, past or potential environmental conditions in connection with the Site.

There are no special terms and conditions that apply to the preparation of this report.

1.7 User Reliance

This assessment was performed at the request of the Client, utilizing methods and procedures consistent with good commercial or customary practices designed to conform to acceptable industry standards. The assessment and conclusions presented in this report represent the best professional judgment of the Environmental Professional based on the conditions that existed during the assessment and the information and data available to us during the course of this assignment.

Factual information regarding operations and conditions provided by the Client, owner, or their representative has been assumed to be correct and complete.

The report may be distributed and relied upon by the Client, its successors and assigns. Reliance on the information and conclusions presented in this report by any other party or parties is not authorized without the written consent of Group Delta.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description of the Site

The Site is comprised of 130.34 acres of dairy farm land located north of Merrill Avenue, west of Grove Avenue, east of Bon View Avenue, and south of Eucalyptus Avenue, in the City of Ontario, San Bernardino County, California (Figure 1). The Site is also identified by the San Bernardino County Assessor's Parcel Numbers (APN's) 1054-071-01, -02; 1054-081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-241-01, -02; 1054-311-01, -02; and 1054-231-01, -02.

A complete legal description of the Site is contained in the Preliminary Title Report provided by the Client. The Preliminary Title Report is presented as Appendix A.

2.2 Site and Vicinity General Characteristics

The Site is irregular-shaped and is composed of thirteen (13) adjoining parcels. The Site is operational as a dairy farm or farms and contains multiple single-family residences distributed amongst the dairy areas. The Site is relatively flat.

The Site's vicinity is generally characterized by rural land uses consisting primarily of dairy farming. The Chino Airport is located immediately south of the Site beyond Merrill Avenue.

2.3 Current Use of the Site

The Site is currently used as a dairy farm with single-family residences.

Photographic documentation of the Site is provided in Appendix B.

2.4 Site Geology

The site is located within the Peninsular Ranges geomorphic province of California. This province is typically characterized by rugged north-south trending mountains separated by subparallel faults, and a coastal plain of subdued landforms underlain by sedimentary formations. Based upon available published geology maps, the site appears to consist of young eolian and alluvial fan deposits (Holocene and late Pleistocene) originating from the San Gabriel and San Bernardino Mountains to the north. Based upon the published mapping for the area, these young eolian and alluvial fan deposits are generally composed of unconsolidated cobbles, gravel, and sand deposits.

2.5 Site Hydrology

The Site is located approximately 1.6 miles west of Cucamonga Creek. The Deer Creek drains to the Cucamonga Creek approximately 600 feet south of the proposed Schaefer Avenue Bridge. The Cucamonga Creek eventually drains towards the Chino Creek and the Santa Ana River. The groundwater in the hydrologic unit is used for municipal, agricultural, and recreational purposes.

Site specific groundwater data was not readily available. As site-specific data was unavailable, groundwater data was reviewed in the Site's vicinity using the California Department of Water Resources Groundwater Information Map. The approximate depth to groundwater at this site is reported at approximately 120-140 feet below ground surface (bgs); however, groundwater underlying the nearby creeks may be shallower. Groundwater at this location likely flows in a southerly direction based on the proximity to the Cucamonga Creek and eventual drainage to the Chino Creek and Santa Ana River.

2.6 Current Uses of Adjacent Properties

The properties to the north, east, and west of the Site are dairy farms and farms. The Chino Airport is located immediately south of the Site beyond Merrill Avenue.

3.0 USER PROVIDED INFORMATION

3.1 Title Records

A preliminary title report was provided to Group Delta. A copy of the report is in Appendix A.

3.2 Environmental Liens or Activity and Other Use Limitations (AUL)

No reports of environmental liens or AULs were provided by the User during this ESA or identified in the title report.

3.3 Owner/Occupant Interviews

3.3.1 Current Owners

Ms. Linda Gourdikian and Mr. George Borba, two of the multiple Owners of the Site completed the Owner Questionnaire regarding any knowledge about present or past land use at the Site that may be of environmental concern on October 10, 2018. According to Mr. Borba, the west portion of the Site was used for corn, wheat, and barley agriculture through 2003 and is now used as pasture grazing. According to Ms. Gourdikian, land use at the Site has historically been dairy farming and agriculture. Ms. Gourdikian stated no hazardous waste use, illicit dumping, or unauthorized releases have occurred at the Property, to her knowledge. According to Ms. Gourdikian, at least one underground storage tank (UST) was removed from the Site in the 1980s. No documentation of removal was provided to Group Delta by the Owners. See section 5.2.1 San Bernardino Fire Department for more information regarding the UST removals.

Group Delta also received information regarding current Owners of the Site from Ms. Christine Buckle of Hillwood. According to Ms. Buckle, current Owners of the Site include POCAMO, LLC, a California limited liability company; George Borba, Jr. and Linda Borba Gourdikian, as Trustees of the Survivor's Trust created under the George Borba Family Trust dated April 12, 1990, as amended; George Borba, Jr. and Linda Borba Gourdikian, as Trustees of the Marital Trust created under the George Borba Family Trust dated April 12, 1990, as amended; and George Borba, Jr., an individual as of April 2018.

3.3.2 Previous Owners

The previous owner(s) of the Site was not identified during this Phase I ESA.

3.4 Reason for Preforming ESA

The purpose of the ESA is to identify apparent and potential sources of contamination for the Site that, by their association or proximity to the Site, could represent an REC. This report can serve to identify environmental conditions at the Site that may impact the proposed project and may permit the User to satisfy one of the requirements to qualify for the bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation and Liability

Act (CERCLA) liability (42 U.S.C. §9601). It was not the purpose of this study to determine the degree or extent of contamination, if any, but rather to identify the potential for contamination or environmental concern.

3.5 Review of Existing Site Reports

The User provided one study report prepared for the Site. A summary of the summary report provided to Group Delta is as follows:

1. Phase I Environmental Site Assessment, Athanor Environmental Services Inc., October 2017

After review of the Phase I provided by the User, no issues of environmental concern were noted.

4.0 ENVIRONMENTAL DATA SEARCH

4.1 Database Information on the Site and the Adjacent Properties

4.1.1 Standard Environmental Record Sources for the Site and Vicinity

Group Delta conducted a review of reasonably ascertainable environmental regulatory agency databases to identify known or suspected environmental concerns or RECs that may be associated with the Site. A search of readily available environmental records was obtained from EDR of Shelton, Connecticut (Appendix C). The purpose of the regulatory database report review was to evaluate to the extent possible whether prior activities, processes, operations, or actions on the Site, adjoining properties, and nearby locations have the potential to adversely impact the environmental integrity of the Site, are suspected sources of environmental contamination, or present RECs for the Site. The regulatory database report provides information regarding current operations and prior regulatory listings for the Site and previous owners and/or operators on the Site. The presence or absence of information about the Site does not necessarily mean that there are or are not environmental issues associated with the Site.

The regulatory database report includes a list of government databases searched, a statistical profile listing the number of properties within ASTM Standard Practice specified search radii, selected detailed information from environmental regulatory agency databases, and a map illustrating the identified properties, sites, or facilities of interest.

The regulatory database report provides a mechanism to evaluate a relatively large number of environmental regulatory agency databases and eliminate many properties, sites, operations, and/or facilities that have a low potential of adversely impacting the Site. However, it should be noted that the information included in the regulatory database report is not necessarily all-inclusive and environmental regulatory agency files may have been purged by public officials prior to release to the public. In addition, mapping errors may not reflect actual distances and directions between the Site and the properties, sites, operations, and/or facilities listed in the regulatory database report.

The regulatory database report includes information from federal, state, local, military, and tribal environmental regulatory agency databases.

4.1.2 Site Records

Table 1 provides a summary of databases the Site was identified on in the EDR regulatory database report. The table includes the operating business name and address associated with the listing; Map ID number of the listing; associated database(s) on which the listing occurs; and a summary of information pertaining to the listing.

Table 1: Site Findings

Environmental Atlas Findings – Site Findings
George Borba & Son Dairy – 7955 Eucalyptus Ave, Chino, CA
Map Key Number A1 – A7
EDR Listing of Concern and Associated Databases: AST, NPDES, WDS, HIST UST, AST, ENF, HAZNET, CA FID UST, FINDS, ECHO
Summary of Listing: This Site was identified on the AST database as having an aboveground storage tank (AST). The Site was also identified on the NPDES and WDS databases as a facility that treats and/or disposes of wastes associated with confined and concentrated animal feeding, confined animal holding, confined and concentrated aquatic animal production facilities, and/or aquaculture. The Site also has a historical UST listed. No other information regarding the historical UST is provided by EDR. The Site also was reported on the HAZNET database as having waste oil and mixed oil recycling onsite, an active UST, and an AST. No other information is provided. For more information regarding this listing, see section 5.2 Local Department Records

4.1.3 Vicinity Records Search

Multiple sites were listed in the EDR database radius search for the project area. The radius search area included the project limits and a one-mile radius from the project limits. Numerous properties within this search area were listed on the EDR database and were found not to pose a hazardous waste impact based on the following criteria, or a combination thereof:

- The regulatory case status of the property is identified as completed and closed;
- The type of media affected was identified as soil only;
- The release was in nominal amounts or concentrations as to not present a hazardous waste impact concern to the project;
- The listing was identified on low-hazardous risk databases (i.e., underground storage tank [UST] HAZNET, small quantity generator databases) with no reported spills, cleanups, or violations;
- The property is identified on a low-hazardous risk database as receiving one or more violations, but the nature of violations received was associated with financial, administrative, or record-keeping practices only;
- The distance of the listing to project limits is great enough that it does not present a hazardous waste impact concern to the project, and/or;
- The listing is down-gradient or cross-gradient from the project limits.

Based on these criteria, these listings are not considered an environmental concern to the project and were not evaluated further.

Table 2 provides a summary of properties in the vicinity of the site identified on high-hazardous risk databases (LUST) in the EDR regulatory database report. Table 2 includes the operating

business name and address associated with the listing; Map ID number of the listing; associated database(s) on which the listing occurs; and a summary of information pertaining to the listing.

Table 2: Site Vicinity Findings

Environmental Atlas Findings – Site Vicinity Findings
Private Residence – Private Residence, Chino, CA
Map Key Number D15
EDR Listing of Concern and Associated Databases: LUST
This property is located north and upgradient to the Site and is listed on the LUST database. A leaking UST was reported to be discovered on January 2004, with potential contaminants of concern as diesel and gasoline in soil. A soil and water investigation report was prepared and reportedly submitted February 2006. Remediation was conducted on the property in April 2004. A no further action (NFA) letter was reportedly issued in October 2006. For more information pertaining to this listing, refer to Section 5.1.2 – State Water Resources Control Board.
CAL-AERO FIELD / ACADEMY
Map Key Number E21
EDR Listing of Concern and Associated Databases: LUST
This listing is located south-adjacent and downgradient to the Site and is listed on the Envirostor database. The status of this listing is reported as inactive and needing evaluation as of July 2005. No other information is listed in EDR. For more information pertaining to this listing, refer to Section 5.1.1 – Department of Toxic Substances Control (DTSC) and Section 5.1.2 – State Water Resources Control Board.

A copy of the Radius Search Map is provided in Appendix C.

4.2 Historical Use Information on the Site and Adjoining Properties

Group Delta reviewed available historical information to ascertain the historical uses of the Site and the adjoining properties. Reviewed information included Sanborn insurance maps, historic aerial photographs, historic topographic maps, and city directories.

4.2.1 Sanborn Map Review

Group Delta reviewed a certified Sanborn map report prepared by EDR. After a complete search of the Sanborn Library and fire insurance maps by EDR, fire insurance maps of the target property were not found.

A copy of the Sanborn search findings is provided in Appendix C of this report.

4.2.2 Historical Aerial Photography and Topographic Map Review

Aerial photographs and historical topographic maps of the Site and adjoining properties were provided by EDR and reviewed to identify historical land development. Photographs and historical topographic maps dating between 1902 and 2014 were reviewed. Table 3 and 4 summarizes the results of the topographic map and aerial photograph review. Copies of the aerial photographs and topographic maps provided by EDR are included as Appendix C.

Table 3: Summary of Topographic Map Review

Summary of Topographic Map Review			
Year	**Source and Scale**	**Summary**	
1902	Topographic Map 30-minute	Due to the scale of the maps from 1902, no inferences regarding land use for the Site, adjacent properties, or surrounding vicinity could be ascertained.	
1933 through 1947	Topographic Map 7.5-minute	The Site is depicted in a rural setting with between three and seven structures shown on Site.	The Site's vicinity is also shown as rural.
1949 through 1954	Topographic Map 7.5-minute	No changes are depicted.	Cal-Aero Flight Academy (Deactivated) is depicted immediately south of the Site.
1973 through 2012	Topographic Map 7.5-minute	Additional structures are depicted on the Site associated with dairy farming.	The former Cal-Aero Flight Academy (Deactivated) is identified as the Chino Airport.

Table 4: Summary of Aerial Photography Review

Summary of Aerial Photography Review			
Year	**Source and Scale**	**Summary**	
1938	Aerial Photographs 1:500	With the exception of a few structures, the entire Site was used for agriculture.	The Site's vicinity is also shown as agricultural.
1946	Aerial Photographs 1:500	No major changes are evident.	Cal-Aero Flight Academy (Deactivated) is evident immediately south of the Site. Hundreds of airplanes were stored at this facility. No other major changes are evident.
1948 through 1953	Aerial Photographs 1:500	No major changes are evident.	All of the airplanes were removed from Cal-Aero Flight Academy. No other major changes are evident.

1966 through 1975	Aerial Photographs 1:500	The Site can be seen undergoing a transformation into a dairy farm with additional dairy-related structures being built during this period. The western half of the Site continued to be used for agriculture.	The Site's vicinity also underwent a transition from farming to dairy during this period.
1987 through 2014	Aerial Photographs 1:500	Throughout this period, additional structures associated with dairy farming were built, primarily on the eastern half of the Site. The western half of the Site continued to be used primarily for agriculture. Beginning in 2006, retention ponds were present on the southwestern portion of the Site	Development of the Chino Airport to the south is evident beginning in 1987, including what appear to be hangars. The Site's vicinity continued to be used primarily for dairy with some agriculture.

Representative aerial photographs and topographic maps are included in Appendix C.

4.2.3 City Directory Report

The EDR City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. City directories generally include listings of residents or businesses organized both alphabetically and alphanumerically by street names and street addresses and are prepared for many urban and suburban areas of the United States dating back to the early 1900s.

Group Delta reviewed the city directory search prepared by EDR. The search was performed for the Site and the adjacent properties. According to the city directory, the vicinity of the Site was mainly comprised of residences and businesses related to dairy and agriculture. No businesses that would present an environmental concern to the subject Site were identified. No RECs were identified as a result of the review of the EDR City Directory Report.

The city directory search results prepared by EDR are presented in Appendix C.

5.0 REGULATORY AGENCY RECORDS

5.1 Online Available Records

5.1.1 Department of Toxic Substances Control (DTSC)

Group Delta reviewed available files of the State of California DTSC published on the internet records database Envirostor. The purpose of this search was to identify any evidence of unauthorized releases of hazardous materials to the surface, subsurface soil, and groundwater.

The Site was not identified on the Envirostor database.

One site was identified in the vicinity of the Site. A summary of the case associated with the cleanup sites is provided below.

1. CAL-AERO FIELD / ACADEMY (80000986)
   This listing is located south-adjacent and downgradient to the Site. No site history was available on the Envirostor database. This case is listed as inactive and needing evaluation as of July 2005.

   For more information regarding this listing, see section 5.1.2 State Water Resources Control Board (SWRCB) – 2. Chino Airport

5.1.2 State Water Resources Control Board (SWRCB)

Group Delta reviewed available files through the online GeoTracker database maintained by the California SWRCB. GeoTracker maintains files related to UST facilities, LUSTs, site clean-ups, disposal sites, wells, and information related to hazardous materials and/or waste.

The Site was not identified on the GeoTracker database,

One LUST Cleanup Site was identified in the vicinity of the Site. A summary of the case associated with the cleanup sites is provided below.

1. Private Residence – Ferreira Dairy, 14400 S Grove Avenue, Chino, CA
   The facility is located approximately 580-ft north and upgradient of the Site.

   According to GeoTracker, in January 2004, a Phase I Environmental Assessment was conducted as part of a pending property transfer from the current owner, Mrs. Leontina Ferreira, to the Stratham Group, a residential developer. The Phase I identified the following areas of concern: over 30 years of agricultural activities, hazardous materials storage associated with agriculture, two septic systems, a drinking water well, an irrigation well, two 500-gallon ASTs for gasoline and diesel fuel, and two USTs that had been removed in December 1994. San Bernardino County issued tank permits in May of

2004, identifying Mr. Joe C. Ferreira, Jr. as the tank operator who removed the tanks himself in 1994. The two 1,000-gallon USTs stored gasoline and diesel fuel.

According to Mrs. Leontina Ferreira, no subsurface investigation was conducted at the time of the tank removal. Based on the recommendations in the Phase I report, a Phase II Environmental Assessment was conducted in February 2004, to assess the impacts to soil from past agricultural activities and the operation of the USTs at the site. Eleven borings were drilled to a maximum depth of 50 feet in the UST area and five borings were advanced to 2.5 feet within the agricultural areas.

Pesticides were detected in shallow soil at concentrations below the Environmental Protection Agency (EPA) Preliminary Remediation Goals (PRGs) for residential soil published by the U.S. EPA Region 9 at the time. Therefore, no further action was recommended regarding the pesticides.

Petroleum hydrocarbons were detected in soil from approximately 5 to 30 feet below surface. The highest concentrations of total petroleum hydrocarbons as diesel fuel (7,400 milligrams per kilogram [mg/kg]), ethylbenzene (69 mg/kg), and xylenes (1,300 mg/kg) were detected in a soil sample collected at a depth of 10 feet. The highest concentration of toluene (88 mg/kg) was detected in a sample collected from a depth of 24 feet. Excavation of the impacted soil and additional assessment were recommended.

On April 21, 2004, six more borings were drilled to determine the vertical and lateral extent of petroleum hydrocarbons in soil in the former UST area. Then, from April 27 to April 30, 2004, seventeen overlapping 5-foot-diameter borings were drilled to depths ranging from 32 to 50 feet in order to remove contaminated soil without destabilizing the adjacent residential building.

Confirmation samples collected at the bottom of the borings and along the sidewalls demonstrated that the core contamination had been removed.

On May 4, 2004, the excavated soil was transported to Thermal Remediation Solutions (TRS) in Azusa, California for reclamation. The County of San Bernardino Fire Department reviewed the reports documenting the environmental assessment and remediation and determined that the case status required Regional Water Quality Control Board (RWQCB) involvement.

At the request of Regional Board staff during a meeting in September 2005, an additional boring was drilled to confirm the vertical extent of contamination and to evaluate potential groundwater conditions beneath the site.

On December 22, 2005, the boring was drilled to a depth of 101.5 feet in the central part of the former release. No groundwater was encountered during drilling. Soil samples

collected at 5-foot intervals from 55 to 90 feet were analyzed for total petroleum hydrocarbons (TPH) as diesel fuel and volatile organic compounds (VOCs). No TPH or VOCs were detected in the soil.

Subsequently, no further action for this property was recommended by the RWQCB due to the following reasons: the USTs were removed in 1994; assessment activities defined the lateral and vertical extend of the contamination; contaminated soil was excavated from former tank areas as confirmed by field verification sampling; confirmation sampling demonstrated that most of the contamination had been removed; benzene and fuel oxygenates were not detected on the site prior to site assessment activities, and; groundwater was estimated to be 120 feet bgs, or approximately 90 feet deeper than the residual petroleum hydrocarbons remaining at 32 mg/kg in the soil.

Due to the regulatory status of this property, this listing is not considered a REC to the Site.

2. <u>Cal-Aero/Chino Airport – 7000 Merrill Avenue, Chino, CA</u>
The facility is located south-adjacent and downgradient to the Site.

According to GeoTracker, the following is a history of the site:

During the early 1940s, Chino Airport (airport) was owned by the Federal Government and was used for flight training, aircraft storage, and sales. San Bernardino County Department of Airport (department) acquired the airport in December 1948 and leased the property to Pacific Aero-motive Corporation, which operated a modification facility for military aircraft. The airport become public in 1960. Napalm, bombs, and other incendiary devices were manufactured for the federal government during the 1960s and early 1970s. Past and present businesses and activities at the airport included a flight academy, aircraft sales and storage, modification of military aircraft, crop dusting, aircraft engine repair shops, aircraft painting, stripping and washing, a dispensing facility for the application for fire retardant chemicals for forest fires, and a maintenance and operation facility for United States Forest Service (USFS) aircraft. Use of organic solvents at the airport was widespread and varied due to the manufacturing activities at the airport.

In 1986, Camp Dresser & McKee, Inc., sampled wells in the Chino area to provide information for an environmental impact report for the Metropolitan Water District's proposed Chino Basin Groundwater Storage Program. The analytical results indicated trichloroethylene (TCE) present in at least five wells at levels exceeding the Maximum Contaminant Level (MCL) for drinking water of 5 parts per billion (ppb). Concentrations in wells ranged from 6.0 to 75.0 ppb.

By October 1986, an investigation of potential sources of TCE began by sending questionnaires to 25 possible responsible parties.

In 1988, production wells in the vicinity of the airport were sampled. Many wells were used primarily for irrigation of agricultural lands; however, an unknown number of these wells had some private domestic uses as well. The results of these samples confirmed that groundwater contamination from organic solvents at concentrations above MCLs existed in at least six wells down gradient of the airport. The contaminant plume also included tetrachloroethylene (PCE). Sampling of wells upgradient of the airport revealed no detectable organic solvents. It was concluded that groundwater contamination was occurring downgradient of the airport as a result of onsite source(s) at the airport.

On April 1989, the San Bernardino County Department of Environmental Health Services (SBCDEHS) submitted a proposed workplan for conducting an investigation to identify potential sources of groundwater contamination at the airport.

A report titled "Preliminary Report on Generators of PCE and TCE at the Chino Airport" was submitted on July 1989. The report found 24 USTs at the airport, 11 of which were in use at the time for fuel and waste oil. Only 2 of the tanks had secondary containment. The rest were assumed to be single-walled steel USTs. A number of violations of laws and regulations governing the management of the USTs, hazardous wastes, and hazardous materials at airport facilities were identified. It was concluded that the groundwater contamination in the area appeared to be the result of industrial waste disposal practices at the airport.

In February 1990, SBCDEHS submitted a prioritized list of sites where TCE may be discharged along with a time schedule for implementation of the investigation of these sites.

In October 1990, the RWQCB issued a Cleanup and Abatement Order.

Between 1991 and 1992, 310 containers of hazardous waste were disposed and the soil was characterized onsite. A total of 81 borings were drilled during two phases of soil characterization. Soil samples, borehole vapor samples, soil gas samples, and sludge samples were collected and analyzed. Although elevated concentrations of acetone, methylene chloride, carbon tetrachloride, dichloroethane, and low-level concentrations of TCE were detected in some of these samples, no obvious sources of the TCE/PCE groundwater contamination were identified.

According to the Draft Groundwater Assessment Report dated October 2003, the results for the 11 private production wells indicated concentrations of TCE up to 44 ppb, with the assumed groundwater flow direction to be south-southwest.

CAMW2 is a groundwater monitoring well located at the intersection of Merrill Avenue and Grove Avenue, which is the closest well to the Site. The CAMW2 sample from the

October 2003 assessment reported non-detect results for chloroform, cis-1,2-dichhloroethene, 1,1,2-trichloroethane, and TCE. CAMW2 did have elevated levels of nitrate, likely due to agricultural and dairy operations immediately upgradient of the airport. According to a letter from Tetra Tech dated June 2009, Additional Plume Characterization and Well Installation Work Plan, CAMW2 was not included in the TCE plume that was characterized for the groundwater for the site. According to the Groundwater Well Installation and Aquifer Pumping Test Work Plan Chino Airport dated July 2017, CAMW2 also had results less than the laboratory's limit of detection for 1,2,3-trichloropropane (TCP).

As of May 2017, the case is still open for ongoing remediation. The northern limits of the plume have been identified and are near the northern border of the airport, but the plume does not extend north to the Site. A map showing the plume is provided in Appendix D.

Based on the contaminant plume not affecting the Site and the southern direction of groundwater flow, this case is not considered a REC to the Site.

5.1.3 Division of Oil, Gas, and Geothermal Resources (DOGGR)

Group Delta reviewed mapping available on the DOGGR website for oil and gas wells on or in the vicinity of the Project. The mapping did not include any oil and gas wells on, or within 1500 feet of the Site. No RECs were identified as a result of the DOGGR database review.

5.1.4 Office of California State Fire Marshall

Group Delta reviewed available files through the online National Pipeline Mapping System (NPMS) database maintained by the Office of California State Fire Marshal. NPMS is a Geographic Information System (GIS) database of pipeline information for the specific intent of emergency response. The database does not include natural gas lines or liquefied natural gas facilities.

No pipelines were mapped on or within 1500 feet of the Site. No RECs were identified as a result of the NPMS database review.

5.2 Local Department Records

5.2.1 San Bernardino Fire Department

Group Delta requested records associated with the Site from the SBFD on April 3, 2018 and reviewed records associated with the Site on April 18, 2018.

According to letter from SBFD, three 1,000-gallon USTs were removed in March 1998 by Specktrum Engineering. One UST contained diesel and two contained gasoline. Benzene, toluene, ethylbenzene, xylenes, Total Extractable Petroleum Hydrocarbons (TEPH) – Diesel, Total Volatile

Petroleum Hydrocarbons (TVPH) – Gasoline, and Methyl tert-butyl ether (MTBE) were sampled in the soils. Below is a table summarizing the sample results:

Lab ID	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	TEPH – Diesel (ug/kg)	TVPH – Gasoline (ug/kg)	MTBE (ug/kg)
-1	8.0	88	30	260	ND	1100	44
-2	ND	120	1800	5100	ND	2800	28
-3	ND	ND	ND	ND	ND	350	ND
-4	ND	ND	ND	ND	ND	ND	ND
-5	ND	140	900	5100	3800	74000	ND

ug/kg = micrograms per kilogram ND=Non-detect

No descriptions of the locations of soil samples were included in the documentation provided. A map indicated that the former USTs were located in the northern mid-portion of the Site. The map is provided as Appendix D.

At the time of the sampling, a strong odor at the north end of the diesel tank was noted.

The letter also stated that confirmation sample results from the removal of the USTs indicated that contaminant concentrations remaining in soil within the excavation were below those which are considered a problem and further investigation was deemed not warranted at the time by SBFD.

Due to the sampling results and regulatory status of the case, this listing is not considered a REC.

In addition, a 2016 Certified Unified Program Agencies (CUPA) compliance inspection report dated December 2016 listed a hazardous materials waste inventory. The inventory included the following: two 55-gallon drums of bleach, two 55-gallon drums of Nu-Dyne 252 Teat Dip, two 55-gallon drums of Nu-Dyne 110 Teat Dip, one 300-gallon container of used oil, one 55-gallon drum of drained used oil filters, one 55-gallon drum of transmission fluid, one 55-gallon drum of hydraulic oil, one 55-gallon drum of motor oil, one 240-gallon AST (empty, previously held gasoline), one 1000-gallon AST split vault of diesel, one 1000-gallon AST split vault (empty, previously held gasoline), two 121-ft^3 cylinders of acetylene, and two 125-ft^3 cylinders of oxygen.

5.2.2 South Coast Air Quality Management District (SCAQMD)

Group Delta performed a search on SCAQMD's Facility Information Detail (FIND) database.

The Site has permits to operate equipment associated with fuel and storage and dairy that are currently active. The Site also have inactive permits associated with equipment including AGOPS IC ENGINE (50-500 HP) and AGOPS EMERGENCY ICE (50-500 HP). No notices of violation or notices to comply were recorded.

The Site produced the following annual emissions:

- Particulate matter, volatile organic compounds, and benzene in the air recorded from 2014 to 2017.
- Reactive organic gases (ROG) and total suspended particulates (TSP) recorded from 2005 to 2014.
- Ammonia recorded from 2005 to 2017.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

A Site reconnaissance was performed on October 4, 2018 by Elaine Horng of Group Delta. The Site was observed by traversing paved roads trails by foot while noting evidence of environmental conditions. The Site was accessed from the northern mid-portion of the Site via Eucalyptus Avenue, western mid-portion of the Site via Bon View Avenue, and the eastern mid-potion of the Site via Grove Avenue.

The purpose of the Site reconnaissance was to observe the present Site use and conditions as they relate to the possible presence of potentially hazardous substances and petroleum products. In addition, adjoining properties and roads were visually observed from the Site to identify land uses and the potential presence of structures, operations, activities, or environmental conditions that may involve the use, treatment, storage, disposal, or generation of hazardous wastes and/or petroleum products that may pose an environmental concern to the Site. Photographic documentation of the reconnaissance is included in Appendix B.

6.2 General Site Setting

The Site is a 130.34-acre property and consists of pasture land on the western portion, dairy farms on the eastern portion, and residential housing amongst the pasture and dairy farms. The Site had been used as a dairy farm and for single-family residences since approximately 1963. The Site is mainly dirt and grass, with paved concrete, and several single-family residences.

The main residential house is on the northern mid-portion of the Site and has a main office. It is also attached to one of the dairy farms. Four residential houses are on the northwest corner of the Site, another residential house is on the northeast corner of the Site, and the last residential house is on the southeast corner of the Site. All residences are occupied by workers for the dairy farm.

6.3 Adjacent Properties Site Observations

The properties adjacent to the Site were observed from the Site to assess if they had potential to present RECs for the Site.

Dairy farms are located on the north-adjacent, west-adjacent, east-adjacent, and southeast-adjacent properties to the Site. Chino Airport is located on the south and southwest-adjacent property to the Site. The adjacent properties were viewed from the streets that border the Site. Based on this observation, the properties adjacent to the Site were well-maintained and did not appear to be of environmental concern.

6.4 Site Visit Findings

The following observations were made during the Site reconnaissance:

- There were approximately 3 onsite water wells for the potable water supply.
- Used tractor oil is also stored onsite.
- One 2,000-gallon AST was observed on the northern mid-portion of the Site. The AST is split into separate 1,000 gallons sections, one for diesel fuel and the other for gasoline. A 240-gallon AST next to the 2,000-gallon AST is used for gasoline storage. The 2,000-gallon AST is secured on concrete with a secondary containment. The 240-gallon AST appeared to be on concrete with no secondary containment. No staining was observed during Site reconnaissance.
- A pond system was observed in the southwestern portion of the site for manure water from the dairy farm. The pond appeared dry at the time of the Site reconnaissance.
- Within the dairy farms, there were several 55-gallon drums that are used to store chlorine, acid, and soap water for pipe cleaning.
- Pipes ran throughout the farm and were generally used to clean the cows during dairy activities.
- There was at least one septic system onsite.

No evidence of RECs was observed during the Site reconnaissance.

7.0 SIGNIFICANT DATA GAPS

7.1 Data Gaps

In general, a Data Gap is the inability to gather information as prescribed in the ASTM Standard Practice despite good faith efforts. This may include, but not be limited to, a lack of historical information, inability to interview knowledgeable individuals, or inspect portions of the Site.

No data gaps were encountered during this assessment.

7.2 Data Failures

The objective of reviewing historical information is to identify all obvious uses of the Site from first developed use or 1940, whichever is earlier, in order to identify the likelihood of previous uses resulting in a recognized environmental condition(s). Generally, a Data Failure is when all obvious uses of the site cannot be determined despite gathering and reviewing all of the standard historical sources that are reasonably ascertainable. A historical source is considered reasonably ascertainable if it is (1) publicly available, (2) obtainable within a reasonable period of time and at a reasonable cost, and (3) practically reviewable.

The Site uses were identified back to 1901. Therefore, data failure was not encountered during the course of this assessment.

8.0 FINDINGS AND CONCLUSIONS

Group Delta has performed a Phase I ESA for REDA Aquisitions for a 130.34-acre Site located north of Merrill Avenue, west of Grove Avenue, east of Bon View Avenue, and south of Eucalyptus Avenue, in the City of Ontario, San Bernardino County, California (Figure 1). The Site is also identified by the San Bernardino County Assessor's Parcel Numbers (APN's) 1054-071-01, -02; 1054-081-03; 1054-091-01, -02; 1054-101-01, -02; 1054-241-01, -02; 1054-311-01, -02; 1054-231-01, -02.

The information procured during this investigation was used to identify, to the extent practical and within the limitations of the Scope, RECs associated with the Site due to current or past land use. No RECs were identified during this assessment, the following potential environmental concern was identified:

- The former agricultural land use of the Site, beginning prior to 1938 and continuing to approximately 2005 is considered an environmental concern. This land use presents potential for residual organochlorine pesticides and arsenic commonly used on agricultural land during the dates the Site was used for agriculture. These pesticides may persist in shallow soil on the Site.

The following are noteworthy considerations for the Site:

- Various hazardous materials are stored and used on the Site. In addition, per the interview with Ms. Gourdikian, used tractor oil is stored in a small tank next to the northwestern storage building adjacent to the chicken coop.
- Dairy farming on the Site presents the potential for elevated methane in soil-gas on the Site.
- Numerous structures onsite may contain hazardous building materials including asbestos and lead-based paint.
- There are a 2,000-gallon and 240-gallon AST on the Site. The 240-gallon AST was on concrete but did not have secondary containment.
- One or more septic systems are present on the Site.
- There are at least three water production wells on the Site.
- Three 1,000-gallon USTs were removed in March 1998. One UST contained diesel and two contained gasoline. The documentation provided by SBFD was sparse; however, residual concentrations detected in soil were considered low and the UST removal received case closure.

9.0 OPINIONS

We have performed a Phase I ESA of the subject Site in accordance with the scope of work and limitations of ASTM E1527-13. The information procured during this investigation was used to identify, to the extent practical and within the limitations of the Scope, RECs associated with the Site due to current or past land use. This assessment has revealed no evidence of RECs at the Site. Based upon the findings and conclusions, Group Delta is providing the following opinions:

- A limited soil screening is recommended to assess for the presence of residual organochlorine pesticides and arsenic in the Site's soil.
- Hazardous materials and waste should be removed from the Site by the current owners prior to redevelopment in accordance with the Hazardous Materials Business Plan and under oversight from the CUPA (i.e., SBFD).
- The City of Ontario may require a soil-gas survey or mitigation measures for methane prior to development.
- A hazardous materials survey should be conducted on the Site's structures prior to demolition.
- The ASTs on the Site should be removed and receive closure from appropriate regulatory agencies.
- The SBFD issued case closure for three USTs removed from the Site in the late 1998. As a conservative measure, a limited Phase II site investigation could be considered for the area of the former USTs. At a minimum, earthwork in the vicinity of the former USTs should be monitored for indications of residual contamination.

10.0 DEVIATIONS

There were no deviations to the ASTM Standard Practice associated with the preparation and development of this Phase I ESA.

11.0 REFERENCES

California Department of Toxic Substances Control, EnviroStor Database, March 30, 2018 www.envirostor.dtsc.ca.gov.

Department of Transportation, National Pipeline Mapping System, March 30, 2018 https://www.npms.phmsa.dot.gov/PublicViewer/,

Environmental Data Resources, Inc., The EDR Radius Map Report with GeoCheck dated October 1, 2018

Environmental Data Resources, Inc., Certified Sanborn Map Report dated March 14, 2018

Environmental Data Resources, Inc., Historical Topographic Map Report dated March 14, 2018

Environmental Data Resources, Inc., The EDR-City Directory Image Report dated March 14, 2018

Environmental Data Resources, Inc. Aerial Photo Decade Package dated March 15, 2018

Bibeau, John, Owner Representative, Personal Communication, October 2018

Gourdikian, Linda, Co-owner, Personal Communication, April 9, 2018

Borba, George, Co-owner, Personal Communication, April 10, 2018

Google Maps, http://maps.google.com

Office of California State Fire Marshal, March 30, 2018 http://osfm.fire.ca.gov/pipeline/pipeline_mapping.php.

State of California, Division of Oil, Gas, and Geothermal Resources, March 30, 2018 http://www.conservation.ca.gov/dog/Pages/wellfinder.aspx

State Water Resources Control Board, GeoTracker Database, March 30, 2018 http://geotracker.waterboards.ca.gov/.

FIGURES

APPENDIX A
PRELIMINARY TITLE REPORT

APPENDIX B
SITE PHOTOGRAPHS

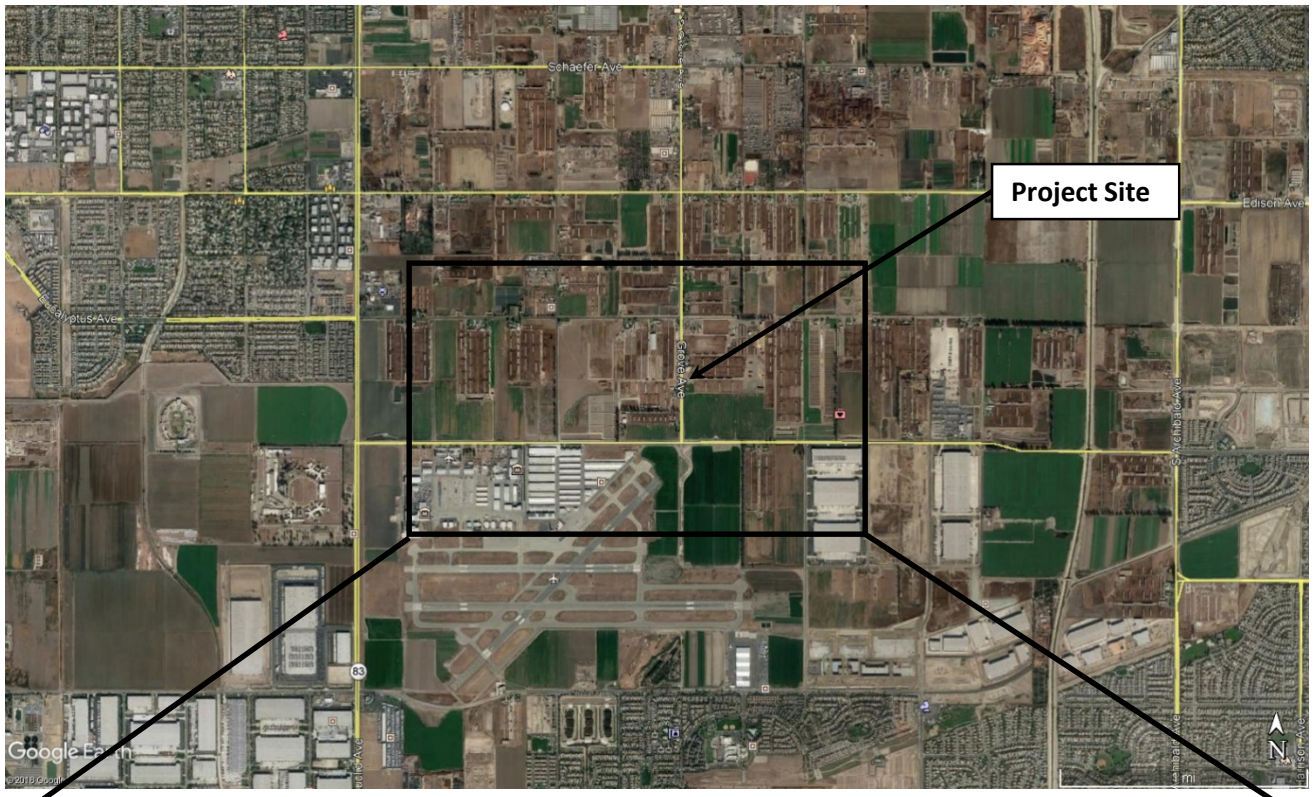
APPENDIX C

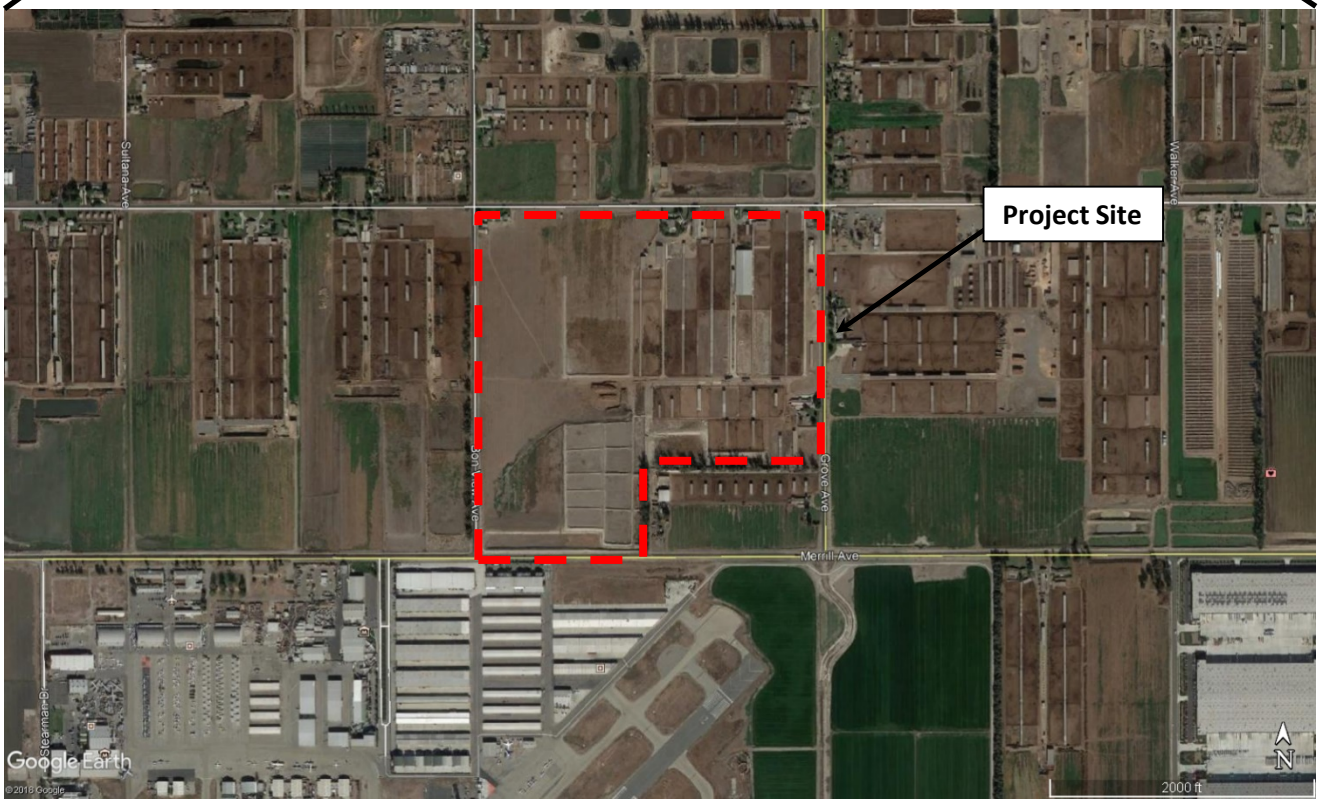
ENVIRONMENTAL DATA RESOURCES, INC. REPORT
(RADIUS SEARCH MAP, SANBORN MAPS, AERIAL PHOTOGRAPHS,
TOPOGRAPHIC MAPS, & CITY DIRECTORIES)

APPENDIX D

REGULATORY DATABASE REVIEW MAPS

FIGURES





Reference: ***Google Earth***

GDC Project No. EN381

Project Location Map

Phase I Environmental Site Assessment
George Borba Site
Ontario, CA

Figure 1

APPENDIX A
PRELIMINARY TITLE REPORT

2365 Northside Drive, Suite 600
San Diego, CA 92108
Phone: (619) 521-3500
Fax: (619) 521-3608

Issuing Policies of Chicago Title Insurance Company

ORDER NO.: **00079574-996-SD1-CF2**

CBRE
4141 Inland Empire Blvd., #100
Ontario, CA 91764
ATTN: John R. Bibeau
Email: john.bibeau@cbre.com
Ref: Chino Property

PROPERTY: **VACANT LAND, ONTARIO, CA**

Escrow/Customer Phone: **(619) 521-3500**

Title Officer: **Ken Cyr & Mark Franklin**
Title Officer Phone: **(619) 521-3673**
Title Officer Fax: **(619) 521-3608**
Title Officer Email: **TeamCyrFranklin@ctt.com**

FIRST AMENDED PRELIMINARY REPORT

In response to the application for a policy of title insurance referenced herein, ***Chicago Title Company*** *hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a policy or policies of title insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an exception herein or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations or Conditions of said policy forms.*

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Attachment One. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Attachment One. Copies of the policy forms should be read. They are available from the office which issued this report.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

The policy(s) of title insurance to be issued hereunder will be policy(s) of Chicago Title Insurance Company, a Florida corporation.

Please read the exceptions shown or referred to herein and the exceptions and exclusions set forth in Attachment One of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects and encumbrances affecting title to the land.

Chicago Title Company

By: _____
Authorized Signature

By: _____
Randy Quirk, President

Attest: _____
Michael Gravelle, Secretary

2365 Northside Drive, Suite 600
San Diego, CA 92108
Phone: (619) 521-3500
Fax: (619) 521-3608

PRELIMINARY REPORT

EFFECTIVE DATE: **September 28, 2017 at 7:30 a.m.**

ORDER NO.: 00079574-996-SD1-CF2

The form of policy or policies of title insurance contemplated by this report is:

CLTA Standard Coverage Owners Policy (04-08-14)

1. THE ESTATE OR INTEREST IN THE LAND HEREINAFTER DESCRIBED OR REFERRED TO COVERED BY THIS REPORT IS:

   A FEE

2. TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:

   POCAMO, LLC, a California limited liability company, as to lots 1-4, 13-16, 19, 20, 29 and 30, subject to item no. 10 and requirement no's. 2, 3 and 4 herein and

   GEORGE BORBA, JR., a single man as to an undivided ½ interest;

   GEORGE BORBA JR. and LINDA BORBA GOURDIKIAN, Successor Trustees of the George Borba Family Trust, dated April 12, 1990, (Restated), as to an undivided 25% interest;

   GEORGE BORBA JR. and LINDA BORBA GOURDIKIAN, Successor Trustees of the Survivor's Trust created under the George Borba Family Trust, dated April 12, 1990, as amended, as to 25% of an undivided ½ interest;

   GEORGE BORBA JR. and LINDA BORBA GOURDIKIAN, Successor Trustees of the Marital Trust created under the George Borba Family Trust, dated April 12, 1990, as amended, as to 25% of an undivided ½ interest as to Lots 17 and 18, subject to requirement no's. 2, 3 and 4 herein.

3. THE LAND REFERRED TO IN THIS REPORT IS DESCRIBED AS FOLLOWS:

   See Exhibit A attached hereto and made a part hereof.

EXHIBIT "A"

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF ONTARIO, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOT(S) 1, 2, 3, 4, 13, 14, 15, 16, 17, 18, 19, 20, 29 AND 30 OF SECTION 20, TOWNSHIP 2 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, ALL ACCORDING TO MAP OF SUBDIVISION OF PART OF RANCHO SANTA ANA DEL CHINO, IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO , STATE OF CALIFORNIA, AS PER PLAT RECORDED IN BOOK 6 OF MAPS, PAGE 15 OF RECORDS OF SAID COUNTY

EXCEPTIONS

AT THE DATE HEREOF, ITEMS TO BE CONSIDERED AND EXCEPTIONS TO COVERAGE IN ADDITION TO THE PRINTED EXCEPTIONS AND EXCLUSIONS IN SAID POLICY FORM WOULD BE AS FOLLOWS:

A. Property taxes, which are a lien due and payable, including any assessments collected with taxes to be levied for the fiscal year 2017-2018.

Amounts hyperlinked here.

B. The lien of supplemental or escaped assessments of property taxes, if any, made pursuant to the provisions of Chapter 3.5 (commencing with Section 75) or Part 2, Chapter 3, Articles 3 and 4, respectively, of the Revenue and Taxation Code of the State of California as a result of the transfer of title to the vestee named in Schedule A or as a result of changes in ownership or new construction occurring prior to Date of Policy.

1. Water rights, claims or title to water, whether or not disclosed by the public records.

2. Easement(s) for the purpose(s) shown below and rights incidental thereto as delineated or as offered for dedication, on the map of said tract/plat;

Purpose:	Streets, highways and utilities
Affects:	All lots as shown on said map

3. Easement(s) for the purpose(s) shown below and rights incidental thereto as reserved in a document;

Reserved by:	Chino Land and Water Company
Purpose:	Pipes and aqueducts, railroads and tramways and incidental purposes
Recording Date:	April 2, 1908
Recording No:	Book 401, page 54 of Deeds
Affects:	The exact location and extent of said easement is not disclosed of record.

Reference is hereby made to said document for full particulars.

4. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	Southern California Edison Company
Purpose:	Poles, wires, cross-arms and incidental purposes
Recording Date:	March 1, 1911
Recording No:	Book 472, page 141 of Deeds
Affects:	Lots 1 and 2

5. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	Southern California Edison Company
Purpose:	Pole, cross-arms and incidental purposes
Recording Date:	December 11, 1913
Recording No:	Book 562, page 237 of Deeds
Affects:	Lots 3 and 4

EXCEPTIONS
(Continued)

6. Easement(s) for the purpose(s) shown below and rights incidental thereto as reserved in a document;

Reserved by:	Chino Land and Water Company
Purpose:	Pipes and aqueducts, railroads and tramways and incidental purposes
Recording Date:	April 17, 1920
Recording No:	Book 678, page 301 of Deeds
Affects:	Lots 3, 4, 13 and 14

The exact location and extent of said easement is not disclosed of record.

Reference is hereby made to said document for full particulars.

7. Easement(s) for the purpose(s) shown below and rights incidental thereto as reserved in a document;

Reserved by:	Chino Land and Water Company
Purpose:	Pipes and aqueducts, railroads and tramways and incidental purposes
Recording Date:	November 9, 1920
Recording No:	Book 702, page 46 of Deeds
Affects:	Lots 19, 20, 29 and 30

The exact location and extent of said easement is not disclosed of record.

Reference is hereby made to said document for full particulars.

7A. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	the County of San Bernardino
Purpose:	public highway
Recording Date:	April 19, 1979
Recording No:	1142
Affects:	Lots 1 and 16

8. Matters contained in that certain document

Entitled:	Notice of Merger
Recording Date:	February 16, 1988
Recording No:	88-046974 of Official Records

Reference is hereby made to said document for full particulars.

Affects: Lots 3 and 4

9. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	Southern California Edison Company
Purpose:	utilities
Recording Date:	March 17, 1994
Recording No:	94-0131212 of Official Records
Affects:	Lots 17 and 18 as described therein

EXCEPTIONS
(Continued)

10. The effect of a Deed as set forth below:

Grantor:	George A. Borba, Jr. and Linda Borba Gourdikian, Trustees of the Survivor's Trust created under the George Borba Family Trust dated April 12, 1990, as amended, as to an undivided 50% interest; and George A. Borba, Jr. and Linda Borba Gourdikian, Trustees of the Martial Trust created under the George Borba Family Trust dated April 12, 1990, as amended, as to an undivided 50% interest
Grantee:	Pocamo LLC, a California limited liability company
Dated:	December 31, 2015
Recording Date:	June 16, 2016
Recording No.:	2016-0237281 of Official Records

The Company requires that an affidavit (attached) be completed and executed by the above grantor and that said affidavit be acknowledged before a notary who is an employee of the title or escrow Company and then submitted to the Title Officer for review.

The Company further requires a statement of information from the above grantors in order to complete this report, based on the effect of documents, proceedings, liens, decrees, or other matters which do not specifically describe said Land, but which if any do exist, may affect the title or impose liens or encumbrances thereon.

Affects: Lots 1-4, 13-16, 19, 20, 29 and 30

11. Please be advised that our search did not disclose any open Deeds of Trust of record. If you should have knowledge of any outstanding obligation, please contact the Title Department immediately for further review prior to closing.

12. Matters which may be disclosed by an inspection and/or by a correct ALTA/NSPS Land Title Survey of said Land that is satisfactory to the Company, and/or by inquiry of the parties in possession thereof.

13. Any rights of the parties in possession of a portion of, or all of, said Land, which rights are not disclosed by the public records.

The Company will require, for review, a full and complete copy of any unrecorded agreement, contract, license and/or lease, together with all supplements, assignments and amendments thereto, before issuing any policy of title insurance without excepting this item from coverage.

The Company reserves the right to except additional items and/or make additional requirements after reviewing said documents.

PLEASE REFER TO THE "INFORMATIONAL NOTES" AND "REQUIREMENTS" SECTIONS WHICH FOLLOW FOR INFORMATION NECESSARY TO COMPLETE THIS TRANSACTION.

END OF EXCEPTIONS

REQUIREMENTS SECTION

1. Unrecorded matters which may be disclosed by an Owner's Affidavit or Declaration. A form of the Owner's Affidavit/Declaration is attached to this Preliminary Report/Commitment. This Affidavit/Declaration is to be completed by the record owner of the land and submitted for review prior to the closing of this transaction. Your prompt attention to this requirement will help avoid delays in the closing of this transaction. Thank you.

   The Company reserves the right to add additional items or make further requirements after review of the requested Affidavit/Declaration.

2. The Company will require either (a) a complete copy of the trust agreement and any amendments thereto certified by the trustee(s) to be a true and complete copy with respect to the hereinafter named trust, or (b) a Certification, pursuant to California Probate Code Section 18100.5, executed by all of the current trustee(s) of the hereinafter named trust, a form of which is attached.

   Name of Trust: **The George Borba Family Trust, dated April 12, 1990 (Restated)**

3. The Company will require either (a) a complete copy of the trust agreement and any amendments thereto certified by the trustee(s) to be a true and complete copy with respect to the hereinafter named trust, or (b) a Certification, pursuant to California Probate Code Section 18100.5, executed by all of the current trustee(s) of the hereinafter named trust, a form of which is attached.

   Name of Trust: **The Survivor's Trust created under the George Borba Family Trust, dated April 12, 1990 (Restated)**

4. The Company will require either (a) a complete copy of the trust agreement and any amendments thereto certified by the trustee(s) to be a true and complete copy with respect to the hereinafter named trust, or (b) a Certification, pursuant to California Probate Code Section 18100.5, executed by all of the current trustee(s) of the hereinafter named trust, a form of which is attached.

   Name of Trust: **The Marital Trust, created under the George Borba Family Trust, dated April 12, 1990 (Restated)**

REQUIREMENTS
(Continued)

5. The Company will require the following documents for review prior to the issuance of any title insurance predicated upon a conveyance or encumbrance from the entity named below:

   Limited Liability Company: **Pocamo, LLC**

   a) A copy of its operating agreement, if any, and any and all amendments, supplements and/or modifications thereto, certified by the appropriate manager or member

   b) If a domestic Limited Liability Company, a copy of its Articles of Organization and all amendments thereto with the appropriate filing stamps

   c) If the Limited Liability Company is member-managed, a full and complete current list of members certified by the appropriate manager or member

   d) A current dated certificate of good standing from the proper governmental authority of the state in which the entity was created

   e) If less than all members, or managers, as appropriate, will be executing the closing documents, furnish evidence of the authority of those signing.

   The Company reserves the right to add additional items or make further requirements after review of the requested documentation.

END OF REQUIREMENTS

INFORMATIONAL NOTES SECTION

1. Note: The policy of title insurance will include an arbitration provision. The Company or the insured may demand arbitration. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. Please ask your escrow or title officer for a sample copy of the policy to be issued if you wish to review the arbitration provisions and any other provisions pertaining to your Title Insurance coverage.

2. Notice: Please be aware that due to the conflict between federal and state laws concerning the cultivation, distribution, manufacture or sale of marijuana, the Company is not able to close or insure any transaction involving Land that is associated with these activities.

END OF INFORMATIONAL NOTES

Ken Cyr & Mark Franklin/rp

FIDELITY NATIONAL FINANCIAL

PRIVACY NOTICE

At Fidelity National Financial, Inc., we respect and believe it is important to protect the privacy of consumers and our customers. This Privacy Notice explains how we collect, use, and protect any information that we collect from you, when and to whom we disclose such information, and the choices you have about the use of that information. A summary of the Privacy Notice is below, and we encourage you to review the entirety of the Privacy Notice following this summary. You can opt-out of certain disclosures by following our opt-out procedure set forth at the end of this Privacy Notice.

Types of Information Collected. You may provide us with certain personal information about you, like your contact information, address demographic information, social security number (SSN), driver's license, passport, other government ID numbers and/or financial information. We may also receive browsing information from your Internet browser, computer and/or mobile device if you visit or use our websites or applications.	**How Information is Collected.** We may collect personal information from you via applications, forms, and correspondence we receive from you and others related to our transactions with you. When you visit our websites from your computer or mobile device, we automatically collect and store certain information available to us through your Internet browser or computer equipment to optimize your website experience.
Use of Collected Information. We request and use your personal information to provide products and services to you, to improve our products and services, and to communicate with you about these products and services. We may also share your contact information with our affiliates for marketing purposes.	**When Information Is Disclosed.** We may disclose your information to our affiliates and/or nonaffiliated parties providing services for you or us, to law enforcement agencies or governmental authorities, as required by law, and to parties whose interest in title must be determined.
Choices With Your Information. Your decision to submit information to us is entirely up to you. You can opt-out of certain disclosure or use of your information or choose to not provide any personal information to us.	**Information From Children.** We do not knowingly collect information from children who are under the age of 13, and our website is not intended to attract children.
Privacy Outside the Website. We are not responsible for the privacy practices of third parties, even if our website links to those parties' websites.	**International Users.** By providing us with your information, you consent to its transfer, processing and storage outside of your country of residence, as well as the fact that we will handle such information consistent with this Privacy Notice.
The California Online Privacy Protection Act. Some FNF companies provide services to mortgage loan servicers and, in some cases, their websites collect information on behalf of mortgage loan servicers. The mortgage loan servicer is responsible for taking action or making changes to any consumer information submitted through those websites.	
Your Consent To This Privacy Notice. By submitting information to us or by using our website, you are accepting and agreeing to the terms of this Privacy Notice.	**Access and Correction; Contact Us.** If you desire to contact us regarding this notice or your information, please contact us at privacy@fnf.com or as directed at the end of this Privacy Notice.

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FIDELITY NATIONAL FINANCIAL, INC.
PRIVACY NOTICE

Fidelity National Financial, Inc. and its majority-owned subsidiary companies providing title insurance, real estate- and loan-related services (collectively, "FNF", "our" or "we") respect and are committed to protecting your privacy. We will take reasonable steps to ensure that your Personal Information and Browsing Information will only be used in compliance with this Privacy Notice and applicable laws. This Privacy Notice is only in effect for Personal Information and Browsing Information collected and/or owned by or on behalf of FNF, including Personal Information and Browsing Information collected through any FNF website, online service or application (collectively, the "Website").

Types of Information Collected
We may collect two types of information from you: Personal Information and Browsing Information.

Personal Information. FNF may collect the following categories of Personal Information:
- contact information (e.g., name, address, phone number, email address);
- demographic information (e.g., date of birth, gender, marital status);
- social security number (SSN), driver's license, passport, and other government ID numbers;
- financial account information; and
- other personal information needed from you to provide title insurance, real estate- and loan-related services to you.

Browsing Information. FNF may collect the following categories of Browsing Information:
- Internet Protocol (or IP) address or device ID/UDID, protocol and sequence information;
- browser language and type;
- domain name system requests;
- browsing history, such as time spent at a domain, time and date of your visit and number of clicks;
- http headers, application client and server banners; and
- operating system and fingerprinting data.

How Information is Collected
In the course of our business, we may collect *Personal Information* about you from the following sources:
- applications or other forms we receive from you or your authorized representative;
- the correspondence you and others send to us;
- information we receive through the Website;
- information about your transactions with, or services performed by, us, our affiliates or nonaffiliated third parties; and
- information from consumer or other reporting agencies and public records maintained by governmental entities that we obtain directly from those entities, our affiliates or others.

If you visit or use our Website, we may collect *Browsing Information* from you as follows:
- Browser Log Files. Our servers automatically log each visitor to the Website and collect and record certain browsing information about each visitor. The Browsing Information includes generic information and reveals nothing personal about the user.
- Cookies. When you visit our Website, a "cookie" may be sent to your computer. A cookie is a small piece of data that is sent to your Internet browser from a web server and stored on your computer's hard drive. When you visit a website again, the cookie allows the website to recognize your computer. Cookies may store user preferences and other information. You can choose whether or not to accept cookies by changing your Internet browser settings, which may impair or limit some functionality of the Website.

Use of Collected Information
Information collected by FNF is used for three main purposes:
- To provide products and services to you or any affiliate or third party who is obtaining services on your behalf or in connection with a transaction involving you.
- To improve our products and services.
- To communicate with you and to inform you about our, our affiliates' and third parties' products and services, jointly or independently.

When Information Is Disclosed
We may provide your Personal Information (excluding information we receive from consumer or other credit reporting agencies) and Browsing Information to various individuals and companies, as permitted by law, without obtaining your prior authorization. Such laws do not allow consumers to restrict these disclosures. Please see the section "Choices With Your Personal Information" to learn how to limit the discretionary disclosure of your Personal Information and Browsing Information.

Disclosures of your Personal Information may be made to the following categories of affiliates and nonaffiliated third parties:
- to third parties to provide you with services you have requested, and to enable us to detect or prevent criminal activity, fraud, material misrepresentation, or nondisclosure;
- to our affiliate financial service providers for their use to market their products or services to you;
- to nonaffiliated third party service providers who provide or perform services on our behalf and use the disclosed information only in connection with such services;
- to nonaffiliated third party service providers with whom we perform joint marketing, pursuant to an agreement with them to market financial products or services to you;
- to law enforcement or other governmental authority in connection with an investigation, or civil or criminal subpoena or court order;
- to lenders, lien holders, judgment creditors, or other parties claiming an interest in title whose claim or interest must be determined, settled, paid, or released prior to closing; and

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- other third parties for whom you have given us written authorization to disclose your Personal Information.

We may disclose Personal Information and/or Browsing Information when required by law or in the good-faith belief that such disclosure is necessary to:

- comply with a legal process or applicable laws;
- enforce this Privacy Notice;
- investigate or respond to claims that any material, document, image, graphic, logo, design, audio, video or any other information provided by you violates the rights of a third party; or
- protect the rights, property or personal safety of FNF, its users or the public.

We maintain reasonable safeguards to keep your Personal Information secure. When we provide Personal Information to our affiliates or third party service providers as discussed in this Privacy Notice, we expect that these parties process such information in compliance with our Privacy Notice or in a manner that is in compliance with applicable privacy laws. The use of your information by a business partner may be subject to that party's own Privacy Notice. Unless permitted by law, we do not disclose information we collect from consumer or credit reporting agencies with our affiliates or others without your consent.

We reserve the right to transfer your Personal Information, Browsing Information, and any other information, in connection with the sale or other disposition of all or part of the FNF business and/or assets, or in the event of our bankruptcy, reorganization, insolvency, receivership or an assignment for the benefit of creditors. You expressly agree and consent to the use and/or transfer of the foregoing information in connection with any of the above described proceedings. We cannot and will not be responsible for any breach of security by a third party or for any actions of any third party that receives any of the information that is disclosed to us.

Choices With Your Information

Whether you submit Personal Information or Browsing Information to FNF is entirely up to you. If you decide not to submit Personal Information or Browsing Information, FNF may not be able to provide certain services or products to you. The uses of your Personal Information and/or Browsing Information that, by law, you cannot limit, include:

- for our everyday business purposes – to process your transactions, maintain your account(s), to respond to law
- enforcement or other governmental authority in connection with an investigation, or civil or criminal subpoenas or court
- orders, or report to credit bureaus;
- for our own marketing purposes;
- for joint marketing with financial companies; and
- for our affiliates' everyday business purposes – information about your transactions and experiences.

You may choose to prevent FNF from disclosing or using your Personal Information and/or Browsing Information under the following circumstances ("opt-out"):

- for our affiliates' everyday business purposes – information about your creditworthiness; and
- for our affiliates to market to you.

To the extent permitted above, you may opt-out of disclosure or use of your Personal Information and Browsing Information by notifying us by one of the methods at the end of this Privacy Notice. We do not share your personal information with non-affiliates for their direct marketing purposes.

For California Residents: We will not share your Personal Information and Browsing Information with nonaffiliated third parties, except as permitted by California law. Currently, our policy is that we do not recognize "do not track" requests from Internet browsers and similar devices.

For Nevada Residents: You may be placed on our internal Do Not Call List by calling (888) 934-3354 or by contacting us via the information set forth at the end of this Privacy Notice. Nevada law requires that we also provide you with the following contact information: Bureau of Consumer Protection, Office of the Nevada Attorney General, 555 E. Washington St., Suite 3900, Las Vegas, NV 89101; Phone number: (702) 486-3132; email: BCPINFO@ag.state.nv.us.

For Oregon Residents: We will not share your Personal Information and Browsing Information with nonaffiliated third parties for marketing purposes, except after you have been informed by us of such sharing and had an opportunity to indicate that you do not want a disclosure made for marketing purposes.

For Vermont Residents: We will not share your Personal Information and Browsing Information with nonaffiliated third parties, except as permitted by Vermont law, such as to process your transactions or to maintain your account. In addition, we will not share information about your creditworthiness with our affiliates except with your authorization. For joint marketing in Vermont, we will only disclose your name, contact information and information about your transactions.

Information From Children

The Website is meant for adults and is not intended or designed to attract children under the age of thirteen (13).We do not collect Personal Information from any person that we know to be under the age of thirteen (13) without permission from a parent or guardian. By using the Website, you affirm that you are over the age of 13 and will abide by the terms of this Privacy Notice.

Privacy Outside the Website

The Website may contain links to other websites. FNF is not and cannot be responsible for the privacy practices or the content of any of those other websites.

International Users

FNF's headquarters is located within the United States. If you reside outside the United States or are a citizen of the European Union, please note that we may transfer your Personal Information and/or Browsing Information outside of your country of residence or the European Union for any of the purposes described in this Privacy Notice. By providing FNF with your Personal Information and/or Browsing Information, you consent to our collection and transfer of such information in accordance with this Privacy Notice.

The California Online Privacy Protection Act

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For some FNF websites, such as the Customer CareNet ("CCN"), FNF is acting as a third party service provider to a mortgage loan servicer. In those instances, we may collect certain information on behalf of that mortgage loan servicer via the website. The information which we may collect on behalf of the mortgage loan servicer is as follows:

- first and last name;
- property address;
- user name and password;
- loan number;
- social security number - masked upon entry;
- email address;
- three security questions and answers; and
- IP address.

The information you submit through the website is then transferred to your mortgage loan servicer by way of CCN. **The mortgage loan servicer is responsible for taking action or making changes to any consumer information submitted through this website. For example, if you believe that your payment or user information is incorrect, you must contact your mortgage loan servicer.**

CCN does not share consumer information with third parties, other than (1) those with which the mortgage loan servicer has contracted to interface with the CCN application, or (2) law enforcement or other governmental authority in connection with an investigation, or civil or criminal subpoenas or court orders. All sections of this Privacy Notice apply to your interaction with CCN, except for the sections titled "Choices with Your Information" and "Access and Correction." If you have questions regarding the choices you have with regard to your personal information or how to access or correct your personal information, you should contact your mortgage loan servicer.

Your Consent To This Privacy Notice

By submitting Personal Information and/or Browsing Information to FNF, you consent to the collection and use of the information by us in compliance with this Privacy Notice. Amendments to the Privacy Notice will be posted on the Website. Each time you provide information to us, or we receive information about you, following any amendment of this Privacy Notice will signify your assent to and acceptance of its revised terms for all previously collected information and information collected from you in the future. We may use comments, information or feedback that you submit to us in any manner that we may choose without notice or compensation to you.

Accessing and Correcting Information; Contact Us

If you have questions, would like to access or correct your Personal Information, or want to opt-out of information sharing with our affiliates for their marketing purposes, please send your requests to privacy@fnf.com or by mail or phone to:

Fidelity National Financial, Inc.
601 Riverside Avenue
Jacksonville, Florida 32204
Attn: Chief Privacy Officer
(888) 934-3354

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Notice of Available Discounts

Pursuant to Section 2355.3 in Title 10 of the California Code of Regulations Fidelity National Financial, Inc. and its subsidiaries ("FNF") must deliver a notice of each discount available under our current rate filing along with the delivery of escrow instructions, a preliminary report or commitment. Please be aware that the provision of this notice does not constitute a waiver of the consumer's right to be charged the field rate. As such, your transaction may not qualify for the below discounts.

You are encouraged to discuss the applicability of one or more of the below discounts with a Company representative. These discounts are generally described below; consult the rate manual for a full description of the terms, conditions and requirements for each discount. These discounts only apply to transaction involving services rendered by the FNF Family of Companies. This notice only applies to transactions involving property improved with a one-to-four family residential dwelling.

FNF Underwritten Title Company
CTC - Chicago Title Company

FNF Underwriter
CTIC - Chicago Title Insurance Company

Available Discounts

CREDIT FOR PRELIMINARY REPORTS AND/OR COMMITMENTS ON SUBSEQUENT POLICIES (CTIC)
Where no major change in the title has occurred since the issuance of the original report or commitment, the order may be reopened within 12 months and all or a portion of the charge previously paid for the report or commitment may be credited on a subsequent policy charge within the following time period from the date of the report.

DISASTER LOANS (CTIC)
The charge for a lender's Policy (Standard or Extended coverage) covering the financing or refinancing by an owner of record, within 24 months of the date of a declaration of a disaster area by the government of the United States or the State of California on any land located in said area, which was partially or totally destroyed in the disaster, will be 50% of the appropriate title insurance rate.

CHURCHES OR CHARITABLE NON-PROFIT ORGANIZATIONS (CTIC)
On properties used as a church or for charitable purposes within the scope of the normal activities of such entities, provided said charge is normally the church's obligation the charge for an owner's policy shall be 50% to 70% of the appropriate title insurance rate, depending on the type of coverage selected. The charge for a lender's policy shall be 40% to 50% of the appropriate title insurance rate, depending on the type of coverage selected.

EMPLOYEE RATE (CTC and CTIC)
No charge shall be made to employees (including employees on approved retirement) of the Company or its underwritten, subsidiary title companies for policies or escrow services in connection with financing, refinancing, sale or purchase of the employees' bona fide home property. Waiver of such charges is authorized only in connection with those costs which the employee would be obligated to pay, by established custom, as a party to the transaction.

ATTACHMENT ONE

CALIFORNIA LAND TITLE ASSOCIATION
STANDARD COVERAGE POLICY – 1990

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)
ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE

EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   a. building;
   b. zoning;
   c. land use;
   d. improvements on the Land;
   e. land division; and
   f. environmental protection.
   This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;

c. that result in no loss to You; or
d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.

5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.

   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:

- For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1.00% % of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less)	$ 10,000.00
Covered Risk 18:	1.00% % of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 19:	1.00% of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 21:	1.00% of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less)	$ 5,000.00

2006 ALTA LOAN POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;
   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13 or 14); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

(Except as provided in Schedule B - Part II,(t(or T)his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

(PART I

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.

PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:)

2006 ALTA OWNER'S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;
   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
   (a) a fraudulent conveyance or fraudulent transfer; or
   (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:
(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.
7. (Variable exceptions such as taxes, easements, CC&R's, etc. shown here.)

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (12-02-13)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;
   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Order: 250110149
Doc: SB:A 1054-8

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Page 1 of 1

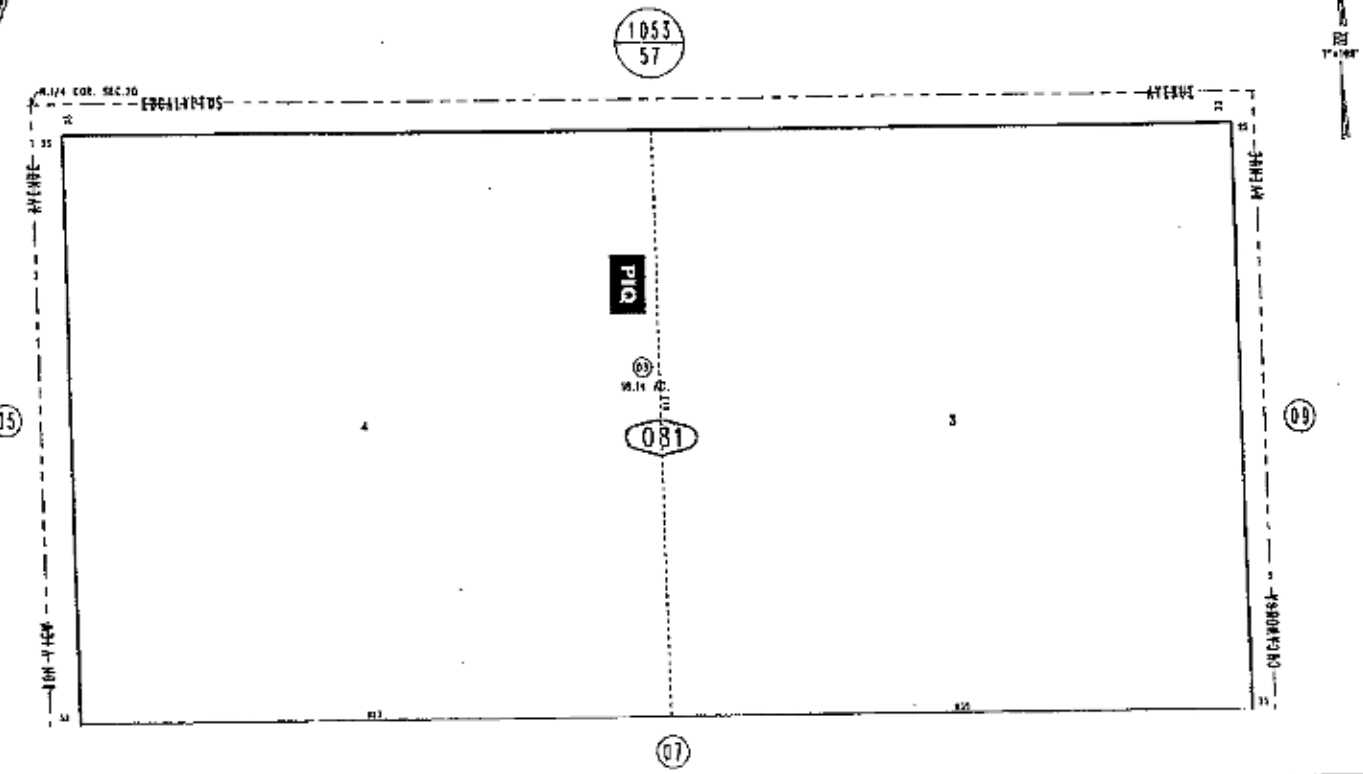
Requested By: dschaefer, Printed: 7/11/2017 12:53 PM

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Ptn. Rancho Santa Ana Del Chino, M.B. 6/15

City of Ontario
Tax Rate Area
4074

1054 - 08



October 2004

Ptn. N.E.1/4, Sec.20
T.2S.,R.7W.

Assessor's Map
Book 1054 Page 08
San Bernardino County

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

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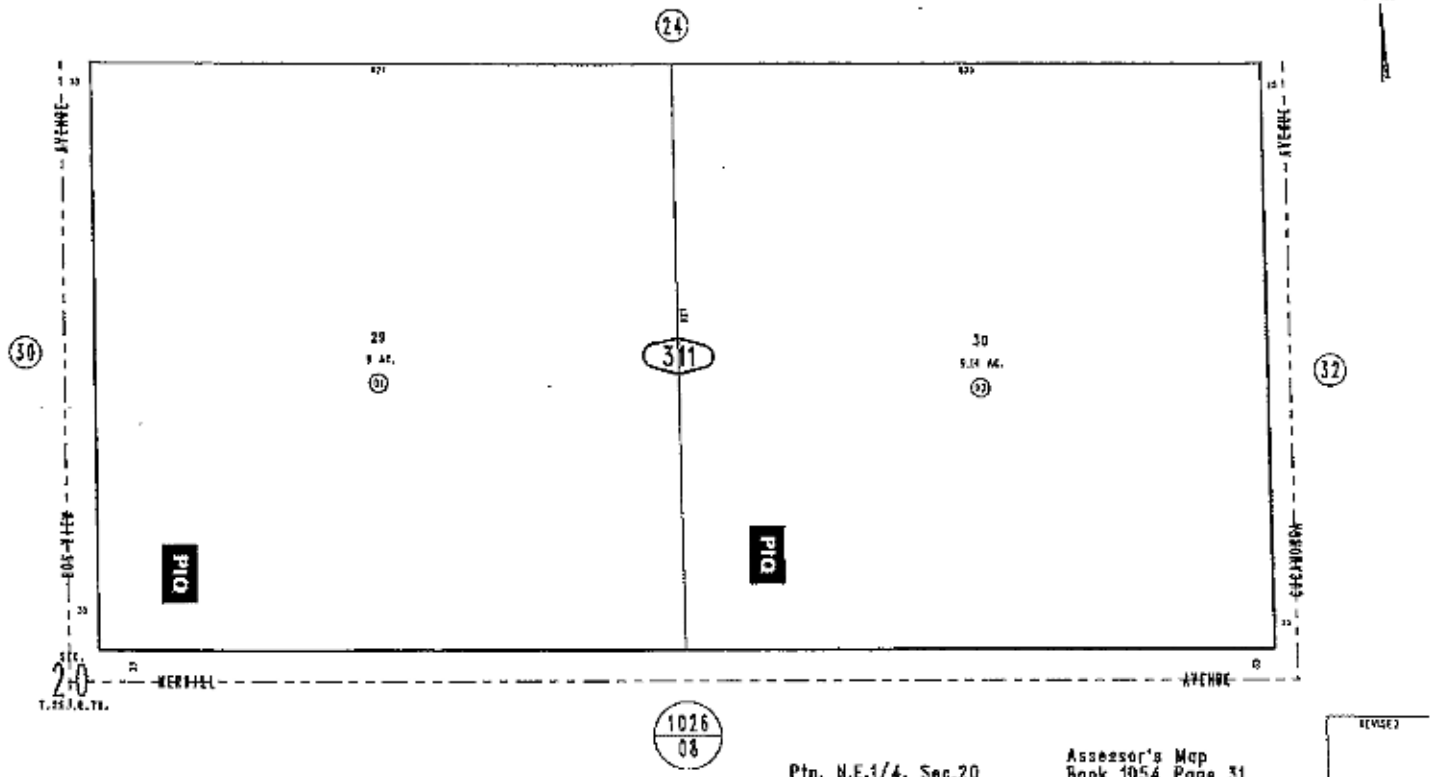
THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Ptn. Rancho Santa Ana Del Chino, M.B. 6/15

City of Ontario
Tax Rate Area
4074

1054 - 31



October 2004

Ptn. N.E.1/4, Sec.20
T.2S.,R.7W.

Assessor's Map
Book 1054 Page 31
San Bernardino County

REVISED

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

Order: 25010449
Doc: SB:A 1054-31

Page 1 of 1

Requested By: c.schairer, Printed: 7/11/2017 12:54 PM

APPENDIX B
SITE PHOTOGRAPHS

1. View looking southwest on Site at aboveground storage tank at 7955 Eucalyptus Ave (APN 105-409-101)

2. View looking south at Barn on APN 105-409-102 and APN 105-410-102.

Property Photographs

3. View looking southwest at tank used to store old oil from tractors on 7721 Eucalyptus Ave (APN 105-408-103)

4. View looking south at part of dairy farm on APN 105-410-101.

Property Photographs

5. View looking northeast on 7955 Eucalyptus Ave (APN 105-409-101) at water storage tank.

6. View on interior looking at dairy equipment and pipes in barn on 7955 Eucalyptus Ave (APN 105-409-101).

Property Photographs

7. View within dairy barn on 7955 Eucalyptus Ave (APN 105-409-101) at 55-gallon drums used to store chlorine, acid, and soap for pipe cleaning.

8. View looking southwest at dairy barn on 7955 Eucalyptus Ave (APN 105-409-101) at grain feeder.

Property Photographs

9. View looking west at pasture field (within picture APNs 105-408-103, 105-407-101, 105-407-102)

10. View looking south/southwest at western-adjacent dairy farm (7565 Eucalyptus Ave).

Property Photographs

11. View looking south at Chino Airport located on 7000 Merrill Ave, Chino, CA.

12. View looking north at north-adjacent dairy farm located on 14474 Grove Ave.

Property Photographs

13. View looking north from Merrill Ave at pond system for manure water.

14. View looking southeast at house located on 7955 Eucalyptus Ave.

Property Photographs

15. Additional photo of 2,000-gallon AST and 240-gallon AST.

16. View looking south at chicken coop located in the northwestern portion of the Site.

Property Photographs

APPENDIX C

ENVIRONMENTAL DATA RESOURCES, INC. REPORT
(RADIUS SEARCH MAP, SANBORN MAPS, AERIAL PHOTOGRAPHS,
TOPOGRAPHIC MAPS, & CITY DIRECTORIES)

George Borba Site
7955 Eucalyptus Ave
Chino, CA 91710

Inquiry Number: 5440037.2s
October 01, 2018

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
Map Findings Summary	4
Map Findings	8
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Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

7955 EUCALYPTUS AVE
CHINO, CA 91710

COORDINATES

Latitude (North):	33.9894490 - 33° 59' 22.01''
Longitude (West):	117.6312680 - 117° 37' 52.56''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	441694.8
UTM Y (Meters):	3760971.2
Elevation:	671 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640938 PRADO DAM, CA
Version Date:	2012
Northeast Map:	5620426 GUASTI, CA
Version Date:	2012
Southeast Map:	5640930 CORONA NORTH, CA
Version Date:	2012
Northwest Map:	5619074 ONTARIO, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
7955 EUCALYPTUS AVE
CHINO, CA 91710

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	GEORGE BORBA & SON D	7955 EUCALYPTUS AVEN	AST, ENF, San Bern. Co. Permit, CIWQS		TP
A2	GEORGE BORBA DAIRY	7955 EUCALYPTUS	CA FID UST		TP
A3	GEORGE BORBA DAIRY	7955 EUCALYPTUS	SWEEPS UST, FINDS, ECHO		TP
A4	GEORGE BORBA	7955 EUCALYPTUS AVE	HIST UST		TP
A5	GEORGE BORBA & SONS	7955 EUCALYPTUS AVE	HAZNET		TP
A6	GEORGE BORBA & SON D	7955 EUCALYPTUS	NPDES, WDS, CIWQS		TP
A7	GEORGE BORBA & SON D	7955 EUCALYPTUS AVE	EMI		TP
B8	AURORA FARMS	14746 GROVE	FINDS	Lower	1 ft.
B9	BOERSMA INC.	14746 GROVE	CIWQS	Lower	1 ft.
B10	AURORA FARMS	14746 GROVE	CIWQS	Lower	1 ft.
B11	BOERSMA INC.	14746 GROVE	FINDS	Lower	1 ft.
B12	HARRY BOERSMA DAIRY	14746 GROVE	San Bern. Co. Permit	Lower	33, 0.006, SE
C13	JOE BORBA DAIRY # 2	14545 S GROVE AVE	San Bern. Co. Permit	Higher	38, 0.007, East
C14	PRIVATE RESIDENCE	PRIVATE RESIDENCE	LUST	Higher	54, 0.010, East
15	HARINGA FARMS	14848 S GROVE AVE	San Bern. Co. Permit	Lower	293, 0.055, SSE
16	O & M DAIRY	14474 GROVE AVE	San Bern. Co. Permit, CIWQS	Higher	397, 0.075, NE
17	AG-COSTA VIEW FARM	14451 BON VIEW	SWEEPS UST, CA FID UST, ENF, CIWQS	Higher	531, 0.101, WNW
18	JOE FERREIRA JR DAIR	14400 S GROVE AVE	San Bern. Co. Permit	Higher	724, 0.137, NE
19	CHINO VALLEY DAIRY #	7565 EUCALYPTUS AVEN	ENF, San Bern. Co. Permit, CIWQS	Lower	1015, 0.192, West
20	ALEWYN DAIRY #3	14361 GROVE	ENF, San Bern. Co. Permit, CIWQS	Higher	1031, 0.195, NE
D21	CAL-AERO FIELD / ACA		ENVIROSTOR	Lower	1156, 0.219, SW
D22	FLITE CRAFTENT	7000 MERRILL	RCRA-SQG	Lower	1185, 0.224, SW
D23	AG-MURRAY, DONALD L.	7000 MERRILL AVE	UST, San Bern. Co. Permit	Lower	1185, 0.224, SW
D24	BANNER AIRLINES	7000 MERRILL AVE #19	RCRA-SQG	Lower	1185, 0.224, SW
D25	AERO TRADER	7000 MERRILL AVE HAN	RCRA-SQG	Lower	1185, 0.224, SW
D26	JET CONNECT SERVICES	7000 MERRILL AVE BOX	San Bern. Co. Permit	Lower	1185, 0.224, SW
D27	YANKS AIR CORPS	7000 MERRILL AVE HGR	San Bern. Co. Permit	Lower	1185, 0.224, SW
D28	FLITE CRAFTENT	7000 MERRILL	RCRA-SQG, FINDS, ECHO	Lower	1185, 0.224, SW
D29	SOUTHERN CALIFORNIA	7000 MERRILL AVE	RCRA-LQG	Lower	1185, 0.224, SW
D30	CHINO AIRPORT RADIUM	7000 MERRILL AVE	SEMS, PRP	Lower	1185, 0.224, SW
D31	CHINO AIRPORT	7000 MERRILL AVE	SWEEPS UST, HIST UST	Lower	1185, 0.224, SW
D32	CHINO ROAD YARD	7000 MERRILL AVE	HIST UST	Lower	1185, 0.224, SW
D33	SO CALIF EDISON AIRC	7000 MERRILL AVE HAN	RCRA-SQG, FINDS, ECHO	Lower	1185, 0.224, SW
D34	BUTTERFIELD AIRPLANE	7000 MERRILL HGR #1	RCRA-SQG, FINDS, ECHO	Lower	1185, 0.224, SW
D35	UNLIMITED AIRCRAFT I	7000 MERRILL BOX 27	RCRA-SQG, FINDS, ECHO	Lower	1185, 0.224, SW
D36	CHINO AIRPORT NAPALM	7000 MERRILL AVENUE	SEMS	Lower	1185, 0.224, SW
D37	CHINO ROADYARD	7000 MERRILL AVE	HIST UST	Lower	1185, 0.224, SW
D38	ROGERS AVIATION	7000 MERRILL AVE HGR	San Bern. Co. Permit	Lower	1185, 0.224, SW
D39	SILVER STATE HELICOP	7000 MERRILL AVE A-2	San Bern. Co. Permit	Lower	1185, 0.224, SW

MAPPED SITES SUMMARY

Target Property Address:
7955 EUCALYPTUS AVE
CHINO, CA 91710

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
D40	SB COUNTY MAINTENANC	7000 MERRILL AVE.	AST	Lower	1185, 0.224, SW
D41	AERO TRADER	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
D42	AIRCRAFTSMAN	7000 MERRILL HGR AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
D43	VAN'S MOBILE TRUCK S	7000 MERRILL AVE	CPS-SLIC, San Bern. Co. Permit	Lower	1185, 0.224, SW
D44	TOM KING AERIAL	7000 MERRILL AVE BOX	San Bern. Co. Permit	Lower	1185, 0.224, SW
D45	CENTURY AIRCRAFT PAI	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
D46	NU VISTA AVIATION	7000 MERRILL AVE BLD	San Bern. Co. Permit	Lower	1185, 0.224, SW
D47	SBC/CHINO AIRPORT	7000 MERRILL AVE BLD	San Bern. Co. Permit	Lower	1185, 0.224, SW
D48	CHINO AVIATION	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
D49	CHAMPIONSHIP AVIATIO	7000 MERRILL AVE HGR	AST	Lower	1185, 0.224, SW
D50	MILITARY AIRCRAFT RE	7000 MERRILL AVE A48	San Bern. Co. Permit	Lower	1185, 0.224, SW
D51	SAN BDNO COUNTY/CHIN	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
D52	SOUTHERN CALIFORNIA	7000 MERRILL AVE, BO	AST	Lower	1185, 0.224, SW
D53	SQUARE ONE AVIATION	7000 MERRILL AVE BX	San Bern. Co. Permit	Lower	1185, 0.224, SW
D54	CHINO ROAD YARD	7000 MERRILL AVE	AST, SWEEPS UST, HIST UST, CA FID UST, Cortese,...	Lower	1185, 0.224, SW
D55	ENCORE JET CENTER	7000 MERRILL AVE A-2	San Bern. Co. Permit	Lower	1185, 0.224, SW
D56	CORONA AERO REFINISH	7000 MERRILL AVE 24	San Bern. Co. Permit	Lower	1185, 0.224, SW
D57	CAL AERO JET CENTER	7000 MERRILL AVE B-3	San Bern. Co. Permit	Lower	1185, 0.224, SW
D58	CHAMPION JETS INC	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
D59	AIRCRAFTSMAN, INC	7000 MERRILL AVE HNG	San Bern. Co. Permit	Lower	1185, 0.224, SW
D60	NORTH ORANGE AVIATIO	7000 MERRILL AVE HGR	San Bern. Co. Permit	Lower	1185, 0.224, SW
D61	INLAND VALLEY AVIATI	7000 MERRILL AVE UNI	San Bern. Co. Permit	Lower	1185, 0.224, SW
D62	FAA CNO ATCT	7000 MERRILL AVE	San Bern. Co. Permit	Lower	1185, 0.224, SW
D63	AERO TRADER	7000 MERRILL AV, #19	CPS-SLIC, EMI, HAZNET, San Bern. Co. Permit	Lower	1185, 0.224, SW
64	CAL-AERO AIRPORT		ENVIROSTOR	Lower	3045, 0.577, SSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
GEORGE BORBA & SON D 7955 EUCALYPTUS AVEN ONTARIO, CA 91762	AST Database: AST, Date of Government Version: 07/06/2016 ENF Facility Id: 630618 Status: Historical Status: Active San Bern. Co. Permit Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0000455 CIWQS	N/A
GEORGE BORBA DAIRY 7955 EUCALYPTUS CHINO, CA 91710	CA FID UST Facility Id: 36009263 Status: A	N/A
GEORGE BORBA DAIRY 7955 EUCALYPTUS CHINO, CA 91710	SWEEPS UST Status: A Tank Status: A Comp Number: 66993 FINDS Registry ID:: 110006784756 ECHO Registry ID: 110006784756	N/A
GEORGE BORBA 7955 EUCALYPTUS AVE CHINO, CA 91710	HIST UST Facility Id: 00000066993	N/A
GEORGE BORBA & SONS 7955 EUCALYPTUS AVE CHINO, CA 91710	HAZNET GEPAID: CAC001082128	N/A
GEORGE BORBA & SON D 7955 EUCALYPTUS CHINO, CA 91710	NPDES WDS Facility Status: A Facility Id: 8 365291001 CIWQS	N/A
GEORGE BORBA & SON D 7955 EUCALYPTUS AVE ONTARIO, CA 91762	EMI	N/A

EXECUTIVE SUMMARY

Facility Id: 145111

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---- Underground Storage Tank Listing
INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---- Waste Management Unit Database
SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
CDL ---- Clandestine Drug Labs
Toxic Pits ---- Toxic Pits Cleanup Act Sites
US CDL ---- National Clandestine Laboratory Register
CERS HAZ WASTE ---- CERS HAZ WASTE

Local Lists of Registered Storage Tanks

CERS TANKS ---- California Environmental Reporting System (CERS) Tanks

EXECUTIVE SUMMARY

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List

DRYCLEANERS Cleaner Facilities
Financial Assurance Financial Assurance Information Listing
ICE ICE
HIST CORTESE Hazardous Waste & Substance Site List
HWP EnviroStor Permitted Facilities Listing
HWT Registered Hazardous Waste Transporter Database
MINES Mines Site Location Listing
MWMP Medical Waste Management Program Listing
PEST LIC Pesticide Regulation Licenses Listing
PROC Certified Processors Database
Notify 65 Proposition 65 Records
UIC UIC Listing
WASTEWATER PITS Oil Wastewater Pits Listing
WIP Well Investigation Program Case List
NON-CASE INFO NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
PROJECT PROJECT (GEOTRACKER)
SAMPLING POINT SAMPLING POINT (GEOTRACKER)
UIC GEO UIC GEO (GEOTRACKER)
WELL STIM PROJ Well Stimulation Project (GEOTRACKER)
CERS CERS
MILITARY PRIV SITES MILITARY PRIV SITES (GEOTRACKER)
WDR Waste Discharge Requirements Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF Recovered Government Archive Solid Waste Facilities List
RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 07/17/2018 has revealed that there are 2 SEMS sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO AIRPORT RADIUM Site ID: 0906127 EPA Id: CAN000906127	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D30***	***53***
CHINO AIRPORT NAPALM Site ID: 0908946 EPA Id: CAN000908946	7000 MERRILL AVENUE	SW 1/8 - 1/4 (0.224 mi.)	D36	64

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOUTHERN CALIFORNIA EPA ID:: CAR000220640	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D29	51

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 7 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FLITE CRAFTENT EPA ID:: CAD982473696	7000 MERRILL	SW 1/8 - 1/4 (0.224 mi.)	D22	44
BANNER AIRLINES EPA ID:: CAD982474124	7000 MERRILL AVE #19	SW 1/8 - 1/4 (0.224 mi.)	D24	46
AERO TRADER EPA ID:: CAD982473910	7000 MERRILL AVE HAN	SW 1/8 - 1/4 (0.224 mi.)	D25	47
FLITE CRAFTENT EPA ID:: CAD982473563	***7000 MERRILL***	***SW 1/8 - 1/4 (0.224 mi.)***	***D28***	***49***
SO CALIF EDISON AIRC EPA ID:: CAD981689854	***7000 MERRILL AVE HAN***	***SW 1/8 - 1/4 (0.224 mi.)***	***D33***	***59***
BUTTERFIELD AIRPLANE EPA ID:: CAD982473936	***7000 MERRILL HGR #1***	***SW 1/8 - 1/4 (0.224 mi.)***	***D34***	***60***
UNLIMITED AIRCRAFT I EPA ID:: CAD982474066	***7000 MERRILL BOX 27***	***SW 1/8 - 1/4 (0.224 mi.)***	***D35***	***62***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/30/2018 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CAL-AERO FIELD / ACA Facility Id: 80000986 Status: Inactive - Needs Evaluation		SW 1/8 - 1/4 (0.219 mi.)	D21	42
CAL-AERO AIRPORT Facility Id: 80000207 Status: Inactive - Needs Evaluation		SSW 1/2 - 1 (0.577 mi.)	64	92

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within

approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PRIVATE RESIDENCE	PRIVATE RESIDENCE	E 0 - 1/8 (0.010 mi.)	C14	25
Database: LUST, Date of Government Version: 06/11/2018				
Status: Completed - Case Closed				
Global Id: T0607175289				

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
VAN'S MOBILE TRUCK S	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D43***	***67***
Database: CPS-SLIC, Date of Government Version: 06/11/2018				
Facility Status: Completed - Case Closed				
Global Id: T10000002398				
AERO TRADER	***7000 MERRILL AV, #19***	***SW 1/8 - 1/4 (0.224 mi.)***	***D63***	***83***
Database: CPS-SLIC, Date of Government Version: 06/11/2018				
Facility Status: Open - Remediation				
Global Id: SL208634049				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AG-MURRAY, DONALD L.	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D23***	***45***
Database: UST, Date of Government Version: 06/11/2018				
Facility Id: 95036944				
Facility Id: FA0002968				
Facility Id: 87012670				
Facility Id: 98045919				
Facility Id: 87014446				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 4 AST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SB COUNTY MAINTENANC Database: AST, Date of Government Version: 07/06/2016	7000 MERRILL AVE.	SW 1/8 - 1/4 (0.224 mi.)	D40	66
CHAMPIONSHIP AVIATIO Database: AST, Date of Government Version: 07/06/2016	7000 MERRILL AVE HGR	SW 1/8 - 1/4 (0.224 mi.)	D49	72
SOUTHERN CALIFORNIA Database: AST, Date of Government Version: 07/06/2016	7000 MERRILL AVE, BO	SW 1/8 - 1/4 (0.224 mi.)	D52	73
CHINO ROAD YARD Database: AST, Date of Government Version: 07/06/2016	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D54***	***74***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AG-COSTA VIEW FARM Status: A Tank Status: A Comp Number: 44727	***14451 BON VIEW***	***WNW 0 - 1/8 (0.101 mi.)***	***17***	***29***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO AIRPORT Status: A Tank Status: A Comp Number: 10545	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D31***	***54***
CHINO ROAD YARD Status: A Tank Status: A Comp Number: 8707	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D54***	***74***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 4 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO AIRPORT Facility Id: 00000010545	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D31***	***54***
CHINO ROAD YARD Facility Id: 00000031581 Facility Id: 00000065869	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D32	58
CHINO ROADYARD Facility Id: 00000008707	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D37	64
CHINO ROAD YARD	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D54***	***74***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AG-COSTA VIEW FARM Facility Id: 36009015 Status: A	***14451 BON VIEW***	***WNW 0 - 1/8 (0.101 mi.)***	***17***	***29***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO ROAD YARD Facility Id: 36002274 Status: A	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D54***	***74***

Other Ascertainable Records

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/21/2018 has revealed that there are 2 FINDS sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AURORA FARMS Registry ID:: 110065010972	14746 GROVE	0 - 1/8 (0.000 mi.)	B8	22
BOERSMA INC.	14746 GROVE	0 - 1/8 (0.000 mi.)	B11	23

EXECUTIVE SUMMARY

Registry ID:: 110065700450

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 06/25/2018 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHINO ROAD YARD	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D54***	***74***

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 07/27/2018 has revealed that there are 33 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOE BORBA DAIRY # 2 Facility Status: INACTIVE Facility Id: FA0000513	14545 S GROVE AVE	E 0 - 1/8 (0.007 mi.)	C13	24
O & M DAIRY Facility Status: INACTIVE Facility Id: FA0010952 Facility Id: FA0000566	***14474 GROVE AVE***	***NE 0 - 1/8 (0.075 mi.)***	***16***	***27***
JOE FERREIRA JR DAIR Facility Status: INACTIVE Facility Id: FA0000515	14400 S GROVE AVE	NE 1/8 - 1/4 (0.137 mi.)	18	35
ALEWYN DAIRY #3 Facility Status: INACTIVE Facility Id: FA0000511	***14361 GROVE***	***NE 1/8 - 1/4 (0.195 mi.)***	***20***	***40***

Lower Elevation	Address	Direction / Distance	Map ID	Page
HARRY BOERSMA DAIRY Facility Status: INACTIVE Facility Id: FA0000480	14746 GROVE	SE 0 - 1/8 (0.006 mi.)	B12	23
HARINGA FARMS Facility Status: INACTIVE Facility Id: FA0000478	14848 S GROVE AVE	SSE 0 - 1/8 (0.055 mi.)	15	27
CHINO VALLEY DAIRY # Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0013590 Facility Id: FA0011040 Facility Id: FA0000529	***7565 EUCALYPTUS AVEN***	***W 1/8 - 1/4 (0.192 mi.)***	***19***	***35***
AG-MURRAY, DONALD L. Facility Status: INACTIVE Facility Id: FA0000576	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D23***	***45***
JET CONNECT SERVICES	7000 MERRILL AVE BOX	SW 1/8 - 1/4 (0.224 mi.)	D26	48

Facility Status: INACTIVE Facility Id: FA0013010				
YANKS AIR CORPS Facility Status: ACTIVE Facility Id: FA0007356	7000 MERRILL AVE HGR	SW 1/8 - 1/4 (0.224 mi.)	D27	49
ROGERS AVIATION Facility Status: INACTIVE Facility Id: FA0005784	7000 MERRILL AVE HGR	SW 1/8 - 1/4 (0.224 mi.)	D38	65
SILVER STATE HELICOP Facility Status: INACTIVE Facility Id: FA0011377	7000 MERRILL AVE A-2	SW 1/8 - 1/4 (0.224 mi.)	D39	66
AERO TRADER Facility Status: ACTIVE Facility Id: FA0000315	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D41	67
AIRCRAFTSMAN Facility Status: INACTIVE Facility Id: FA0000752	7000 MERRILL HGR AVE	SW 1/8 - 1/4 (0.224 mi.)	D42	67
VAN'S MOBILE TRUCK S Facility Status: INACTIVE Facility Id: FA0010632 Facility Id: FA0000826	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D43***	***67***
TOM KING AERIAL Facility Status: INACTIVE Facility Id: FA0000313	7000 MERRILL AVE BOX	SW 1/8 - 1/4 (0.224 mi.)	D44	69
CENTURY AIRCRAFT PAI Facility Status: ACTIVE Facility Id: FA0001669	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D45	70
NU VISTA AVIATION Facility Status: INACTIVE Facility Id: FA0011767	7000 MERRILL AVE BLD	SW 1/8 - 1/4 (0.224 mi.)	D46	70
SBC/CHINO AIRPORT Facility Status: INACTIVE Facility Id: FA0007715 Facility Id: FA0012706	7000 MERRILL AVE BLD	SW 1/8 - 1/4 (0.224 mi.)	D47	70
CHINO AVIATION Facility Status: INACTIVE Facility Id: FA0010623	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D48	71
MILITARY AIRCRAFT RE Facility Status: INACTIVE Facility Id: FA0004729	7000 MERRILL AVE A48	SW 1/8 - 1/4 (0.224 mi.)	D50	72
SAN BDNO COUNTY/CHIN Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0002372	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D51	73
SQUARE ONE AVIATION Facility Status: INACTIVE Facility Id: FA0006363	7000 MERRILL AVE BX	SW 1/8 - 1/4 (0.224 mi.)	D53	74
CHINO ROAD YARD Facility Status: ACTIVE	***7000 MERRILL AVE***	***SW 1/8 - 1/4 (0.224 mi.)***	***D54***	***74***

Facility Status: INACTIVE Facility Id: FA0002277				
ENCORE JET CENTER Facility Status: ACTIVE Facility Id: FA0002968	7000 MERRILL AVE A-2	SW 1/8 - 1/4 (0.224 mi.)	D55	80
CORONA AERO REFINISH Facility Status: INACTIVE Facility Id: FA0002505	7000 MERRILL AVE 24	SW 1/8 - 1/4 (0.224 mi.)	D56	80
CAL AERO JET CENTER Facility Status: INACTIVE Facility Id: FA0006862	7000 MERRILL AVE B-3	SW 1/8 - 1/4 (0.224 mi.)	D57	81
CHAMPION JETS INC Facility Status: INACTIVE Facility Id: FA0010634	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D58	81
AIRCRAFTSMAN, INC Facility Status: INACTIVE Facility Id: FA0012605	7000 MERRILL AVE HNG	SW 1/8 - 1/4 (0.224 mi.)	D59	82
NORTH ORANGE AVIATIO Facility Status: INACTIVE Facility Id: FA0004997	7000 MERRILL AVE HGR	SW 1/8 - 1/4 (0.224 mi.)	D60	82
INLAND VALLEY AVIATI Facility Status: ACTIVE Facility Id: FA0012712	7000 MERRILL AVE UNI	SW 1/8 - 1/4 (0.224 mi.)	D61	83
FAA CNO ATCT Facility Status: ACTIVE Facility Id: FA0003024	7000 MERRILL AVE	SW 1/8 - 1/4 (0.224 mi.)	D62	83
AERO TRADER Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0017228 Facility Id: FA0003212 Facility Id: FA0017000 Facility Id: FA0012994 Facility Id: FA0007572	***7000 MERRILL AV, #19***	***SW 1/8 - 1/4 (0.224 mi.)***	***D63***	***83***

CIWQS: The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

A review of the CIWQS list, as provided by EDR, and dated 06/04/2018 has revealed that there are 2 CIWQS sites within approximately 0.001 miles of the target property.

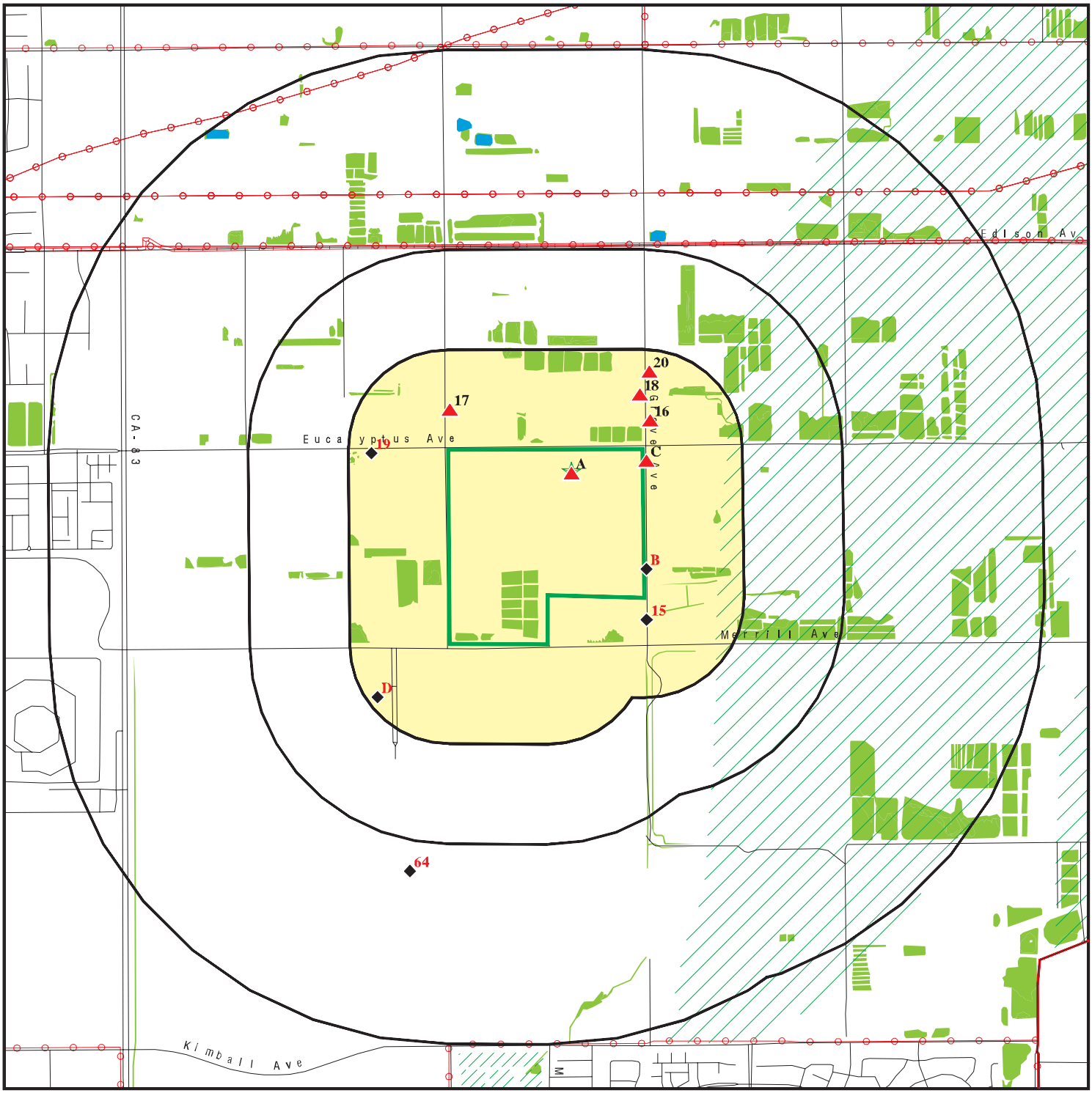
Lower Elevation	Address	Direction / Distance	Map ID	Page
BOERSMA INC.	14746 GROVE	0 - 1/8 (0.000 mi.)	B9	22
AURORA FARMS	14746 GROVE	0 - 1/8 (0.000 mi.)	B10	23

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

Site Name	Database(s)
	CDL
	CDL
	CDL
	CDL
	CDL
	CDL
SO CAL GAS/ONTARIO MGP	EDR MGP

OVERVIEW MAP - 5440037.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	George Borba Site	CLIENT:	Group Delta Consultants
ADDRESS:	7955 Eucalyptus Ave Chino CA 91710	CONTACT:	Elaine Horng
LAT/LONG:	33.989449 / 117.631268	INQUIRY #:	5440037.2s
		DATE:	October 01, 2018 4:32 pm

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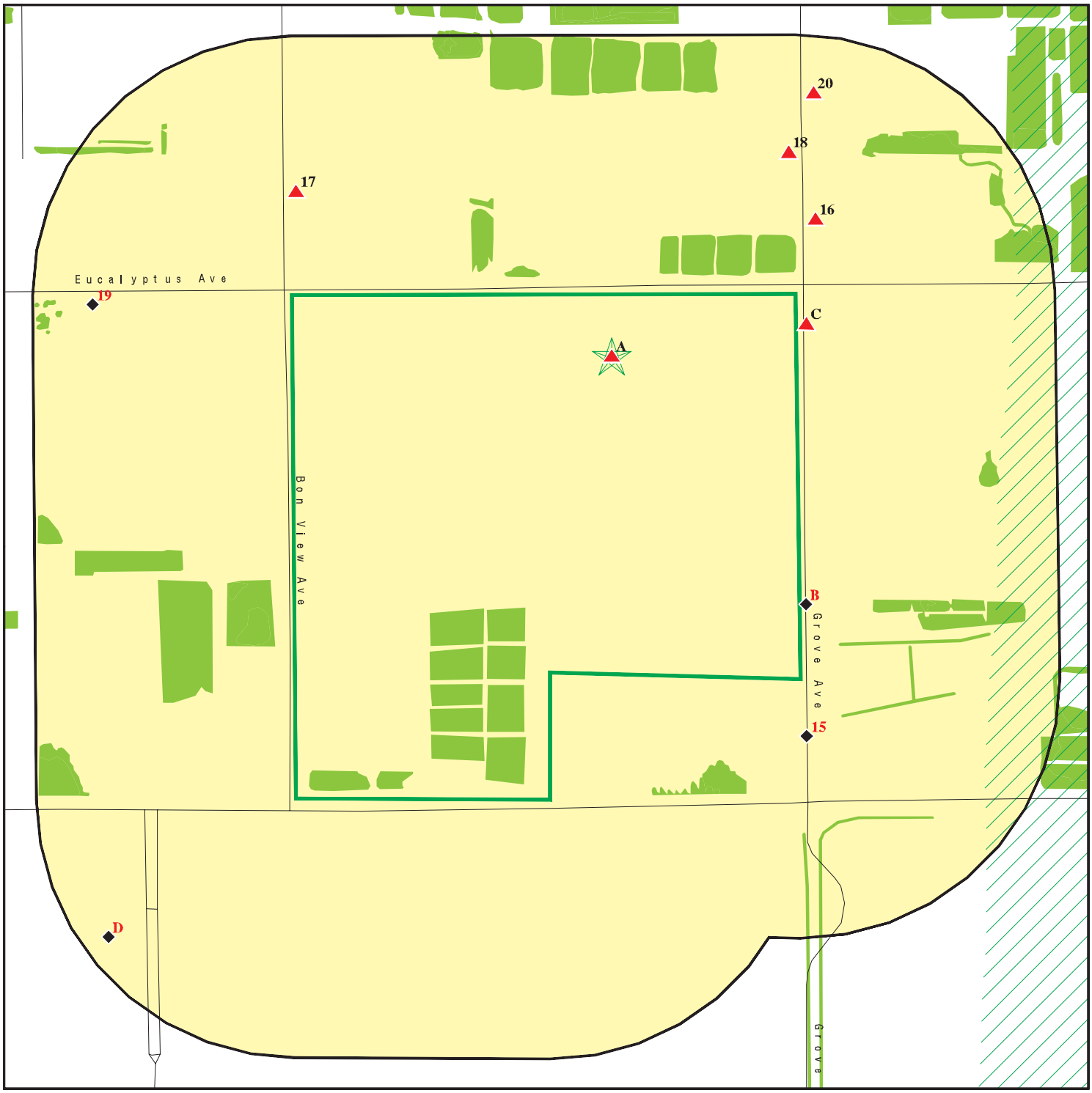
DETAIL MAP - 5440037.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/8 1/4 1/2 Miles

- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	George Borba Site	CLIENT:	Group Delta Consultants
ADDRESS:	7955 Eucalyptus Ave Chino CA 91710	CONTACT:	Elaine Horng
LAT/LONG:	33.989449 / 117.631268	INQUIRY #:	5440037.2s
		DATE:	October 01, 2018 4:38 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	2	0	NR	NR	2
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		0	7	NR	NR	NR	7
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	1	0	1	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		1	0	0	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	2	0	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250	1	0	4	NR	NR	NR	5
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	1	2	NR	NR	NR	4
HIST UST	0.250	1	0	4	NR	NR	NR	5
CA FID UST	0.250	1	1	1	NR	NR	NR	3
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	1	2	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	1	0	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	0.001	1	0	NR	NR	NR	NR	1
ENF	0.001	1	0	NR	NR	NR	NR	1
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	1	0	NR	NR	NR	NR	1
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001	1	0	NR	NR	NR	NR	1
San Bern. Co. Permit	0.250	1	4	29	NR	NR	NR	34
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001	1	0	NR	NR	NR	NR	1
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001	2	2	NR	NR	NR	NR	4
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		14	11	55	0	1	0	81

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **GEORGE BORBA & SON DAIRY** **AST** **S108536441**
Target **7955 EUCALYPTUS AVENUE** **ENF** **N/A**
Property **ONTARIO, CA 91762** **San Bern. Co. Permit**
CIWQS

Site 1 of 7 in cluster A

Actual:
671 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	GEORGE BORBA & SON DAIRY
Total Gallons:	Not reported
CERSID:	10034668
Facility ID:	FA0000455
Business Name:	GEORGE BORBA & SON DAIRY
Phone:	(909) 597-2568
Fax:	(909) 393-3283
Mailing Address:	7955 EUCALYPTUS
Mailing Address City:	ONTARIO
Mailing Address State:	CA
Mailing Address Zip Code:	91762
Operator Name:	George Borba
Operator Phone:	909-597-2568
Owner Phone:	909-597-2568
Owner Mail Address:	7955 EUCALYPTUS
Owner State:	CA
Owner Zip Code:	91762
Owner Country:	United States
Property Owner Name:	George Borba
Property Owner Phone:	909-597-2568
Property Owner Mailing Address:	7955 Eucalyptus Ave
Property Owner City:	Ontario
Property Owner Stat :	Ca
Property Owner Zip Code:	91762
Property Owner Country:	United States
EPAID:	CAL000307535

ENF:

Region:	8
Facility Id:	630618
Agency Name:	Borba, George
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.989440000000
Place Longitude:	-117.63126
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1

GEORGE BORBA & SON DAIRY (Continued) **S108536441**

Source Of Facility:	Reg Meas
Design Flow:	0.0001
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365291001
Reg Measure Id:	211628
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2013-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	07/23/2009
Effective Date:	04/13/1984
Expiration/Review Date:	06/01/2018
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	391911
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	08/08/2012
Adoption/Issuance Date:	08/08/2012
Achieve Date:	Not reported
Termination Date:	08/08/2012
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 08/08/2012 for Borba, George
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0

GEORGE BORBA & SON DAIRY (Continued) **S108536441**

Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	8
Facility Id:	630618
Agency Name:	Borba, George
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.989440000000
Place Longitude:	-117.63126
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.0001
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365291001
Reg Measure Id:	211628
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2013-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	07/23/2009

GEORGE BORBA & SON DAIRY (Continued) **S108536441**

Effective Date:	04/13/1984
Expiration/Review Date:	06/01/2018
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	347185
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	12/12/2007
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	12/12/2007
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Comm 12/12/2007
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0000455
Owner:	GEORGE BORBA & SON DAIRY
Permit Number:	PT0018955
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	05/31/2019

Region:	SAN BERNARDINO
Facility ID:	FA0000455
Owner:	GEORGE BORBA & SON DAIRY
Permit Number:	PT0018956
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	05/31/2019

Region:	SAN BERNARDINO
Facility ID:	FA0000455
Owner:	GEORGE BORBA & SON DAIRY

GEORGE BORBA & SON DAIRY (Continued) **S108536441**

Permit Number: PT0026616
Permit Category: APSA FARM/CONSTRUCTION CONDITIONALLY EXEMPT
Facility Status: INACTIVE
Expiration Date: 05/31/2019

CIWQS:

Agency:	Borba, George
Agency Address:	14461 Taft Highway, Bakersfield, CA 93311
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	Not reported
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Active
Regulatory Measure Type:	Enrollee
Order Number:	R8-2013-0001
WDID:	8 365291001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	04/13/1984
Termination Date:	Not reported
Expiration/Review Date:	06/01/2018
Design Flow:	0.0001
Major/Minor:	Minor
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.98944
Longitude:	-117.63126

A2 **GEORGE BORBA DAIRY** **CA FID UST** **S101591831**
Target **7955 EUCALYPTUS** **N/A**
Property **CHINO, CA 91710**

Site 2 of 7 in cluster A

Actual:
671 ft.

CA FID UST:

Facility ID:	36009263
Regulated By:	UTNKA
Regulated ID:	00066993
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7145972568
Mail To:	Not reported
Mailing Address:	7955 EUCALYPTUS
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CHINO 91710
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

A3 Target Property | **GEORGE BORBA DAIRY**
7955 EUCALYPTUS
CHINO, CA 91710

SWEEPS UST
FINDS
ECHO

1005585030
N/A

Site 3 of 7 in cluster A

Actual: 671 ft.

SWEEPS UST:

Status:	Active
Comp Number:	66993
Number:	9
Board Of Equalization:	Not reported
Referral Date:	08-27-91
Action Date:	08-27-91
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-066993-000001
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	2

Status:	Active
Comp Number:	66993
Number:	9
Board Of Equalization:	Not reported
Referral Date:	08-27-91
Action Date:	08-27-91
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-066993-000002
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

FINDS:

Registry ID: 110006784756

Environmental Interest/Information System

AIR EMISSIONS CLASSIFICATION UNKNOWN

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

STATE MASTER

GEORGE BORBA DAIRY (Continued) **1005585030**

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1005585030
Registry ID: 110006784756
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110006784756

A4 Target Property **GEORGE BORBA** **HIST UST** **U001568910**
7955 EUCALYPTUS AVE **N/A**
CHINO, CA 91710

Site 4 of 7 in cluster A

Actual: 671 ft.

HIST UST:
File Number: 00029F29
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029F29.pdf
Region: STATE
Facility ID: 00000066993
Facility Type: Other
Other Type: Not reported
Contact Name: Not reported
Telephone: 7145972568
Owner Name: GEORGE BORBA
Owner Address: 7955 EUCALYPTUS AVE.
Owner City,St,Zip: CHINO, CA 91710
Total Tanks: 0002

Tank Num: 001
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: 1
Container Construction Thickness: 0 1
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00001000

GEORGE BORBA (Continued) **U001568910**

Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 10
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

A5 **GEORGE BORBA & SONS DAIRY** **HAZNET** **S112865856**
Target **7955 EUCALYPTUS AVE** **N/A**
Property **CHINO, CA 91710**

Site 5 of 7 in cluster A

Actual: **671 ft.**

HAZNET:
envid: S112865856
Year: 1998
GEPAID: CAC001082128
Contact: GEORGE BORBA
Telephone: 9095972568
Mailing Name: Not reported
Mailing Address: 7955 EUCALYPTUS AVE
Mailing City,St,Zip: CHINO, CA 917100000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 1.0425
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Bernardino

A6 **GEORGE BORBA & SON DAIRY** **NPDES** **S102005971**
Target **7955 EUCALYPTUS** **WDS** **N/A**
Property **CHINO, CA 91710** **CIWQS**

Site 6 of 7 in cluster A

Actual: **671 ft.**

NPDES:
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 8 36I005720
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported

GEORGE BORBA & SON DAIRY (Continued) **S102005971**

Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	04/07/1992
Operator Name:	Borba George Jr
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	299351
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I005720
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/07/1992
Status:	Terminated
Status Date:	04/07/1992
Place Size:	40
Place Size Unit:	Acres
Contact:	George Borba
Contact Title:	Not reported
Contact Phone:	909-597-2568
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Borba, George Jr
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Private Individual
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported

GEORGE BORBA & SON DAIRY (Continued) **S102005971**

Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	949-597-2568
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	0241-Dairy Farms
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

WDS:

Facility ID:	Santa Ana River 365291001
Facility Type:	Agricultural - Facility that treats and/or disposes of the wastes associated with confined and concentrated animal feeding, confined animal feeding, confined animal holding, confined and concentrated aquatic animal production facilities, and aquaculture. the treatment and/or disposal of agricultural return water is included in this category.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAG018001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	BORBA GEORGE
Agency Address:	7955 EUCALYPTUS
Agency City,St,Zip:	CHINO 91710
Agency Contact:	GEORGE BORBA
Agency Telephone:	9095972568
Agency Type:	Private
SIC Code:	241
SIC Code 2:	Not reported
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid

GEORGE BORBA & SON DAIRY (Continued) **S102005971**

waste).
Primary Waste: STORMS
Waste Type2: N
Waste2: Stormwater Runoff
Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste: Solid Wastes
Secondary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.
POTW: The facility is not a POTW.
Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:
Agency: Borba, George Jr
Agency Address: 7955 Eucalyptus Ave, Chino, CA 91710
Place/Project Type: Industrial - Dairy Farms
SIC/NAICS: 241
Region: 8
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 8 36I005720
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 04/07/1992
Termination Date: Not reported
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.99042
Longitude: -117.63128

A7 **GEORGE BORBA & SON DAIRY, GEORGE BORBA** **EMI** **S109281609**
Target **7955 EUCALYPTUS AVE** **N/A**
Property **ONTARIO, CA 91762**

Site 7 of 7 in cluster A

Actual: **671 ft.**

EMI:

Year:	2006
County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.253363870598339536
Reactive Organic Gases Tons/Yr:	3.67
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2.559
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.2521187

Year:	2007
County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.253363870598339536
Reactive Organic Gases Tons/Yr:	3.67
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2.559
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.2521187

Year:	2008
County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.639851130833094760
Reactive Organic Gases Tons/Yr:	3.94
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2.79
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.365147

Year:	2009

GEORGE BORBA & SON DAIRY, GEORGE BORBA (Continued) **S109281609**

County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.5253363870598298
Reactive Organic Gases Tons/Yr:	3.8599999999999999
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2.7400000000000002
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.3406819999999999

Year:	2010
County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.7630117377612304
Reactive Organic Gases Tons/Yr:	4.0260400000000001
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2.8871600000000002
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.4126873879999999

Year:	2011
County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.7171628972
Reactive Organic Gases Tons/Yr:	3.99401
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2.86936
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.403977848

Year:	2012
County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD

GEORGE BORBA & SON DAIRY, GEORGE BORBA (Continued) **S109281609**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.6808903521
Reactive Organic Gases Tons/Yr:	3.96867
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2.848
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.3935264

Year:	2013
County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.5424682396
Reactive Organic Gases Tons/Yr:	3.97007
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2.91386
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.425751698

Year:	2015
County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	48.45929662
Reactive Organic Gases Tons/Yr:	3.89622162
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2.9281
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.41075858

Year:	2016
County Code:	36
Air Basin:	SC
Facility ID:	145111
Air District Name:	SC
SIC Code:	241
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	48.00576
Reactive Organic Gases Tons/Yr:	3.84576
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported

GEORGE BORBA & SON DAIRY, GEORGE BORBA (Continued) **S109281609**

SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 2.9
Part. Matter 10 Micrometers and Smllr Tons/Yr: 1.39722

B8 **AURORA FARMS** **FINDS** **1023215351**
14746 GROVE **N/A**
< 1/8 **CHINO, CA 91710**
1 ft.

Site 1 of 5 in cluster B

Relative: Lower

Actual: 663 ft.

FINDS:

Registry ID: 110065010972

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

B9 **BOERSMA INC.** **CIWQS** **S121624226**
14746 GROVE **N/A**
< 1/8 **CHINO, CA**
1 ft.

Site 2 of 5 in cluster B

Relative: Lower

Actual: 663 ft.

CIWQS:

Agency:	Boersma, Harry
Agency Address:	14746 Grove Avenue, Chino, CA 91710
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS, WDR
Regulatory Measure Status:	Historical
Regulatory Measure Type:	WDR
Order Number:	88-05001
WDID:	8 365298001
NPDES Number:	Not reported
Adoption Date:	06/10/1988
Effective Date:	06/10/1988
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	0.0001
Major/Minor:	Not reported
Complexity:	C
TTWQ:	3
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

B10 **AURORA FARMS** **CIWQS** **S121621667**
14746 GROVE **N/A**
< 1/8 **CHINO, CA 91710**
1 ft.

Site 3 of 5 in cluster B

Relative: CIWQS:
Lower

Actual: Agency:	Borba, George
663 ft. Agency Address:	14461 Taft Highway, Bakersfield, CA 93311
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	99-011
WDID:	8 365760001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	09/09/1999
Termination Date:	06/28/2004
Expiration/Review Date:	Not reported
Design Flow:	0.0001
Major/Minor:	Not reported
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.986017
Longitude:	-117.628012

B11 **BOERSMA INC.** **FINDS** **1023279497**
14746 GROVE **N/A**
< 1/8 **CHINO, CA 91710**
1 ft.

Site 4 of 5 in cluster B

Relative: FINDS:
Lower

Actual: Registry ID: 110065700450
663 ft.

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

B12 **HARRY BOERSMA DAIRY** **San Bern. Co. Permit** **S104761845**
SE **14746 GROVE** **N/A**
< 1/8 **ONTARIO, CA 91762**
0.006 mi.
33 ft.

Site 5 of 5 in cluster B

Relative: San Bern. Co. Permit:
Lower

Actual: Region:	SAN BERNARDINO
663 ft. Facility ID:	FA0000480
Owner:	HARRY BOERSMA DAIRY

HARRY BOERSMA DAIRY (Continued) **S104761845**

Permit Number: PT0003766
Permit Category: HAZMAT HANDLER - AGRICULTURAL(FE)
Facility Status: INACTIVE
Expiration Date: 10/31/1988

C13 **JOE BORBA DAIRY # 2** **San Bern. Co. Permit** **S108724274**
East **14545 S GROVE AVE** **N/A**
< 1/8 **ONTARIO, CA 91762**
0.007 mi.
38 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
673 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0000513
Owner: JOSEPH & DOLEEN BORBA ADM TRUS
Permit Number: PT0019436
Permit Category: ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)
Facility Status: INACTIVE
Expiration Date: 07/31/2009

Region: SAN BERNARDINO
Facility ID: FA0000513
Owner: JOSEPH & DOLEEN BORBA ADM TRUS
Permit Number: PT0019098
Permit Category: HAZARDOUS WASTE GENERATOR - 11-25 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 07/31/2009

Region: SAN BERNARDINO
Facility ID: FA0000513
Owner: JOSEPH & DOLEEN BORBA ADM TRUS
Permit Number: PT0019097
Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 07/31/2009

Region: SAN BERNARDINO
Facility ID: FA0000513
Owner: JOSEPH & DOLEEN BORBA ADM TRUS
Permit Number: PT0019100
Permit Category: AST OPERATING PERMIT
Facility Status: INACTIVE
Expiration Date: 07/31/2009

Region: SAN BERNARDINO
Facility ID: FA0000513
Owner: JOSEPH & DOLEEN BORBA ADM TRUS
Permit Number: PT0019101
Permit Category: AST OPERATING PERMIT
Facility Status: INACTIVE
Expiration Date: 07/31/2009

Region: SAN BERNARDINO
Facility ID: FA0000513
Owner: JOSEPH & DOLEEN BORBA ADM TRUS
Permit Number: PT0019102
Permit Category: AST OPERATING PERMIT
Facility Status: INACTIVE

JOE BORBA DAIRY # 2 (Continued) **S108724274**

Expiration Date: 07/31/2009

Region: SAN BERNARDINO
Facility ID: FA0000513
Owner: JOSEPH & DOLEEN BORBA ADM TRUS
Permit Number: PT0019103
Permit Category: AST OPERATING PERMIT
Facility Status: INACTIVE
Expiration Date: 07/31/2009

Region: SAN BERNARDINO
Facility ID: FA0000513
Owner: JOSEPH & DOLEEN BORBA ADM TRUS
Permit Number: PT0019558
Permit Category: ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)
Facility Status: INACTIVE
Expiration Date: 07/31/2007

C14 **PRIVATE RESIDENCE** **LUST** **S110655056**
East **PRIVATE RESIDENCE** **N/A**
< 1/8 **CHINO, CA**
0.010 mi.
54 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
673 ft.

LUST:
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607175289
Global Id: T0607175289
Latitude: 33.9899
Longitude: -117.628
Status: Completed - Case Closed
Status Date: 10/18/2006
Case Worker: RS
RB Case Number: 083604041T
Local Agency: SAN BERNARDINO COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel, Gasoline
Site History: Not reported

LUST:
Global Id: T0607175289
Contact Type: Local Agency Caseworker
Contact Name: CATHERINE RICHARDS
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: crichards@sbcfire.org
Phone Number: 9093868419

Global Id: T0607175289
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE

PRIVATE RESIDENCE (Continued) **S110655056**

Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

LUST:
Global Id: T0607175289
Action Type: Other
Date: 01/13/2004
Action: Leak Began

Global Id: T0607175289
Action Type: RESPONSE
Date: 02/03/2006
Action: Soil and Water Investigation Report

Global Id: T0607175289
Action Type: ENFORCEMENT
Date: 09/02/2005
Action: Meeting

Global Id: T0607175289
Action Type: REMEDIATION
Date: 04/27/2004
Action: Excavation

Global Id: T0607175289
Action Type: ENFORCEMENT
Date: 10/18/2006
Action: Closure/No Further Action Letter

Global Id: T0607175289
Action Type: Other
Date: 01/13/2004
Action: Leak Stopped

Global Id: T0607175289
Action Type: Other
Date: 09/02/2005
Action: Leak Reported

Global Id: T0607175289
Action Type: Other
Date: 01/13/2004
Action: Leak Discovery

LUST:
Global Id: T0607175289
Status: Open - Case Begin Date
Status Date: 01/13/2004

Global Id: T0607175289
Status: Open - Site Assessment
Status Date: 09/02/2005

Global Id: T0607175289
Status: Open - Verification Monitoring
Status Date: 09/02/2005

PRIVATE RESIDENCE (Continued) **S110655056**

Global Id: T0607175289
Status: Open - Site Assessment
Status Date: 12/05/2005

Global Id: T0607175289
Status: Completed - Case Closed
Status Date: 10/18/2006

15
SSE
< 1/8
0.055 mi.
293 ft.

HARINGA FARMS
14848 S GROVE AVE
ONTARIO, CA 91762

San Bern. Co. Permit **S104761842**
N/A

Relative:
Lower

Actual:
659 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0000478
Owner: HARINGA, WILLIAM & RUDY E
Permit Number: PT0008948
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 04/30/2007

Region: SAN BERNARDINO
Facility ID: FA0000478
Owner: HARINGA, WILLIAM & RUDY E
Permit Number: PT0008949
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/1997

16
NE
< 1/8
0.075 mi.
397 ft.

O & M DAIRY
14474 GROVE AVE
ONTARIO, CA 91762

San Bern. Co. Permit **S108536478**
CIWQS **N/A**

Relative:
Higher

Actual:
676 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0010952
Owner: TRAVIS MOUW
Permit Number: PT0018888
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 07/31/2010

Region: SAN BERNARDINO
Facility ID: FA0000566
Owner: MIERSMA HARRY
Permit Number: PT0008720
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/1997

Region: SAN BERNARDINO

O & M DAIRY (Continued) **S108536478**

Facility ID: FA0000566
Owner: MIERSMA HARRY
Permit Number: PT0008719
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/1997

CIWQS:

Agency:	Mouw, Travis
Agency Address:	14474 Grove Avenue, Ontario, CA 91762
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	Not reported
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R8-2007-0001
WDID:	8 365951001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	10/04/2007
Termination Date:	11/02/2010
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Minor
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	1
Latitude:	33.99137
Longitude:	-117.62687

Agency:	Craig Gordon
Agency Address:	16395 South Euclid Avenue, Chino, CA 91708
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	Not reported
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Active
Regulatory Measure Type:	Enrollee
Order Number:	R8-2013-0001
WDID:	8 365983001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	12/02/2010
Termination Date:	Not reported
Expiration/Review Date:	06/01/2018
Design Flow:	Not reported
Major/Minor:	Minor
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	1
Latitude:	33.99137
Longitude:	-117.62687

17
WNW
< 1/8
0.101 mi.
531 ft.

AG-COSTA VIEW FARM
14451 BON VIEW
CHINO, CA 91710

SWEEPS UST
CA FID UST
ENF
CIWQS

S101591786
N/A

Relative:
Higher

Actual:
676 ft.

SWEEPS UST:

Status:	Active
Comp Number:	44727
Number:	9
Board Of Equalization:	Not reported
Referral Date:	08-27-91
Action Date:	08-27-91
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-044727-000001
Tank Status:	A
Capacity:	550
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	1

CA FID UST:

Facility ID:	36009015
Regulated By:	UTNKA
Regulated ID:	00044727
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7145972360
Mail To:	Not reported
Mailing Address:	14451 BON VIEW
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CHINO 91710
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

ENF:

Region:	8
Facility Id:	241364
Agency Name:	Anema, Greg
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.991242999999
Place Longitude:	-117.636781
SIC Code 1:	241
SIC Desc 1:	Dairy Farms
SIC Code 2:	Not reported
SIC Desc 2:	Not reported

AG-COSTA VIEW FARM (Continued) **S101591786**

SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365920001
Reg Measure Id:	211879
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2007-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	218
Status:	Historical
Status Date:	12/30/2013
Effective Date:	11/29/2004
Expiration/Review Date:	Not reported
Termination Date:	01/10/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	383856
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Third Party Action
Effective Date:	09/26/2011
Adoption/Issuance Date:	09/26/2011
Achieve Date:	Not reported
Termination Date:	Not reported

AG-COSTA VIEW FARM (Continued) **S101591786**

ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Administrative Order Issued by EPA on 09/26/2011 for Anema, Greg
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	8
Facility Id:	241364
Agency Name:	Anema, Greg
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.991242999999
Place Longitude:	-117.636781
SIC Code 1:	241
SIC Desc 1:	Dairy Farms
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365920001
Reg Measure Id:	211879
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2007-0001

AG-COSTA VIEW FARM (Continued) **S101591786**

Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	218
Status:	Historical
Status Date:	12/30/2013
Effective Date:	11/29/2004
Expiration/Review Date:	Not reported
Termination Date:	01/10/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	347120
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	11/29/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	11/29/2004
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Comm 11/29/04
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

CIWQS:

Agency:	Costa, Dimas
Agency Address:	14451 Bon View Avenue, Chino, CA 91710
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	99-011
WDID:	8 365263001

AG-COSTA VIEW FARM (Continued) **S101591786**

NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	09/10/1982
Termination Date:	09/25/2001
Expiration/Review Date:	Not reported
Design Flow:	0.0001
Major/Minor:	Minor
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.991243
Longitude:	-117.636781

Agency:	Wilson, JM
Agency Address:	15733 Carpenter, Chino, CA 91710
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R8-2007-0001
WDID:	8 365903001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	11/20/2003
Termination Date:	12/28/2006
Expiration/Review Date:	Not reported
Design Flow:	0
Major/Minor:	Not reported
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.991243
Longitude:	-117.636781

Agency:	Craig Gordon
Agency Address:	16395 South Euclid Avenue, Chino, CA 91708
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Active
Regulatory Measure Type:	Enrollee
Order Number:	R8-2013-0001
WDID:	8 366004001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	06/05/2013
Termination Date:	Not reported
Expiration/Review Date:	06/01/2018
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported

AG-COSTA VIEW FARM (Continued) **S101591786**

Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.991243
Longitude:	-117.636781
Agency:	Anema, Greg
Agency Address:	8061 Edison Avenue, Chino, CA 91710
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R8-2007-0001
WDID:	8 365920001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	11/29/2004
Termination Date:	01/10/2013
Expiration/Review Date:	Not reported
Design Flow:	0
Major/Minor:	Minor
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.991243
Longitude:	-117.636781
Agency:	Bouma, Peter
Agency Address:	1500 South Haven Avenue 200, Ontario, CA 91761
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	99-011
WDID:	8 365875001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	09/10/2001
Termination Date:	10/03/2003
Expiration/Review Date:	Not reported
Design Flow:	0
Major/Minor:	Not reported
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.991243
Longitude:	-117.636781

18
NE
1/8-1/4
0.137 mi.
724 ft.

JOE FERREIRA JR DAIRY
14400 S GROVE AVE
ONTARIO, CA 91762

San Bern. Co. Permit

S106910656
N/A

Relative:
Higher

Actual:
679 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0000515
Owner:	JOE & LEONTINA FERREIRA TRUST
Permit Number:	PT0003666
Permit Category:	HAZMAT HANDLER - AGRICULTURAL(FE)
Facility Status:	INACTIVE
Expiration Date:	02/28/1991

19
West
1/8-1/4
0.192 mi.
1015 ft.

CHINO VALLEY DAIRY #1
7565 EUCALYPTUS AVENUE
ONTARIO, CA 91762

ENF
San Bern. Co. Permit
CIWQS

S109693846
N/A

Relative:
Lower

Actual:
669 ft.

ENF:

Region:	8
Facility Id:	234639
Agency Name:	Slegers, Bennett
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Individual
# Of Agencies:	1
Place Latitude:	33.990346000000
Place Longitude:	-117.6396830000
SIC Code 1:	241
SIC Desc 1:	Dairy Farms
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365981001
Reg Measure Id:	376727

CHINO VALLEY DAIRY #1 (Continued) **S109693846**

Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2013-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1839.5999999999999
Status:	Active
Status Date:	05/29/2013
Effective Date:	12/02/2010
Expiration/Review Date:	06/01/2018
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	392041
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	03/07/2013
Adoption/Issuance Date:	03/07/2013
Achieve Date:	Not reported
Termination Date:	03/07/2013
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 03/07/2013 for Slegers, Bennett
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	8
Facility Id:	234639
Agency Name:	Slegers, Bennett
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Individual
# Of Agencies:	1

CHINO VALLEY DAIRY #1 (Continued) **S109693846**

Place Latitude:	33.990346000000
Place Longitude:	-117.6396830000
SIC Code 1:	241
SIC Desc 1:	Dairy Farms
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	8 365981001
Reg Measure Id:	376727
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2013-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1839.5999999999999
Status:	Active
Status Date:	05/29/2013
Effective Date:	12/02/2010
Expiration/Review Date:	06/01/2018
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	392040
Region:	8

CHINO VALLEY DAIRY #1 (Continued) **S109693846**

Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	03/07/2013
Adoption/Issuance Date:	03/07/2013
Achieve Date:	Not reported
Termination Date:	03/07/2013
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 03/07/2013 for Slegers, Bennett
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0013590
Owner:	SLEGERS, BEN
Permit Number:	PT0023850
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	10/31/2018

Region:	SAN BERNARDINO
Facility ID:	FA0011040
Owner:	Frank Souza
Permit Number:	PT0019035
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	07/31/2009

Region:	SAN BERNARDINO
Facility ID:	FA0011040
Owner:	Frank Souza
Permit Number:	PT0019036
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	07/31/2009

Region:	SAN BERNARDINO
Facility ID:	FA0000529
Owner:	KASBERGEN DAIRY
Permit Number:	PT0018989
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	04/30/2007

Region:	SAN BERNARDINO
Facility ID:	FA0000529

CHINO VALLEY DAIRY #1 (Continued) **S109693846**

Owner: KASBERGEN DAIRY
Permit Number: PT0008943
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/1997

Region: SAN BERNARDINO
Facility ID: FA0000529
Owner: KASBERGEN DAIRY
Permit Number: PT0008944
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/1997

CIWQS:

Agency:	Slegers, Bennett
Agency Address:	15914 Legacy Court, Bakersfield, CA 93314
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Active
Regulatory Measure Type:	Enrollee
Order Number:	R8-2013-0001
WDID:	8 365981001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	12/02/2010
Termination Date:	Not reported
Expiration/Review Date:	06/01/2018
Design Flow:	Not reported
Major/Minor:	Minor
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.990346
Longitude:	-117.639683

Agency:	Frank Souza
Agency Address:	16185 Euclid Avenue, Chino, CA 91708-9118
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R8-2007-0001
WDID:	8 365931001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	05/25/2006
Termination Date:	11/10/2010
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Minor
Complexity:	Not reported

CHINO VALLEY DAIRY #1 (Continued) **S109693846**

TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.990346
Longitude:	-117.639683

20
NE
1/8-1/4
0.195 mi.
1031 ft.

ALEWYN DAIRY #3
14361 GROVE
ONTARIO, CA 91762

ENF **S104761898**
San Bern. Co. Permit **N/A**
CIWQS

Relative:
Higher

Actual:
682 ft.

ENF:

Region:	8
Facility Id:	204960
Agency Name:	Not reported
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	33.992964000000
Place Longitude:	-117.628072
SIC Code 1:	241
SIC Desc 1:	Dairy Farms
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	Not reported
# Of Programs:	1
WDID:	Not reported
Reg Measure Id:	332712
Reg Measure Type:	NPDES Permits
Region:	8
Order #:	R8-2007-0001
Npdes# CA#:	CAG018001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported

ALEWYN DAIRY #3 (Continued) **S104761898**

Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	12/24/2013
Effective Date:	09/07/2007
Expiration/Review Date:	09/06/2012
Termination Date:	06/06/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	G
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	347119
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	10/08/1982
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	10/08/1982
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Commun..
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0000511
Owner:	JACK & ELANE ALEWYN
Permit Number:	PT0003754
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	04/30/2013

CIWQS:

Agency:	Craig Gordon
Agency Address:	16395 South Euclid Avenue, Chino, CA 91708
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241

ALEWYN DAIRY #3 (Continued) **S104761898**

Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Active
Regulatory Measure Type:	Enrollee
Order Number:	R8-2013-0001
WDID:	8 366006001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	06/13/2013
Termination Date:	Not reported
Expiration/Review Date:	06/01/2018
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	1
Latitude:	33.992964
Longitude:	-117.628072

Agency:	Alewyn, Jack
Agency Address:	9031 Eucalyptus Avenue, Ontario, CA 91762-7515
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS, NPDESWW
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R8-2013-0001
WDID:	8 365311001
NPDES Number:	CAG018001
Adoption Date:	Not reported
Effective Date:	10/08/1982
Termination Date:	07/23/2013
Expiration/Review Date:	06/01/2018
Design Flow:	0.0001
Major/Minor:	Minor
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	1
Latitude:	33.992964
Longitude:	-117.628072

D21 **CAL-AERO FIELD / ACADEMY** **ENVIROSTOR** **S107735994**
SW **N/A**
1/8-1/4 **CHINO, CA**
0.219 mi.
1156 ft. **Site 1 of 43 in cluster D**

Relative: ENVIROSTOR:
Lower

Facility ID:	80000986
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported

Actual:
638 ft.

CAL-AERO FIELD / ACADEMY (Continued) **S107735994**

NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 52
Senate: 20
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.98111
Longitude: -117.6394
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799FA37100
Alias Type: Federal Facility ID
Alias Name: J09CA7342 & J0CA7341
Alias Type: INPR
Alias Name: 80000986
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 05/28/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 05/28/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

D22
SW
1/8-1/4
0.224 mi.
1185 ft.

FLITE CRAFTENT
7000 MERRILL
CHINO, CA 91710

Site 2 of 43 in cluster D

RCRA-SQG | **1000397053** / **CAD982473696**

Relative:
Lower

Actual:
639 ft.

RCRA-SQG:

Date form received by agency:	05/23/1988
Facility name:	FLITE CRAFTENT
Facility address:	7000 MERRILL CHINO, CA 91710
EPA ID:	CAD982473696
Contact:	ENVIRONMENTAL MANAGER
Contact address:	7000 MERRILL CHINO, CA 91710
Contact country:	US
Contact telephone:	714-597-1732
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	DAVE LEWIS
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

FLITE CRAFTENT (Continued) **1000397053**

Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

D23 **AG-MURRAY, DONALD L.** **UST** **U003784935**
SW **7000 MERRILL AVE** **San Bern. Co. Permit** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 3 of 43 in cluster D**

Relative: **Lower**

Actual: **639 ft.**

UST:

Facility ID:	98045919
Permitting Agency:	SAN BERNARDINO COUNTY
Latitude:	33.9821897
Longitude:	-117.6322274

Facility ID:	87014446
Permitting Agency:	SAN BERNARDINO COUNTY
Latitude:	33.9821897
Longitude:	-117.6322274

Facility ID:	95036944
Permitting Agency:	SAN BERNARDINO COUNTY
Latitude:	33.9821897
Longitude:	-117.6322274

Facility ID:	FA0002968
Permitting Agency:	San Bernardino County Fire Department
Latitude:	33.983001
Longitude:	-117.647363

Facility ID:	87012670
Permitting Agency:	SAN BERNARDINO COUNTY
Latitude:	33.9821897
Longitude:	-117.6322274

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0000576
Owner:	MURRAY, DONALD L
Permit Number:	PT0011346
Permit Category:	REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status:	INACTIVE
Expiration Date:	05/31/1991

Region:	SAN BERNARDINO
Facility ID:	FA0000576
Owner:	MURRAY, DONALD L

AG-MURRAY, DONALD L. (Continued) **U003784935**

Permit Number: PT0003168
Permit Category: HAZMAT HANDLER, UST ONLY - PER YEAR
Facility Status: INACTIVE
Expiration Date: 05/31/1991

D24 **BANNER AIRLINES** **RCRA-SQG** **1000313303**
SW **7000 MERRILL AVE #19** **CAD982474124**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 4 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

RCRA-SQG:
Date form received by agency: 05/23/1988
Facility name: BANNER AIRLINES
Facility address: 7000 MERRILL AVE #19
CHINO, CA 91710
EPA ID: CAD982474124
Contact: ENVIRONMENTAL MANAGER
Contact address: 7000 MERRILL AVE #19
CHINO AIRPORT BOX 30, CA 91710
Contact country: US
Contact telephone: 714-597-1886
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: HUNTER LEE
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

BANNER AIRLINES (Continued) **1000313303**

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Violation Status: No violations found

D25 **AERO TRADER** **RCRA-SQG** **1000327194**
SW **7000 MERRILL AVE HANGER P300** **CAD982473910**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 5 of 43 in cluster D**

Relative: **Lower**
Actual: **639 ft.**

RCRA-SQG:
- Date form received by agency: 05/23/1988
- Facility name: AERO TRADER
- Facility address: 7000 MERRILL AVE HANGER P300
  CHINO, CA 91710
- EPA ID: CAD982473910
- Contact: ENVIRONMENTAL MANAGER
- Contact address: 7000 MERRILL AVE BOX 19
  HGR #P300 CHINO, CA 91710
- Contact country: US
- Contact telephone: 714-597-4020
- Contact email: Not reported
- EPA Region: 09
- Classification: Small Small Quantity Generator
- Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
- Owner/operator name: NOT REQUIRED
- Owner/operator address: NOT REQUIRED
  NOT REQUIRED, ME 99999
- Owner/operator country: Not reported
- Owner/operator telephone: 415-555-1212
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

AERO TRADER (Continued) **1000327194**

Owner/operator name: SCHOLL CARL
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

D26 **JET CONNECT SERVICES INC** **San Bern. Co. Permit** **S110656329**
SW **7000 MERRILL AVE BOX 31** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 6 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0013010
Owner: JET CONNECT SERVICES INC
Permit Number: PT0022847
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 02/28/2011

Region: SAN BERNARDINO
Facility ID: FA0013010
Owner: JET CONNECT SERVICES INC
Permit Number: PT0022846
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 02/28/2011

D27
SW
1/8-1/4
0.224 mi.
1185 ft.

YANKS AIR CORPS
7000 MERRILL AVE HGR A-270
CHINO, CA 91710

Site 7 of 43 in cluster D

San Bern. Co. Permit | **S110656313** / **N/A**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0007356
Owner:	CHARLES NICHOLS
Permit Number:	PT0008378
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	11/30/2018

Region:	SAN BERNARDINO
Facility ID:	FA0007356
Owner:	CHARLES NICHOLS
Permit Number:	PT0008379
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	11/30/2018

D28
SW
1/8-1/4
0.224 mi.
1185 ft.

FLITE CRAFTENT
7000 MERRILL
CHINO, CA 91710

Site 8 of 43 in cluster D

RCRA-SQG | **1000244243**
FINDS | **CAD982473563**
ECHO

Relative:
Lower

Actual:
639 ft.

RCRA-SQG:

Date form received by agency:	05/06/1988
Facility name:	FIGHTER REBUILDERS
Facility address:	7000 MERRILL CHINO, CA 91710
EPA ID:	CAD982473563
Contact:	ENVIRONMENTAL MANAGER
Contact address:	7000 MERRILL CHINO, CA 91710
Contact country:	US
Contact telephone:	714-597-3514
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	STEVEN HINTON
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private

FLITE CRAFTENT (Continued) **1000244243**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110009545947

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110002821509

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource

FLITE CRAFTENT (Continued) **1000244243**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000244243
Registry ID:	110009545947
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009545947
Envid:	1000244243
Registry ID:	110002821509
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002821509

D29 **SOUTHERN CALIFORNIA EDISON CHINO AIR OPS** **RCRA-LQG** **1014915623**
SW **7000 MERRILL AVE** **CAR000220640**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 9 of 43 in cluster D**

Relative: **Lower**
Actual: **639 ft.**

RCRA-LQG:

Date form received by agency:	07/19/2011
Facility name:	SOUTHERN CALIFORNIA EDISON CHINO AIR OPS
Facility address:	7000 MERRILL AVE MAILBOX 50 BLDG A 290 CHINO, CA 91710-9097
EPA ID:	CAR000220640
Mailing address:	PO BOX 800 ROSEMEAD, CA 91770
Contact:	SARA M DUVALL
Contact address:	PO BOX 800 ROSEMEAD, CA 91770
Contact country:	US
Contact telephone:	626-462-8714
Contact email:	SARA.DUVALL@SCE.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

SOUTHERN CALIFORNIA EDISON CHINO AIR OPS (Continued) **1014915623**

Owner/Operator Summary:

Owner/operator name:	COUNTY OF SAN BERNARDINO
Owner/operator address:	7000 MERRILL AVE BOX 1
	CHINO, CA 91710
Owner/operator country:	US
Owner/operator telephone:	909-597-3910
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	County
Owner/Operator Type:	Owner
Owner/Op start date:	06/28/1949
Owner/Op end date:	Not reported

Owner/operator name:	SOUTHERN CALIFORNIA EDISON
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	10/29/2009
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	214
. Waste name:	Unspecified solvent mixture

. Waste code:	D001
. Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

SOUTHERN CALIFORNIA EDISON CHINO AIR OPS (Continued) **1014915623**

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

D30 **CHINO AIRPORT RADIUM DIALS** **SEMS** **1008341524**
SW **7000 MERRILL AVE** **PRP** **CAN000906127**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 10 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

SEMS:
Site ID: 906127
EPA ID: CAN000906127
Cong District: Not reported
FIPS Code: 6071
Latitude: Not reported
Longitude: Not reported
FF: N
NPL: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:
Region: 9
Site ID: 906127
EPA ID: CAN000906127
Site Name: CHINO AIRPORT RADIUM DIALS
NPL: N
FF: N
OU: 0
Action Code: RV
Action Name: RMVL
SEQ: 1
Start Date: 2005-03-10 00:00:00
Finish Date: 10/4/2006
Qual: C
Current Action Lead: EPA Perf

Region: 9
Site ID: 906127
EPA ID: CAN000906127
Site Name: CHINO AIRPORT RADIUM DIALS
NPL: N
FF: N
OU: 0
Action Code: BB
Action Name: PRP RV
SEQ: 1
Start Date: 2005-05-11 00:00:00
Finish Date: 10/5/2006
Qual: C
Current Action Lead: EPA Ovrsght

PRP:
PRP name: CHINO DEVELOPMENT LEAGUE, INC.
COUNTY OF SAN BERNARDINO
COUNTY OF SAN BERNARDINO
HERITAGE AERO, INC.

CHINO AIRPORT RADIUM DIALS (Continued) **1008341524**

JEFFREY PEARSON
PRESERVATION AVIATION, INC

D31 **CHINO AIRPORT** **SWEEPS UST** **U001568864**
SW **7000 MERRILL AVE** **HIST UST** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 11 of 43 in cluster D**

Relative: **Lower**

Actual: **639 ft.**

SWEEPS UST:

Status:	Active
Comp Number:	10545
Number:	9
Board Of Equalization:	44-020280
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-010545-000001
Tank Status:	A
Capacity:	10000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	Not reported
Number Of Tanks:	8

Status:	Active
Comp Number:	10545
Number:	9
Board Of Equalization:	44-020280
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	3
SWRCB Tank Id:	36-000-010545-000002
Tank Status:	A
Capacity:	10000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	10545
Number:	9
Board Of Equalization:	44-020280
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	4
SWRCB Tank Id:	36-000-010545-000003
Tank Status:	A
Capacity:	10000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P

CHINO AIRPORT (Continued) **U001568864**

Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 10545
Number: 9
Board Of Equalization: 44-020280
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 5
SWRCB Tank Id: 36-000-010545-000004
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 10545
Number: 9
Board Of Equalization: 44-020280
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 6
SWRCB Tank Id: 36-000-010545-000005
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 10545
Number: 9
Board Of Equalization: 44-020280
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 7
SWRCB Tank Id: 36-000-010545-000006
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 10545
Number: 9

CHINO AIRPORT (Continued) **U001568864**

Board Of Equalization: 44-020280
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 8
SWRCB Tank Id: 36-000-010545-000007
Tank Status: A
Capacity: 20000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 10545
Number: 9
Board Of Equalization: 44-020280
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 36-000-010545-000008
Tank Status: A
Capacity: 1000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000010545
Facility Type: Other
Other Type: AVIATION
Contact Name: DAN GROVES, AIRPORT MANAGER
Telephone: 7145973910
Owner Name: SAN BERNARDINO COUNTY
Owner Address: 825 EAST THIRD STREET
Owner City,St,Zip: SAN BERNARDINO, CA 924150831
Total Tanks: 0008

Tank Num: 001
Container Num: 2
Year Installed: 1965
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 002
Container Num: 3
Year Installed: 1965

CHINO AIRPORT (Continued) **U001568864**

Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

Tank Num:	003
Container Num:	4
Year Installed:	1974
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	5
Year Installed:	1974
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	6
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

Tank Num:	006
Container Num:	7
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

Tank Num:	007
Container Num:	8
Year Installed:	1979
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

Tank Num:	008
Container Num:	1
Year Installed:	1967
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR

CHINO AIRPORT (Continued) **U001568864**

Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

D32
SW
1/8-1/4
0.224 mi.
1185 ft.

CHINO ROAD YARD **HIST UST** **U001568880**
7000 MERRILL AVE **N/A**
CHINO, CA 91710

Site 12 of 43 in cluster D

Relative:
Lower

Actual:
639 ft.

HIST UST:
File Number: 00029D37
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029D37.pdf
Region: STATE
Facility ID: 00000031581
Facility Type: Other
Other Type: COUNTY
Contact Name: BOB HIGNIGHT
Telephone: 7145976270
Owner Name: COUNTY OF SAN BERNARDINO VEHIC
Owner Address: 825 EAST THIRD STREET
Owner City,St,Zip: SAN BERNARDINO, CA 92415
Total Tanks: 0001

Tank Num: 001
Container Num: 0077
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: 5
Container Construction Thickness: X
Leak Detection: None

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: 5
Container Construction Thickness: X
Leak Detection: None

Tank Num: 001
Container Num: 0077
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

CHINO ROAD YARD (Continued) **U001568880**

Click here for Geo Tracker PDF:

D33 SW 1/8-1/4 0.224 mi. 1185 ft. **SO CALIF EDISON AIRCRAFT OPER** **RCRA-SQG 1000167621**
7000 MERRILL AVE HANGAR A ST **FINDS CAD981689854**
CHINO, CA 91710 **ECHO**

Site 13 of 43 in cluster D

Relative: Lower

Actual: 639 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	SO CALIF EDISON AIRCRAFT OPER
Facility address:	7000 MERRILL AVE HANGAR A ST CHINO, CA 91710
EPA ID:	CAD981689854
Mailing address:	ENVIRON AFFAIRS PO BOX 800 ROSEMEAD, CA 91770
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	SO CAL EDISON
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

SO CALIF EDISON AIRCRAFT OPER (Continued) **1000167621**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 11/26/1986
Site name: SO CALIF EDISON AIRCRAFT OPER
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002753949

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000167621
Registry ID: 110002753949
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002753949

D34 **BUTTERFIELD AIRPLANE STORE INC** **RCRA-SQG** **1000401903**
SW **7000 MERRILL HGR #1** **FINDS** **CAD982473936**
1/8-1/4 **CHINO, CA 91710** **ECHO**
0.224 mi.
1185 ft. **Site 14 of 43 in cluster D**

Relative: **Lower**
Actual: **639 ft.**

RCRA-SQG:
Date form received by agency: 05/23/1988
Facility name: BUTTERFIELD AIRPLANE STORE INC
Facility address: 7000 MERRILL HGR #1
CHINO, CA 91710
EPA ID: CAD982473936

BUTTERFIELD AIRPLANE STORE INC (Continued) **1000401903**

Contact:	ENVIRONMENTAL MANAGER
Contact address:	7000 MERRILL HGR #1 BOX 39 CHINO, CA 91710
Contact country:	US
Contact telephone:	714-597-7666
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	BRYAN KIM
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No

BUTTERFIELD AIRPLANE STORE INC (Continued) **1000401903**

Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110008278675

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000401903
Registry ID: 110008278675
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110008278675

D35 **UNLIMITED AIRCRAFT INC** **RCRA-SQG** **1000255008**
SW **7000 MERRILL BOX 27 HGR4** **FINDS** **CAD982474066**
1/8-1/4 **CHINO, CA 91710** **ECHO**
0.224 mi.
1185 ft. **Site 15 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

RCRA-SQG:
Date form received by agency: 05/23/1988
Facility name: UNLIMITED AIRCRAFT INC
Facility address: 7000 MERRILL BOX 27 HGR4
CHINO, CA 91710
EPA ID: CAD982474066
Mailing address: MERRILL BOX 27 HGR4
CHINO, CA 91710
Contact: ENVIRONMENTAL MANAGER
Contact address: 7000 MERRILL BOX 27 HGR4
CHINO, CA 91710
Contact country: US
Contact telephone: 714-597-2188
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BRUCE GOESSLING
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

UNLIMITED AIRCRAFT INC (Continued) **1000255008**

Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110009545965

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

UNLIMITED AIRCRAFT INC (Continued) **1000255008**

ECHO:
Envid: 1000255008
Registry ID: 110009545965
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110009545965

D36 **CHINO AIRPORT NAPALM WASTE** **SEMS** **1014202332**
SW **7000 MERRILL AVENUE** **CAN000908946**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 16 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

SEMS:
Site ID: 908946
EPA ID: CAN000908946
Cong District: Not reported
FIPS Code: 6071
Latitude: Not reported
Longitude: Not reported
FF: N
NPL: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:
Region: 9
Site ID: 908946
EPA ID: CAN000908946
Site Name: CHINO AIRPORT NAPALM WASTE
NPL: N
FF: N
OU: 0
Action Code: PJ
Action Name: RP EM REM
SEQ: 1
Start Date: 2010-08-26 00:00:00
Finish Date: 10/26/2010
Qual: C
Current Action Lead: EPA Ovrsght

D37 **CHINO ROADYARD** **HIST UST** **U001568882**
SW **7000 MERRILL AVE** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 17 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

HIST UST:
File Number: 00029D04
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029D04.pdf
Region: STATE
Facility ID: 00000008707
Facility Type: Other
Other Type: COUNTY
Contact Name: BOB HIGNIGHT
Telephone: 7145976270
Owner Name: COUNTY OF SAN BERNARDINO
Owner Address: 825 EAST THIRD ST

CHINO ROADYARD (Continued) **U001568882**

Owner City,St,Zip: SAN BERNARDINO, CA 92415
Total Tanks: 0003

Tank Num: 001
Container Num: 0015
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 002
Container Num: 0016
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 003
Container Num: 0017
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Click here for Geo Tracker PDF:

D38 **ROGERS AVIATION** **San Bern. Co. Permit** **S110656308**
SW **7000 MERRILL AVE HGR B130** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 18 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0005784
Owner: ROGERS, DAVID
Permit Number: PT0008382
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 11/30/2009

Region: SAN BERNARDINO
Facility ID: FA0005784
Owner: ROGERS, DAVID
Permit Number: PT0008383
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2008

D39
SW
1/8-1/4
0.224 mi.
1185 ft.

SILVER STATE HELICOPTERS
7000 MERRILL AVE A-230
CHINO, CA 91710

Site 19 of 43 in cluster D

San Bern. Co. Permit | **S108985858** / **N/A**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0011377
Owner:	ARIOLA, S. JERRY
Permit Number:	PT0019666
Permit Category:	HAZARDOUS WASTE GENERATOR - 26-50 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	01/31/2009

Region:	SAN BERNARDINO
Facility ID:	FA0011377
Owner:	ARIOLA, S. JERRY
Permit Number:	PT0019665
Permit Category:	HAZMAT HANDLER 26-50 EMPLOYEES (W/GEN PRMT)
Facility Status:	INACTIVE
Expiration Date:	01/31/2009

D40
SW
1/8-1/4
0.224 mi.
1185 ft.

SB COUNTY MAINTENANCE YARD
7000 MERRILL AVE.
CHINO, CA

Site 20 of 43 in cluster D

AST | **A100346032** / **N/A**

Relative:
Lower

Actual:
639 ft.

AST:

Certified Unified Program Agencies:	San Bernardino
Owner:	SB COUNTY DEPT PUBLIC WORKS
Total Gallons:	9,000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

D41 **AERO TRADER** **San Bern. Co. Permit** **S109254290**
SW **7000 MERRILL AVE** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 21 of 43 in cluster D**

Relative: **Lower**
Actual: **639 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0000315
Owner: S&R AVIATION SERVICES, INC.
Permit Number: PT0004347
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 04/30/2019

Region: SAN BERNARDINO
Facility ID: FA0000315
Owner: S&R AVIATION SERVICES, INC.
Permit Number: PT0004346
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 04/30/2019

D42 **AIRCRAFTSMAN** **San Bern. Co. Permit** **S104763384**
SW **7000 MERRILL HGR AVE HGR A-245 BOX 100** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 22 of 43 in cluster D**

Relative: **Lower**
Actual: **639 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0000752
Owner: NAAZMA MANTARA
Permit Number: PT0007880
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2008

Region: SAN BERNARDINO
Facility ID: FA0000752
Owner: NAAZMA MANTARA
Permit Number: PT0015147
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 09/30/2008

D43 **VAN'S MOBILE TRUCK SERVICE, INC.** **CPS-SLIC** **S103956204**
SW **7000 MERRILL AVE** **San Bern. Co. Permit** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 23 of 43 in cluster D**

Relative: **Lower**
Actual: **639 ft.**

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 03/17/2011
Global Id: T10000002398
Lead Agency: SANTA ANA RWQCB (REGION 8)

VAN'S MOBILE TRUCK SERVICE, INC. (Continued) **S103956204**

Lead Agency Case Number:	Not reported
Latitude:	33.9771752582545
Longitude:	-117.647438049316
Case Type:	Cleanup Program Site
Case Worker:	PAH
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Regional Board
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Benzene, Toluene, Xylene, Other Petroleum
Site History:	In the afternoon of July 22, 2010, three buried drums were discovered during trenching for installation of a storm drain pipeline for a new facility for SCE. Additional drums were discovered during the response activities. By sunset, eight buried drums had been removed from the excavation. The drums did not have lids and contained soil that had been placed on top of other materials. The contents of the drums were field tested using a HazCat chemical identification kit, and determined to be a non-explosive, flammable, non-corrosive, organic resin-type material. The eight drums were placed in a roll-off bin. Two more drums were visible in the excavation, but were left in place due to limited remaining daylight. Samples were collected of the soil, the material in the drums, and the liquid in one of the drums. The samples were delivered to Microbac Laboratory in Riverside, and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH) carbon range, polynuclear aromatic hydrocarbons (PAHs), CAM17 metals, and flashpoint (only the liquid sample). The analytical results indicated that high concentrations of benzene were present in all of the samples. Also detected were toluene, ethylbenzene, xylene, styrene, 1,2,4-trimethylbenzene, and naphthalene. On July 28, 2010, a geophysical survey was conducted in an effort to locate any additional buried drums. During the survey, several areas to the east and west of the original excavation were marked as possible targets for further investigation. Excavation and removal of additional drums was conducted between August 16 and August 25, 2010. A total of 51 drums, several aluminum canisters and pieces of wood were removed from the excavation and placed in roll-off-bins. Excavated soil was stockpiled and covered with plastic sheeting. Additional soil was excavated from beneath the drums, placed in stockpiles and covered. The resulting excavation measured approximately 100 feet from east to west and 20 feet from north to south. The bottom of the excavation varied from 10 to 15 feet below ground surface. Patricia Hannon of Board Staff observed the collection of the final confirmation soil samples on August 26, 2010. Staff from the U.S. EPA and the California Department of Toxic Substances Control were also present. The samples were submitted to a California certified laboratory for analysis as per the TCRAP. The analytical results for the soil samples showed only very low concentrations of benzene (<1 to 1.28 micrograms/kilogram (a%g/kg)), ethylbenzene (<1 to 2.24 a%g/kg), xylene (<1 to 28.8 a%g/kg), 1,3,5 trimethylbenzene (<5 to 55.4 a%g/kg), naphthalene (<5 to 10.9 a%g/kg), TPH gasoline range (<1 to 4.71 milligrams/kilogram (mg/kg)), TPH diesel range <1 to 123 mg/kg, and TPH motor oil range (<1 to 355 mg/kg).

Click here to access the California GeoTracker records for this facility:

VAN'S MOBILE TRUCK SERVICE, INC. (Continued) **S103956204**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0010632
Owner: VAN'S MOBILE TRUCK SERVICE INC
Permit Number: PT0018102
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2010

Region: SAN BERNARDINO
Facility ID: FA0010632
Owner: VAN'S MOBILE TRUCK SERVICE INC
Permit Number: PT0018103
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 08/31/2010

Region: SAN BERNARDINO
Facility ID: FA0000826
Owner: AERO RESTORATION INC
Permit Number: PT0008391
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2001

Region: SAN BERNARDINO
Facility ID: FA0000826
Owner: AERO RESTORATION INC
Permit Number: PT0008390
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 11/30/2001

D44 **TOM KING AERIAL** **San Bern. Co. Permit** **S104763314**
SW **7000 MERRILL AVE BOX 3** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 24 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0000313
Owner: KING, VIRGINIA
Permit Number: PT0008392
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2007

D45 **CENTURY AIRCRAFT PAINTING** **San Bern. Co. Permit** **S104764508**
SW **7000 MERRILL AVE** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 25 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0001669
Owner: VOGEL, EVELINE & MICHAEL
Permit Number: PT0001757
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 11/30/2018

Region: SAN BERNARDINO
Facility ID: FA0001669
Owner: VOGEL, EVELINE & MICHAEL
Permit Number: PT0001756
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2018

D46 **NU VISTA AVIATION** **San Bern. Co. Permit** **S109254406**
SW **7000 MERRILL AVE BLDG A-230 BOX 23** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 26 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0011767
Owner: GAPPMAYER, REED
Permit Number: PT0020447
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2009

D47 **SBC/CHINO AIRPORT** **San Bern. Co. Permit** **S107448049**
SW **7000 MERRILL AVE BLDG B-350** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 27 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0007715
Owner: SB COUNTY DEPT OF AIRPORTS
Permit Number: PT0013287
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 12/31/2015

Region: SAN BERNARDINO
Facility ID: FA0007715
Owner: SB COUNTY DEPT OF AIRPORTS
Permit Number: PT0013286
Permit Category: HAZMAT HANDLER, UST ONLY - PER YEAR

SBC/CHINO AIRPORT (Continued) **S107448049**

Facility Status: INACTIVE
Expiration Date: 12/31/2014

Region: SAN BERNARDINO
Facility ID: FA0007715
Owner: SB COUNTY DEPT OF AIRPORTS
Permit Number: PT0016136
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status: INACTIVE
Expiration Date: 12/31/2014

Region: SAN BERNARDINO
Facility ID: FA0012706
Owner: THE CHARLESTON GROUP/ROBERT L. CASHMAN
Permit Number: PT0022163
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2011

Region: SAN BERNARDINO
Facility ID: FA0012706
Owner: THE CHARLESTON GROUP/ROBERT L. CASHMAN
Permit Number: PT0022164
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 09/30/2011

D48 **CHINO AVIATION** **San Bern. Co. Permit** **S108087254**
SW **7000 MERRILL AVE** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 28 of 43 in cluster D**

Relative: San Bern. Co. Permit:
Lower
Actual: Region: SAN BERNARDINO
639 ft. Facility ID: FA0010623
Owner: CENDEJAS, AGUSTIN
Permit Number: PT0018065
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2010

Region: SAN BERNARDINO
Facility ID: FA0010623
Owner: CENDEJAS, AGUSTIN
Permit Number: PT0018064
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 09/30/2010

D49 **CHAMPIONSHIP AVIATION MAINT** **AST** **S108087253**
SW **7000 MERRILL AVE HGR A385** **N/A**
1/8-1/4 **CHINO, CA**
0.224 mi.
1185 ft. **Site 29 of 43 in cluster D**

Relative: **Lower**

Actual: **639 ft.**

AST:

Certified Unified Program Agencies:	San Bernardino
Owner:	CHAMPIONSHIP AVIATION MNT, INC
Total Gallons:	19,050
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

D50 **MILITARY AIRCRAFT RESTORATION** **San Bern. Co. Permit** **S106910992**
SW **7000 MERRILL AVE A485** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 30 of 43 in cluster D**

Relative: **Lower**

Actual: **639 ft.**

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0004729
Owner:	MILITARY AIRCRAFT RESTORATION
Permit Number:	PT0008398
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	11/30/2003

Region:	SAN BERNARDINO
Facility ID:	FA0004729
Owner:	MILITARY AIRCRAFT RESTORATION
Permit Number:	PT0008397
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	11/30/2003

D51
SW
1/8-1/4
0.224 mi.
1185 ft.

SAN BDNO COUNTY/CHINO AIRPORT
7000 MERRILL AVE
CHINO, CA 91710

Site 31 of 43 in cluster D

San Bern. Co. Permit **S109254297**
N/A

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0002372
Owner: SB COUNTY DEPT OF AIRPORTS
Permit Number: PT0003549
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2018

Region: SAN BERNARDINO
Facility ID: FA0002372
Owner: SB COUNTY DEPT OF AIRPORTS
Permit Number: PT0003548
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2018

Region: SAN BERNARDINO
Facility ID: FA0002372
Owner: SB COUNTY DEPT OF AIRPORTS
Permit Number: PT0011180
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 09/30/2007

Region: SAN BERNARDINO
Facility ID: FA0002372
Owner: SB COUNTY DEPT OF AIRPORTS
Permit Number: PT0011181
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 09/30/2007

Region: SAN BERNARDINO
Facility ID: FA0002372
Owner: SB COUNTY DEPT OF AIRPORTS
Permit Number: PT0011182
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 09/30/2007

D52
SW
1/8-1/4
0.224 mi.
1185 ft.

SOUTHERN CALIFORNIA EDISON: AIR OPERATIONS - CHINO
7000 MERRILL AVE, BOX 50, BLDG. A-290
CHINO, CA 91710

Site 32 of 43 in cluster D

AST **A100424710**
N/A

Relative:
Lower

Actual:
639 ft.

AST:

Certified Unified Program Agencies: Not reported
Owner: Southern California Edison
Total Gallons: Not reported
CERSID: 10148665
Facility ID: FA0014110
Business Name: Southern California Edison, Operations Support Business Unit (OSBU)

SOUTHERN CALIFORNIA EDISON: AIR OPERATIONS - CHINO AIRPORT (Continued) **A100424710**

Phone:	909-974-4691
Fax:	909-974-4686
Mailing Address:	P.O. Box 800 (Attn: CEH&S Compliance - MOB)
Mailing Address City:	Rosemead
Mailing Address State:	CA
Mailing Address Zip Code:	91770
Operator Name:	Southern California Edison Co. - Aircraft Operations
Operator Phone:	909-974-4691
Owner Phone:	(626) 302-1212
Owner Mail Address:	P.O. Box 800 (Attn: CEH&S Compliance - MOB)
Owner State:	CA
Owner Zip Code:	91770
Owner Country:	United States
Property Owner Name:	Southern California Edison
Property Owner Phone:	(626) 302-1212
Property Owner Mailing Address:	P.O. Box 800 (Attn: CEH&S Compliance - MOB)
Property Owner City:	Rosemead
Property Owner Stat :	CA
Property Owner Zip Code:	91770
Property Owner Country:	United States
EPAID:	CAR000220640

D53 **SQUARE ONE AVIATION** **San Bern. Co. Permit** **S106911107**
SW **7000 MERRILL AVE BX 68** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 33 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0006363
Owner:	WARD, ELMER & BRET
Permit Number:	PT0008384
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status:	INACTIVE
Expiration Date:	07/31/2005

Region:	SAN BERNARDINO
Facility ID:	FA0006363
Owner:	WARD, ELMER & BRET
Permit Number:	PT0008385
Permit Category:	HAZARDOUS WASTE GENERATOR - 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	07/31/2005

D54 **CHINO ROAD YARD** **AST** **S101618757**
SW **7000 MERRILL AVE** **SWEEPS UST** **N/A**
1/8-1/4 **CHINO, CA 91710** **HIST UST**
0.224 mi. **CA FID UST**
1185 ft. **Site 34 of 43 in cluster D** **Cortese**
EMI

Relative:
Lower

San Bern. Co. Permit

Actual:
639 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	SAN BERNARDINO COUNTY FLEET MANAGEMENT

CHINO ROAD YARD (Continued) **S101618757**

Total Gallons:	Not reported
CERSID:	10037797
Facility ID:	FA0002277
Business Name:	FLEET MANAGEMENT
Phone:	(909) 597-3910
Fax:	(909) 387-8001
Mailing Address:	7000 E. MERRILL AVE BOX 4
Mailing Address City:	CHINO
Mailing Address State:	CA
Mailing Address Zip Code:	91710
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	(909) 387-7855
Owner Mail Address:	210 N LENA RD
Owner State:	CA
Owner Zip Code:	Not reported
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

SWEEPS UST:

Status:	Active
Comp Number:	8707
Number:	5
Board Of Equalization:	44-020093
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	15
SWRCB Tank Id:	36-000-008707-000001
Tank Status:	A
Capacity:	10000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	5

Status:	Active
Comp Number:	8707
Number:	5
Board Of Equalization:	44-020093
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	16
SWRCB Tank Id:	36-000-008707-000002
Tank Status:	A
Capacity:	10000
Active Date:	07-01-85
Tank Use:	M.V. FUEL

CHINO ROAD YARD (Continued) **S101618757**

STG: P
Content: LEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 8707
Number: 5
Board Of Equalization: 44-020093
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 17
SWRCB Tank Id: 36-000-008707-000003
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 8707
Number: 5
Board Of Equalization: 44-020093
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: AVGAS1
SWRCB Tank Id: 36-000-008707-000004
Tank Status: A
Capacity: 12000
Active Date: 06-29-94
Tank Use: M.V. FUEL
STG: P
Content: AVIA. GAS
Number Of Tanks: Not reported

Status: Active
Comp Number: 8707
Number: 5
Board Of Equalization: 44-020093
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: JET-A1
SWRCB Tank Id: 36-000-008707-000005
Tank Status: A
Capacity: 12000
Active Date: 06-29-94
Tank Use: M.V. FUEL
STG: P
Content: JET FUEL
Number Of Tanks: Not reported

HIST UST:
File Number: 0002A5A7

CHINO ROAD YARD (Continued) **S101618757**

URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A5A7.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	36002274
Regulated By:	UTNKA
Regulated ID:	00008707
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	825 E 003RD ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CHINO 91710
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active
Facility ID:	36002274
Regulated By:	UTNKA
Regulated ID:	00010545
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	7000 MERRILL AVENUE BOX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CHINO 91710
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported

CHINO ROAD YARD (Continued) **S101618757**

Comments: Not reported
Status: Active

CORTESE:
Region: CORTESE
Envirostor Id: Not reported
Site/Facility Type: Not reported
Cleanup Status: Not reported
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: CORTESE
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Cease Desist Orders & Cleanup Abatement Orders

EMI:
Year: 2002
County Code: 36
Air Basin: SC
Facility ID: 101972
Air District Name: SC
SIC Code: 7699
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2003
County Code: 36
Air Basin: SC
Facility ID: 101972
Air District Name: SC
SIC Code: 7699
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0

CHINO ROAD YARD (Continued) **S101618757**

SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2004
County Code: 36
Air Basin: SC
Facility ID: 101972
Air District Name: SC
SIC Code: 7699
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.07122
Reactive Organic Gases Tons/Yr: 1.01
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.13
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.09

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0002277
Owner: SAN BERNARDINO COUNTY FLEET MANAGEMENT
Permit Number: PT0003396
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 09/30/2018

Region: SAN BERNARDINO
Facility ID: FA0002277
Owner: SAN BERNARDINO COUNTY FLEET MANAGEMENT
Permit Number: PT0003384
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 09/30/2018

Region: SAN BERNARDINO
Facility ID: FA0002277
Owner: SAN BERNARDINO COUNTY FLEET MANAGEMENT
Permit Number: PT0018682
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 09/30/2013

Region: SAN BERNARDINO
Facility ID: FA0002277
Owner: SAN BERNARDINO COUNTY FLEET MANAGEMENT
Permit Number: PT0014399
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2008

D55 **ENCORE JET CENTER** **San Bern. Co. Permit** **S110071569**
SW **7000 MERRILL AVE A-235** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 35 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0002968
Owner:	ENCORE JET CENTER, LLC
Permit Number:	PT0010356
Permit Category:	REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status:	ACTIVE
Expiration Date:	11/30/2018

Region:	SAN BERNARDINO
Facility ID:	FA0002968
Owner:	ENCORE JET CENTER, LLC
Permit Number:	PT0005296
Permit Category:	HAZMAT HANDLER, UST ONLY - PER YEAR
Facility Status:	ACTIVE
Expiration Date:	11/30/2018

Region:	SAN BERNARDINO
Facility ID:	FA0002968
Owner:	ENCORE JET CENTER, LLC
Permit Number:	PT0005297
Permit Category:	WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status:	ACTIVE
Expiration Date:	11/30/2018

D56 **CORONA AERO REFINISHERS** **San Bern. Co. Permit** **S106910777**
SW **7000 MERRILL AVE 24** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 36 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:

Region:	SAN BERNARDINO
Facility ID:	FA0002505
Owner:	HATFIELD, JIM & BRASS, PATRICK
Permit Number:	PT0008405
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	07/31/2004

Region:	SAN BERNARDINO
Facility ID:	FA0002505
Owner:	HATFIELD, JIM & BRASS, PATRICK
Permit Number:	PT0008406
Permit Category:	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	07/31/2004

D57 **CAL AERO JET CENTER** **San Bern. Co. Permit** **S104771510**
SW **7000 MERRILL AVE B-350** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 37 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0006862
Owner: OLDRIDGE, PHILLIP
Permit Number: PT0010027
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2006

Region: SAN BERNARDINO
Facility ID: FA0006862
Owner: OLDRIDGE, PHILLIP
Permit Number: PT0010026
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 11/30/2005

Region: SAN BERNARDINO
Facility ID: FA0006862
Owner: OLDRIDGE, PHILLIP
Permit Number: PT0010480
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 11/30/2005

D58 **CHAMPION JETS INC** **San Bern. Co. Permit** **S109849235**
SW **7000 MERRILL AVE** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 38 of 43 in cluster D**

Relative:
Lower

Actual:
639 ft.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0010634
Owner: CHAMPIONSHIP JETS MNT, INC
Permit Number: PT0018108
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 10/31/2009

Region: SAN BERNARDINO
Facility ID: FA0010634
Owner: CHAMPIONSHIP JETS MNT, INC
Permit Number: PT0018110
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 10/31/2009

Region: SAN BERNARDINO
Facility ID: FA0010634
Owner: CHAMPIONSHIP JETS MNT, INC
Permit Number: PT0018107
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE

CHAMPION JETS INC (Continued) **S109849235**

Expiration Date: 10/31/2008

Region: SAN BERNARDINO
Facility ID: FA0010634
Owner: CHAMPIONSHIP JETS MNT, INC
Permit Number: PT0018109
Permit Category: ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)
Facility Status: INACTIVE
Expiration Date: 10/31/2008

D59 **AIRCRAFTSMAN, INC** **San Bern. Co. Permit** **S109849294**
SW **7000 MERRILL AVE HNGR B350** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 39 of 43 in cluster D**

Relative: **Lower**

Actual: **639 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0012605
Owner: WILSON, MARK
Permit Number: PT0022001
Permit Category: LARGE QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2010

Region: SAN BERNARDINO
Facility ID: FA0012605
Owner: WILSON, MARK
Permit Number: PT0022000
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 08/31/2010

D60 **NORTH ORANGE AVIATION** **San Bern. Co. Permit** **S110656305**
SW **7000 MERRILL AVE HGR 3** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 40 of 43 in cluster D**

Relative: **Lower**

Actual: **639 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0004997
Owner: REID, KEITH
Permit Number: PT0008396
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 07/31/2002

D61 **INLAND VALLEY AVIATION INC** **San Bern. Co. Permit** **S109849349**
SW **7000 MERRILL AVE UNIT A335** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 41 of 43 in cluster D**

Relative: **Lower**

Actual: **639 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0012712
Owner: INLAND VALLEY AVIATION INC
Permit Number: PT0022179
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2018

Region: SAN BERNARDINO
Facility ID: FA0012712
Owner: INLAND VALLEY AVIATION INC
Permit Number: PT0022180
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2018

D62 **FAA CNO ATCT** **San Bern. Co. Permit** **S104766172**
SW **7000 MERRILL AVE** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.224 mi.
1185 ft. **Site 42 of 43 in cluster D**

Relative: **Lower**

Actual: **639 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0003024
Owner: Federal Aviation Administration
Permit Number: PT0008401
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 11/30/2018

D63 **AERO TRADER** **CPS-SLIC** **S103948886**
SW **7000 MERRILL AV, #19** **EMI** **N/A**
1/8-1/4 **CHINO, CA 91710** **HAZNET**
0.224 mi. **San Bern. Co. Permit**
1185 ft. **Site 43 of 43 in cluster D**

Relative: **Lower**

Actual: **639 ft.**

CPS-SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 05/16/2017
Global Id: SL208634049
Lead Agency: SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number: Not reported
Latitude: 33.9804492902876
Longitude: -117.645871639252
Case Type: Cleanup Program Site
Case Worker: PAH
Local Agency: Not reported
RB Case Number: 2086300
File Location: Regional Board

AERO TRADER (Continued) **S103948886**

Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: 1,2,3-Trichloropropane (TCP), Dichloroethene (DCE), Trichloroethylene (TCE)
Site History: The primary chemicals of concern in the groundwater at the site are trichloroethene, 1,2,3-trichloropropane, cis-1,2-dichloroethene, 1,2-dichloroethane, and 1,1-dichloroethene. Offsite plume characterization field activities were initiated in 2007. Twelve cone penetrometer testing (CPT)/direct push borings were advanced to investigate the below grade lithology, and to determine the horizontal and vertical extent of the VOCs in the groundwater in the vicinity of the site. Eleven additional direct push borings were also advanced, and water samples were collected. The soils encountered consisted of silts, sands, gravels and some clay lenses. The depth to groundwater ranged from 25 to 50 feet below ground surface (bgs), with the depth to water decreasing toward the south. Groundwater was detected at approximately 50 feet bgs at the Kimball Avenue boring location, approximately 30 to 45 feet bgs at the Bickmore Avenue boring locations and approximately 25 to 35 feet bgs at the Pine Avenue boring locations. The local groundwater flow direction is toward the southeast. Based on the results of the investigation in 2007, nine nested groundwater monitoring wells were installed in 2008 at three locations along the axis of the plume. Three wells were installed at each location to monitor the shallow (approximately 35 to 96 feet bgs), intermediate (approximately 91 to 146 feet bgs) and deep (approximately 206 to 309 feet bgs) groundwater zones.

Click here to access the California GeoTracker records for this facility:

EMI:

Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	45213
Air District Name:	SC
SIC Code:	5199
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	45213
Air District Name:	SC
SIC Code:	1711
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2

AERO TRADER (Continued) **S103948886**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

AERO TRADER (Continued) **S103948886**

Year:	1996
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Year:	1997
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581

AERO TRADER (Continued) **S103948886**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Year:	2002
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0

AERO TRADER (Continued) **S103948886**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.4188
Reactive Organic Gases Tons/Yr:	0.77
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.325
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.28

Year:	2005
County Code:	36
Air Basin:	SC
Facility ID:	55101
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.9856
Reactive Organic Gases Tons/Yr:	.67271826
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.086

AERO TRADER (Continued) **S103948886**

HAZNET:

envid:	S103948886
Year:	2015
GEPAID:	CAC002843070
Contact:	MIKE RIGGS
Telephone:	7146941930
Mailing Name:	Not reported
Mailing Address:	PO BOX 190
Mailing City,St,Zip:	PLACENTIA, CA 928710190
Gen County:	San Bernardino
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Waste Category:	Waste oil and mixed oil
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.8968
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

envid:	S103948886
Year:	2015
GEPAID:	CAC002806862
Contact:	SHILOH JARAMILLO
Telephone:	7142796184
Mailing Name:	Not reported
Mailing Address:	8191 E KAISER BLVD
Mailing City,St,Zip:	ANAHEIM, CA 928082214
Gen County:	San Bernardino
TSD EPA ID:	CAD980675276
TSD County:	Kern
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.2
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

envid:	S103948886
Year:	2015
GEPAID:	CAC002806862
Contact:	SHILOH JARAMILLO
Telephone:	7142796184
Mailing Name:	Not reported
Mailing Address:	8191 E KAISER BLVD
Mailing City,St,Zip:	ANAHEIM, CA 928082214
Gen County:	San Bernardino
TSD EPA ID:	NED981723513
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.075
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Bernardino

AERO TRADER (Continued) **S103948886**

envid: S103948886
Year: 2015
GEPAID: CAC002806862
Contact: SHILOH JARAMILLO
Telephone: 7142796184
Mailing Name: Not reported
Mailing Address: 8191 E KAISER BLVD
Mailing City,St,Zip: ANAHEIM, CA 928082214
Gen County: San Bernardino
TSD EPA ID: CAD980675276
TSD County: Kern
Waste Category: Unspecified organic liquid mixture
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Bernardino

envid: S103948886
Year: 2015
GEPAID: CAC002806862
Contact: SHILOH JARAMILLO
Telephone: 7142796184
Mailing Name: Not reported
Mailing Address: 8191 E KAISER BLVD
Mailing City,St,Zip: ANAHEIM, CA 928082214
Gen County: San Bernardino
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.2
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Bernardino

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0017228
Owner: JOHN SPRUCE
Permit Number: PT0036683
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 12/31/2018

Region: SAN BERNARDINO
Facility ID: FA0017228
Owner: JOHN SPRUCE
Permit Number: PT0036682
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 12/31/2018

AERO TRADER (Continued) **S103948886**

Region: SAN BERNARDINO
Facility ID: FA0003212
Owner: HINTON, STEVE
Permit Number: PT0008403
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 11/30/2018

Region: SAN BERNARDINO
Facility ID: FA0003212
Owner: HINTON, STEVE
Permit Number: PT0008402
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2018

Region: SAN BERNARDINO
Facility ID: FA0017000
Owner: Richard Considine
Permit Number: PT0037350
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 10/31/2018

Region: SAN BERNARDINO
Facility ID: FA0017000
Owner: Richard Considine
Permit Number: PT0036343
Permit Category: APSA 10,001-100,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 10/31/2018

Region: SAN BERNARDINO
Facility ID: FA0017000
Owner: Richard Considine
Permit Number: PT0036342
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 10/31/2018

Region: SAN BERNARDINO
Facility ID: FA0012994
Owner: AERO SUPPORT GROUPE
Permit Number: PT0022816
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 01/31/2011

Region: SAN BERNARDINO
Facility ID: FA0012994
Owner: AERO SUPPORT GROUPE
Permit Number: PT0022817
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 01/31/2011

Region: SAN BERNARDINO

AERO TRADER (Continued) **S103948886**

Facility ID: FA0007572
Owner: JERRY STUEVE SR
Permit Number: PT0013001
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 01/31/2019

Region: SAN BERNARDINO
Facility ID: FA0007572
Owner: JERRY STUEVE SR
Permit Number: PT0018137
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 01/31/2019

Region: SAN BERNARDINO
Facility ID: FA0007572
Owner: JERRY STUEVE SR
Permit Number: PT0018405
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 01/31/2014

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64 **CAL-AERO AIRPORT** **ENVIROSTOR** **S107735993**
SSW **N/A**
1/2-1 **CHINO, CA**
0.577 mi.
3045 ft.

Relative: **Lower**

Actual: **625 ft.**

ENVIROSTOR:
Facility ID: 80000207
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 52
Senate: 20
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.975
Longitude: -117.6383
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F538900
Alias Type: Federal Facility ID

CAL-AERO AIRPORT (Continued) **S107735993**

Alias Name: J09CA0264
Alias Type: INPR
Alias Name: 80000207
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ONTARIO	S107533176		3500 BLOCK OF EUCALYPTUS	91761	CDL
ONTARIO	S107538085		CLEVELAND, NORTH OF EUCALYPTUS		CDL
ONTARIO	1009508586	SO CAL GAS/ONTARIO MGP	CORNER OF CAMPUS, MARTLAND, MO	91761	EDR MGP
ONTARIO	S107538467		EUCALYPTUS ST/SUMNER ST		CDL
ONTARIO	S107538463		EUCALYPTUS AND MILLIKEN ST	91762	CDL
ONTARIO	S107538468		EUCALYPTUS W OF BON VIEW	91761	CDL
ONTARIO	S107539821		ON EUCALYPTUS, 3/4 MI E OF ARC	91762	CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 79

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 26
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 40

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/29/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 48

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Quarterly

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/28/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 46

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 04/19/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 10

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/05/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 41

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 51

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/21/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/07/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2018
Date Data Arrived at EDR: 05/17/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/28/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/07/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/03/2018
Date Data Arrived at EDR: 04/05/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 04/16/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 09/11/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 28

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/21/2018
Date Data Arrived at EDR: 05/23/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 107

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 40

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 04/03/2018
Date Data Arrived at EDR: 05/07/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 39

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/28/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 39

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: DRYCLEAN SOUTH COAST

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/16/2018
Date Data Arrived at EDR: 03/20/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 45

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/21/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 25

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/12/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 97

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 42

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/19/2018
Number of Days to Update: 43

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/13/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region’s active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 37

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 93

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/03/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 30

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/06/2018
Date Data Arrived at EDR: 07/10/2018
Date Made Active in Reports: 09/11/2018
Number of Days to Update: 63

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/02/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 14

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/11/2018
Number of Days to Update: 21

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 05/02/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 44

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/18/2018
Number of Days to Update: 13

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 08/30/2018
Number of Days to Update: 44

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 40

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 43

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/20/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 49

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 08/24/2018
Date Made Active in Reports: 09/18/2018
Number of Days to Update: 25

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 13

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 30

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 59
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/16/2018
Date Data Arrived at EDR: 07/18/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 37
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/18/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 04/17/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 63
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/05/2018
Date Made Active in Reports: 01/18/2018
Number of Days to Update: 13

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/30/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 15

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 57

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 07/18/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 15

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 34

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 07/02/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 41

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 34

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/06/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/05/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 43

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 42

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 61

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/07/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/03/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/03/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 41

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 41

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 31
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 06/07/2018
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 17

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 52

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 59

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/17/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 16

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/11/2018
Number of Days to Update: 36
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/08/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 40
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 07/12/2018
Number of Days to Update: 30
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/19/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 21

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/03/2018
Date Data Arrived at EDR: 07/10/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 45

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 8

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/08/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 33

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 09/13/2018
Date Data Arrived at EDR: 09/14/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 5

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 09/13/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 41

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 29
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 04/26/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 28
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/20/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 07/12/2018
Number of Days to Update: 9
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/10/2018
Date Data Arrived at EDR: 05/15/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 31
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 08/01/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/12/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

GEORGE BORBA SITE
7955 EUCALYPTUS AVE
CHINO, CA 91710

TARGET PROPERTY COORDINATES

Latitude (North):	33.989449 - 33° 59' 22.02''
Longitude (West):	117.631268 - 117° 37' 52.56''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	441694.8
UTM Y (Meters):	3760971.2
Elevation:	671 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640938 PRADO DAM, CA
Version Date:	2012
Northeast Map:	5620426 GUASTI, CA
Version Date:	2012
Southeast Map:	5640930 CORONA NORTH, CA
Version Date:	2012
Northwest Map:	5619074 ONTARIO, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

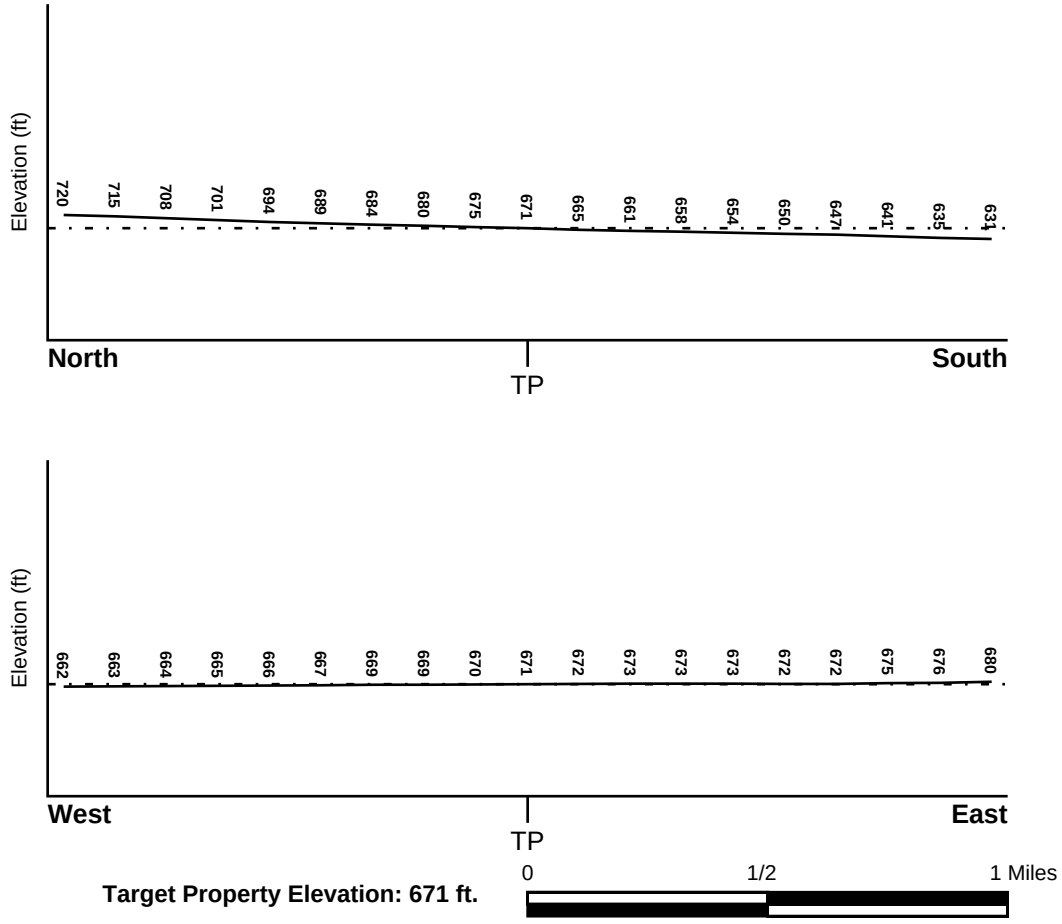
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 671 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06071C9335H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1750F	FEMA FIRM Flood data
06071C8620H	FEMA FIRM Flood data
06071C8638H	FEMA FIRM Flood data
06071C9375H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PRADO DAM	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

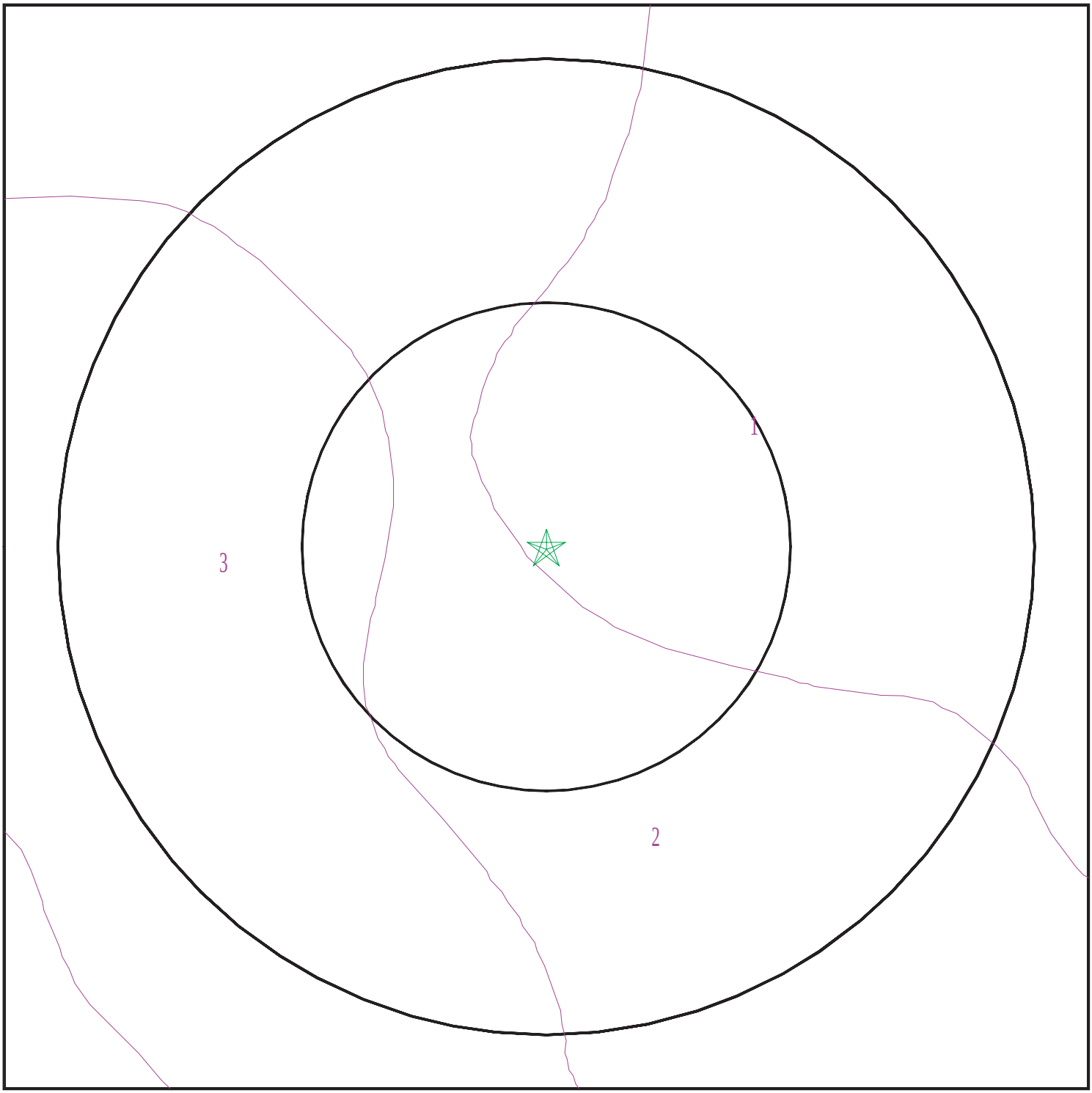
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5440037.2s



SITE NAME:	George Borba Site	CLIENT:	Group Delta Consultants
ADDRESS:	7955 Eucalyptus Ave Chino CA 91710	CONTACT:	Elaine Horng
LAT/LONG:	33.989449 / 117.631268	INQUIRY #:	5440037.2s
		DATE:	October 01, 2018 4:40 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	18 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: HILMAR

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
2	22 inches	59 inches	stratified loamy sand to loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

Soil Map ID: 3

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	11 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

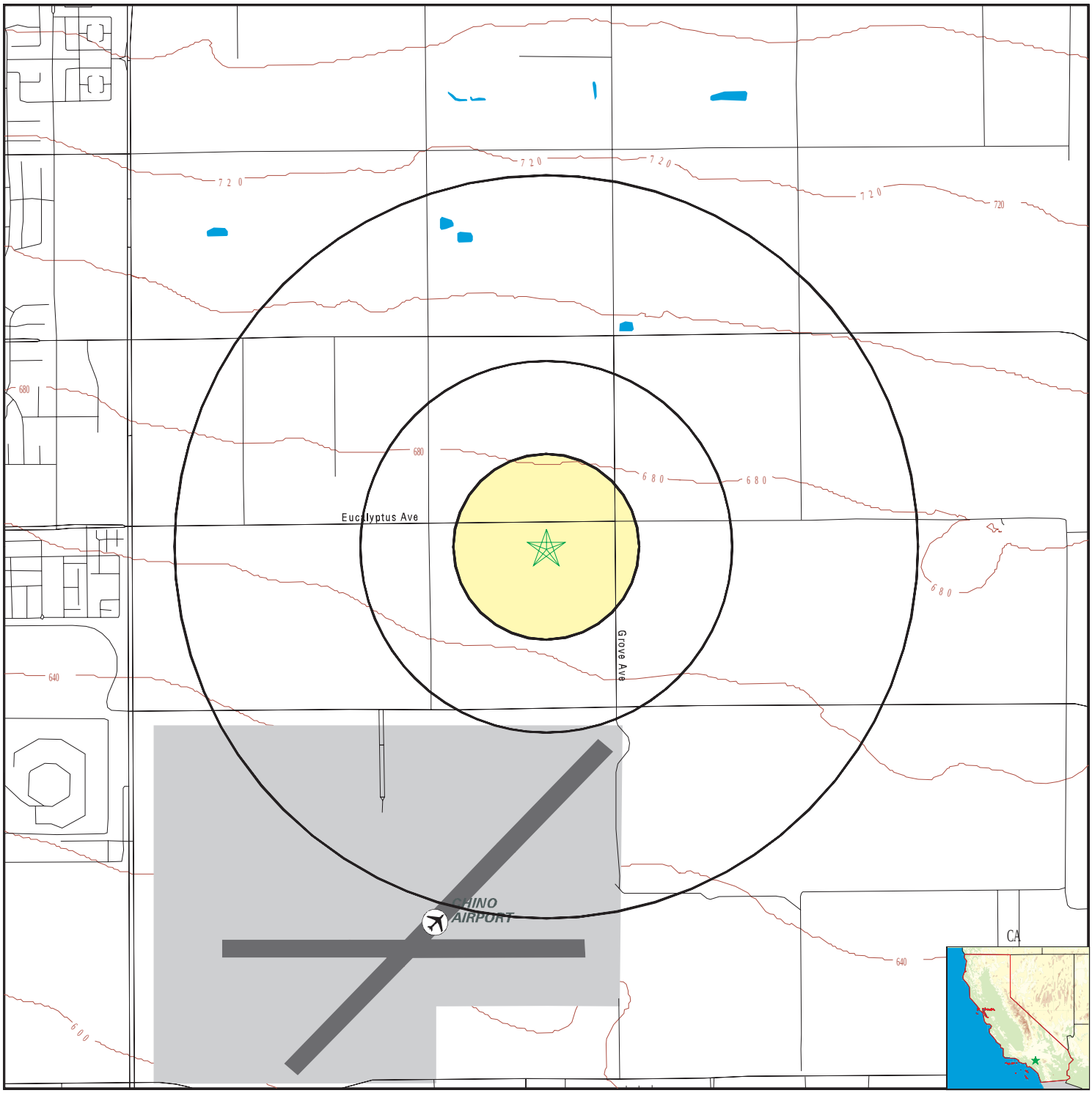
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 5440037.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	George Borba Site	CLIENT:	Group Delta Consultants
ADDRESS:	7955 Eucalyptus Ave Chino CA 91710	CONTACT:	Elaine Horng
		INQUIRY #:	5440037.2s
LAT/LONG:	33.989449 / 117.631268	DATE:	October 01, 2018 4:39 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91710	14	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 91710

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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George Borba Site

Eucalyptus and Grove

Chino, CA 91710

Inquiry Number: 5220547.9

March 15, 2018

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

03/15/18

Site Name:

George Borba Site
Eucalyptus and Grove
Chino, CA 91710
EDR Inquiry # 5220547.9

Client Name:

Group Delta Consultants
1035 S. Milliken Ave Suite G
Ontario, CA 91761
Contact: Jack Packwood

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Search Results:

Year	Scale	Details	Source
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: August 29, 1990	USDA
1989	1"=500'	Flight Date: August 03, 1989	USDA
1987	1"=500'	Flight Date: March 29, 1987	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1966	1"=500'	Flight Date: April 16, 1966	USGS
1953	1"=500'	Flight Date: March 03, 1953	USDA
1948	1"=500'	Flight Date: July 10, 1948	USGS
1946	1"=500'	Flight Date: December 29, 1946	USGS
1938	1"=500'	Flight Date: May 30, 1938	USDA

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INQUIRY #: 5220547.9
YEAR: 2014
= 500'
N
EDR

INQUIRY #: 5220547.9
YEAR: 2010
= 500'
N
EDR

INQUIRY #: 5220547.9

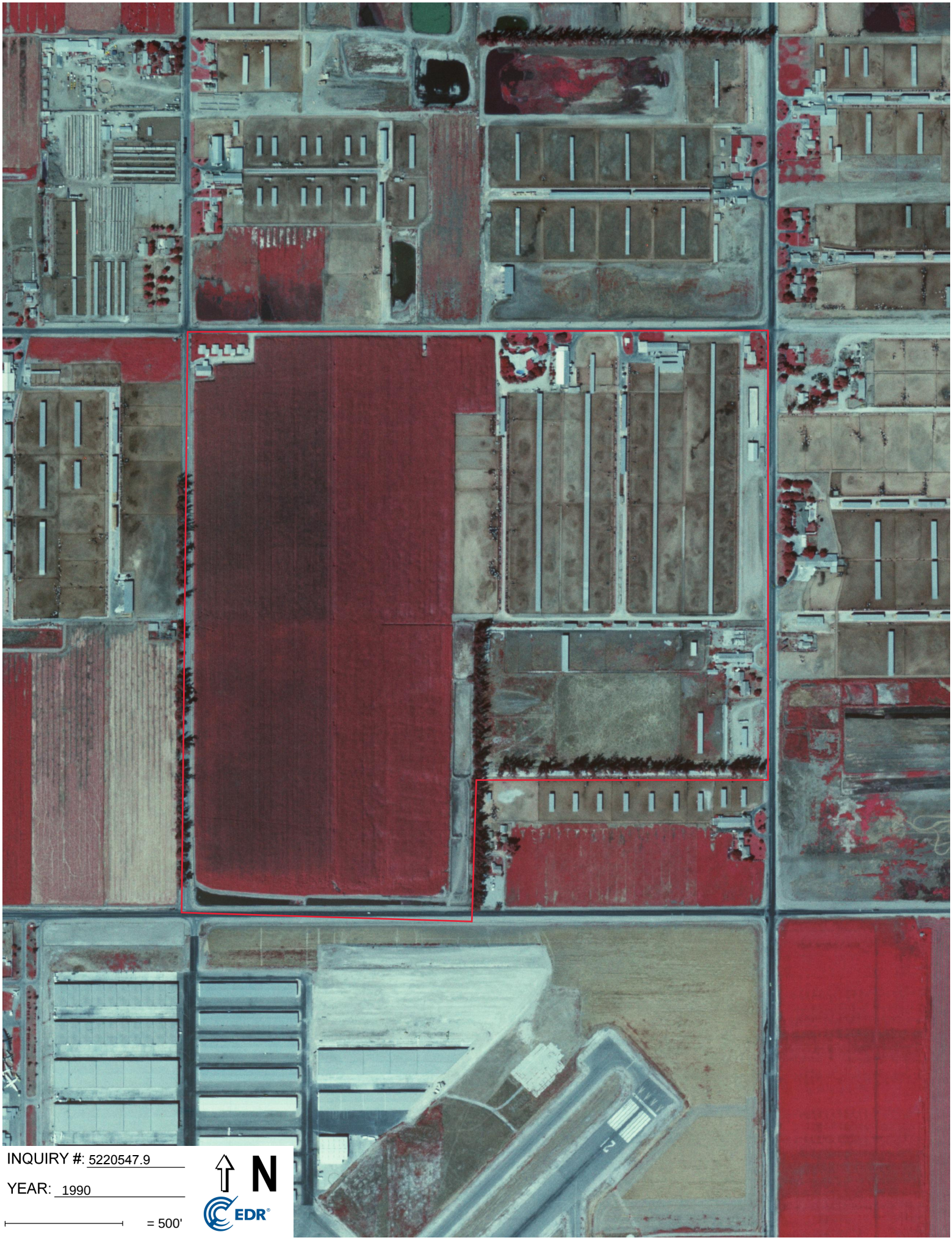
YEAR: 2006

= 500'

N

EDR

INQUIRY #: 5220547.9
YEAR: 1994
= 500'
N
EDR



INQUIRY #: 5220547.9

YEAR: 1990

= 500'

N

EDR

INQUIRY #: 5220547.9
YEAR: 1989
= 500'
N
EDR

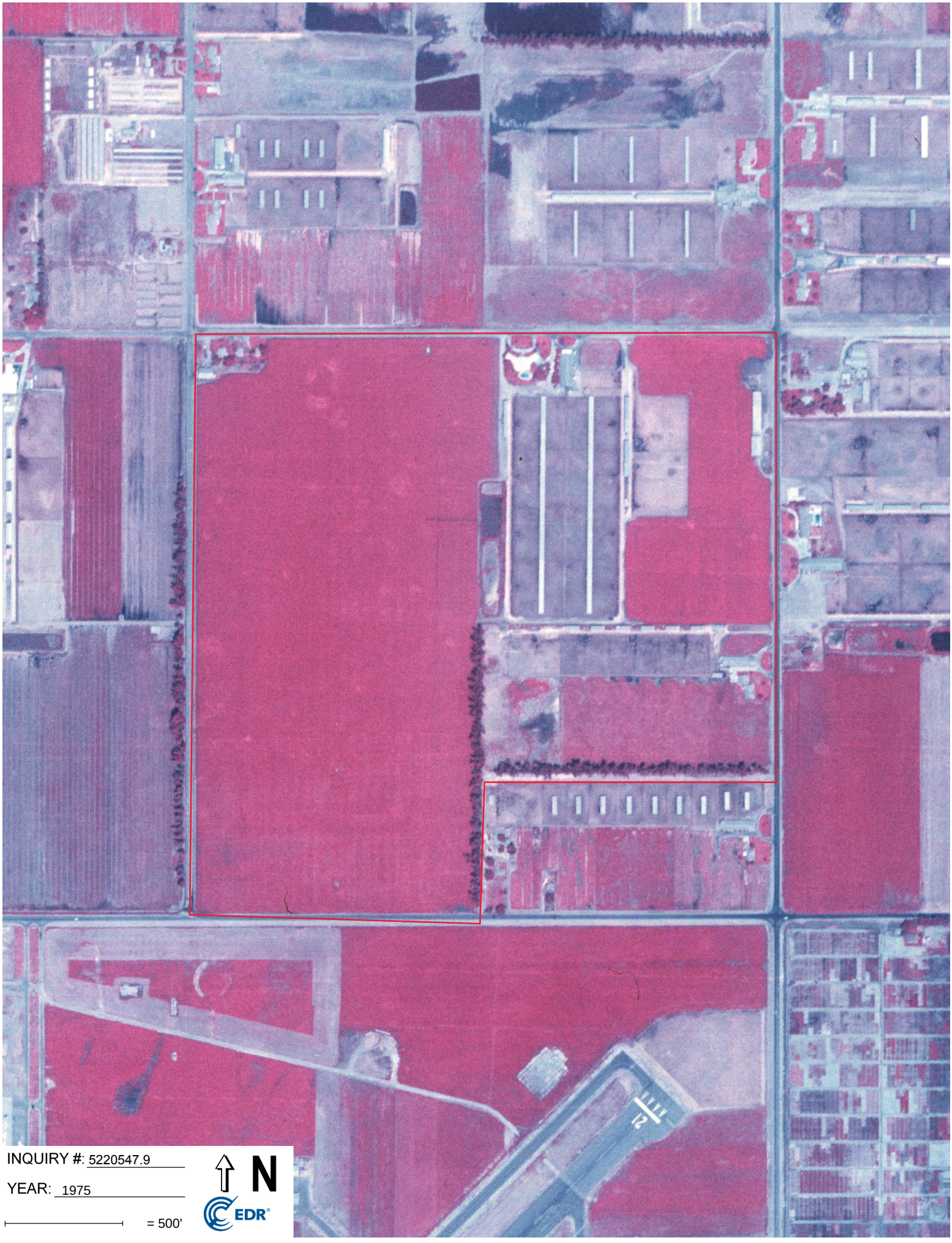
INQUIRY #: 5220547.9

YEAR: 1987

= 500'

N

EDR


INQUIRY #: 5220547.9
YEAR: 1975
= 500'
N
EDR

INQUIRY #: 5220547.9

YEAR: 1966

= 500'

N

EDR

INQUIRY #: 5220547.9
YEAR: 1953
= 500'
N
EDR

INQUIRY #: 5220547.9

YEAR: 1948

= 500'

N

EDR

INQUIRY #: 5220547.9
YEAR: 1946
= 500'
N
EDR

INQUIRY #: 5220547.9
YEAR: 1938
= 500'
N
EDR

George Borba Site
Eucalyptus and Grove
Chino, CA 91710

Inquiry Number: 5220547.5
March 14, 2018

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	-	-	-
2010	EDR Digital Archive	-	-	-	-
2008	Haines Company, Inc.	-	X	X	-
2003	Haines & Co Publishers	-	X	X	-
2002	Cole Information Services	-	-	-	-
1996	GTE	-	X	X	-
1995	GTE Directories	-	-	-	-
1991	GTE California Incorporated	-	-	-	-
1990	GTE	-	X	X	-
	GTE California Incorporated	-	X	X	-
1985	GTE	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1981	General Telephone Company of California	-	-	-	-
1980	GTE	-	X	X	-
1975	GTE Directories	-	X	X	-
1970	General Telephone Company of California	-	X	X	-
1965	GTE	-	X	X	-
1964	Luskey Brothers & Co	-	-	-	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	General Telephone Company Publishers	-	X	X	-
1956	General Telephone Company Publishers	-	X	X	-
1955	Luskey Brothers Co Publishers	-	-	-	-
1951	Los Angeles Directory Company Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern California Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co Publisher	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Eucalyptus and Grove
Chino, CA 91710

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

ETIWANDA AVE

80336619 ETIWANDA AVE

Year	Uses	Source
1960	Stevens H Lee Mrs	General Telephone Company Publishers

87696871 ETIWANDA AVE

Year	Uses	Source
1960	Colombero Construction Co	General Telephone Company Publishers

EUCALYPTUS AVE

7955 EUCALYPTUS AVE

Year	Uses	Source
2003	BORBA George	Haines & Co Publishers
1996	Borba Geo	GTE
1990	BORBA GEO	GTE California Incorporated
1985	BORBA GEO	GTE
1980	BORBA GEO	GTE
1970	BORBA GEORGE	General Telephone Company of California

GROVE AV CHURCH N

14525 GROVE AV CHURCH N

Year	Uses	Source
1990	Garcia Hector	GTE

GROVE AVE

14361 GROVE AVE

Year	Uses	Source
2003	ALEWYN Jake J	Haines & Co Publishers
1980	ALEWYN JAKE J	GTE

14400 GROVE AVE

Year	Uses	Source
2003	FERREIRA Joe	Haines & Co Publishers

FINDINGS

Year	Uses	Source
1975	Ferreira Joe C Jr	GTE Directories

14441 GROVE AVE

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
2003	XXXX	Haines & Co Publishers
1980	MIERSMA BOB	GTE
1975	Miersma Harlan	GTE Directories
1970	VANOERVEEN JOE	General Telephone Company of California

14474 GROVE AVE

Year	Uses	Source
2008	MOUW Travis N	Haines Company, Inc.
2003	MIERSMA Harlan	Haines & Co Publishers
1996	Miersma Harlan	GTE
1990	Miersma Harlan	GTE
1985	MIERSMA HARLAN	GTE
1980	MIERSMA HARLAN	GTE
1975	Miersma Harry	GTE Directories
1970	VANDER VEEN WILBUR	General Telephone Company of California

14525 GROVE AVE

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
2003	XXXX	Haines & Co Publishers
1985	GARCIA HECTOR	GTE
1980	GARCIA HECTOR	GTE
1975	Borba Joe Jr	GTE Directories

14544 GROVE AVE

Year	Uses	Source
2008	ORNELLAS Carmen	Haines Company, Inc.
2003	CAMPOS Norma	Haines & Co Publishers
1990	Silva Paul	GTE
1985	+ SILVA PAUL	GTE
1980	SILVA RICHARO	GTE

14545 GROVE AVE

Year	Uses	Source
2008	BORBA JOE DAIRY	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2003	BORBA JOE DAIRY	Haines & Co Publishers
1996	BORBA JOE DAIRY	GTE
1990	Borba Joe Dairy	GTE
1985	9 BORBA JOE DAIRY	GTE
1980	+ SANTOS JOHN	GTE
	BORBA JOE DAIRY	GTE
1975	Borba Joe Dairy	GTE Directories
1970	a BORBA JOE DAIRY	General Telephone Company of California
1960	Borba Johnny	General Telephone Company Publishers
	Borba Johnny	General Telephone Company Publishers
1956	Borba Johnny	General Telephone Company Publishers
	Borba Johnny	General Telephone Company Publishers

14547 GROVE AVE

Year	Uses	Source
2003	XXXX	Haines & Co Publishers

14651 GROVE AVE

Year	Uses	Source
2008	HARDISTY J	Haines Company, Inc.
	HARDISTY M	Haines Company, Inc.

14746 GROVE AVE

Year	Uses	Source
2008	SANDOVAL Jennel	Haines Company, Inc.

N GROVE AVE

14545 N GROVE AVE

Year	Uses	Source
1965	BORBA JOE 62 B 0132	GTE
	n TEIXIERA ANTONIO	GTE

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
Eucalyptus and Grove	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
14361 GROVE AVE	2014, 2010, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14400 GROVE AVE	2014, 2010, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14441 GROVE AVE	2014, 2010, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14474 GROVE AVE	2014, 2010, 2002, 1995, 1991, 1981, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14525 GROVE AV CHURCH N	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14525 GROVE AVE	2014, 2010, 2002, 1996, 1995, 1991, 1990, 1981, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14544 GROVE AVE	2014, 2010, 2002, 1996, 1995, 1991, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14545 GROVE AVE	2014, 2010, 2002, 1995, 1991, 1981, 1965, 1964, 1961, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14545 N GROVE AVE	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14547 GROVE AVE	2014, 2010, 2008, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
14651 GROVE AVE	2014, 2010, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
14746 GROVE AVE	2014, 2010, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
7955 EUCALYPTUS AVE	2014, 2010, 2008, 2002, 1995, 1991, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
80336619 ETIWANDA AVE	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
87696871 ETIWANDA AVE	2014, 2010, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

George Borba Site
Eucalyptus and Grove
Chino, CA 91710

Inquiry Number: 5220547.3
March 14, 2018

Certified Sanborn® Map Report

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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

03/14/18

Site Name:

George Borba Site
Eucalyptus and Grove
Chino, CA 91710
EDR Inquiry # 5220547.3

Client Name:

Group Delta Consultants
1035 S. Milliken Ave Suite G
Ontario, CA 91761
Contact: Jack Packwood

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Certified Sanborn Results:

Certification # 5266-4F9A-84A1

PO # NA

Project Hillwood - George Borba Site

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 5266-4F9A-84A1

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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George Borba Site
Eucalyptus and Grove
Chino, CA 91710

Inquiry Number: 5220547.4
March 14, 2018

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

03/14/18

Site Name:

George Borba Site
Eucalyptus and Grove
Chino, CA 91710
EDR Inquiry # 5220547.4

Client Name:

Group Delta Consultants
1035 S. Milliken Ave Suite G
Ontario, CA 91761
Contact: Jack Packwood

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Group Delta Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: Hillwood - George Borba Site

Coordinates:

Latitude:	33.989428 33° 59' 22" North
Longitude:	-117.634551 -117° 38' 4" West
UTM Zone:	Zone 11 North
UTM X Meters:	441392.88
UTM Y Meters:	3761165.21
Elevation:	669.18' above sea level

Maps Provided:

2012
1981
1973
1950, 1953, 1954
1949
1944, 1947
1942
1941
1933
1902

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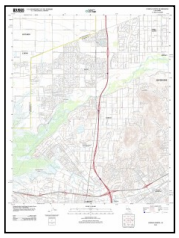
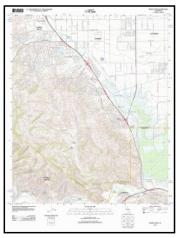
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

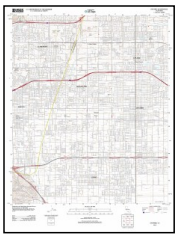


Corona North
2012
7.5-minute, 24000



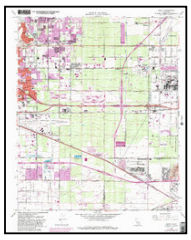
Prado Dam
2012
7.5-minute, 24000

Guasti
2012
7.5-minute, 24000

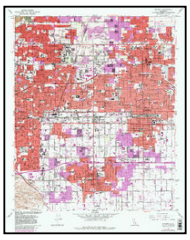


Ontario
2012
7.5-minute, 24000

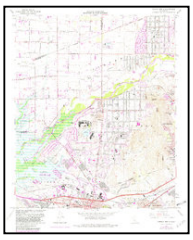
1981 Source Sheets



Guasti
1981
7.5-minute, 24000
Aerial Photo Revised 1978



Ontario
1981
7.5-minute, 24000
Aerial Photo Revised 1978



Corona North
1981
7.5-minute, 24000
Aerial Photo Revised 1978

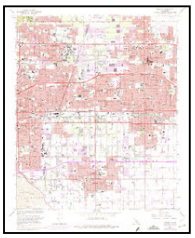
Prado Dam
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1973 Source Sheets

Guasti
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Corona North
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Prado Dam
1973
7.5-minute, 24000
Aerial Photo Revised 1973



Ontario
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1950, 1953, 1954 Source Sheets

Prado Dam
1950
7.5-minute, 24000
Aerial Photo Revised 1946

Guasti
1953
7.5-minute, 24000
Aerial Photo Revised 1952

Corona North
1954
7.5-minute, 24000
Aerial Photo Revised 1952

Ontario
1954
7.5-minute, 24000
Aerial Photo Revised 1952

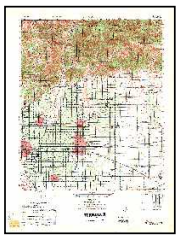
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1949 Source Sheets

Prado Dam
1949
7.5-minute, 24000
Aerial Photo Revised 1946

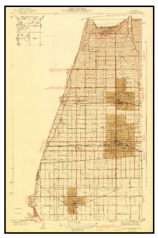
1944, 1947 Source Sheets



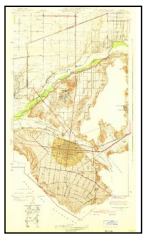
CUCAMONGA
1944
15-minute, 50000

CORONA
1947
15-minute, 50000

1942 Source Sheets



Ontario and Vicinity
1942
7.5-minute, 31680



Corona and Vicinity
1942
7.5-minute, 31680

1941 Source Sheets

Prado
1941
7.5-minute, 31680

GUASTI VICINITY
1941
7.5-minute, 31680

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1933 Source Sheets

Prado
1933
7.5-minute, 31680

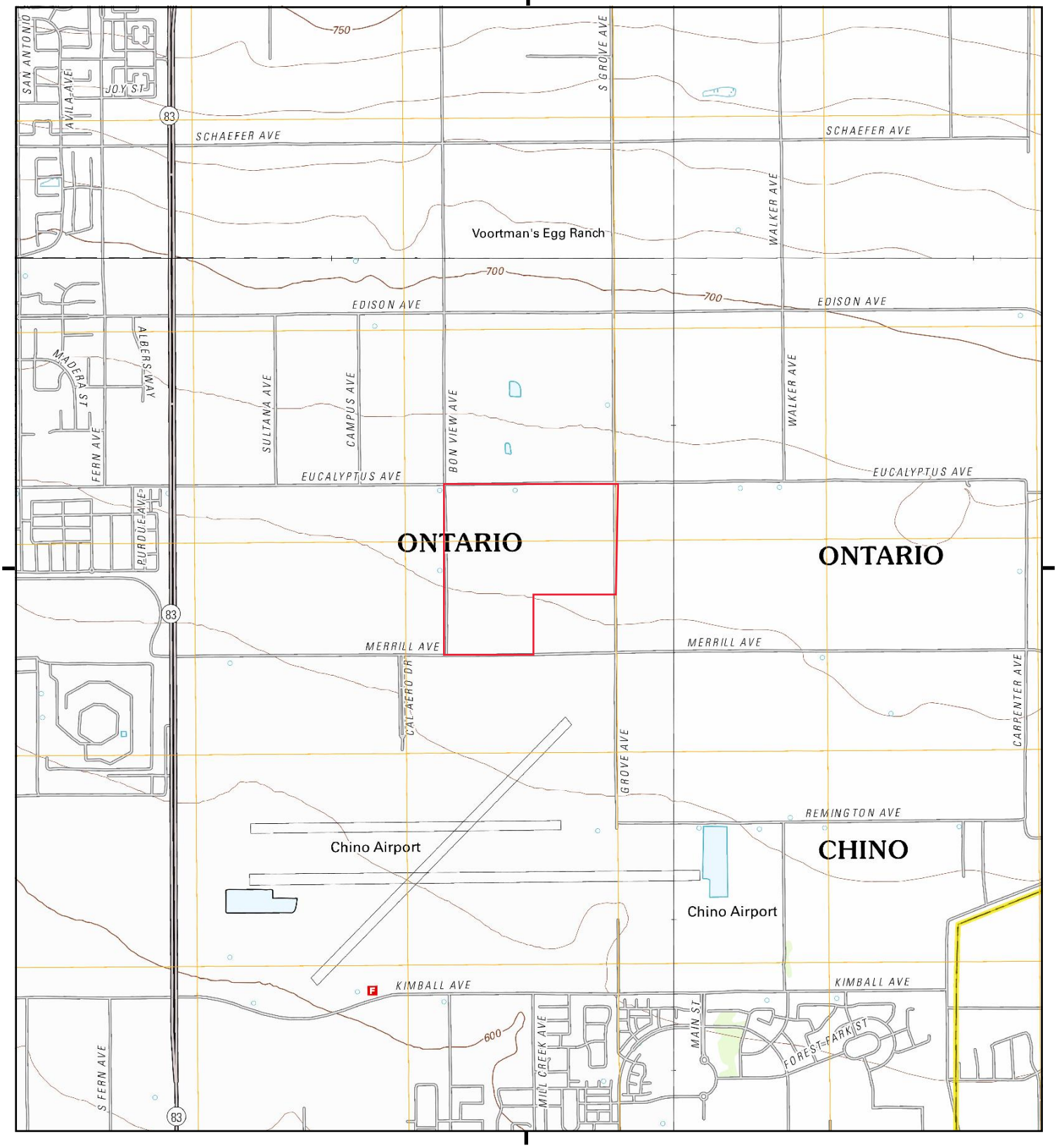
Ontario
1933
7.5-minute, 31680

1902 Source Sheets

Corona
1902
30-minute, 125000

Historical Topo Map

2012



This report includes information from the following map sheet(s).

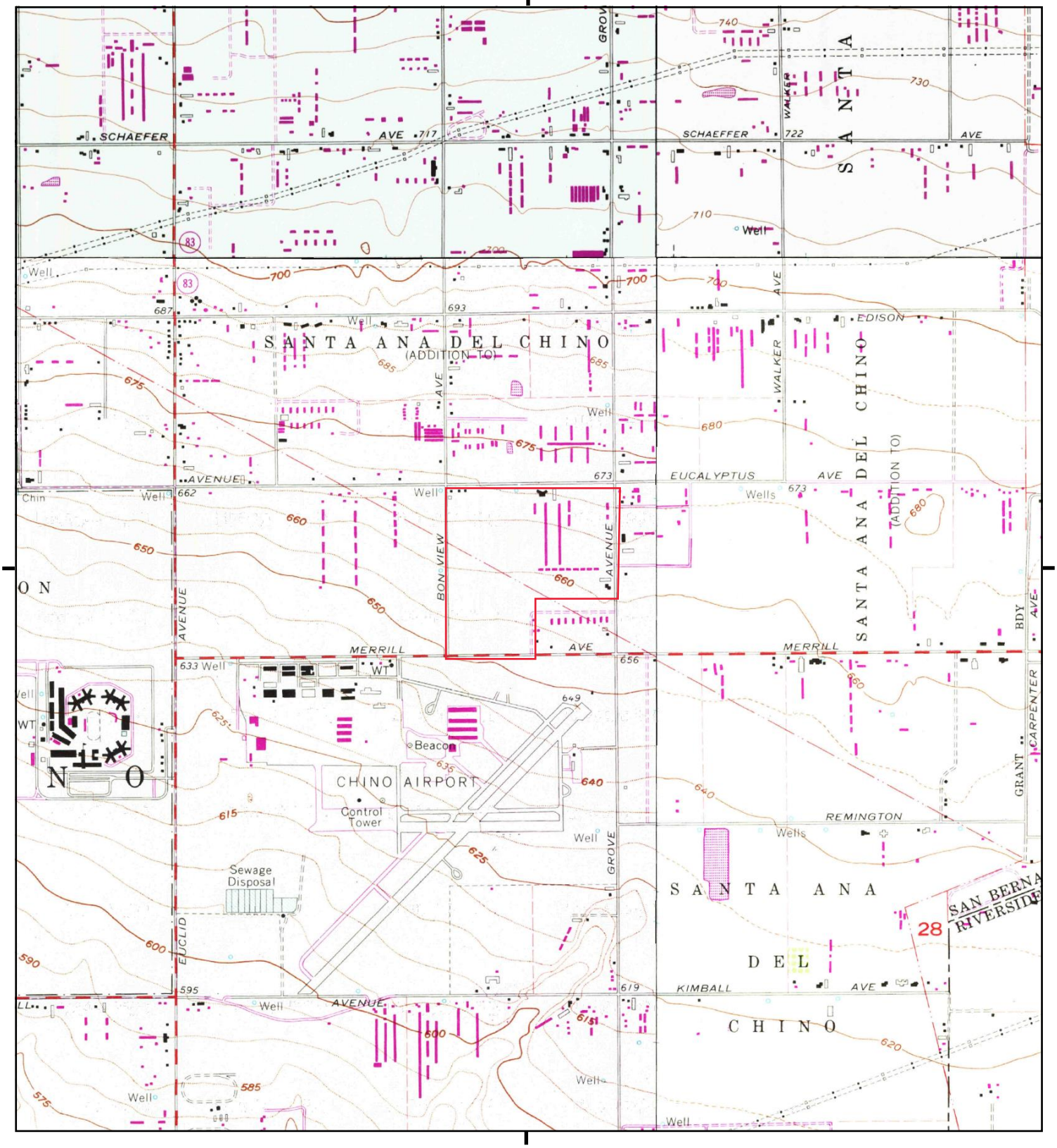
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Prado Dam, 2012, 7.5-minute
NE, Guasti, 2012, 7.5-minute
SE, Corona North, 2012, 7.5-minute
NW, Ontario, 2012, 7.5-minute

SITE NAME: George Borba Site
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

N



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W E
SW S SE

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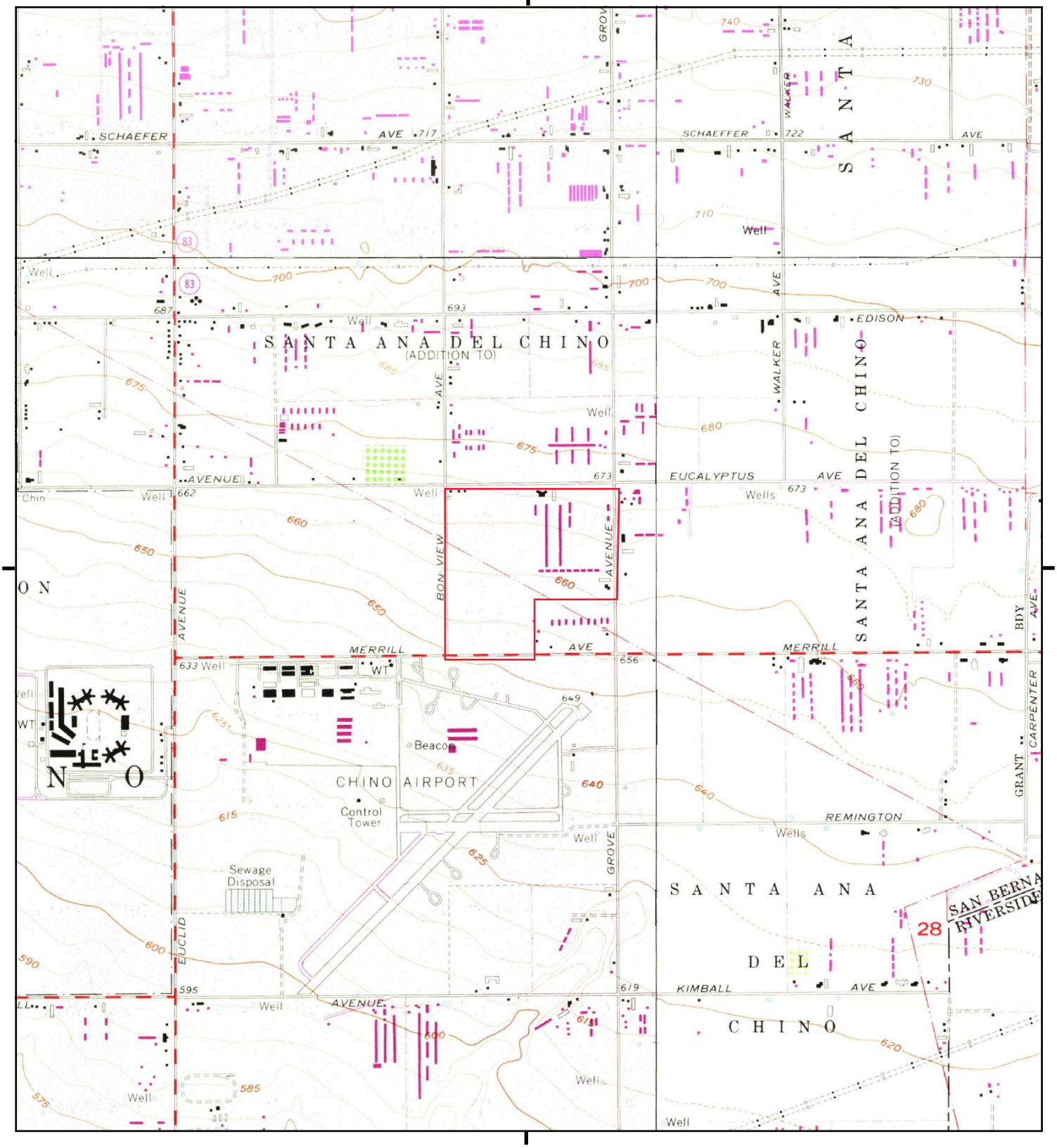
NE, Guasti, 1981, 7.5-minute
SE, Corona North, 1981, 7.5-minute
NW, Ontario, 1981, 7.5-minute

SITE NAME: George Borba Site
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

N



This report includes information from the following map sheet(s).

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W E
SW S SE

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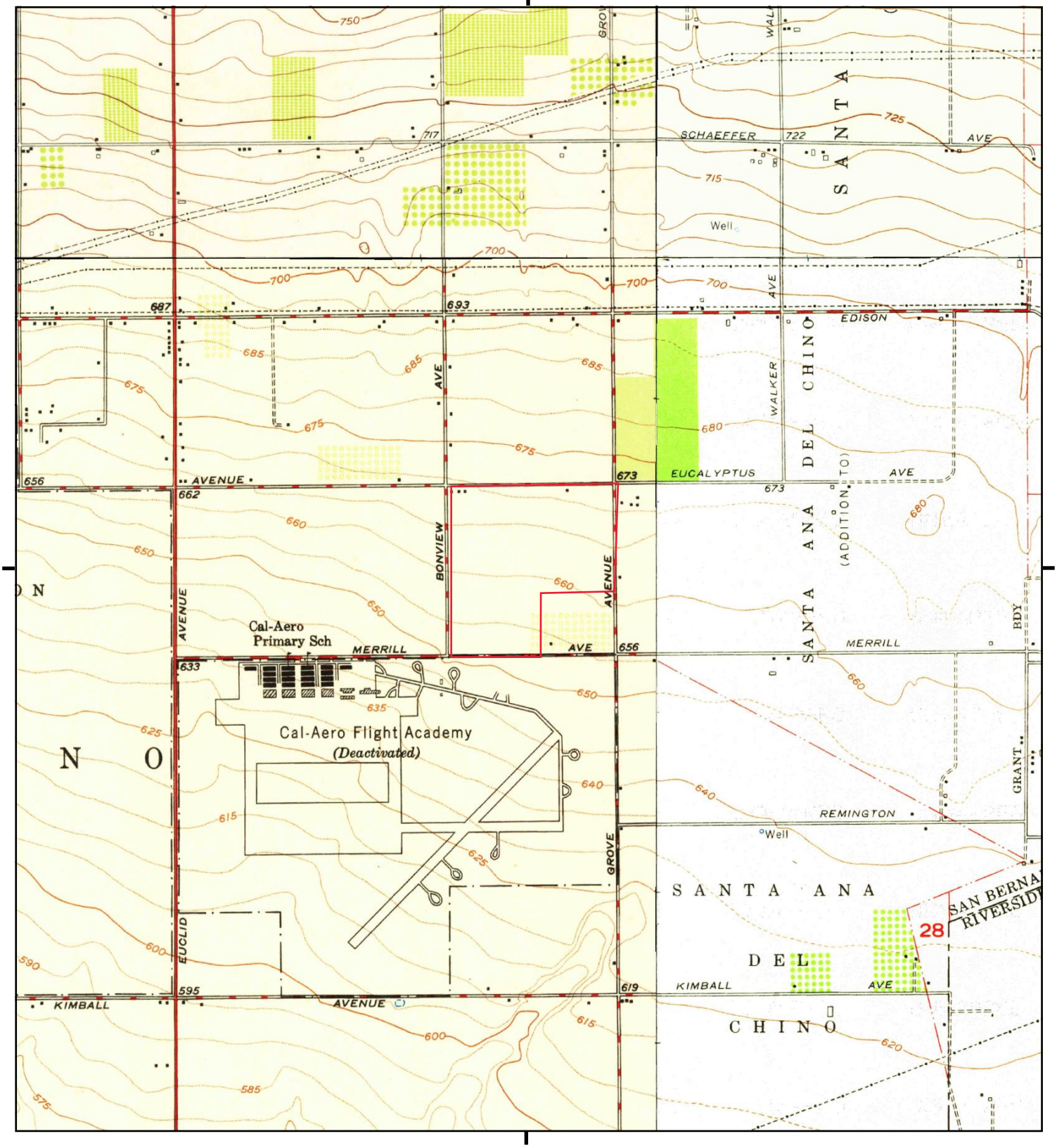
NE, Guasti, 1973, 7.5-minute
SE, Corona North, 1973, 7.5-minute
NW, Ontario, 1973, 7.5-minute

SITE NAME: George Borba Site
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

N

Historical Topo Map

1950, 1953, 1954



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W E
SW S SE

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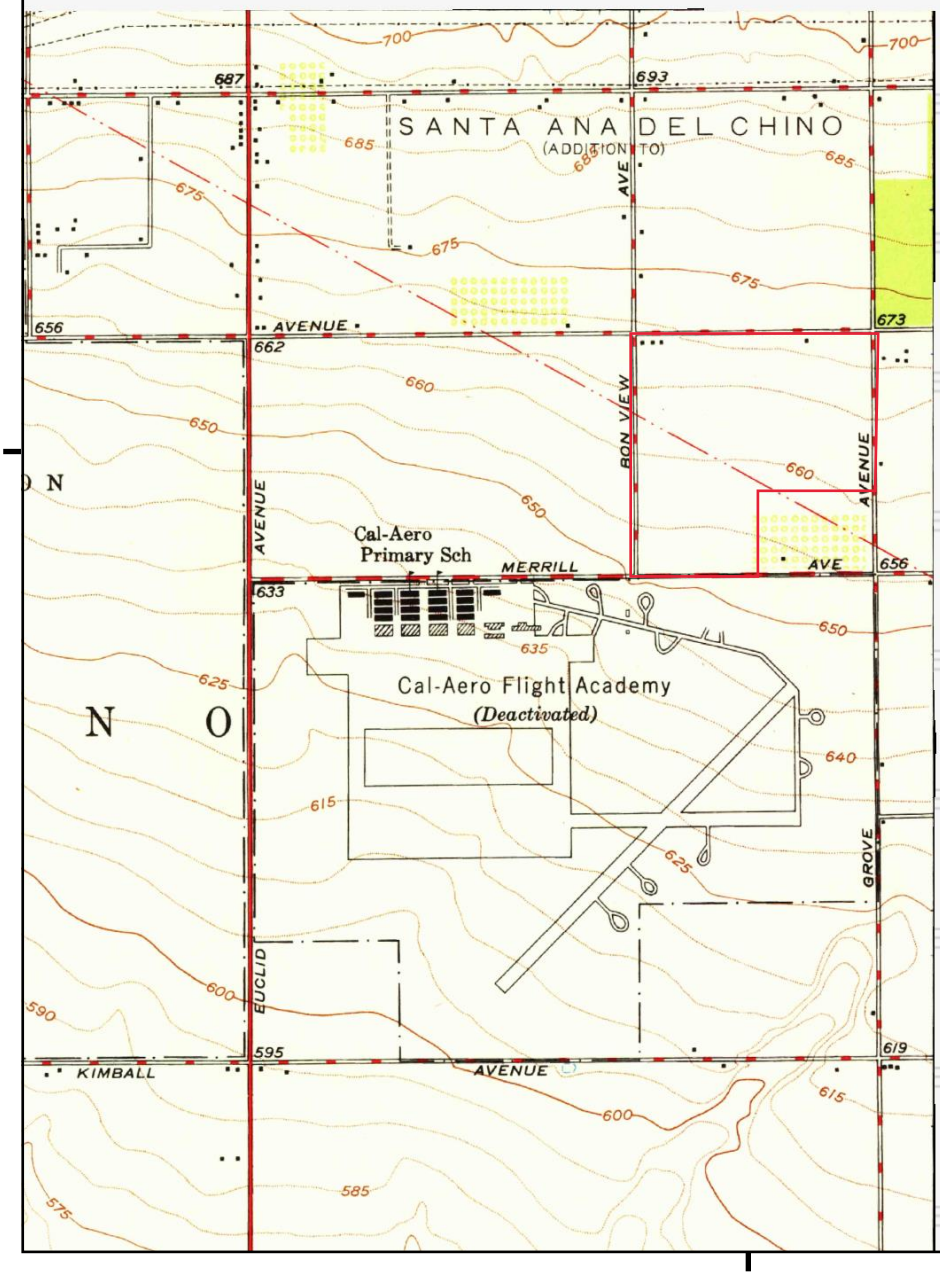
NE, Guasti, 1953, 7.5-minute
SE, Corona North, 1954, 7.5-minute
NW, Ontario, 1954, 7.5-minute

SITE NAME: George Borba Site
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

N

UNMAPPED



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NW N NE
W E
SW S SE

TP, Prado Dam, 1949, 7.5-minute

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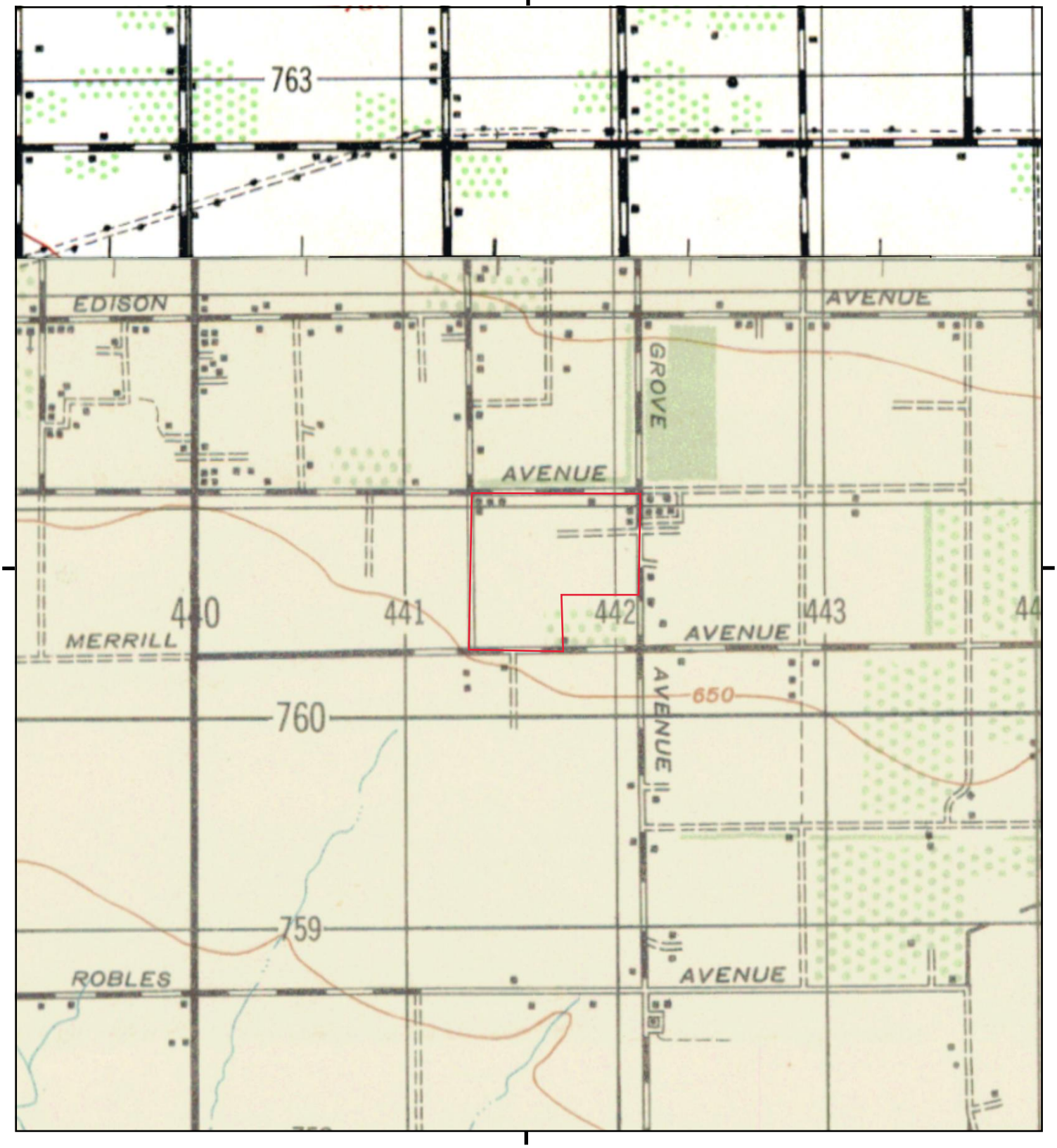
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

N

Historical Topo Map

1944, 1947



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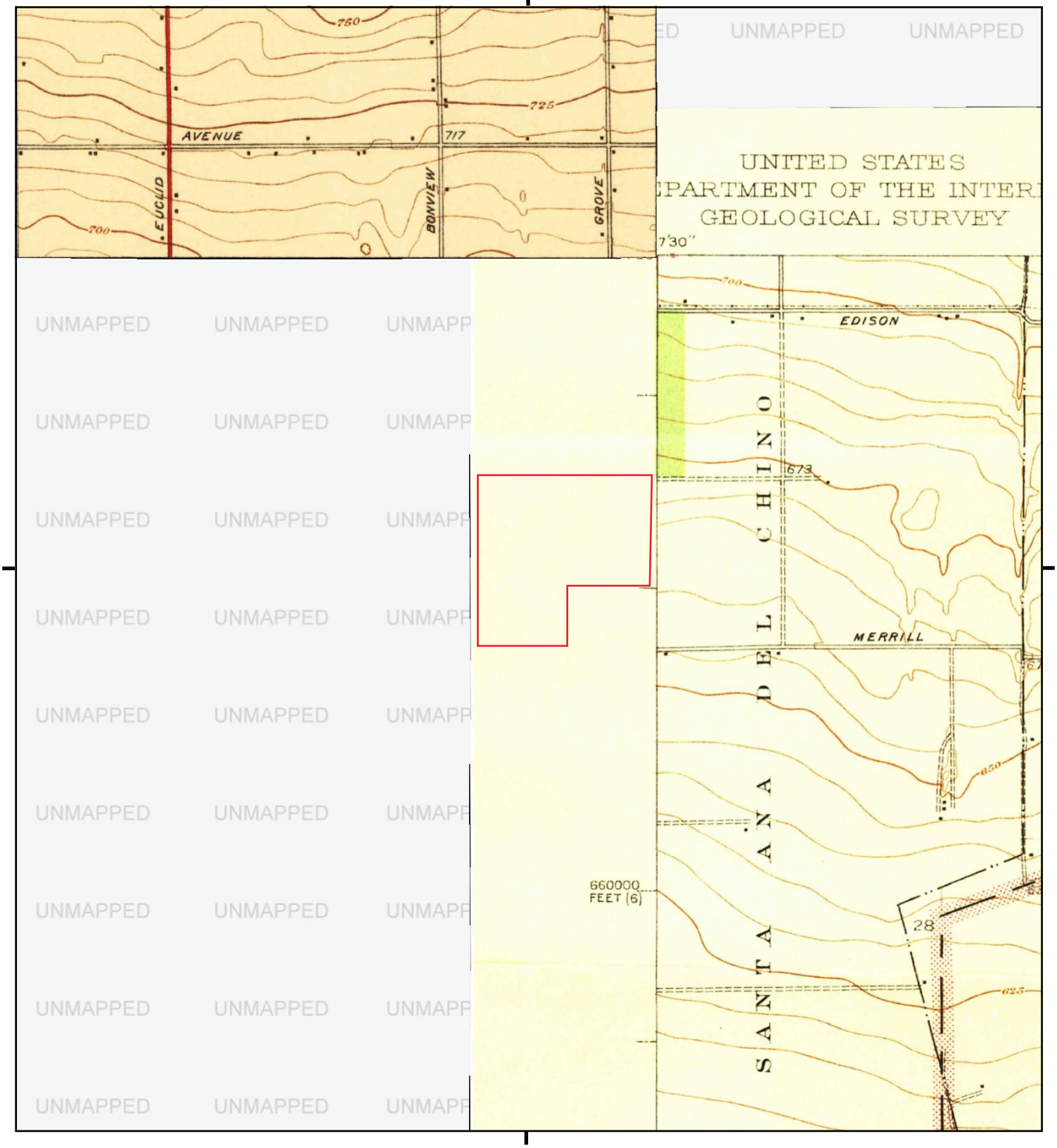
NW N NE
W E
SW S SE

TP, CORONA, 1947, 15-minute
N, CUCAMONGA, 1944, 15-minute

SITE NAME: George Borba Site
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

N



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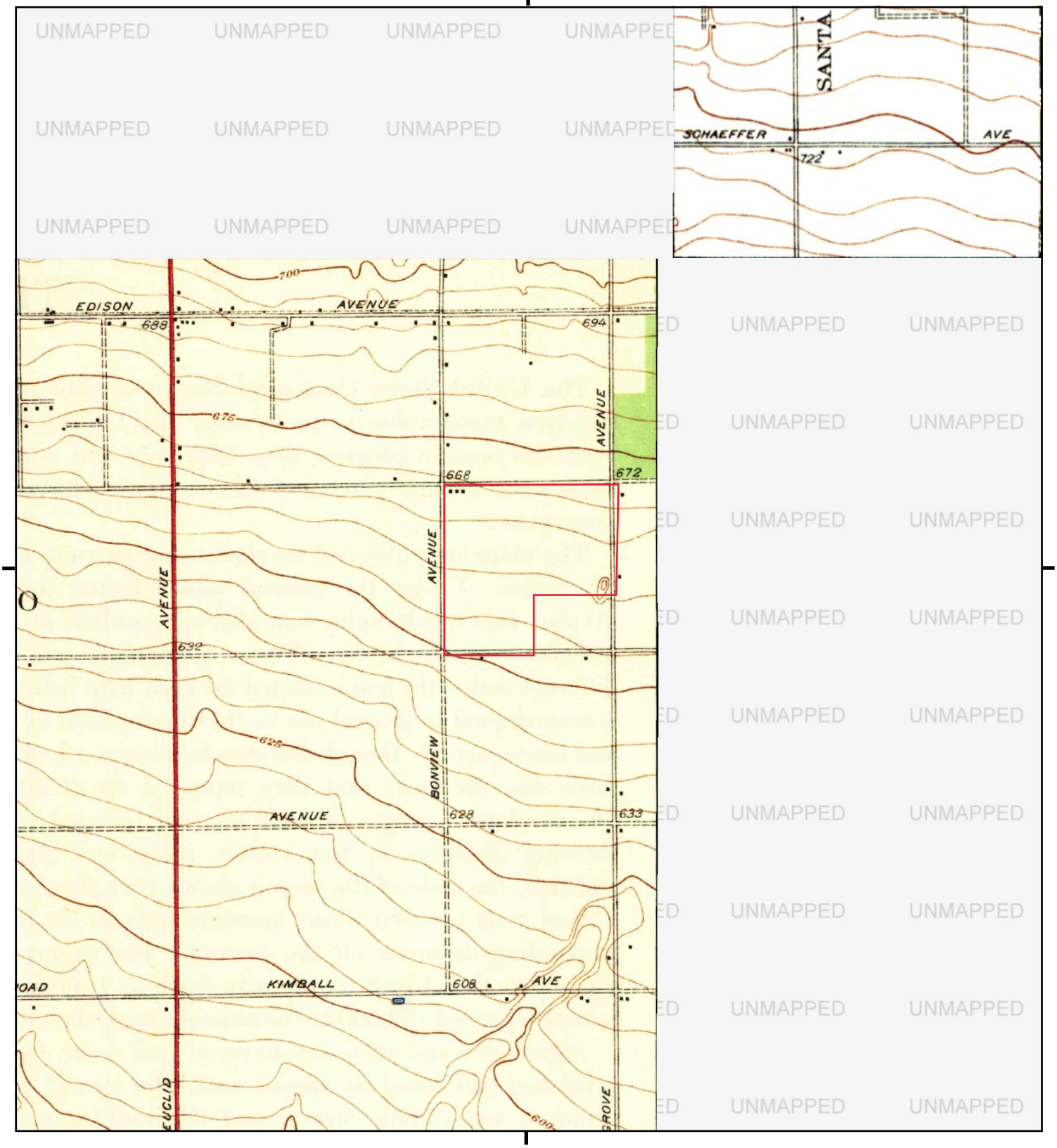
NW N NE
W E
SW S SE

SE, Corona and Vicinity, 1942, 7.5-minute
NW, Ontario and Vicinity, 1942, 7.5-minute

SITE NAME: George Borba Site
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

N



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W E
SW S SE

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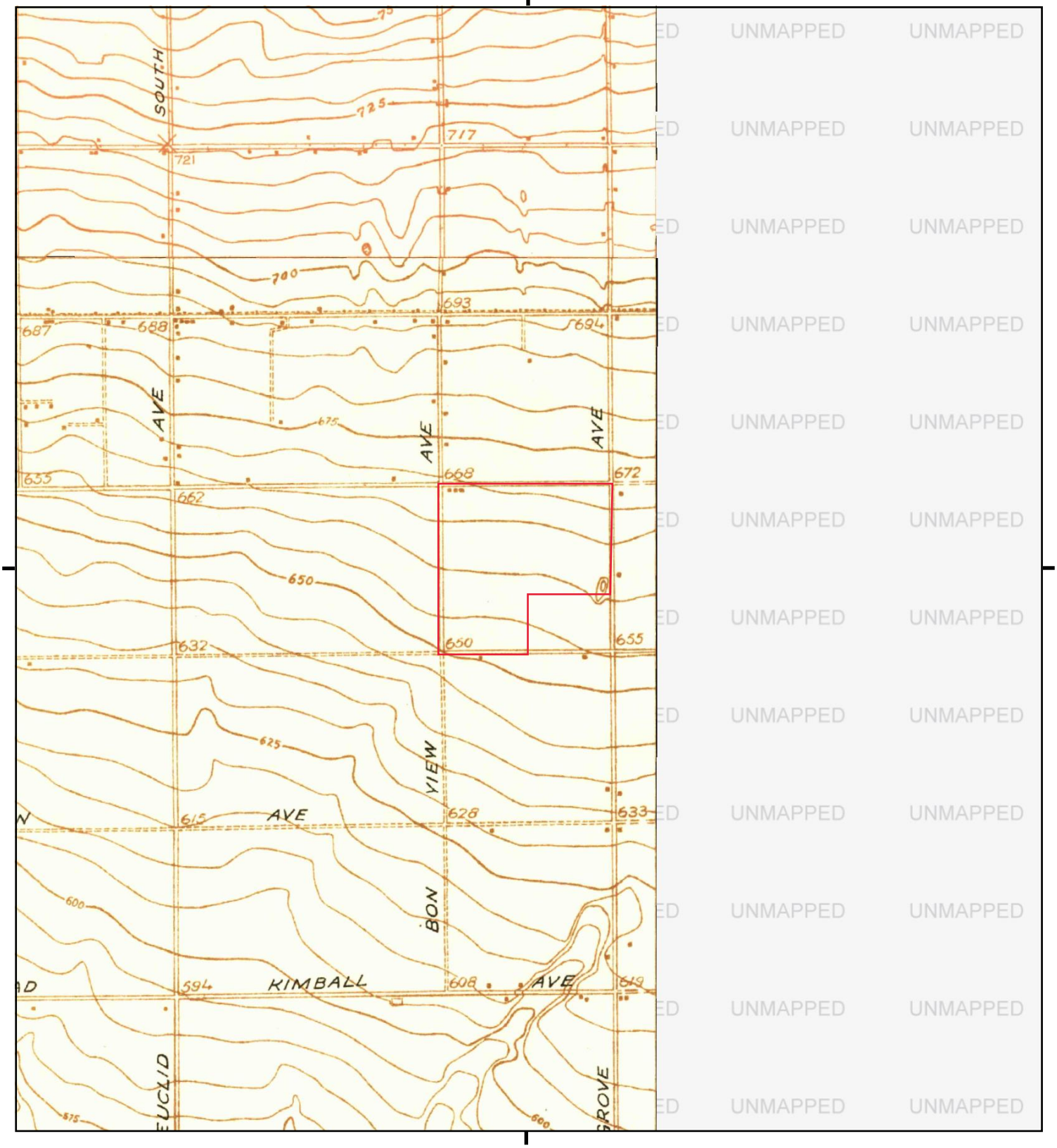
NE, GUASTI VICINITY, 1941, 7.5-minute

SITE NAME: George Borba Site
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

N



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W E
SW S SE

TP, Prado, 1933, 7.5-minute
NW, Ontario, 1933, 7.5-minute

SITE NAME: George Borba Site
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

N

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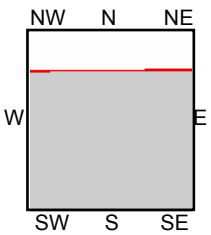


TP, Corona, 1902, 30-minute

SITE NAME: George Borba Site
ADDRESS: Eucalyptus and Grove
Chino, CA 91710
CLIENT: Group Delta Consultants

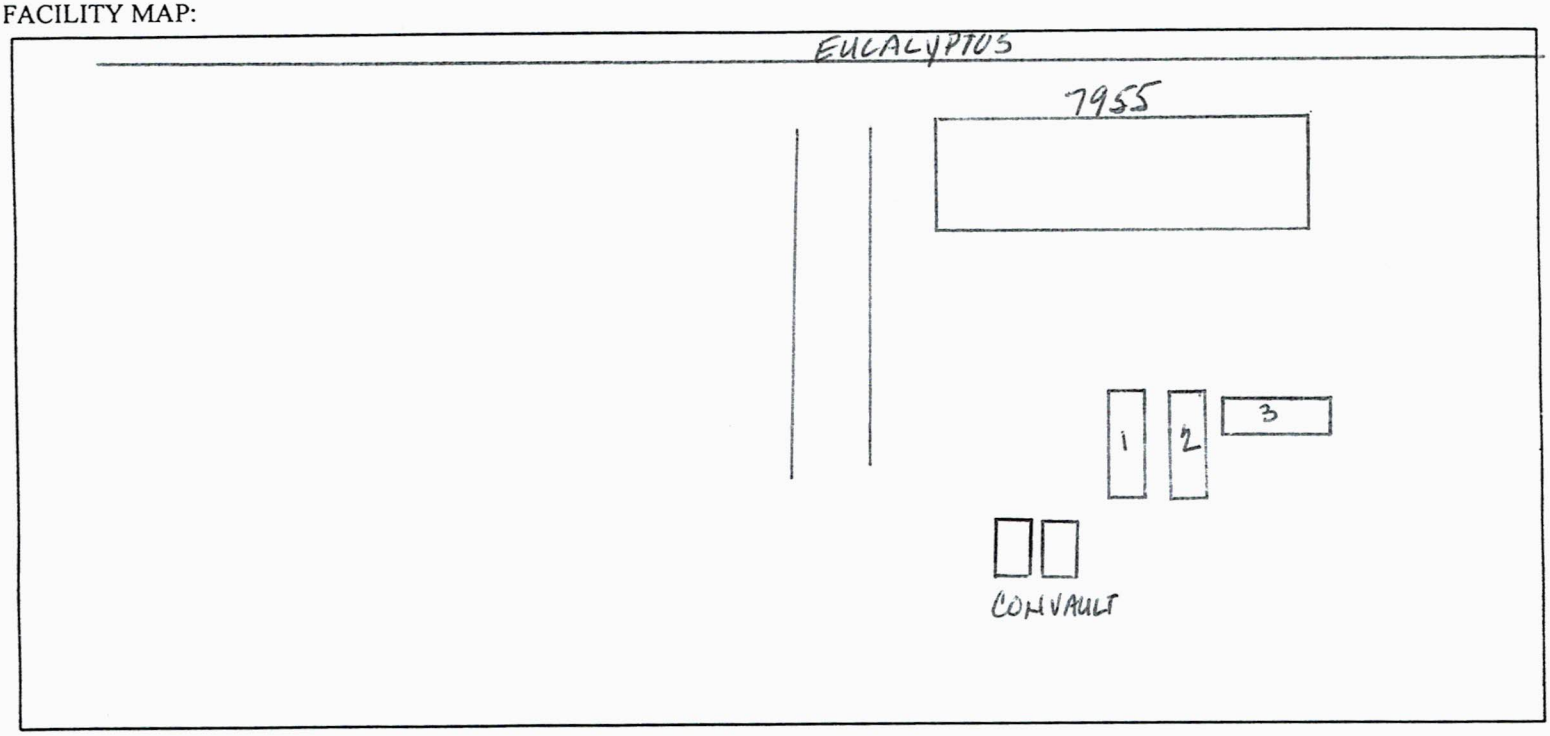
N

APPENDIX D

REGULATORY DATABASE REVIEW MAPS

TANK #	SIZE	MATERIAL HELD	UL #	APPEARANCE (RUSTY, HOLED, SOUND, ETC.)
1	1000	GAS		
2	1000	DIESEL		
3	1000	GAS		

FACILITY MAP:



SAMPLE #	DATE/ TIME	DESCRIPTION (color / soil / odor)	LOCATION	DEPTH	EPA TEST # 'S
1)					
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					

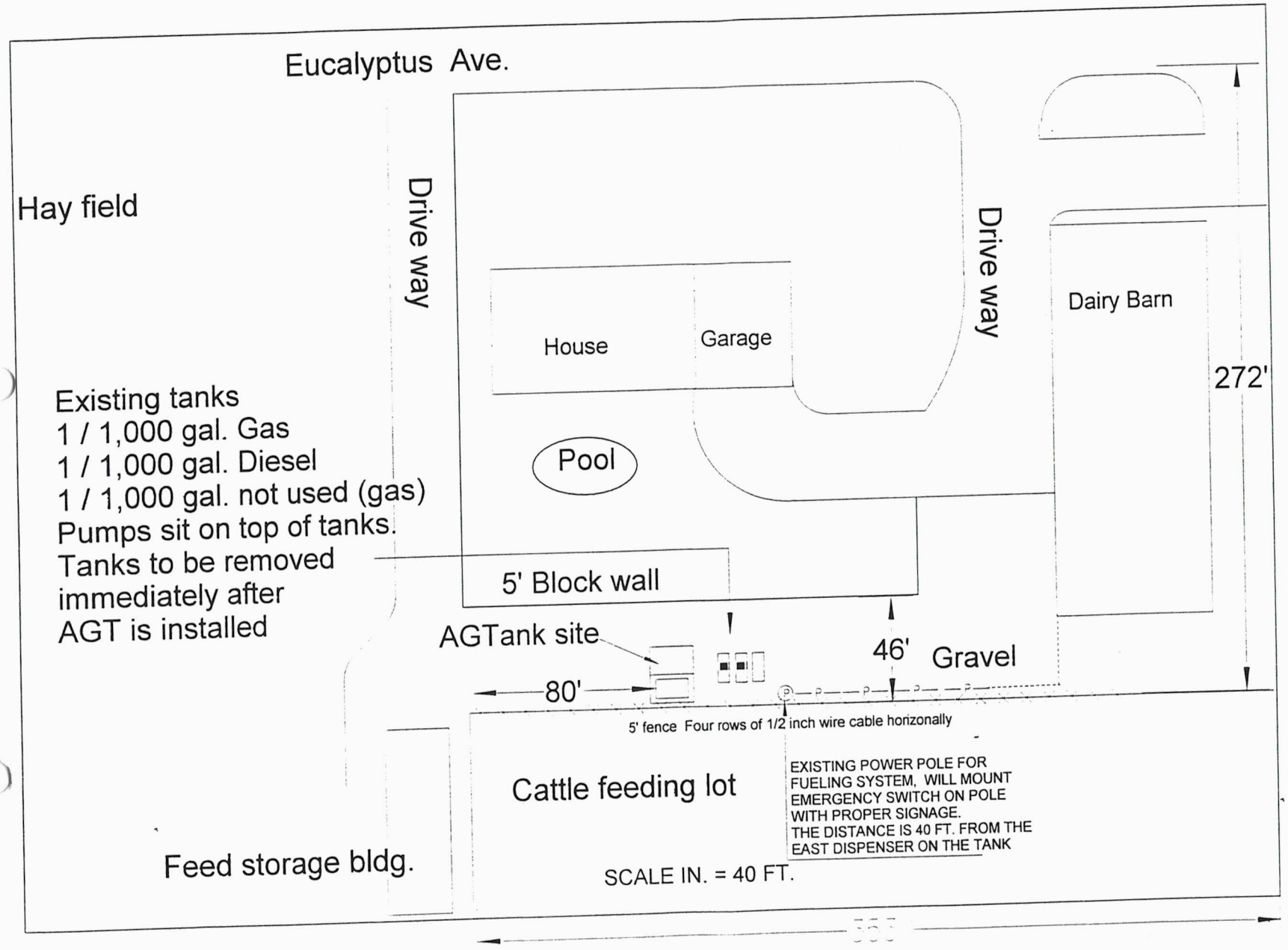
SAMPLES TAKEN BY _____ LABORATORY _____

CONTAINER _____ LABELS _____ SPLITS _____ HEADSPACE _____ SEALS _____

REFRIGERATED _____ CHAIN OF CUSTODY _____ OTHER _____

REQUIRED EPA TESTS:
Gasoline: 8020 (BTEX) & 8015 (TRPH - modified for gas)
Diesel: 8015 (modified for diesel) or 418.1
Solvents/HVO's: 8010
Waste Oil: 418.1 (with 8010 if solvents contamination is suspect)
Metals: 7030 (Cd), 7190 (Cr), 7950 (Zn), 7420 (Pb), 7060 (As), 8080 (PCB), 9010 (CN's)
Pesticides: 8080 (organo-Cl's), 8140 (N & P containi

NOTE:
UGST'S ≥1000 g require a minimum of 2 samples. One from the fill end and one from the turbine end. Also, a sample from the dispenser should be taken. Samples should be taken from at least 2' below native soil (not fill). If discoloration is noted in sidewalls, take samples there. And sample stockpiles if contamination is suspect. For piping, samples should be taken ± every 20' & at major connec



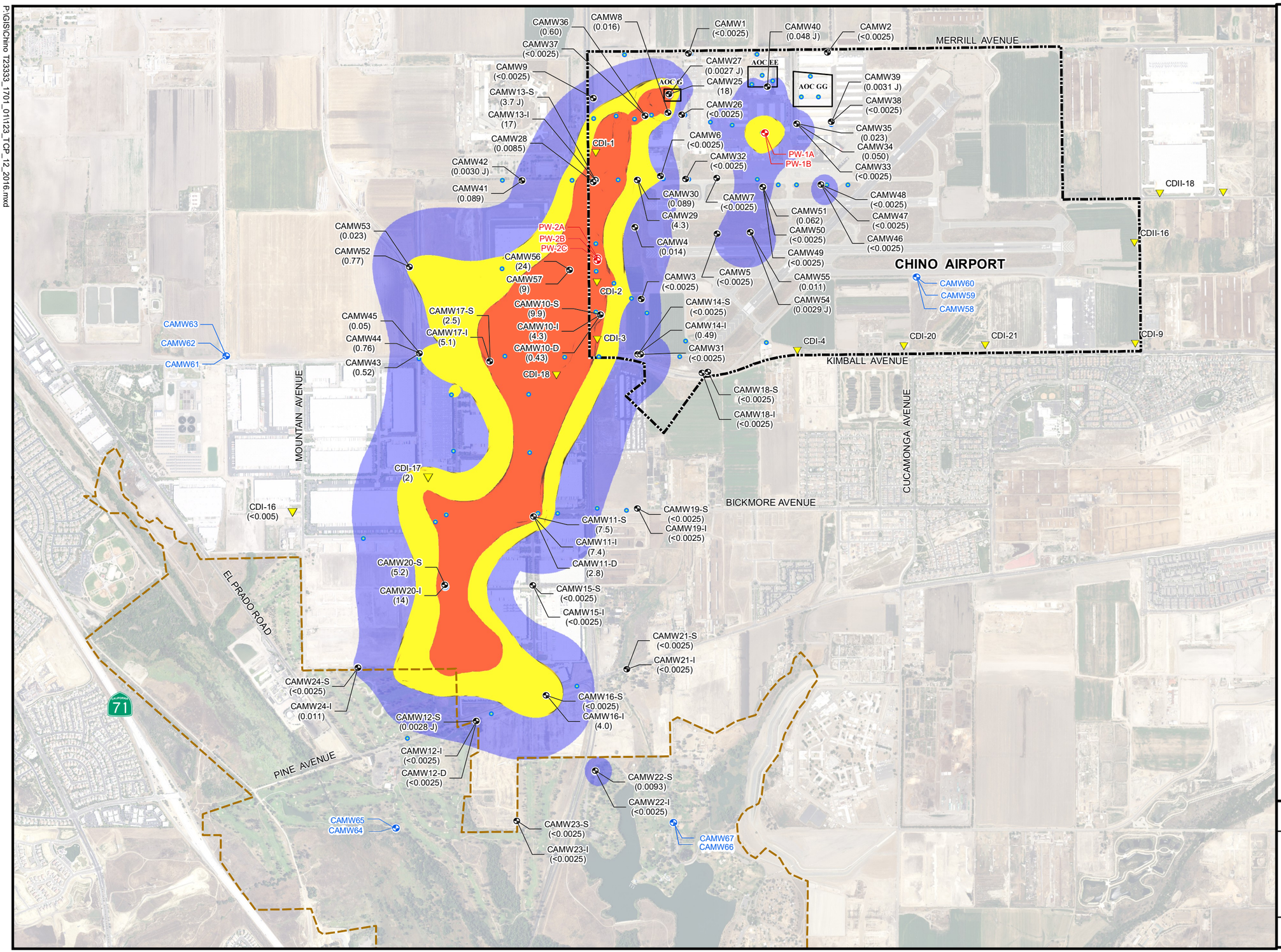
SPECKTRUM ENGINEERING
#2 SALT SPRAY
LAGUNA NIGUEL, CA
92677
PH. 714-495-3095
FAX 714-495-2899

George Borba and Son Dairy
7955 Eucalyptus Ave.
Chino, CA 91710
Ph 909-597-2568

DRAWN BY: H. HANSEN
DATE: 1 / 12 / 98
APPROVED:
SCALE:
JOB NO.:
SHEET NO. 4

4

P:\GIS\Chino T23333_1701_011\123_TCP_12_2016.mxd



Notes:
TCP - Trichloropropane

Plume limits defined to 0.005 µg/L, the notification level for 1,2,3-TCP.

Historical analyte results with values less than lab detection limits were set to 0.0008 for contouring purposes.

CHINO AIRPORT

Figure 3
Proposed Well Locations with 1,2,3-TCP at 0.005 µg/L, 0.5 µg/L, and 5 µg/L Isoconcentrations (data from Fall 2016)

TETRA TECH

June 2017

APPENDIX G
HYDROLOGY REPORTS

APPENDIX G1

PRELIMINARY HYDROLOGY CALCULATIONS

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

SOUTH ONTARIO LOGISTICS CENTER
NORTHEAST CORNER OF MERRILL AVE & BON VIEW AVE
ONTARIO, CALIFORNIA

PREPARED FOR

REDA
4450 MACARTHUR BLVD, SUITE 100
NEWPORT BEACH, CA 92660
PHONE: (949) 216-7300
FAX: (949) 724-1433

JULY 3, 2018
REVISED: AUGUST 16, 2019
REVISED: DECEMBER 14, 2020

JOB NO. 3654

PREPARED BY

THIENES ENGINEERING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
(714) 521-4811

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

SOUTH ONTARIO LOGISTICS CENTER

PREPARED BY RICKY HWA
UNDER THE SUPERVISION OF

REINHARD STENZEL DATE:
R.C.E. 56155
EXP. 12/31/22

INTRODUCTION

A: PROJECT LOCATION

The project site is located at the northeast corner of Merrill Avenue and Bon View Avenue, south of Eucalyptus Avenue, west of Grove Avenue in the City of Ontario, California. Please see next page for vicinity map.

B: STUDY PURPOSE

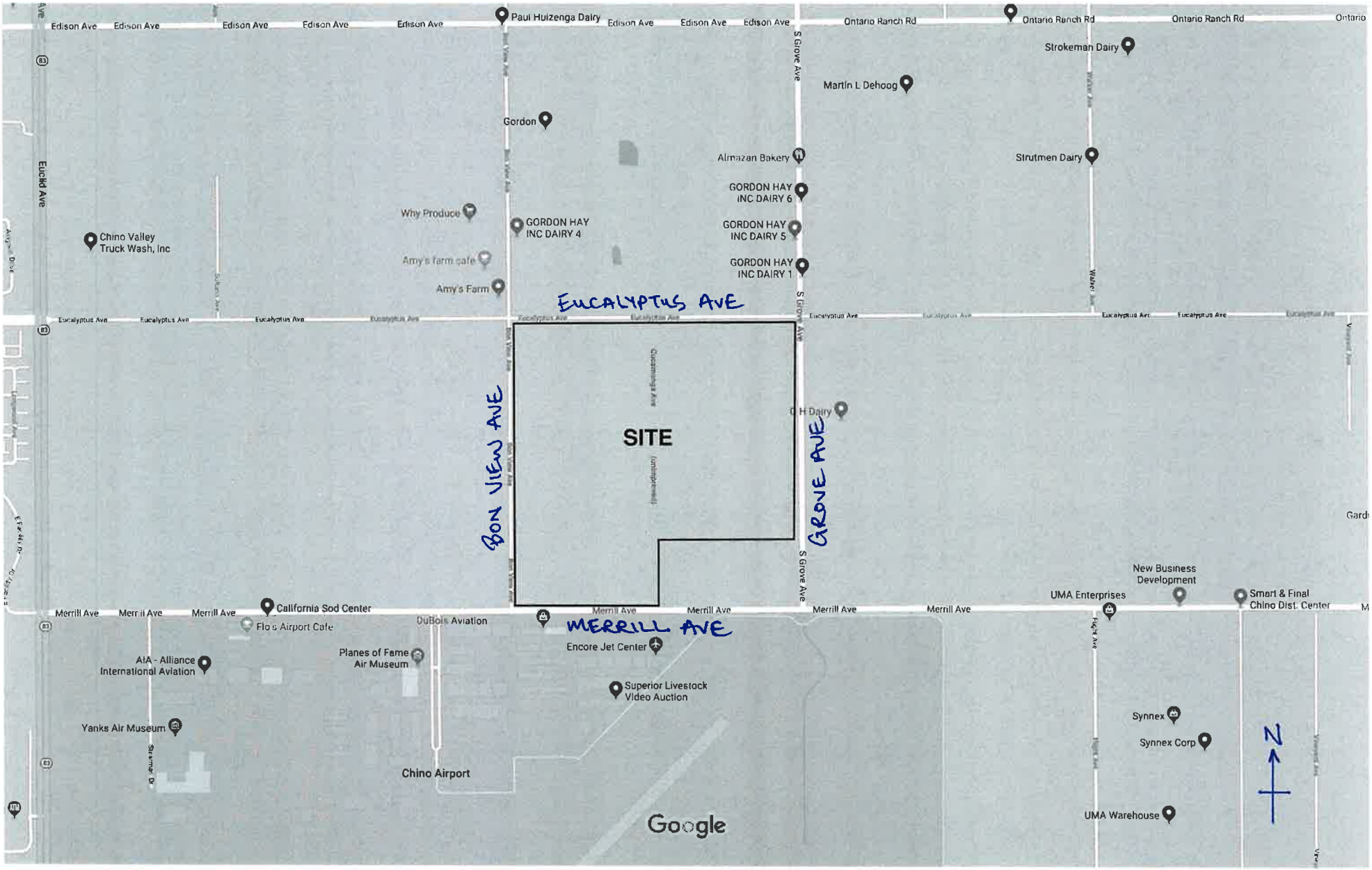
The purpose of this study is to determine the existing and proposed condition 100-year peak flow rates from the project site.

C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel
Ricky Hwa

Google Maps



VICINITY MAP

DISCUSSION

The project site encompasses approximately 130.35 acres. Proposed improvements to the site include eight commercial type buildings ranging from 80,202 square feet to 1,268,446 square feet. There will be a truck yard and several vehicle parking lots adjacent to each building. Proposed landscaping will be along the site's property lines and scattered throughout the site.

Master Plan Hydrology

Per the City of Ontario's Master Plan of Drainage dated March 2012 by Hunsaker & Associates, the westerly two-thirds of the project site is tabled to a proposed 102" RCP master plan storm drain in Bon View Avenue (BNVW-XIV-1), which drains southerly to a proposed 9.5' by 9.5' RCB Master Plan storm drain in Merrill Avenue (MERL-XIV-1), which drains westerly to an existing dirt channel in Euclid Avenue. The easterly one-third of the site is tabled to another proposed public storm drain in Grove Avenue (GROV-XIII-1), a 120" RCP that drains southerly to the Chino Airport.

Although the above mentioned Master Plan storm drains will be constructed separately from proposed site improvements, the ultimate discharge location downstream in Euclid Avenue will not be fully improved. The existing earthen channel adjacent to Euclid Avenue south of Merrill Avenue, downstream of the proposed Merrill Avenue Master Plan storm drain, does not have the capacity to convey Master Plan peak flow rates. Therefore, proposed condition discharge from the project site to Euclid Avenue via proposed Master Plan storm drains will be limited to significantly below the existing condition 25-year runoffs from the site, with the remainder of the proposed condition 100-year runoff to be temporarily detained onsite.

Please see Appendix "A" for the City's Master Plan of Drainage and other pertinent reference materials.

Existing Condition

The project site is currently used for agricultural and dairy purposes. Runoff from the site generally drains from north to south. There are several detention areas throughout the site.

The existing condition 100-year site runoff from the north and west portions of the site (Nodes 100-205, 95.45 acres), tributary to Merrill Avenue via the south-westerly detention basin, is approximately 101.7 cfs. The existing condition 100-year site runoff from the southeast portion of the site (Nodes 300-304, 30.80 acres) tributary to Merrill Avenue is approximately 39.6 cfs, resulting in a total 141.3 cfs from the site tributary to Merrill Avenue.

The easterly portion of the project site (Nodes 400-402, 4.15 acres) adjacent to Grove Avenue surface drains to Grove Avenue. The existing condition 100-year runoffs from this portion of the site is 5.8 cfs.

See Appendix "B" for existing condition hydrology calculations and Appendix "D" for existing condition hydrology map.

Proposed Condition

Buildings 4, 5, 6, 7 and 8 at the project site's northerly end (Nodes 100-192, 20.85 acres) drain to catch basins in each building's truck yard and parking lots. Runoff is then conveyed westerly via a proposed onsite storm drain to the proposed 102" RCP master plan storm drain in Bon View Avenue, which is tributary to the existing dirt channel in Euclid Avenue. The proposed condition 100-year peak flow rate from Buildings 4 through 8 are approximately 53.9 cfs.

For the remainder of the site, Buildings 1, 2 and 3 (Nodes 200-282, 106.45 acres) drain to catch basins in each building's truck yards and parking lots. Runoff is then conveyed southerly, then westerly, via another onsite storm drain system to the same proposed 102" RCP in Bon View Avenue. The proposed condition 100-year peak flow rate from Buildings 1 through 3 are approximately 236.2 cfs.

The total proposed condition 100-year peak flow rate from the site to the proposed 102" RCP in Bon View Avenue – and ultimately, to the existing dirt channel in Euclid Avenue – is approximately 290.1 cfs.

The landscape frontage east of Building 2 (0.50 acres) will surface drain easterly to Grove Avenue. The entry driveway west of Building 4 (0.30 acres), plus the landscape frontage and entry driveway west of Building 1 (0.85 acres), will surface drain westerly to Bon View Avenue. Lastly, the entry driveway southeast of Building 1 (0.25 acres), plus the landscape frontage and entry driveways south of Building 1 (1.15 acres), will surface drain southerly to Merrill Avenue.

See Appendix "B" for proposed condition hydrology calculations and Appendix "D" for proposed condition hydrology map.

Detention

The total proposed 100-year peak flow rate from the project site (236.2 cfs) is higher than the existing condition 100-year runoff (141.3 cfs). Runoffs tributary to onsite truck yards will be sufficiently detained such that the overall proposed condition 100-year discharge from the site to the existing dirt channel in Euclid Avenue will be significantly below the existing condition 100-year discharge. Runoffs from the parking lot west of Building 4 (1.5 cfs over 0.45 acres), the frontage landscape north of Building 4 (1.0 cfs over 0.35 acres),

and parking lots south of Building 1 (18.0 cfs over 7.70 acres), will be allowed to discharge undetained.

See Appendix "C" for detention calculations for each onsite truck yard. The following is a summary of required detention volume and post-detention 100-year discharge for each truck yard.

Truck Yard	Node	Area	Volume	Ponding Depth	Q100 Tributary	Q100 Discharge
Building 1 West	281	23.35 ac.	4.136 ac-ft	1.46 ft	58.0 cfs	4.1 cfs
Building 1 East	261	23.40 ac.	4.152 ac-ft	1.46 ft	62.3 cfs	4.2 cfs
Building 2 North	205	15.00 ac.	2.554 ac-ft	1.74 ft	38.4 cfs	2.8 cfs
Building 2 South	216	15.55 ac.	1.716 ac-ft	1.58 ft	36.0 cfs	4.3 cfs
Building 3	241	21.45 ac.	3.292 ac-ft	1.90 ft	51.6 cfs	4.5 cfs
Building 4	182	3.55 ac.	0.178 ac-ft	1.07 ft	9.6 cfs	1.4 cfs
Building 5	171	4.10 ac.	0.249 ac-ft	1.12 ft	11.3 cfs	1.4 cfs
Building 6	151	4.00 ac.	0.142 ac-ft	0.90 ft	11.1 cfs	2.3 cfs
Building 7	131	3.75 ac.	0.206 ac-ft	1.04 ft	10.7 cfs	1.4 cfs
Building 8	112	4.65 ac.	0.175 ac-ft	0.97 ft	12.2 cfs	2.4 cfs

Total Q100 Discharge from truck yards = 28.8 cfs

With onsite detention, the total proposed condition 100-year discharge from the project site to the existing dirt channel in Euclid Avenue, via proposed onsite storm drains and proposed master plan storm drains in Bon View Avenue and Merrill Avenue, will be approximately 49.3 cfs (28.8 cfs from truck yards + 1.5 cfs from parking lot west of Building 4 + 1.0 cfs from frontage landscape north of Building 4 + 18.0 cfs from parking lots south of Building 1). This is significantly less than the existing condition 100-year discharge (141.3 cfs) from the site to Merrill Avenue.

Proposed onsite storm drains will be sized during the project's final design phase to restrict site discharge such that there will be no negative impact on existing downstream drainage facilities.

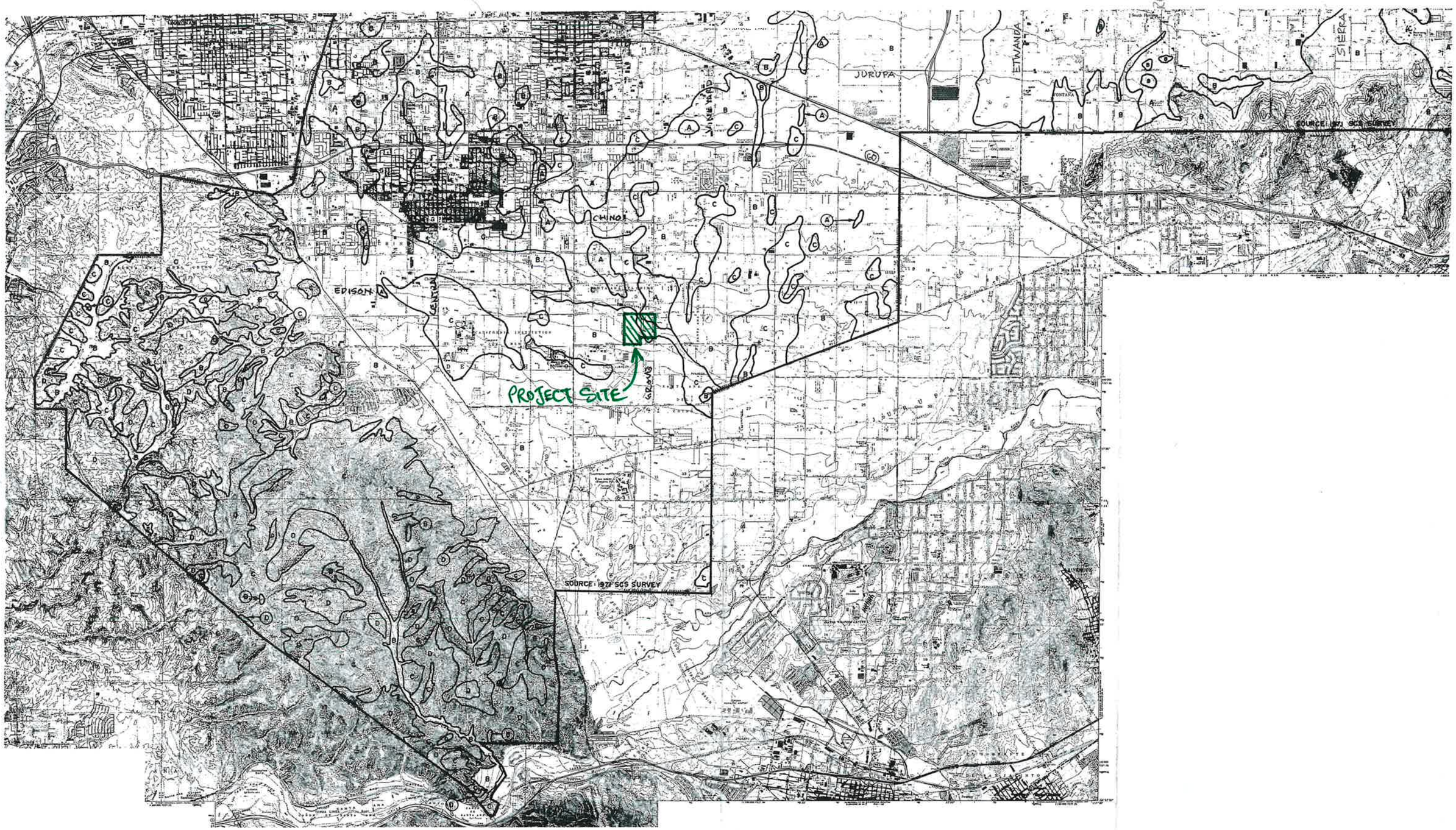
Methodology

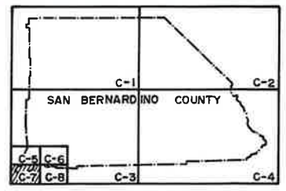
Hydrology calculations were computed using the San Bernardino County Rational Method program (by AES Software). The soil type is "A" for the northeast corner of the project site, "B" for the westerly half of the site, and "C" for the remainder of the site per the San Bernardino County Hydrology Manual. See Appendix "A" for pertinent reference materials.

APPENDIX	DESCRIPTION
A	REFERENCE MATERIAL
B	HYDROLOGY CALCULATIONS
C	DETENTION CALCULATIONS
D	HYDROLOGY MAPS

APPENDIX A

REFERENCE MATERIALS





INDEX MAP

LEGEND

SOIL GROUP BOUNDARY

A SOIL GROUP DESIGNATION

BOUNDARY OF INDICATED SOURCE

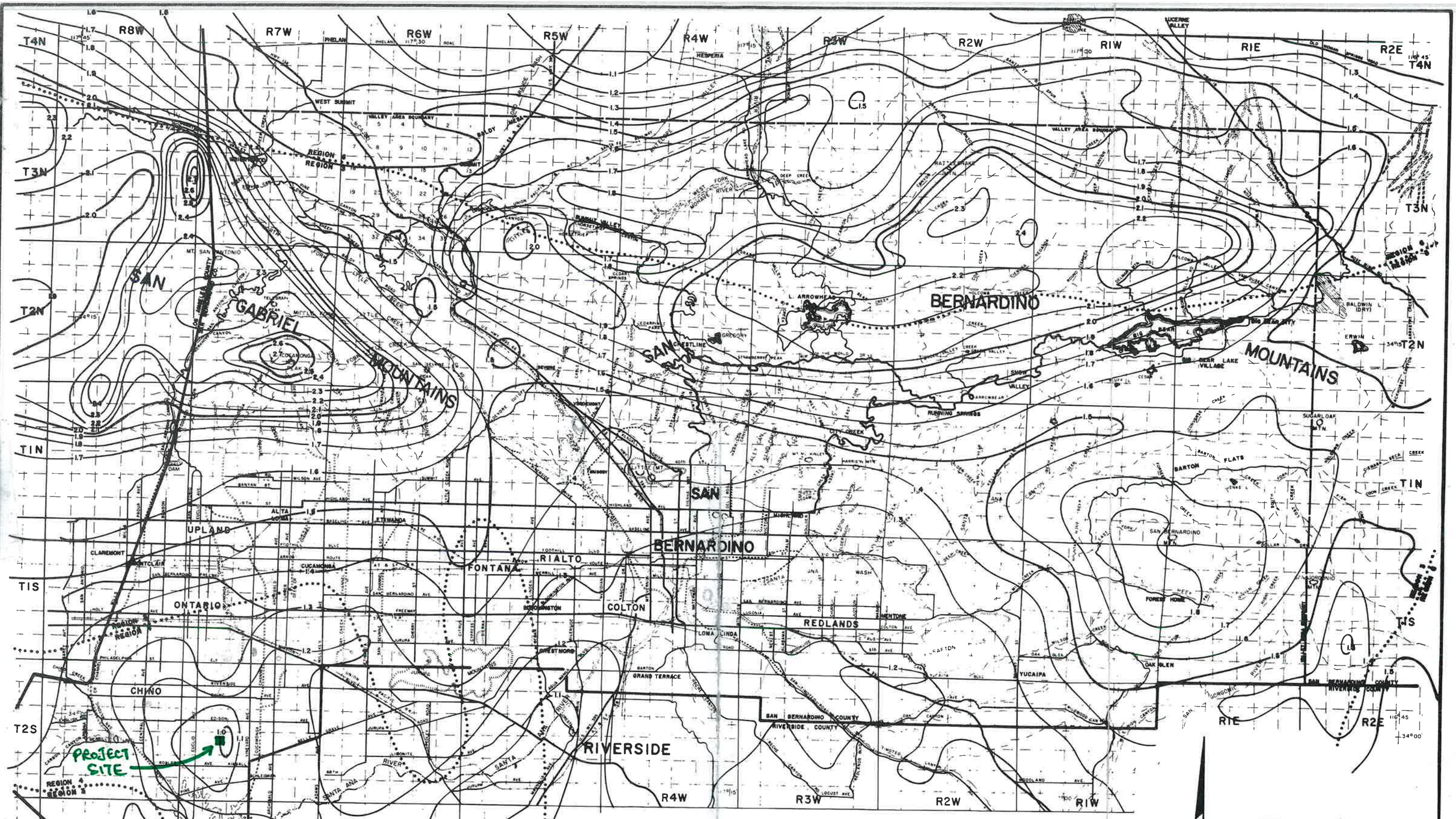
SCALE 1:48,000

SCALE REDUCED BY 1/2

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

HYDROLOGIC SOILS GROUP MAP
FOR
SOUTHWEST-C AREA

FIGURE C-15



SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

REDUCED DRAWING
SCALE 1" = 4 MILES

LEGEND:
1.8 ISOLINES PRECIPITATION (INCHES)

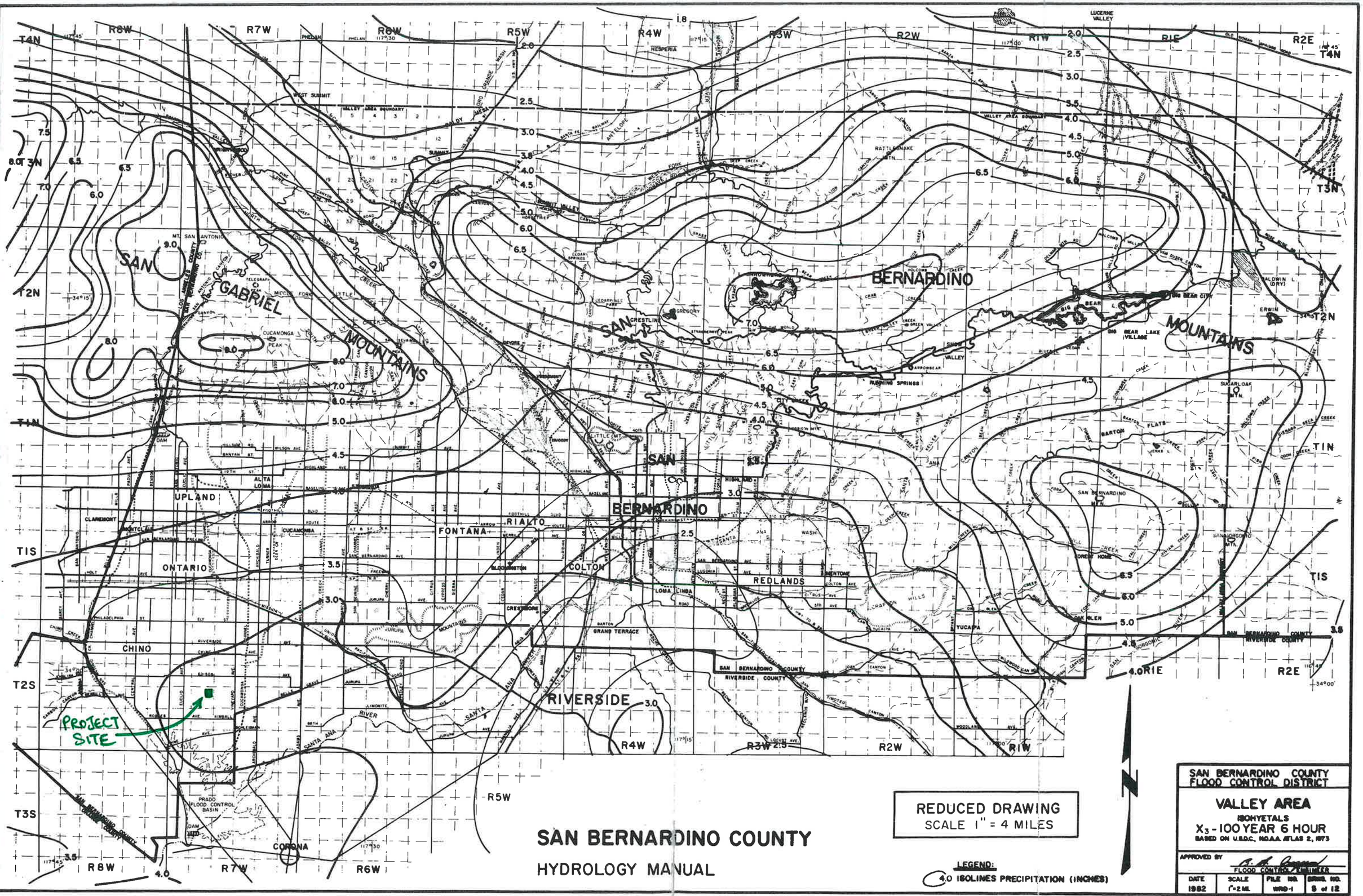
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT

VALLEY AREA
ISOHYETALS
Y_{100} - 100 YEAR 1 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973

APPROVED BY _____ FLOOD CONTROL ENGINEER

DATE	SCALE	FILE NO.	DRWG. NO.
1982	1"=2 MI.	WRD-1	4 of 12

FIGURE B-4



REDUCED DRAWING
SCALE 1" = 4 MILES

LEGEND:
4.0 ISOLINES PRECIPITATION (INCHES)

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

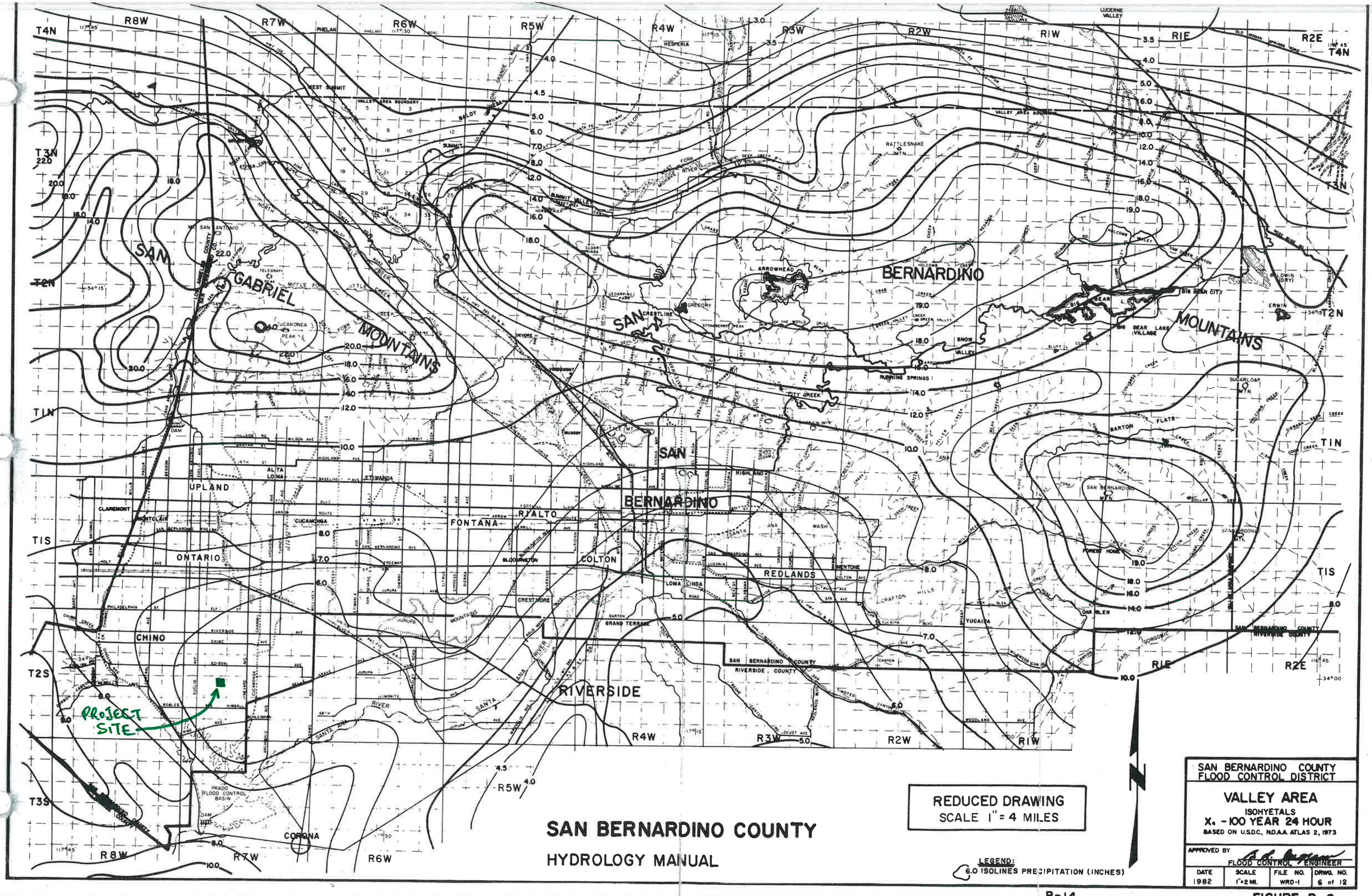
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT

VALLEY AREA
ISOHYETALS
X_3 - 100 YEAR 6 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973

APPROVED BY _____ FLOOD CONTROL ENGINEER

DATE	SCALE	FILE NO.	DRWG. NO.
1982	1"=2 MI.	WRD-1	5 of 12

FIGURE B-5



REDUCED DRAWING
SCALE 1" = 4 MILES

LEGEND:
6.0 ISOLINES PRECIPITATION (INCHES)

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT

VALLEY AREA
ISOHYETALS
X_4 - 100 YEAR 24 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973

APPROVED BY _____ FLOOD CONTROL ENGINEER

DATE	SCALE	FILE NO.	DRWG. NO.
1982	1"=2 MI.	WRD-1	6 of 12

FIGURE B-6

PROJECT SITE

AIRPORT CHANNEL

LEGEND

- COUNTY LIMITS
- CITY LIMITS
- X" / XXXX-X-X — PLANNED STORM DRAIN, SIZE AND LINE ID
- DRAINAGE AREA BOUNDARY
- DRAINAGE SYSTEM BOUNDARY
- MINOR DRAINAGE BOUNDARY
- (X) — EXISTING CITY STORM DRAIN AND SIZE (IN INCHES)
- CHINO AIRPORT — EXISTING COUNTY OPEN CHANNEL
- EXISTING COUNTY STORM DRAIN AND SIZE (IN INCHES)
- X — DRAINAGE AREA #

DRAINAGE SYSTEM NAME

WLKR-XII-3 — SYSTEM IDENTIFICATION

DRAINAGE AREA NUMBER — LINE NUMBER

X / X.X — AREA DESIGNATION / AREA ACREAGE (IN ACRES)

Q_{10} =861.0cfs
Q_{25} =981.1cfs
Q_{100}=1213.7cfs — PEAK FLOW RATE
t=36.1 — TIME OF CONCENTRATION
A=942.7ac — AREA

(10'X6' DBL RCB)

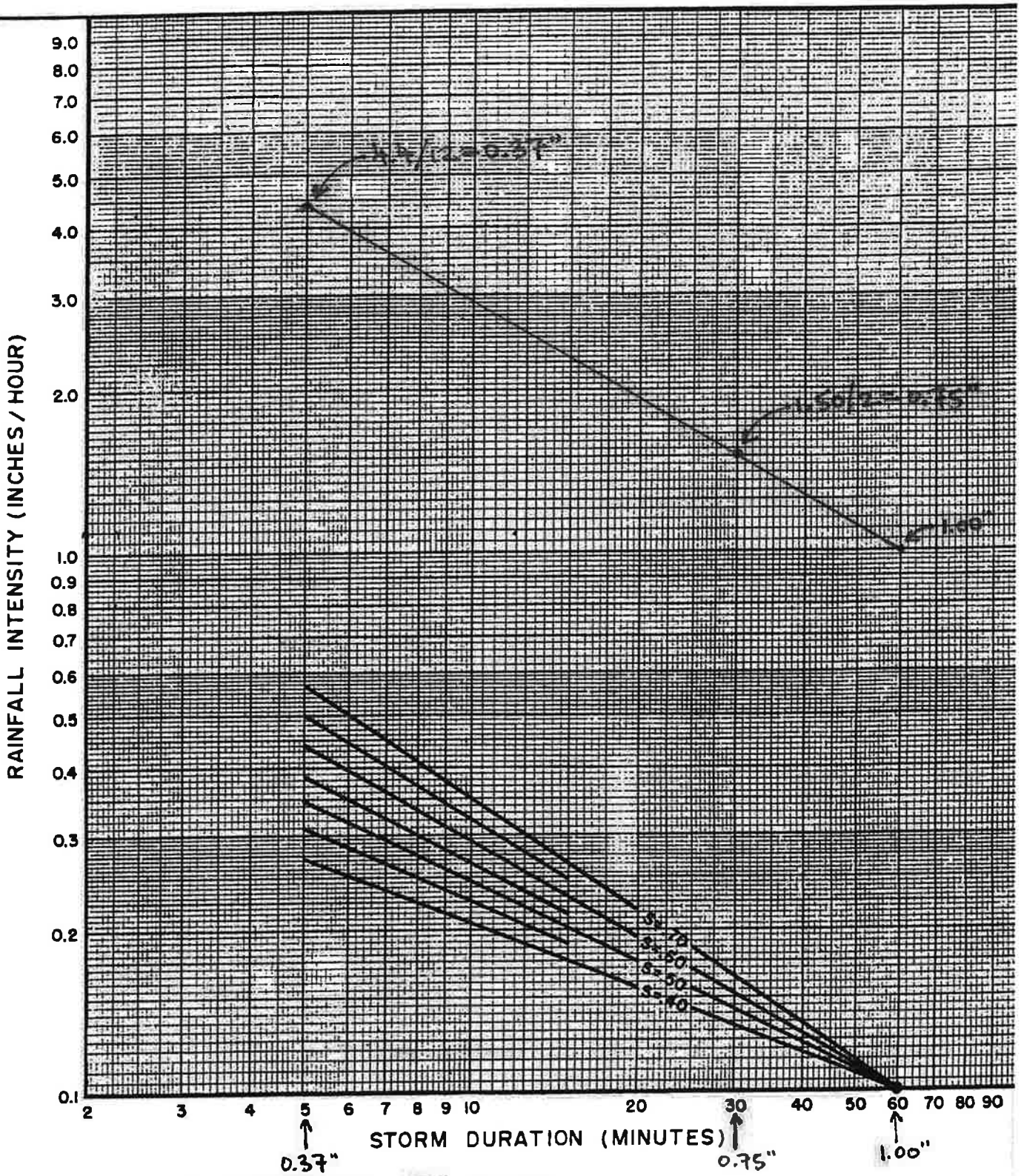
GROVE AVE STORM DRAIN

EXISTING DOUBLE 10'W x 6'H RCB

SCALE: 1" = 800'

800 400 0 800 240

GRAPHIC SCALE 1"=800'



DESIGN STORM FREQUENCY = 100 YEARS

ONE HOUR POINT RAINFALL = 1.00 INCHES

LOG-LOG SLOPE = 0.60

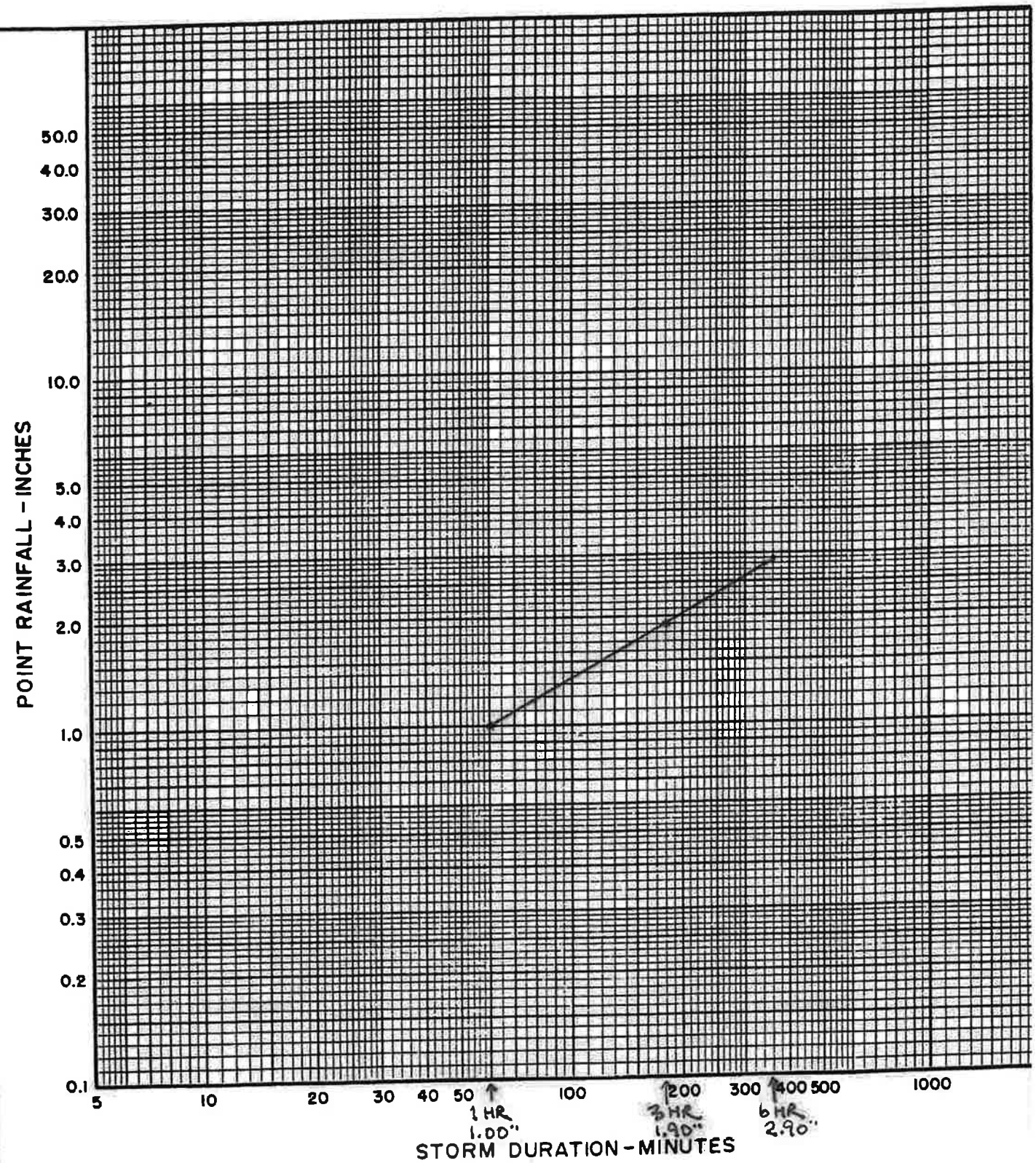
PROJECT LOCATION = MERRILL AVE & GROVE AVE, ONTARIO

SAN BERNARDINO COUNTY

HYDROLOGY MANUAL

INTENSITY - DURATION CURVES CALCULATION SHEET

FIGURE D-3



PROJECT LOCATION MERRILL AVE & GROVE AVE, ONTARIO

NOTES

SAN BERNARDINO COUNTY

HYDROLOGY MANUAL

AREA - AVERAGED
MASS RAINFALL
PLOTTING SHEET

APPENDIX B

HYDROLOGY CALCULATIONS

EXISTING CONDITION

```
**************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
         (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)
        (c) Copyright 1983-2016 Advanced Engineering Software (aes)
            Ver. 23.0  Release Date: 07/01/2016  License ID 1435

                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRADA, CA 90638


 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO                             *
* EXISTING CONDITION 100-YEAR                                           *
* NORTH AND WEST PORTIONS OF SITE TRIBUTARY TO MERRILL AVE              *
 ************************************************************************

  FILE NAME: W:\3654\EX100A.DAT
  TIME/DATE OF STUDY: 16:19 06/19/2018
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

**************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   850.00
  ELEVATION DATA: UPSTREAM(FEET) =    675.00  DOWNSTREAM(FEET) =    665.40

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.068
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.757
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL POOR COVER
  "BARREN"                   A        8.10      0.18      1.000    93   19.11
  COMMERCIAL                 A        0.35      0.74      0.100    52   11.07
  NATURAL POOR COVER
  "BARREN"                   C        0.35      0.06      1.000    98   19.11
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.18
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.964
  SUBAREA RUNOFF(CFS) =     20.48
  TOTAL AREA(ACRES) =      8.80   PEAK FLOW RATE(CFS) =     20.48
```

```
****************************************************************************
 FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    665.40  DOWNSTREAM(FEET) =    663.80
 CHANNEL LENGTH THRU SUBAREA(FEET) =   700.00   CHANNEL SLOPE =  0.0023
 CHANNEL FLOW THRU SUBAREA(CFS) =      20.48
 FLOW VELOCITY(FEET/SEC) =   1.44 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   8.09   Tc(MIN.) =   19.16
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =    1550.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   19.16
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.984
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL POOR COVER
 "BARREN"                    C        6.60      0.06     1.000    98
 NATURAL POOR COVER
 "BARREN"                    A        0.10      0.18     1.000    93
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.06
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    6.70      SUBAREA RUNOFF(CFS) =   11.58
 EFFECTIVE AREA(ACRES) =     15.50   AREA-AVERAGED Fm(INCH/HR) =  0.12
 AREA-AVERAGED Fp(INCH/HR) =  0.13  AREA-AVERAGED Ap =  0.98
 TOTAL AREA(ACRES) =       15.5       PEAK FLOW RATE(CFS) =      25.93

****************************************************************************
 FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    663.80  DOWNSTREAM(FEET) =    662.50
 CHANNEL LENGTH THRU SUBAREA(FEET) =   350.00   CHANNEL SLOPE =  0.0037
 CHANNEL FLOW THRU SUBAREA(CFS) =      25.93
 FLOW VELOCITY(FEET/SEC) =   1.96 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   2.98   Tc(MIN.) =   22.14
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =    1900.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   22.14
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.819
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL POOR COVER
 "BARREN"                    C        7.65      0.06     1.000    98
 RESIDENTIAL
 "1 DWELLING/ACRE"           C        0.30      0.27     0.800    86
 NATURAL POOR COVER
 "BARREN"                    A        3.40      0.18     1.000    93
 RESIDENTIAL
 "1 DWELLING/ACRE"           A        1.10      0.74     0.800    52
 COMMERCIAL                  A        0.50      0.74     0.100    52
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.15
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.944
 SUBAREA AREA(ACRES) =   12.95      SUBAREA RUNOFF(CFS) =   19.54
 EFFECTIVE AREA(ACRES) =     28.45   AREA-AVERAGED Fm(INCH/HR) =  0.13
 AREA-AVERAGED Fp(INCH/HR) =  0.14  AREA-AVERAGED Ap =  0.96
 TOTAL AREA(ACRES) =       28.5       PEAK FLOW RATE(CFS) =      43.18

****************************************************************************
 FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
```

```
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
================================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    662.50  DOWNSTREAM(FEET) =    661.00
 CHANNEL LENGTH THRU SUBAREA(FEET) =   375.00   CHANNEL SLOPE =  0.0040
 CHANNEL FLOW THRU SUBAREA(CFS) =      43.18
 FLOW VELOCITY(FEET/SEC) =   2.35 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   2.66   Tc(MIN.) =   24.80
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    2275.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   24.80
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.699
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL POOR COVER
 "BARREN"                     C        7.05      0.06      1.000    98
 NATURAL POOR COVER
 "BARREN"                     B        1.75      0.11      1.000    97
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.07
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    8.80      SUBAREA RUNOFF(CFS) =   12.90
 EFFECTIVE AREA(ACRES) =     37.25   AREA-AVERAGED Fm(INCH/HR) =  0.12
 AREA-AVERAGED Fp(INCH/HR) =  0.12  AREA-AVERAGED Ap =  0.97
 TOTAL AREA(ACRES) =       37.2       PEAK FLOW RATE(CFS) =      53.01

****************************************************************************
 FLOW PROCESS FROM NODE    104.00 TO NODE    113.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    661.00  DOWNSTREAM(FEET) =    660.10
 CHANNEL LENGTH THRU SUBAREA(FEET) =   775.00   CHANNEL SLOPE =  0.0012
 CHANNEL FLOW THRU SUBAREA(CFS) =      53.01
 FLOW VELOCITY(FEET/SEC) =   1.34 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   9.63   Tc(MIN.) =   34.43
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    113.00 =    3050.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    104.00 TO NODE    113.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   34.43
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.396
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                 B        3.55      0.31      1.000    84
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    3.55      SUBAREA RUNOFF(CFS) =    3.47
 EFFECTIVE AREA(ACRES) =     40.80   AREA-AVERAGED Fm(INCH/HR) =  0.13
 AREA-AVERAGED Fp(INCH/HR) =  0.14  AREA-AVERAGED Ap =  0.97
 TOTAL AREA(ACRES) =       40.8       PEAK FLOW RATE(CFS) =      53.01
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
 FLOW PROCESS FROM NODE    113.00 TO NODE    113.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   34.43
 RAINFALL INTENSITY(INCH/HR) =   1.40
 AREA-AVERAGED Fm(INCH/HR) =  0.13
 AREA-AVERAGED Fp(INCH/HR) =  0.14
 AREA-AVERAGED Ap =  0.97
 EFFECTIVE STREAM AREA(ACRES) =      40.80
 TOTAL STREAM AREA(ACRES) =      40.80
```

```
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      53.01

****************************************************************************
 FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   830.00
 ELEVATION DATA: UPSTREAM(FEET) =    673.00  DOWNSTREAM(FEET) =    665.70

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   26.766
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.623
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 NATURAL FAIR COVER
 "OPEN BRUSH"                B        6.30      0.31      1.000    84   26.77
 NATURAL FAIR COVER
 "OPEN BRUSH"                C        1.00      0.19      1.000    92   26.77
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.29
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA RUNOFF(CFS) =      8.75
 TOTAL AREA(ACRES) =      7.30   PEAK FLOW RATE(CFS) =      8.75

****************************************************************************
 FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    665.70  DOWNSTREAM(FEET) =    662.50
 CHANNEL LENGTH THRU SUBAREA(FEET) =   710.00   CHANNEL SLOPE =  0.0045
 CHANNEL FLOW THRU SUBAREA(CFS) =       8.75
 FLOW VELOCITY(FEET/SEC) =   1.62 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   7.29   Tc(MIN.) =   34.06
 LONGEST FLOWPATH FROM NODE    110.00 TO NODE    112.00 =    1540.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   34.06
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.405
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                B        8.35      0.31      1.000    84
 NATURAL FAIR COVER
 "OPEN BRUSH"                C        0.10      0.19      1.000    92
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =     8.45      SUBAREA RUNOFF(CFS) =     8.35
 EFFECTIVE AREA(ACRES) =     15.75   AREA-AVERAGED Fm(INCH/HR) =  0.30
 AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  1.00
 TOTAL AREA(ACRES) =       15.8       PEAK FLOW RATE(CFS) =      15.66

****************************************************************************
 FLOW PROCESS FROM NODE    112.00 TO NODE    113.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    662.50  DOWNSTREAM(FEET) =    660.10
 CHANNEL LENGTH THRU SUBAREA(FEET) =   375.00   CHANNEL SLOPE =  0.0064
 CHANNEL FLOW THRU SUBAREA(CFS) =      15.66
 FLOW VELOCITY(FEET/SEC) =   2.25 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   2.78   Tc(MIN.) =   36.84
 LONGEST FLOWPATH FROM NODE    110.00 TO NODE    113.00 =    1915.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    112.00 TO NODE    113.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
```

```
 MAINLINE Tc(MIN.) =   36.84
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.340
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                 B        0.80      0.31     1.000    84
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    0.80      SUBAREA RUNOFF(CFS) =    0.74
 EFFECTIVE AREA(ACRES) =     16.55   AREA-AVERAGED Fm(INCH/HR) =  0.30
 AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  1.00
 TOTAL AREA(ACRES) =       16.6       PEAK FLOW RATE(CFS) =      15.66
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
 FLOW PROCESS FROM NODE    113.00 TO NODE    113.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =   36.84
 RAINFALL INTENSITY(INCH/HR) =   1.34
 AREA-AVERAGED Fm(INCH/HR) =  0.30
 AREA-AVERAGED Fp(INCH/HR) =  0.30
 AREA-AVERAGED Ap =  1.00
 EFFECTIVE STREAM AREA(ACRES) =      16.55
 TOTAL STREAM AREA(ACRES) =      16.55
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      15.66

 ** CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       53.01   34.43    1.396  0.14( 0.13) 0.97      40.8     100.00
     2       15.66   36.84    1.340  0.30( 0.30) 1.00      16.6     110.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       68.42   34.43    1.396  0.18( 0.18) 0.98      56.3     100.00
     2       66.33   36.84    1.340  0.19( 0.18) 0.98      57.3     110.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =      68.42    Tc(MIN.) =    34.43
 EFFECTIVE AREA(ACRES) =      56.26   AREA-AVERAGED Fm(INCH/HR) =  0.18
 AREA-AVERAGED Fp(INCH/HR) =  0.18  AREA-AVERAGED Ap =  0.98
 TOTAL AREA(ACRES) =       57.3
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    113.00 =    3050.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    113.00 TO NODE    114.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    660.10  DOWNSTREAM(FEET) =    656.50
 CHANNEL LENGTH THRU SUBAREA(FEET) =   830.00   CHANNEL SLOPE =  0.0043
 CHANNEL FLOW THRU SUBAREA(CFS) =      68.42
 FLOW VELOCITY(FEET/SEC) =   2.79 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   4.95   Tc(MIN.) =   39.38
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    114.00 =    3880.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    113.00 TO NODE    114.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   39.38
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.287
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
```

```
     LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  NATURAL FAIR COVER
  "OPEN BRUSH"               B        1.25      0.31      1.000    84
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
  SUBAREA AREA(ACRES) =    1.25      SUBAREA RUNOFF(CFS) =    1.10
  EFFECTIVE AREA(ACRES) =     57.51   AREA-AVERAGED Fm(INCH/HR) =  0.18
  AREA-AVERAGED Fp(INCH/HR) =  0.19  AREA-AVERAGED Ap =  0.98
  TOTAL AREA(ACRES) =       58.6       PEAK FLOW RATE(CFS) =      68.42
  NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    205.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   39.38
  RAINFALL INTENSITY(INCH/HR) =   1.29
  AREA-AVERAGED Fm(INCH/HR) =  0.18
  AREA-AVERAGED Fp(INCH/HR) =  0.19
  AREA-AVERAGED Ap =  0.98
  EFFECTIVE STREAM AREA(ACRES) =      57.51
  TOTAL STREAM AREA(ACRES) =      58.60
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      68.42

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   780.00
  ELEVATION DATA: UPSTREAM(FEET) =    670.80  DOWNSTREAM(FEET) =    665.50

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.838
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.648
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL FAIR COVER
  "OPEN BRUSH"               B        7.40      0.31      1.000    84   27.49
  RESIDENTIAL
  "8-10 DWELLINGS/ACRE"      B        0.35      0.42      0.400    76   14.56
  COMMERCIAL                 B        0.15      0.42      0.100    76   11.84
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.956
  SUBAREA RUNOFF(CFS) =     16.72
  TOTAL AREA(ACRES) =      7.90   PEAK FLOW RATE(CFS) =     16.72

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  52
----------------------------------------------------------------------------
  >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    665.50  DOWNSTREAM(FEET) =    662.20
  CHANNEL LENGTH THRU SUBAREA(FEET) =   630.00   CHANNEL SLOPE =  0.0052
  CHANNEL FLOW THRU SUBAREA(CFS) =      16.72
  FLOW VELOCITY(FEET/SEC) =   2.07 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
  TRAVEL TIME(MIN.) =   5.08   Tc(MIN.) =   16.92
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =    1410.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =   16.92
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.137
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  NATURAL FAIR COVER
  "OPEN BRUSH"               B        8.90      0.31      1.000    84
```

```
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    8.90      SUBAREA RUNOFF(CFS) =   14.65
 EFFECTIVE AREA(ACRES) =     16.80   AREA-AVERAGED Fm(INCH/HR) =  0.30
 AREA-AVERAGED Fp(INCH/HR) =  0.31  AREA-AVERAGED Ap =  0.98
 TOTAL AREA(ACRES) =       16.8       PEAL FLOW RATE(CFS) =      27.74

****************************************************************************
 FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    662.20  DOWNSTREAM(FEET) =    658.00
 CHANNEL LENGTH THRU SUBAREA(FEET) =   630.00   CHANNEL SLOPE =  0.0067
 CHANNEL FLOW THRU SUBAREA(CFS) =      27.74
 FLOW VELOCITY(FEET/SEC) =   2.68 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   3.92   Tc(MIN.) =   20.84
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    203.00 =    2040.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   20.84
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.886
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                 B        8.50      0.31     1.000    84
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    8.50      SUBAREA RUNOFF(CFS) =   12.07
 EFFECTIVE AREA(ACRES) =     25.30   AREA-AVERAGED Fm(INCH/HR) =  0.30
 AREA-AVERAGED Fp(INCH/HR) =  0.31  AREA-AVERAGED Ap =  0.99
 TOTAL AREA(ACRES) =       25.3       PEAL FLOW RATE(CFS) =      36.01

****************************************************************************
 FLOW PROCESS FROM NODE    203.00 TO NODE    204.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    658.00  DOWNSTREAM(FEET) =    656.20
 CHANNEL LENGTH THRU SUBAREA(FEET) =   545.00   CHANNEL SLOPE =  0.0033
 CHANNEL FLOW THRU SUBAREA(CFS) =      36.01
 FLOW VELOCITY(FEET/SEC) =   2.03 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   4.48   Tc(MIN.) =   25.33
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    204.00 =    2585.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    203.00 TO NODE    204.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   25.33
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.678
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                 B        8.85      0.31     1.000    84
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    8.85      SUBAREA RUNOFF(CFS) =   10.91
 EFFECTIVE AREA(ACRES) =     34.15   AREA-AVERAGED Fm(INCH/HR) =  0.31
 AREA-AVERAGED Fp(INCH/HR) =  0.31  AREA-AVERAGED Ap =  0.99
 TOTAL AREA(ACRES) =       34.2       PEAL FLOW RATE(CFS) =      42.18

****************************************************************************
 FLOW PROCESS FROM NODE    204.00 TO NODE    205.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
```

```
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =   25.33
 RAINFALL INTENSITY(INCH/HR) =   1.68
 AREA-AVERAGED Fm(INCH/HR) =  0.31
 AREA-AVERAGED Fp(INCH/HR) =  0.31
 AREA-AVERAGED Ap =  0.99
 EFFECTIVE STREAM AREA(ACRES) =      34.15
 TOTAL STREAM AREA(ACRES) =      34.15
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      42.18

 ** CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       68.42   39.38    1.287  0.19( 0.18) 0.98      57.5     100.00
     1       66.33   41.84    1.241  0.19( 0.19) 0.98      58.6     110.00
     2       42.18   25.33    1.678  0.31( 0.31) 0.99      34.2     200.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1      101.74   25.33    1.678  0.25( 0.24) 0.99      71.1     200.00
     2       98.61   39.38    1.287  0.23( 0.23) 0.98      91.7     100.00
     3       95.10   41.84    1.241  0.23( 0.23) 0.99      92.8     110.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =     101.74    Tc(MIN.) =    25.33
 EFFECTIVE AREA(ACRES) =      71.14   AREA-AVERAGED Fm(INCH/HR) =  0.24
 AREA-AVERAGED Fp(INCH/HR) =  0.25  AREA-AVERAGED Ap =  0.99
 TOTAL AREA(ACRES) =       92.8
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    205.00 =    3880.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   25.33
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.678
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                B        2.70      0.31     1.000    84
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =     2.70      SUBAREA RUNOFF(CFS) =     3.33
 EFFECTIVE AREA(ACRES) =     73.84   AREA-AVERAGED Fm(INCH/HR) =  0.24
 AREA-AVERAGED Fp(INCH/HR) =  0.25  AREA-AVERAGED Ap =  0.99
 TOTAL AREA(ACRES) =       95.4       PEAK FLOW RATE(CFS) =     101.74
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE
============================================================================
 END OF STUDY SUMMARY:
 TOTAL AREA(ACRES)      =       95.4  TC(MIN.) =     25.33
 EFFECTIVE AREA(ACRES) =     73.84  AREA-AVERAGED Fm(INCH/HR)=  0.24
 AREA-AVERAGED Fp(INCH/HR) =  0.25  AREA-AVERAGED Ap = 0.986
 PEAK FLOW RATE(CFS)   =     101.74

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1      101.74   25.33    1.678  0.25( 0.24) 0.99      73.8     200.00
     2       98.61   39.38    1.287  0.23( 0.23) 0.99      94.4     100.00
     3       95.10   41.84    1.241  0.24( 0.23) 0.99      95.4     110.00
============================================================================
============================================================================
 END OF RATIONAL METHOD ANALYSIS
```

```
**************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
         (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)
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                          Analysis prepared by:

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                           LA MIRADA, CA 90638


 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO                             *
* EXISTING CONDITION 100-YEAR                                           *
* SOUTHEAST PORTION OF SITE TRIBUTARY TO MERRILL AVE                    *
 ************************************************************************

  FILE NAME: W:\3654\EX100B.DAT
  TIME/DATE OF STUDY: 16:15 06/19/2018
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  =====  ====  =====  =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

**************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    301.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   755.00
  ELEVATION DATA: UPSTREAM(FEET) =    666.00  DOWNSTREAM(FEET) =    659.80

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.250
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.730
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL FAIR COVER
  "OPEN BRUSH"               C        7.15      0.19      1.000    92   26.13
  RESIDENTIAL
  "2 DWELLINGS/ACRE"         C        0.20      0.27      0.700    86   16.21
  COMMERCIAL                 C        0.20      0.27      0.100    86   11.25
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.19
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.968
  SUBAREA RUNOFF(CFS) =     17.29
  TOTAL AREA(ACRES) =      7.55   PEAK FLOW RATE(CFS) =     17.29
```

```
****************************************************************************
 FLOW PROCESS FROM NODE    301.00 TO NODE    302.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    659.80  DOWNSTREAM(FEET) =    657.20
 CHANNEL LENGTH THRU SUBAREA(FEET) =   635.00   CHANNEL SLOPE =  0.0041
 CHANNEL FLOW THRU SUBAREA(CFS) =      17.29
 FLOW VELOCITY(FEET/SEC) =   1.84 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   5.74   Tc(MIN.) =   16.99
 LONGEST FLOWPATH FROM NODE    300.00 TO NODE    302.00 =    1390.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    301.00 TO NODE    302.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   16.99
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.132
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                C        3.20      0.19     1.000    92
 NATURAL FAIR COVER
 "OPEN BRUSH"                B        2.75      0.31     1.000    84
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.24
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    5.95      SUBAREA RUNOFF(CFS) =   10.11
 EFFECTIVE AREA(ACRES) =     13.50   AREA-AVERAGED Fm(INCH/HR) =  0.21
 AREA-AVERAGED Fp(INCH/HR) =  0.22  AREA-AVERAGED Ap =  0.98
 TOTAL AREA(ACRES) =       13.5       PEAK FLOW RATE(CFS) =      23.33

****************************************************************************
 FLOW PROCESS FROM NODE    302.00 TO NODE    303.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    657.20  DOWNSTREAM(FEET) =    655.50
 CHANNEL LENGTH THRU SUBAREA(FEET) =   450.00   CHANNEL SLOPE =  0.0038
 CHANNEL FLOW THRU SUBAREA(CFS) =      23.33
 FLOW VELOCITY(FEET/SEC) =   1.92 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   3.91   Tc(MIN.) =   20.90
 LONGEST FLOWPATH FROM NODE    300.00 TO NODE    303.00 =    1840.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    302.00 TO NODE    303.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   20.90
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.883
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                B        8.45      0.31     1.000    84
 NATURAL FAIR COVER
 "OPEN BRUSH"                C        1.50      0.19     1.000    92
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.29
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    9.95      SUBAREA RUNOFF(CFS) =   14.26
 EFFECTIVE AREA(ACRES) =     23.45   AREA-AVERAGED Fm(INCH/HR) =  0.24
 AREA-AVERAGED Fp(INCH/HR) =  0.25  AREA-AVERAGED Ap =  0.99
 TOTAL AREA(ACRES) =       23.5       PEAK FLOW RATE(CFS) =      34.57

****************************************************************************
 FLOW PROCESS FROM NODE    303.00 TO NODE    304.00 IS CODE =  52
----------------------------------------------------------------------------
 >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
 >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =    655.50  DOWNSTREAM(FEET) =    653.40
 CHANNEL LENGTH THRU SUBAREA(FEET) =   540.00   CHANNEL SLOPE =  0.0039
 CHANNEL FLOW THRU SUBAREA(CFS) =      34.57
```

```
 FLOW VELOCITY(FEET/SEC) =   2.17 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
 TRAVEL TIME(MIN.) =   4.14   Tc(MIN.) =   25.04
 LONGEST FLOWPATH FROM NODE    300.00 TO NODE    304.00 =    2380.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    303.00 TO NODE    304.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   25.04
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.689
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                B        7.35      0.31     1.000    84
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    7.35      SUBAREA RUNOFF(CFS) =    9.14
 EFFECTIVE AREA(ACRES) =     30.80   AREA-AVERAGED Fm(INCH/HR) =  0.26
 AREA-AVERAGED Fp(INCH/HR) =  0.26  AREA-AVERAGED Ap =  0.99
 TOTAL AREA(ACRES) =       30.8       PEAK FLOW RATE(CFS) =      39.62
============================================================================
 END OF STUDY SUMMARY:
 TOTAL AREA(ACRES)     =       30.8  TC(MIN.) =     25.04
 EFFECTIVE AREA(ACRES) =     30.80  AREA-AVERAGED Fm(INCH/HR)=  0.26
 AREA-AVERAGED Fp(INCH/HR) =  0.26  AREA-AVERAGED Ap = 0.992
 PEAK FLOW RATE(CFS)   =      39.62
============================================================================
============================================================================
 END OF RATIONAL METHOD ANALYSIS
```

```
**************************************************************************
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                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRADA, CA 90638


 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO                             *
* EXISTING CONDITION 100-YEAR                                            *
* PORTION OF SITE TRIBUTARY TO GROVE AVE                                 *
 **************************************************************************

  FILE NAME: W:\3654\EX100C.DAT
  TIME/DATE OF STUDY: 15:45 06/19/2018
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  ========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

**************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =  1000.00
  ELEVATION DATA: UPSTREAM(FEET) =    675.00  DOWNSTREAM(FEET) =    664.80

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   16.337
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.183
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  NATURAL POOR COVER
  "BARREN"                    A        1.15      0.18      1.000    93   20.82
  RESIDENTIAL
  "3-4 DWELLINGS/ACRE"        A        0.25      0.74      0.600    52   16.34
  NATURAL FAIR COVER
  "OPEN BRUSH"                C        0.45      0.19      1.000    92   28.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.23
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.946
  SUBAREA RUNOFF(CFS) =      3.27
  TOTAL AREA(ACRES) =      1.85   PEAK FLOW RATE(CFS) =      3.27
```

```
****************************************************************************
 FLOW PROCESS FROM NODE    401.00 TO NODE    402.00 IS CODE =  62
----------------------------------------------------------------------------
 >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>(STREET TABLE SECTION #  1 USED)<<<<<
============================================================================
 UPSTREAM ELEVATION(FEET) =  664.80  DOWNSTREAM ELEVATION(FEET) =  658.20
 STREET LENGTH(FEET) =   950.00   CURB HEIGHT(INCHES) =  8.0
 STREET HALFWIDTH(FEET) = 30.00

 DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
 INSIDE STREET CROSSFALL(DECIMAL) =  0.018
 OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.018

 SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
 STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
 Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0150
 Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

   **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       4.92
   STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
   STREET FLOW DEPTH(FEET) =  0.43
   HALFSTREET FLOOD WIDTH(FEET) =   14.96
   AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.24
   PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.96
 STREET FLOW TRAVEL TIME(MIN.) =   7.06   Tc(MIN.) =   23.40
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  1.759
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"               C        1.90      0.19     1.000    92
 RESIDENTIAL
 "2 DWELLINGS/ACRE"         C        0.20      0.27     0.700    86
 COMMERCIAL                 C        0.20      0.27     0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.20
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.896
 SUBAREA AREA(ACRES) =    2.30      SUBAREA RUNOFF(CFS) =    3.28
 EFFECTIVE AREA(ACRES) =      4.15    AREA-AVERAGED Fm(INCH/HR) =  0.19
 AREA-AVERAGED Fp(INCH/HR) =  0.21  AREA-AVERAGED Ap =  0.92
 TOTAL AREA(ACRES) =        4.1        PEAK FLOW RATE(CFS) =       5.84

 END OF SUBAREA STREET FLOW HYDRAULICS:
 DEPTH(FEET) = 0.45   HALFSTREET FLOOD WIDTH(FEET) =  16.05
 FLOW VELOCITY(FEET/SEC.) =  2.34   DEPTH*VELOCITY(FT*FT/SEC.) =   1.05
 LONGEST FLOWPATH FROM NODE    400.00 TO NODE    402.00 =    1950.00 FEET.
============================================================================
 END OF STUDY SUMMARY:
 TOTAL AREA(ACRES)     =        4.1  TC(MIN.) =     23.40
 EFFECTIVE AREA(ACRES) =      4.15  AREA-AVERAGED Fm(INCH/HR)=  0.19
 AREA-AVERAGED Fp(INCH/HR) =  0.21  AREA-AVERAGED Ap = 0.918
 PEAK FLOW RATE(CFS)   =       5.84
============================================================================
============================================================================
 END OF RATIONAL METHOD ANALYSIS
```

PROPOSED CONDITION

```
**************************************************************************
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                        Analysis prepared by:



 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO                             *
* PROPOSED CONDITION 100-YEAR                                            *
* NORTHERLY PORTION OF SITE (BUILDINGS 4-8)                              *
 **************************************************************************

  FILE NAME: W:\3654\PR100A.DAT
  TIME/DATE OF STUDY: 22:35 12/12/2020
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ==================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

**************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   530.00
  ELEVATION DATA: UPSTREAM(FEET) =    672.13  DOWNSTREAM(FEET) =    667.51

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.650
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.994
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        2.35      0.74      0.100    52    9.65
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      6.17
  TOTAL AREA(ACRES) =      2.35   PEAK FLOW RATE(CFS) =      6.17

**************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    112.00 IS CODE =  31
--------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   663.51  DOWNSTREAM(FEET) =   662.95
 FLOW LENGTH(FEET) =   112.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  12.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.92
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       6.17
 PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =   10.03
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    112.00 =     642.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   10.03
 RAINFALL INTENSITY(INCH/HR) =   2.93
 AREA-AVERAGED Fm(INCH/HR) =  0.07
 AREA-AVERAGED Fp(INCH/HR) =  0.74
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       2.35
 TOTAL STREAM AREA(ACRES) =       2.35
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       6.17

****************************************************************************
 FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   510.00
 ELEVATION DATA: UPSTREAM(FEET) =    674.45  DOWNSTREAM(FEET) =    667.51

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.692
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.187
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                 A        1.95      0.74     0.100    52    8.69
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      5.46
 TOTAL AREA(ACRES) =      1.95   PEAK FLOW RATE(CFS) =      5.46

****************************************************************************
 FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.69
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.187
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"               A        0.35      0.55     1.000    66
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.55
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    0.35      SUBAREA RUNOFF(CFS) =    0.83
 EFFECTIVE AREA(ACRES) =      2.30   AREA-AVERAGED Fm(INCH/HR) =  0.15
 AREA-AVERAGED Fp(INCH/HR) =  0.62  AREA-AVERAGED Ap =  0.24
 TOTAL AREA(ACRES) =        2.3       PEAK FLOW RATE(CFS) =       6.29

****************************************************************************
 FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   663.51  DOWNSTREAM(FEET) =   663.46
 FLOW LENGTH(FEET) =    10.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  12.2 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.94
```

```
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       6.29
 PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =    8.73
 LONGEST FLOWPATH FROM NODE    110.00 TO NODE    112.00 =     520.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    8.73
 RAINFALL INTENSITY(INCH/HR) =   3.18
 AREA-AVERAGED Fm(INCH/HR) =  0.15
 AREA-AVERAGED Fp(INCH/HR) =  0.62
 AREA-AVERAGED Ap =  0.24
 EFFECTIVE STREAM AREA(ACRES) =       2.30
 TOTAL STREAM AREA(ACRES) =       2.30
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       6.29

 ** CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1        6.17   10.03    2.925  0.74( 0.07) 0.10       2.3     100.00
     2        6.29    8.73    3.180  0.62( 0.15) 0.24       2.3     110.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       12.15    8.73    3.180  0.65( 0.11) 0.17       4.3     110.00
     2       11.94   10.03    2.925  0.65( 0.11) 0.17       4.6     100.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =      12.15    Tc(MIN.) =     8.73
 EFFECTIVE AREA(ACRES) =       4.34   AREA-AVERAGED Fm(INCH/HR) =  0.11
 AREA-AVERAGED Fp(INCH/HR) =  0.65  AREA-AVERAGED Ap =  0.17
 TOTAL AREA(ACRES) =        4.6
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    112.00 =     642.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    112.00 TO NODE    132.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   662.95  DOWNSTREAM(FEET) =   660.48
 FLOW LENGTH(FEET) =   494.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  15.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.85
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      12.15
 PIPE TRAVEL TIME(MIN.) =   1.41    Tc(MIN.) =   10.13
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    132.00 =    1136.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    132.00 TO NODE    132.00 IS CODE =  10
----------------------------------------------------------------------------
 >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
 FLOW PROCESS FROM NODE    120.00 TO NODE    121.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   445.00
 ELEVATION DATA: UPSTREAM(FEET) =    674.45  DOWNSTREAM(FEET) =    667.29

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    7.960
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.360
```

```
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                  A        1.70      0.74      0.100    52    7.96
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      5.03
 TOTAL AREA(ACRES) =      1.70   PEAK FLOW RATE(CFS) =      5.03

****************************************************************************
 FLOW PROCESS FROM NODE    121.00 TO NODE    131.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   663.29  DOWNSTREAM(FEET) =   662.66
 FLOW LENGTH(FEET) =   126.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.5 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.71
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       5.03
 PIPE TRAVEL TIME(MIN.) =   0.45    Tc(MIN.) =    8.41
 LONGEST FLOWPATH FROM NODE    120.00 TO NODE    131.00 =     571.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    131.00 TO NODE    131.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =    8.41
 RAINFALL INTENSITY(INCH/HR) =   3.25
 AREA-AVERAGED Fm(INCH/HR) =  0.07
 AREA-AVERAGED Fp(INCH/HR) =  0.74
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       1.70
 TOTAL STREAM AREA(ACRES) =       1.70
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       5.03

****************************************************************************
 FLOW PROCESS FROM NODE    130.00 TO NODE    131.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   455.00
 ELEVATION DATA: UPSTREAM(FEET) =    674.18  DOWNSTREAM(FEET) =    667.29

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.129
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.318
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                  A        1.75      0.74      0.100    52    8.13
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      5.11
 TOTAL AREA(ACRES) =      1.75   PEAK FLOW RATE(CFS) =      5.11

****************************************************************************
 FLOW PROCESS FROM NODE    131.00 TO NODE    131.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    8.13
 RAINFALL INTENSITY(INCH/HR) =   3.32
 AREA-AVERAGED Fm(INCH/HR) =  0.07
 AREA-AVERAGED Fp(INCH/HR) =  0.74
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       1.75
 TOTAL STREAM AREA(ACRES) =       1.75
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       5.11
```

```
 ** CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1        5.03    8.41    3.252  0.74( 0.07) 0.10       1.7     120.00
     2        5.11    8.13    3.318  0.74( 0.07) 0.10       1.8     130.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       10.07    8.13    3.318  0.74( 0.07) 0.10       3.4     130.00
     2       10.03    8.41    3.252  0.74( 0.07) 0.10       3.5     120.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =      10.07    Tc(MIN.) =     8.13
 EFFECTIVE AREA(ACRES) =       3.39   AREA-AVERAGED Fm(INCH/HR) =  0.07
 AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        3.5
 LONGEST FLOWPATH FROM NODE    120.00 TO NODE    131.00 =     571.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    131.00 TO NODE    131.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.13
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.318
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                A        0.30      0.55     1.000    66
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.55
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    0.30      SUBAREA RUNOFF(CFS) =    0.75
 EFFECTIVE AREA(ACRES) =      3.69   AREA-AVERAGED Fm(INCH/HR) =  0.11
 AREA-AVERAGED Fp(INCH/HR) =  0.65  AREA-AVERAGED Ap =  0.17
 TOTAL AREA(ACRES) =        3.8       PEAK FLOW RATE(CFS) =      10.66

****************************************************************************
 FLOW PROCESS FROM NODE    131.00 TO NODE    132.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   663.29  DOWNSTREAM(FEET) =   663.24
 FLOW LENGTH(FEET) =    10.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  15.6 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.57
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      10.66
 PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =    8.16
 LONGEST FLOWPATH FROM NODE    120.00 TO NODE    132.00 =     581.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    132.00 TO NODE    132.00 IS CODE =  11
----------------------------------------------------------------------------
 >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

 ** MAIN STREAM CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       10.66    8.16    3.311  0.65( 0.11) 0.17       3.7     130.00
     2       10.60    8.44    3.245  0.65( 0.11) 0.17       3.8     120.00
 LONGEST FLOWPATH FROM NODE    120.00 TO NODE    132.00 =     581.00 FEET.

 ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       12.15   10.13    2.907  0.65( 0.11) 0.17       4.3     110.00
     2       11.94   11.44    2.703  0.65( 0.11) 0.17       4.6     100.00
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    132.00 =    1136.00 FEET.
```

```
 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       21.85    8.16    3.311  0.65( 0.11) 0.17       7.2     130.00
     2       21.93    8.44    3.245  0.65( 0.11) 0.17       7.4     120.00
     3       21.60   10.13    2.907  0.65( 0.11) 0.17       8.1     110.00
     4       20.70   11.44    2.703  0.65( 0.11) 0.17       8.4     100.00
   TOTAL AREA(ACRES) =         8.4

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =       21.93  Tc(MIN.) =    8.436
 EFFECTIVE AREA(ACRES) =      7.37  AREA-AVERAGED Fm(INCH/HR) =  0.11
 AREA-AVERAGED Fp(INCH/HR) =  0.65  AREA-AVERAGED Ap =  0.17
 TOTAL AREA(ACRES) =        8.4
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    132.00 =    1136.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    132.00 TO NODE    132.00 IS CODE =  12
----------------------------------------------------------------------------
 >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
 FLOW PROCESS FROM NODE    132.00 TO NODE    152.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   660.48  DOWNSTREAM(FEET) =   658.21
 FLOW LENGTH(FEET) =   454.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.62
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      21.93
 PIPE TRAVEL TIME(MIN.) =   1.14    Tc(MIN.) =    9.58
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    152.00 =    1590.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    152.00 TO NODE    152.00 IS CODE =  10
----------------------------------------------------------------------------
 >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
 FLOW PROCESS FROM NODE    140.00 TO NODE    141.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   480.00
 ELEVATION DATA: UPSTREAM(FEET) =    674.18  DOWNSTREAM(FEET) =    667.06

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.339
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.268
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                  A        0.55      0.74      0.100     52    8.34
 COMMERCIAL                  C        1.25      0.27      0.100     86    8.34
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      5.23
 TOTAL AREA(ACRES) =      1.80   PEAK FLOW RATE(CFS) =      5.23

****************************************************************************
 FLOW PROCESS FROM NODE    141.00 TO NODE    151.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   663.06  DOWNSTREAM(FEET) =   662.55
 FLOW LENGTH(FEET) =   102.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.7 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.76
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       5.23
```

```
 PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    8.70
 LONGEST FLOWPATH FROM NODE    140.00 TO NODE    151.00 =     582.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    151.00 TO NODE    151.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =    8.70
 RAINFALL INTENSITY(INCH/HR) =   3.19
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       1.80
 TOTAL STREAM AREA(ACRES) =       1.80
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       5.23

****************************************************************************
 FLOW PROCESS FROM NODE    150.00 TO NODE    151.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   480.00
 ELEVATION DATA: UPSTREAM(FEET) =    671.89  DOWNSTREAM(FEET) =    667.06

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.012
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.119
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                 B        1.05      0.42      0.100    76    9.01
 COMMERCIAL                 C        0.80      0.27      0.100    86    9.01
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.36
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      5.13
 TOTAL AREA(ACRES) =      1.85   PEAK FLOW RATE(CFS) =      5.13

****************************************************************************
 FLOW PROCESS FROM NODE    151.00 TO NODE    151.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    9.01
 RAINFALL INTENSITY(INCH/HR) =   3.12
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.36
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       1.85
 TOTAL STREAM AREA(ACRES) =       1.85
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       5.13

 ** CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1        5.23    8.70    3.186  0.42( 0.04) 0.10       1.8     140.00
     2        5.13    9.01    3.119  0.36( 0.04) 0.10       1.8     150.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       10.29    8.70    3.186  0.39( 0.04) 0.10       3.6     140.00
     2       10.25    9.01    3.119  0.39( 0.04) 0.10       3.6     150.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =      10.29    Tc(MIN.) =     8.70
 EFFECTIVE AREA(ACRES) =       3.59   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.39  AREA-AVERAGED Ap =  0.10
```

```
 TOTAL AREA(ACRES) =        3.6
 LONGEST FLOWPATH FROM NODE    140.00 TO NODE    151.00 =     582.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    151.00 TO NODE    151.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.70
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.186
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                C        0.35      0.19     1.000    92
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.19
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    0.35      SUBAREA RUNOFF(CFS) =    0.94
 EFFECTIVE AREA(ACRES) =      3.94   AREA-AVERAGED Fm(INCH/HR) =  0.05
 AREA-AVERAGED Fp(INCH/HR) =  0.29  AREA-AVERAGED Ap =  0.18
 TOTAL AREA(ACRES) =        4.0       PEAK FLOW RATE(CFS) =      11.10

****************************************************************************
 FLOW PROCESS FROM NODE    151.00 TO NODE    152.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   662.55  DOWNSTREAM(FEET) =   662.50
 FLOW LENGTH(FEET) =    10.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  16.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.59
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      11.10
 PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =    8.73
 LONGEST FLOWPATH FROM NODE    140.00 TO NODE    152.00 =     592.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    152.00 TO NODE    152.00 IS CODE =  11
----------------------------------------------------------------------------
 >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

 ** MAIN STREAM CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       11.10    8.73    3.180  0.29( 0.05) 0.18       3.9     140.00
     2       11.04    9.04    3.113  0.29( 0.05) 0.18       4.0     150.00
 LONGEST FLOWPATH FROM NODE    140.00 TO NODE    152.00 =     592.00 FEET.

 ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       21.85    9.30    3.060  0.65( 0.11) 0.17       7.2     130.00
     2       21.93    9.58    3.007  0.65( 0.11) 0.17       7.4     120.00
     3       21.60   11.28    2.726  0.65( 0.11) 0.17       8.1     110.00
     4       20.70   12.59    2.552  0.65( 0.11) 0.17       8.4     100.00
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    152.00 =    1590.00 FEET.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       32.43    8.73    3.180  0.51( 0.09) 0.18      10.7     140.00
     2       32.66    9.04    3.113  0.52( 0.09) 0.17      11.0     150.00
     3       32.70    9.30    3.060  0.52( 0.09) 0.17      11.2     130.00
     4       32.59    9.58    3.007  0.52( 0.09) 0.17      11.4     120.00
     5       31.25   11.28    2.726  0.53( 0.09) 0.17      12.1     110.00
     6       29.72   12.59    2.552  0.53( 0.09) 0.17      12.4     100.00
   TOTAL AREA(ACRES) =        12.4

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =       32.70  Tc(MIN.) =    9.302
 EFFECTIVE AREA(ACRES) =     11.19  AREA-AVERAGED Fm(INCH/HR) =  0.09
 AREA-AVERAGED Fp(INCH/HR) =  0.52  AREA-AVERAGED Ap =  0.17
 TOTAL AREA(ACRES) =       12.4
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    152.00 =    1590.00 FEET.
```

```
**************************************************************************
 FLOW PROCESS FROM NODE    152.00 TO NODE    152.00 IS CODE =  12
--------------------------------------------------------------------------
 >>>>>CLEAR MEMORY BANK # 1 <<<<<
==========================================================================

**************************************************************************
 FLOW PROCESS FROM NODE    152.00 TO NODE    172.00 IS CODE =  31
--------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==========================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   658.21  DOWNSTREAM(FEET) =   655.78
 FLOW LENGTH(FEET) =   486.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.43
 ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      32.70
 PIPE TRAVEL TIME(MIN.) =   1.09    Tc(MIN.) =   10.39
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    172.00 =    2076.00 FEET.

**************************************************************************
 FLOW PROCESS FROM NODE    172.00 TO NODE    172.00 IS CODE =  10
--------------------------------------------------------------------------
 >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
==========================================================================

**************************************************************************
 FLOW PROCESS FROM NODE    160.00 TO NODE    161.00 IS CODE =  21
--------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   485.00
 ELEVATION DATA: UPSTREAM(FEET) =    671.89  DOWNSTREAM(FEET) =    665.78

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.652
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.196
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap     SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                  B        1.90      0.42      0.100    76    8.65
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      5.39
 TOTAL AREA(ACRES) =      1.90   PEAK FLOW RATE(CFS) =      5.39

**************************************************************************
 FLOW PROCESS FROM NODE    161.00 TO NODE    171.00 IS CODE =  31
--------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==========================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   661.78  DOWNSTREAM(FEET) =   661.27
 FLOW LENGTH(FEET) =   102.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  11.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.78
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       5.39
 PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    9.01
 LONGEST FLOWPATH FROM NODE    160.00 TO NODE    171.00 =     587.00 FEET.

**************************************************************************
 FLOW PROCESS FROM NODE    171.00 TO NODE    171.00 IS CODE =   1
--------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==========================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =    9.01
 RAINFALL INTENSITY(INCH/HR) =   3.12
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       1.90
 TOTAL STREAM AREA(ACRES) =       1.90
```

```
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       5.39

****************************************************************************
 FLOW PROCESS FROM NODE    170.00 TO NODE    171.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   485.00
 ELEVATION DATA: UPSTREAM(FEET) =    671.33  DOWNSTREAM(FEET) =    665.78

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.820
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.159
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                  B        1.85      0.42     0.100    76    8.82
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      5.19
 TOTAL AREA(ACRES) =      1.85   PEAK FLOW RATE(CFS) =      5.19

****************************************************************************
 FLOW PROCESS FROM NODE    171.00 TO NODE    171.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    8.82
 RAINFALL INTENSITY(INCH/HR) =   3.16
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       1.85
 TOTAL STREAM AREA(ACRES) =       1.85
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       5.19

 ** CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1        5.39    9.01    3.120  0.42( 0.04) 0.10       1.9     160.00
     2        5.19    8.82    3.159  0.42( 0.04) 0.10       1.9     170.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.  .

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       10.54    8.82    3.159  0.42( 0.04) 0.10       3.7     170.00
     2       10.52    9.01    3.120  0.42( 0.04) 0.10       3.8     160.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =      10.54    Tc(MIN.) =     8.82
 EFFECTIVE AREA(ACRES) =       3.71   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        3.8
 LONGEST FLOWPATH FROM NODE    160.00 TO NODE    171.00 =     587.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    171.00 TO NODE    171.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.82
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.159
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                B        0.35      0.31     1.000    84
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    0.35      SUBAREA RUNOFF(CFS) =    0.90
```

```
 EFFECTIVE AREA(ACRES) =      4.06   AREA-AVERAGED Fm(INCH/HR) =  0.07
 AREA-AVERAGED Fp(INCH/HR) =  0.37  AREA-AVERAGED Ap =  0.18
 TOTAL AREA(ACRES) =        4.1       PEAK FLOW RATE(CFS) =      11.31

****************************************************************************
 FLOW PROCESS FROM NODE    171.00 TO NODE    172.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   661.78  DOWNSTREAM(FEET) =   661.73
 FLOW LENGTH(FEET) =    10.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  16.4 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.61
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      11.31
 PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =    8.85
 LONGEST FLOWPATH FROM NODE    160.00 TO NODE    172.00 =     597.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    172.00 TO NODE    172.00 IS CODE =  11
----------------------------------------------------------------------------
 >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

 ** MAIN STREAM CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       11.31    8.85    3.153  0.37( 0.07) 0.18       4.1     170.00
     2       11.27    9.04    3.114  0.37( 0.06) 0.18       4.1     160.00
 LONGEST FLOWPATH FROM NODE    160.00 TO NODE    172.00 =     597.00 FEET.

 ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       32.43    9.82    2.963  0.51( 0.09) 0.18      10.7     140.00
     2       32.66   10.13    2.907  0.52( 0.09) 0.17      11.0     150.00
     3       32.70   10.39    2.863  0.52( 0.09) 0.17      11.2     130.00
     4       32.59   10.67    2.818  0.52( 0.09) 0.17      11.4     120.00
     5       31.25   12.38    2.578  0.53( 0.09) 0.17      12.1     110.00
     6       29.72   13.73    2.423  0.53( 0.09) 0.17      12.4     100.00
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    172.00 =    2076.00 FEET.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       42.48    8.85    3.153  0.47( 0.08) 0.18      13.7     170.00
     2       42.69    9.04    3.114  0.47( 0.08) 0.18      13.9     160.00
     3       43.14    9.82    2.963  0.47( 0.08) 0.18      14.8     140.00
     4       43.17   10.13    2.907  0.48( 0.08) 0.18      15.1     150.00
     5       43.05   10.39    2.863  0.48( 0.08) 0.18      15.3     130.00
     6       42.77   10.67    2.818  0.48( 0.08) 0.18      15.5     120.00
     7       40.54   12.38    2.578  0.49( 0.09) 0.18      16.2     110.00
     8       38.44   13.73    2.423  0.49( 0.09) 0.17      16.5     100.00
   TOTAL AREA(ACRES) =        16.5

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =       43.17  Tc(MIN.) =   10.132
 EFFECTIVE AREA(ACRES) =     15.09  AREA-AVERAGED Fm(INCH/HR) =  0.08
 AREA-AVERAGED Fp(INCH/HR) =  0.48  AREA-AVERAGED Ap =  0.18
 TOTAL AREA(ACRES) =       16.5
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    172.00 =    2076.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    172.00 TO NODE    172.00 IS CODE =  12
----------------------------------------------------------------------------
 >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
 FLOW PROCESS FROM NODE    172.00 TO NODE    183.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   655.78  DOWNSTREAM(FEET) =   653.27
 FLOW LENGTH(FEET) =   502.00   MANNING'S N =  0.012
```

```
 DEPTH OF FLOW IN  36.0 INCH PIPE IS  25.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.94
 ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      43.17
 PIPE TRAVEL TIME(MIN.) =   1.05    Tc(MIN.) =   11.19
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    183.00 =    2578.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    183.00 TO NODE    183.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   11.19
 RAINFALL INTENSITY(INCH/HR) =   2.74
 AREA-AVERAGED Fm(INCH/HR) =  0.08
 AREA-AVERAGED Fp(INCH/HR) =  0.48
 AREA-AVERAGED Ap =  0.18
 EFFECTIVE STREAM AREA(ACRES) =      15.09
 TOTAL STREAM AREA(ACRES) =      16.50
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      43.17

****************************************************************************
 FLOW PROCESS FROM NODE    180.00 TO NODE    181.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   505.00
 ELEVATION DATA: UPSTREAM(FEET) =    671.33  DOWNSTREAM(FEET) =    665.78

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.036
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.114
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                 B        1.95      0.42      0.100    76    9.04
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      5.39
 TOTAL AREA(ACRES) =      1.95   PEAK FLOW RATE(CFS) =      5.39

****************************************************************************
 FLOW PROCESS FROM NODE    181.00 TO NODE    182.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   661.78  DOWNSTREAM(FEET) =   661.27
 FLOW LENGTH(FEET) =   102.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  11.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.79
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       5.39
 PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    9.39
 LONGEST FLOWPATH FROM NODE    180.00 TO NODE    182.00 =     607.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    182.00 TO NODE    182.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    9.39
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.043
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.60      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.60      SUBAREA RUNOFF(CFS) =    4.32
 EFFECTIVE AREA(ACRES) =      3.55   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        3.6       PEAK FLOW RATE(CFS) =       9.59
```

```
****************************************************************************
 FLOW PROCESS FROM NODE    182.00 TO NODE    183.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   661.27  DOWNSTREAM(FEET) =   661.22
 FLOW LENGTH(FEET) =    10.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  14.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.48
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       9.59
 PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =    9.42
 LONGEST FLOWPATH FROM NODE    180.00 TO NODE    183.00 =     617.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    183.00 TO NODE    183.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    9.42
 RAINFALL INTENSITY(INCH/HR) =   3.04
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       3.55
 TOTAL STREAM AREA(ACRES) =       3.55
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       9.59

 ** CONFLUENCE DATA **
  STREAM       Q      Tc    Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       42.48    9.91    2.947  0.47( 0.08) 0.18      13.7     170.00
     1       42.69   10.09    2.914  0.47( 0.08) 0.18      13.9     160.00
     1       43.14   10.87    2.787  0.47( 0.08) 0.18      14.8     140.00
     1       43.17   11.19    2.740  0.48( 0.08) 0.18      15.1     150.00
     1       43.05   11.45    2.702  0.48( 0.08) 0.18      15.3     130.00
     1       42.77   11.72    2.663  0.48( 0.08) 0.18      15.5     120.00
     1       40.54   13.44    2.454  0.49( 0.09) 0.18      16.2     110.00
     1       38.44   14.83    2.313  0.49( 0.09) 0.17      16.5     100.00
     2        9.59    9.42    3.037  0.42( 0.04) 0.10       3.6     180.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc    Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       51.25    9.42    3.037  0.46( 0.07) 0.16      16.6     180.00
     2       51.77    9.91    2.947  0.46( 0.07) 0.16      17.2     170.00
     3       51.89   10.09    2.914  0.46( 0.07) 0.16      17.5     160.00
     4       51.93   10.87    2.787  0.47( 0.08) 0.16      18.3     140.00
     5       51.80   11.19    2.740  0.47( 0.08) 0.16      18.6     150.00
     6       51.56   11.45    2.702  0.47( 0.08) 0.16      18.8     130.00
     7       51.16   11.72    2.663  0.47( 0.08) 0.16      19.0     120.00
     8       48.26   13.44    2.454  0.48( 0.08) 0.16      19.7     110.00
     9       45.71   14.83    2.313  0.48( 0.08) 0.16      20.0     100.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =      51.93    Tc(MIN.) =    10.87
 EFFECTIVE AREA(ACRES) =      18.33   AREA-AVERAGED Fm(INCH/HR) =  0.08
 AREA-AVERAGED Fp(INCH/HR) =  0.47  AREA-AVERAGED Ap =  0.16
 TOTAL AREA(ACRES) =       20.0
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    183.00 =    2578.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    183.00 TO NODE    192.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   653.27  DOWNSTREAM(FEET) =   652.26
 FLOW LENGTH(FEET) =   202.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  39.0 INCH PIPE IS  27.4 INCHES
```

```
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.33
 ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      51.93
 PIPE TRAVEL TIME(MIN.) =   0.40    Tc(MIN.) =   11.28
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    192.00 =    2780.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    192.00 TO NODE    192.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   11.28
 RAINFALL INTENSITY(INCH/HR) =   2.73
 AREA-AVERAGED Fm(INCH/HR) =  0.08
 AREA-AVERAGED Fp(INCH/HR) =  0.47
 AREA-AVERAGED Ap =  0.16
 EFFECTIVE STREAM AREA(ACRES) =      18.33
 TOTAL STREAM AREA(ACRES) =      20.05
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      51.93

****************************************************************************
 FLOW PROCESS FROM NODE    190.00 TO NODE    191.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   285.00
 ELEVATION DATA: UPSTREAM(FEET) =    669.46  DOWNSTREAM(FEET) =    665.42

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.831
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.683
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                  B        0.45      0.42      0.100    76    6.83
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      1.47
 TOTAL AREA(ACRES) =      0.45   PEAK FLOW RATE(CFS) =      1.47

****************************************************************************
 FLOW PROCESS FROM NODE    191.00 TO NODE    191.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    6.83
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.683
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 NATURAL FAIR COVER
 "OPEN BRUSH"                B        0.35      0.31      1.000    84
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  1.000
 SUBAREA AREA(ACRES) =    0.35      SUBAREA RUNOFF(CFS) =    1.06
 EFFECTIVE AREA(ACRES) =      0.80   AREA-AVERAGED Fm(INCH/HR) =  0.16
 AREA-AVERAGED Fp(INCH/HR) =  0.32  AREA-AVERAGED Ap =  0.49
 TOTAL AREA(ACRES) =        0.8       PEAK FLOW RATE(CFS) =       2.54

****************************************************************************
 FLOW PROCESS FROM NODE    191.00 TO NODE    192.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   662.42  DOWNSTREAM(FEET) =   662.07
 FLOW LENGTH(FEET) =    70.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  12.0 INCH PIPE IS   9.4 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   3.86
 ESTIMATED PIPE DIAMETER(INCH) =  12.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       2.54
 PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =    7.13
 LONGEST FLOWPATH FROM NODE    190.00 TO NODE    192.00 =     355.00 FEET.
```

```
****************************************************************************
 FLOW PROCESS FROM NODE    192.00 TO NODE    192.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    7.13
 RAINFALL INTENSITY(INCH/HR) =   3.59
 AREA-AVERAGED Fm(INCH/HR) =  0.16
 AREA-AVERAGED Fp(INCH/HR) =  0.32
 AREA-AVERAGED Ap =  0.49
 EFFECTIVE STREAM AREA(ACRES) =       0.80
 TOTAL STREAM AREA(ACRES) =       0.80
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       2.54

 ** CONFLUENCE DATA **
  STREAM       Q      Tc    Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       51.25    9.83    2.961  0.46( 0.07) 0.16      16.6     180.00
     1       51.77   10.31    2.877  0.46( 0.07) 0.16      17.2     170.00
     1       51.89   10.50    2.846  0.46( 0.07) 0.16      17.5     160.00
     1       51.93   11.28    2.726  0.47( 0.08) 0.16      18.3     140.00
     1       51.80   11.59    2.682  0.47( 0.08) 0.16      18.6     150.00
     1       51.56   11.85    2.646  0.47( 0.08) 0.16      18.8     130.00
     1       51.16   12.13    2.610  0.47( 0.08) 0.16      19.0     120.00
     1       48.26   13.86    2.409  0.48( 0.08) 0.16      19.7     110.00
     1       45.71   15.25    2.274  0.48( 0.08) 0.16      20.0     100.00
     2        2.54    7.13    3.588  0.32( 0.16) 0.49       0.8     190.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc    Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       47.83    7.13    3.588  0.44( 0.08) 0.18      12.8     190.00
     2       53.33    9.83    2.961  0.45( 0.08) 0.18      17.4     180.00
     3       53.79   10.31    2.877  0.45( 0.08) 0.18      18.0     170.00
     4       53.87   10.50    2.846  0.45( 0.08) 0.18      18.3     160.00
     5       53.83   11.28    2.726  0.45( 0.08) 0.18      19.1     140.00
     6       53.67   11.59    2.682  0.45( 0.08) 0.17      19.4     150.00
     7       53.40   11.85    2.646  0.45( 0.08) 0.17      19.6     130.00
     8       52.98   12.13    2.610  0.46( 0.08) 0.17      19.8     120.00
     9       49.93   13.86    2.409  0.46( 0.08) 0.17      20.5     110.00
    10       47.27   15.25    2.274  0.47( 0.08) 0.17      20.8     100.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =      53.87    Tc(MIN.) =    10.50
 EFFECTIVE AREA(ACRES) =      18.28   AREA-AVERAGED Fm(INCH/HR) =  0.08
 AREA-AVERAGED Fp(INCH/HR) =  0.45  AREA-AVERAGED Ap =  0.18
 TOTAL AREA(ACRES) =       20.8
 LONGEST FLOWPATH FROM NODE    100.00 TO NODE    192.00 =    2780.00 FEET.
============================================================================
 END OF STUDY SUMMARY:
 TOTAL AREA(ACRES)      =       20.8  TC(MIN.) =     10.50
 EFFECTIVE AREA(ACRES) =     18.28  AREA-AVERAGED Fm(INCH/HR)=  0.08
 AREA-AVERAGED Fp(INCH/HR) =  0.45  AREA-AVERAGED Ap = 0.175
 PEAK FLOW RATE(CFS)   =      53.87

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc    Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1       47.83    7.13    3.588  0.44( 0.08) 0.18      12.8     190.00
     2       53.33    9.83    2.961  0.45( 0.08) 0.18      17.4     180.00
     3       53.79   10.31    2.877  0.45( 0.08) 0.18      18.0     170.00
     4       53.87   10.50    2.846  0.45( 0.08) 0.18      18.3     160.00
     5       53.83   11.28    2.726  0.45( 0.08) 0.18      19.1     140.00
     6       53.67   11.59    2.682  0.45( 0.08) 0.17      19.4     150.00
     7       53.40   11.85    2.646  0.45( 0.08) 0.17      19.6     130.00
     8       52.98   12.13    2.610  0.46( 0.08) 0.17      19.8     120.00
     9       49.93   13.86    2.409  0.46( 0.08) 0.17      20.5     110.00
    10       47.27   15.25    2.274  0.47( 0.08) 0.17      20.8     100.00
============================================================================
============================================================================
 END OF RATIONAL METHOD ANALYSIS
```

```
**************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
         (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)
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                        Analysis prepared by:



 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO                      *
* PROPOSED CONDITION 100-YEAR                                            *
* SOUTHERLY PORTION OF SITE (BUILDINGS 1-3)                              *
 ************************************************************************

  FILE NAME: W:\3654\PR100B.DAT
  TIME/DATE OF STUDY: 22:23 12/12/2020
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0000

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ==================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

**************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   455.00
  ELEVATION DATA: UPSTREAM(FEET) =    669.90  DOWNSTREAM(FEET) =    663.67

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.294
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.278
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        2.60      0.74      0.100    52    8.29
  COMMERCIAL                 C        1.45      0.27      0.100    86    8.29
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.57
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     11.74
  TOTAL AREA(ACRES) =      4.05   PEAK FLOW RATE(CFS) =     11.74

**************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  31
--------------------------------------------------------------------------
```

```
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   659.67  DOWNSTREAM(FEET) =   658.72
 FLOW LENGTH(FEET) =   190.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  17.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.61
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      11.74
 PIPE TRAVEL TIME(MIN.) =   0.56    Tc(MIN.) =    8.86
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     645.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.86
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.151
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  A        0.95      0.74      0.100    52
 COMMERCIAL                  C        0.95      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.51
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.90      SUBAREA RUNOFF(CFS) =    5.30
 EFFECTIVE AREA(ACRES) =      5.95   AREA-AVERAGED Fm(INCH/HR) =  0.06
 AREA-AVERAGED Fp(INCH/HR) =  0.55  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        6.0       PEAK FLOW RATE(CFS) =      16.58

****************************************************************************
 FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   658.72  DOWNSTREAM(FEET) =   657.82
 FLOW LENGTH(FEET) =   180.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  19.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.13
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      16.58
 PIPE TRAVEL TIME(MIN.) =   0.49    Tc(MIN.) =    9.35
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    203.00 =     825.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    203.00 TO NODE    203.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    9.35
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.051
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  A        0.65      0.74      0.100    52
 COMMERCIAL                  C        1.25      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.43
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.90      SUBAREA RUNOFF(CFS) =    5.14
 EFFECTIVE AREA(ACRES) =      7.85   AREA-AVERAGED Fm(INCH/HR) =  0.05
 AREA-AVERAGED Fp(INCH/HR) =  0.52  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        7.9       PEAK FLOW RATE(CFS) =      21.19

****************************************************************************
 FLOW PROCESS FROM NODE    203.00 TO NODE    204.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   657.82  DOWNSTREAM(FEET) =   656.92
 FLOW LENGTH(FEET) =   180.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.60
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      21.19
```

```
 PIPE TRAVEL TIME(MIN.) =   0.45    Tc(MIN.) =    9.80
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    204.00 =    1005.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    204.00 TO NODE    204.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    9.80
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.965
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 A        0.15      0.74      0.100    52
 COMMERCIAL                 C        1.75      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.31
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.90      SUBAREA RUNOFF(CFS) =    5.02
 EFFECTIVE AREA(ACRES) =      9.75   AREA-AVERAGED Fm(INCH/HR) =  0.05
 AREA-AVERAGED Fp(INCH/HR) =  0.48  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        9.8       PEAK FLOW RATE(CFS) =      25.60

****************************************************************************
 FLOW PROCESS FROM NODE    204.00 TO NODE    205.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   656.92  DOWNSTREAM(FEET) =   656.01
 FLOW LENGTH(FEET) =   182.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.99
 ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      25.60
 PIPE TRAVEL TIME(MIN.) =   0.43    Tc(MIN.) =   10.24
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    205.00 =    1187.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   10.24
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.889
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        4.00      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    4.00      SUBAREA RUNOFF(CFS) =   10.30
 EFFECTIVE AREA(ACRES) =     13.75   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       13.8       PEAK FLOW RATE(CFS) =      35.23

****************************************************************************
 FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   10.24
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.889
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 A        0.25      0.74      0.100    52
 COMMERCIAL                 A        0.35      0.74      0.100    52
 COMMERCIAL                 A        0.30      0.74      0.100    52
 COMMERCIAL                 C        0.35      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.61
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.25      SUBAREA RUNOFF(CFS) =    3.18
 EFFECTIVE AREA(ACRES) =     15.00   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.44  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       15.0       PEAK FLOW RATE(CFS) =      38.42

****************************************************************************
```

```
 FLOW PROCESS FROM NODE    205.00 TO NODE    217.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   656.01  DOWNSTREAM(FEET) =   650.54
 FLOW LENGTH(FEET) =  1094.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  33.0 INCH PIPE IS  26.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.58
 ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      38.42
 PIPE TRAVEL TIME(MIN.) =   2.41    Tc(MIN.) =   12.64
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    217.00 =    2281.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    217.00 TO NODE    217.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   12.64
 RAINFALL INTENSITY(INCH/HR) =   2.55
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.44
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =      15.00
 TOTAL STREAM AREA(ACRES) =      15.00
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      38.42

****************************************************************************
 FLOW PROCESS FROM NODE    206.00 TO NODE    207.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   225.00
 ELEVATION DATA: UPSTREAM(FEET) =    667.76  DOWNSTREAM(FEET) =    666.04

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    7.032
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.619
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                  A        0.90      0.74     0.100    52    7.03
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      2.87
 TOTAL AREA(ACRES) =      0.90   PEAK FLOW RATE(CFS) =      2.87

****************************************************************************
 FLOW PROCESS FROM NODE    207.00 TO NODE    208.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   663.04  DOWNSTREAM(FEET) =   662.07
 FLOW LENGTH(FEET) =   194.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  15.0 INCH PIPE IS   8.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.10
 ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       2.87
 PIPE TRAVEL TIME(MIN.) =   0.79    Tc(MIN.) =    7.82
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    208.00 =     419.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    208.00 TO NODE    208.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    7.82
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.396
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  C        0.30      0.27     0.100    86
```

```
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.30      SUBAREA RUNOFF(CFS) =    0.91
 EFFECTIVE AREA(ACRES) =      1.20   AREA-AVERAGED Fm(INCH/HR) =  0.06
 AREA-AVERAGED Fp(INCH/HR) =  0.62  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        1.2       PEAK FLOW RATE(CFS) =       3.60

****************************************************************************
 FLOW PROCESS FROM NODE    208.00 TO NODE    209.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   662.07  DOWNSTREAM(FEET) =   661.24
 FLOW LENGTH(FEET) =   186.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  15.0 INCH PIPE IS  10.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.11
 ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       3.60
 PIPE TRAVEL TIME(MIN.) =   0.75    Tc(MIN.) =    8.57
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    209.00 =     605.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    209.00 TO NODE    209.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.57
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.213
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  C        0.30      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.30      SUBAREA RUNOFF(CFS) =    0.86
 EFFECTIVE AREA(ACRES) =      1.50   AREA-AVERAGED Fm(INCH/HR) =  0.06
 AREA-AVERAGED Fp(INCH/HR) =  0.55  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        1.5       PEAK FLOW RATE(CFS) =       4.26

****************************************************************************
 FLOW PROCESS FROM NODE    209.00 TO NODE    210.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   661.24  DOWNSTREAM(FEET) =   657.40
 FLOW LENGTH(FEET) =   444.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  15.0 INCH PIPE IS   9.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.55
 ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       4.26
 PIPE TRAVEL TIME(MIN.) =   1.33    Tc(MIN.) =    9.91
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    210.00 =    1049.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    210.00 TO NODE    210.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    9.91
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.946
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  C        1.85      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.85      SUBAREA RUNOFF(CFS) =    4.86
 EFFECTIVE AREA(ACRES) =      3.35   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.40  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        3.3       PEAK FLOW RATE(CFS) =       8.76

****************************************************************************
 FLOW PROCESS FROM NODE    210.00 TO NODE    211.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   657.40  DOWNSTREAM(FEET) =   656.70
 FLOW LENGTH(FEET) =   140.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  13.4 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.39
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       8.76
 PIPE TRAVEL TIME(MIN.) =   0.43    Tc(MIN.) =   10.34
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    211.00 =    1189.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    211.00 TO NODE    211.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   10.34
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.872
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        1.70      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.70      SUBAREA RUNOFF(CFS) =    4.35
 EFFECTIVE AREA(ACRES) =      5.05   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.36  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        5.1       PEAK FLOW RATE(CFS) =      12.89

****************************************************************************
 FLOW PROCESS FROM NODE    211.00 TO NODE    212.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   656.70  DOWNSTREAM(FEET) =   656.00
 FLOW LENGTH(FEET) =   140.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  15.7 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.92
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      12.89
 PIPE TRAVEL TIME(MIN.) =   0.39    Tc(MIN.) =   10.73
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    212.00 =    1329.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    212.00 TO NODE    212.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   10.73
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.808
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        1.30      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.30      SUBAREA RUNOFF(CFS) =    3.25
 EFFECTIVE AREA(ACRES) =      6.35   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.34  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        6.4       PEAK FLOW RATE(CFS) =      15.85

****************************************************************************
 FLOW PROCESS FROM NODE    212.00 TO NODE    213.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   656.00  DOWNSTREAM(FEET) =   655.30
 FLOW LENGTH(FEET) =   140.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  18.5 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.11
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      15.85
 PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =   11.12
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    213.00 =    1469.00 FEET.
```

```
****************************************************************************
 FLOW PROCESS FROM NODE    213.00 TO NODE    213.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   11.12
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.750
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        1.70      0.27     0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.70      SUBAREA RUNOFF(CFS) =    4.17
 EFFECTIVE AREA(ACRES) =      8.05   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.32  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        8.1       PEAK FLOW RATE(CFS) =      19.69

****************************************************************************
 FLOW PROCESS FROM NODE    213.00 TO NODE    214.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   655.30  DOWNSTREAM(FEET) =   654.60
 FLOW LENGTH(FEET) =   140.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  19.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.53
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      19.69
 PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =   11.47
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    214.00 =    1609.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    214.00 TO NODE    214.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   11.47
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.698
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        1.30      0.27     0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.30      SUBAREA RUNOFF(CFS) =    3.13
 EFFECTIVE AREA(ACRES) =      9.35   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.32  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        9.4       PEAK FLOW RATE(CFS) =      22.44

****************************************************************************
 FLOW PROCESS FROM NODE    214.00 TO NODE    215.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   654.60  DOWNSTREAM(FEET) =   653.90
 FLOW LENGTH(FEET) =   140.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.4 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.63
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      22.44
 PIPE TRAVEL TIME(MIN.) =   0.35    Tc(MIN.) =   11.83
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    215.00 =    1749.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    215.00 TO NODE    215.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   11.83
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.650
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        1.70      0.27     0.100    86
```

```
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.70      SUBAREA RUNOFF(CFS) =    4.01
 EFFECTIVE AREA(ACRES) =     11.05   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.31  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       11.1       PEAK FLOW RATE(CFS) =      26.04

****************************************************************************
 FLOW PROCESS FROM NODE    215.00 TO NODE    216.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   653.90  DOWNSTREAM(FEET) =   653.20
 FLOW LENGTH(FEET) =   140.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.2 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.01
 ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      26.04
 PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =   12.16
 LONGEST FLOWPATH FROM NODE    206.00 TO NODE    216.00 =    1889.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    216.00 TO NODE    216.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   12.16
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.606
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.40      0.42      0.100    76
 COMMERCIAL                 C        1.20      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.35
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    2.60      SUBAREA RUNOFF(CFS) =    6.02
 EFFECTIVE AREA(ACRES) =     13.65   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.32  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       13.6       PEAK FLOW RATE(CFS) =      31.62

****************************************************************************
 FLOW PROCESS FROM NODE    216.00 TO NODE    216.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   12.16
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.606
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        0.30      0.42      0.100    76
 COMMERCIAL                 B        0.35      0.42      0.100    76
 COMMERCIAL                 C        0.60      0.27      0.100    86
 COMMERCIAL                 C        0.20      0.27      0.100    86
 COMMERCIAL                 C        0.20      0.27      0.100    86
 COMMERCIAL                 C        0.25      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.32
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.90      SUBAREA RUNOFF(CFS) =    4.40
 EFFECTIVE AREA(ACRES) =     15.55   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.32  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       15.5       PEAK FLOW RATE(CFS) =      36.02

****************************************************************************
 FLOW PROCESS FROM NODE    216.00 TO NODE    217.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   653.20  DOWNSTREAM(FEET) =   651.73
 FLOW LENGTH(FEET) =   294.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  33.0 INCH PIPE IS  24.7 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.54
 ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      36.02
 PIPE TRAVEL TIME(MIN.) =   0.65    Tc(MIN.) =   12.81
```

LONGEST FLOWPATH FROM NODE 206.00 TO NODE 217.00 = 2183.00 FEET.

****
FLOW PROCESS FROM NODE 217.00 TO NODE 217.00 IS CODE = 1

>>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
>>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==========

TOTAL NUMBER OF STREAMS = 2
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:
TIME OF CONCENTRATION(MIN.) = 12.81
RAINFALL INTENSITY(INCH/HR) = 2.53
AREA-AVERAGED Fm(INCH/HR) = 0.03
AREA-AVERAGED Fp(INCH/HR) = 0.32
AREA-AVERAGED Ap = 0.10
EFFECTIVE STREAM AREA(ACRES) = 15.55
TOTAL STREAM AREA(ACRES) = 15.55
PEAK FLOW RATE(CFS) AT CONFLUENCE = 36.02

** CONFLUENCE DATA **

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	38.42	12.64	2.546	0.44(0.04)	0.10	15.0	200.00
2	36.02	12.81	2.526	0.32(0.03)	0.10	15.5	206.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
CONFLUENCE FORMULA USED FOR 2 STREAMS.

** PEAK FLOW RATE TABLE **

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	74.25	12.64	2.546	0.38(0.04)	0.10	30.3	200.00
2	74.13	12.81	2.526	0.38(0.04)	0.10	30.5	206.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
PEAK FLOW RATE(CFS) = 74.25 Tc(MIN.) = 12.64
EFFECTIVE AREA(ACRES) = 30.35 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.38 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 30.5
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 217.00 = 2281.00 FEET.

****
FLOW PROCESS FROM NODE 219.00 TO NODE 242.00 IS CODE = 31

>>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==========
ELEVATION DATA: UPSTREAM(FEET) = 650.54 DOWNSTREAM(FEET) = 649.79
FLOW LENGTH(FEET) = 150.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 42.0 INCH PIPE IS 34.0 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.91
ESTIMATED PIPE DIAMETER(INCH) = 42.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 74.25
PIPE TRAVEL TIME(MIN.) = 0.28 Tc(MIN.) = 12.92
LONGEST FLOWPATH FROM NODE 200.00 TO NODE 242.00 = 2431.00 FEET.

****
FLOW PROCESS FROM NODE 242.00 TO NODE 242.00 IS CODE = 10

>>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
==========

****
FLOW PROCESS FROM NODE 220.00 TO NODE 221.00 IS CODE = 21

>>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
>>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========
INITIAL SUBAREA FLOW-LENGTH(FEET) = 455.00
ELEVATION DATA: UPSTREAM(FEET) = 667.05 DOWNSTREAM(FEET) = 658.73

Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) = 7.828
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 3.394
SUBAREA Tc AND LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN	Tc (MIN.)

```
  COMMERCIAL                  C        1.95      0.27     0.100    86    7.83
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      5.91
  TOTAL AREA(ACRES) =      1.95   PEAK FLOW RATE(CFS) =      5.91

****************************************************************************
  FLOW PROCESS FROM NODE    221.00 TO NODE    222.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   655.73  DOWNSTREAM(FEET) =   654.82
  FLOW LENGTH(FEET) =   182.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  11.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.88
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.91
  PIPE TRAVEL TIME(MIN.) =   0.62    Tc(MIN.) =    8.45
  LONGEST FLOWPATH FROM NODE    220.00 TO NODE    222.00 =     637.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    222.00 TO NODE    222.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    8.45
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.242
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                  C        0.50      0.27     0.100    86
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.50      SUBAREA RUNOFF(CFS) =    1.45
  EFFECTIVE AREA(ACRES) =      2.45   AREA-AVERAGED Fm(INCH/HR) =  0.03
  AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        2.5       PEAK FLOW RATE(CFS) =       7.09

****************************************************************************
  FLOW PROCESS FROM NODE    222.00 TO NODE    223.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   654.82  DOWNSTREAM(FEET) =   654.25
  FLOW LENGTH(FEET) =   114.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  13.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.03
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.09
  PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =    8.83
  LONGEST FLOWPATH FROM NODE    220.00 TO NODE    223.00 =     751.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    223.00 TO NODE    223.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    8.83
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.158
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                  C        0.15      0.27     0.100    86
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA AREA(ACRES) =    0.15      SUBAREA RUNOFF(CFS) =    0.42
  EFFECTIVE AREA(ACRES) =      2.60   AREA-AVERAGED Fm(INCH/HR) =  0.03
  AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =        2.6       PEAK FLOW RATE(CFS) =       7.33

****************************************************************************
  FLOW PROCESS FROM NODE    223.00 TO NODE    224.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

```
 ELEVATION DATA: UPSTREAM(FEET) =   654.25  DOWNSTREAM(FEET) =   653.60
 FLOW LENGTH(FEET) =   130.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  13.8 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.04
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       7.33
 PIPE TRAVEL TIME(MIN.) =   0.43    Tc(MIN.) =    9.26
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    224.00 =     881.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    224.00 TO NODE    224.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    9.26
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.069
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE           GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                C        0.45      0.27     0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.45      SUBAREA RUNOFF(CFS) =    1.23
 EFFECTIVE AREA(ACRES) =      3.05   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        3.1       PEAK FLOW RATE(CFS) =       8.35

****************************************************************************
 FLOW PROCESS FROM NODE    224.00 TO NODE    225.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   653.60  DOWNSTREAM(FEET) =   652.88
 FLOW LENGTH(FEET) =   144.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  13.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.33
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       8.35
 PIPE TRAVEL TIME(MIN.) =   0.45    Tc(MIN.) =    9.71
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    225.00 =    1025.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    225.00 TO NODE    225.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    9.71
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.983
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE           GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                C        0.55      0.27     0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.55      SUBAREA RUNOFF(CFS) =    1.46
 EFFECTIVE AREA(ACRES) =      3.60   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        3.6       PEAK FLOW RATE(CFS) =       9.58

****************************************************************************
 FLOW PROCESS FROM NODE    225.00 TO NODE    226.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   652.88  DOWNSTREAM(FEET) =   652.16
 FLOW LENGTH(FEET) =   144.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  14.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.48
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       9.58
 PIPE TRAVEL TIME(MIN.) =   0.44    Tc(MIN.) =   10.15
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    226.00 =    1169.00 FEET.

****************************************************************************
```

```
 FLOW PROCESS FROM NODE    226.00 TO NODE    226.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   10.15
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.905
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        0.45      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.45      SUBAREA RUNOFF(CFS) =    1.17
 EFFECTIVE AREA(ACRES) =      4.05   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        4.1       PEAK FLOW RATE(CFS) =      10.49

****************************************************************************
 FLOW PROCESS FROM NODE    226.00 TO NODE    227.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   652.16  DOWNSTREAM(FEET) =   651.44
 FLOW LENGTH(FEET) =   144.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  15.4 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.56
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      10.49
 PIPE TRAVEL TIME(MIN.) =   0.43    Tc(MIN.) =   10.58
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    227.00 =    1313.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    227.00 TO NODE    227.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   10.58
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.833
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        0.55      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.55      SUBAREA RUNOFF(CFS) =    1.39
 EFFECTIVE AREA(ACRES) =      4.60   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        4.6       PEAK FLOW RATE(CFS) =      11.62

****************************************************************************
 FLOW PROCESS FROM NODE    227.00 TO NODE    228.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   651.44  DOWNSTREAM(FEET) =   650.72
 FLOW LENGTH(FEET) =   144.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  16.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.61
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      11.62
 PIPE TRAVEL TIME(MIN.) =   0.43    Tc(MIN.) =   11.01
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    228.00 =    1457.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    228.00 TO NODE    228.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   11.01
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.767
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        0.55      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
```

```
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.55      SUBAREA RUNOFF(CFS) =    1.36
 EFFECTIVE AREA(ACRES) =      5.15   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        5.2       PEAK FLOW RATE(CFS) =      12.70

****************************************************************************
 FLOW PROCESS FROM NODE    228.00 TO NODE    229.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   650.72  DOWNSTREAM(FEET) =   650.00
 FLOW LENGTH(FEET) =   144.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  15.5 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.91
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      12.70
 PIPE TRAVEL TIME(MIN.) =   0.41    Tc(MIN.) =   11.41
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    229.00 =    1601.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    229.00 TO NODE    229.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   11.41
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.707
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        0.45      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.45      SUBAREA RUNOFF(CFS) =    1.08
 EFFECTIVE AREA(ACRES) =      5.60   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.28  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        5.6       PEAK FLOW RATE(CFS) =      13.50

****************************************************************************
 FLOW PROCESS FROM NODE    229.00 TO NODE    230.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   650.00  DOWNSTREAM(FEET) =   649.28
 FLOW LENGTH(FEET) =   144.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  16.2 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.97
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      13.50
 PIPE TRAVEL TIME(MIN.) =   0.40    Tc(MIN.) =   11.81
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    230.00 =    1745.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    230.00 TO NODE    230.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   11.81
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.651
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        0.55      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.55      SUBAREA RUNOFF(CFS) =    1.29
 EFFECTIVE AREA(ACRES) =      6.15   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        6.2       PEAK FLOW RATE(CFS) =      14.51

****************************************************************************
 FLOW PROCESS FROM NODE    230.00 TO NODE    231.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

```
 ELEVATION DATA: UPSTREAM(FEET) =   649.28  DOWNSTREAM(FEET) =   648.56
 FLOW LENGTH(FEET) =   144.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  17.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.05
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      14.51
 PIPE TRAVEL TIME(MIN.) =   0.40    Tc(MIN.) =   12.21
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    231.00 =    1889.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    231.00 TO NODE    231.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   12.21
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.599
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        0.80      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.80      SUBAREA RUNOFF(CFS) =    1.84
 EFFECTIVE AREA(ACRES) =      6.95   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.31  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        7.0       PEAK FLOW RATE(CFS) =      16.06

****************************************************************************
 FLOW PROCESS FROM NODE    231.00 TO NODE    232.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   648.56  DOWNSTREAM(FEET) =   646.84
 FLOW LENGTH(FEET) =   354.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  18.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.04
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      16.06
 PIPE TRAVEL TIME(MIN.) =   0.98    Tc(MIN.) =   13.19
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    232.00 =    2243.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    232.00 TO NODE    232.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   13.19
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.482
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        0.70      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.70      SUBAREA RUNOFF(CFS) =    1.54
 EFFECTIVE AREA(ACRES) =      7.65   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.32  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        7.7       PEAK FLOW RATE(CFS) =      16.87

****************************************************************************
 FLOW PROCESS FROM NODE    232.00 TO NODE    233.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   648.84  DOWNSTREAM(FEET) =   647.81
 FLOW LENGTH(FEET) =   206.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  19.6 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.13
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      16.87
 PIPE TRAVEL TIME(MIN.) =   0.56    Tc(MIN.) =   13.75
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    233.00 =    2449.00 FEET.

****************************************************************************
```

```
 FLOW PROCESS FROM NODE    233.00 TO NODE    233.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   13.75
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.421
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        0.65      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.65      SUBAREA RUNOFF(CFS) =    1.39
 EFFECTIVE AREA(ACRES) =      8.30   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.33  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        8.3       PEAK FLOW RATE(CFS) =      17.84

****************************************************************************
 FLOW PROCESS FROM NODE    233.00 TO NODE    241.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   647.81  DOWNSTREAM(FEET) =   645.70
 FLOW LENGTH(FEET) =   422.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  17.8 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.42
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      17.84
 PIPE TRAVEL TIME(MIN.) =   1.10    Tc(MIN.) =   14.84
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    241.00 =    2871.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    241.00 TO NODE    241.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   14.84
 RAINFALL INTENSITY(INCH/HR) =   2.31
 AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.33
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       8.30
 TOTAL STREAM AREA(ACRES) =       8.30
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      17.84

****************************************************************************
 FLOW PROCESS FROM NODE    235.00 TO NODE    236.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   315.00
 ELEVATION DATA: UPSTREAM(FEET) =    662.75  DOWNSTREAM(FEET) =    656.69

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.689
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.730
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                 C        3.20      0.27     0.100    86    6.69
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =     10.66
 TOTAL AREA(ACRES) =      3.20   PEAK FLOW RATE(CFS) =     10.66

****************************************************************************
 FLOW PROCESS FROM NODE    236.00 TO NODE    237.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   652.69  DOWNSTREAM(FEET) =   651.89
 FLOW LENGTH(FEET) =   160.00   MANNING'S N =  0.012
```

```
 DEPTH OF FLOW IN  21.0 INCH PIPE IS  15.6 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   5.57
 ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      10.66
 PIPE TRAVEL TIME(MIN.) =   0.48    Tc(MIN.) =    7.17
 LONGEST FLOWPATH FROM NODE    235.00 TO NODE    237.00 =     475.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    237.00 TO NODE    237.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    7.17
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.578
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  C        1.60      0.27     0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.60      SUBAREA RUNOFF(CFS) =    5.11
 EFFECTIVE AREA(ACRES) =      4.80   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        4.8       PEAK FLOW RATE(CFS) =      15.34

****************************************************************************
 FLOW PROCESS FROM NODE    237.00 TO NODE    238.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   651.89  DOWNSTREAM(FEET) =   651.09
 FLOW LENGTH(FEET) =   160.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  17.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.09
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      15.34
 PIPE TRAVEL TIME(MIN.) =   0.44    Tc(MIN.) =    7.61
 LONGEST FLOWPATH FROM NODE    235.00 TO NODE    238.00 =     635.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    238.00 TO NODE    238.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    7.61
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.453
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  C        1.60      0.27     0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.60      SUBAREA RUNOFF(CFS) =    4.93
 EFFECTIVE AREA(ACRES) =      6.40   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        6.4       PEAK FLOW RATE(CFS) =      19.73

****************************************************************************
 FLOW PROCESS FROM NODE    238.00 TO NODE    239.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   651.09  DOWNSTREAM(FEET) =   650.29
 FLOW LENGTH(FEET) =   160.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  19.2 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.54
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      19.73
 PIPE TRAVEL TIME(MIN.) =   0.41    Tc(MIN.) =    8.01
 LONGEST FLOWPATH FROM NODE    235.00 TO NODE    239.00 =     795.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    239.00 TO NODE    239.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
```

```
 MAINLINE Tc(MIN.) =    8.01
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.347
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 C        1.60      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.27
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.60      SUBAREA RUNOFF(CFS) =    4.78
 EFFECTIVE AREA(ACRES) =      8.00   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.27  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        8.0       PEAK FLOW RATE(CFS) =      23.90

****************************************************************************
 FLOW PROCESS FROM NODE    239.00 TO NODE    240.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   650.29  DOWNSTREAM(FEET) =   649.49
 FLOW LENGTH(FEET) =   160.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  30.0 INCH PIPE IS  19.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.90
 ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      23.90
 PIPE TRAVEL TIME(MIN.) =   0.39    Tc(MIN.) =    8.40
 LONGEST FLOWPATH FROM NODE    235.00 TO NODE    240.00 =     955.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    240.00 TO NODE    240.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.40
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.253
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.30      0.42      0.100    76
 COMMERCIAL                 C        0.30      0.27      0.100    86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.39
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.60      SUBAREA RUNOFF(CFS) =    4.63
 EFFECTIVE AREA(ACRES) =      9.60   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.29  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        9.6       PEAK FLOW RATE(CFS) =      27.86

****************************************************************************
 FLOW PROCESS FROM NODE    240.00 TO NODE    241.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   649.49  DOWNSTREAM(FEET) =   648.69
 FLOW LENGTH(FEET) =   160.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  30.0 INCH PIPE IS  22.4 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.07
 ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      27.86
 PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =    8.78
 LONGEST FLOWPATH FROM NODE    235.00 TO NODE    241.00 =    1115.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    241.00 TO NODE    241.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.78
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.169
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        3.55      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    3.55      SUBAREA RUNOFF(CFS) =    9.99
```

```
 EFFECTIVE AREA(ACRES) =     13.15   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.33  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       13.2       PEAK FLOW RATE(CFS) =      37.11

****************************************************************************
 FLOW PROCESS FROM NODE    241.00 TO NODE    241.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =    8.78
 RAINFALL INTENSITY(INCH/HR) =   3.17
 AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.33
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =      13.15
 TOTAL STREAM AREA(ACRES) =      13.15
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      37.11

 ** CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       17.84   14.84    2.312  0.33( 0.03) 0.10       8.3     220.00
     2       37.11    8.78    3.169  0.33( 0.03) 0.10      13.2     235.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       51.63    8.78    3.169  0.33( 0.03) 0.10      18.1     235.00
     2       44.81   14.84    2.312  0.33( 0.03) 0.10      21.5     220.00

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =      51.63    Tc(MIN.) =     8.78
 EFFECTIVE AREA(ACRES) =      18.06   AREA-AVERAGED Fm(INCH/HR) =  0.03
 AREA-AVERAGED Fp(INCH/HR) =  0.33  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       21.5
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    241.00 =    2871.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    241.00 TO NODE    242.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   648.69  DOWNSTREAM(FEET) =   647.29
 FLOW LENGTH(FEET) =   280.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  39.0 INCH PIPE IS  27.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.33
 ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      51.63
 PIPE TRAVEL TIME(MIN.) =   0.56    Tc(MIN.) =    9.34
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    242.00 =    3151.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    242.00 TO NODE    242.00 IS CODE =  11
----------------------------------------------------------------------------
 >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

 ** MAIN STREAM CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       51.63    9.34    3.053  0.33( 0.03) 0.10      18.1     235.00
     2       44.81   15.43    2.259  0.33( 0.03) 0.10      21.5     220.00
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    242.00 =    3151.00 FEET.

 ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1       74.25   12.92    2.512  0.38( 0.04) 0.10      30.3     200.00
     2       74.13   13.09    2.493  0.38( 0.04) 0.10      30.5     206.00
 LONGEST FLOWPATH FROM NODE    200.00 TO NODE    242.00 =    2431.00 FEET.
```

```
 ** PEAK FLOW RATE TABLE **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1      117.01    9.34    3.053  0.36( 0.04) 0.10      40.0     235.00
     2      121.87   12.92    2.512  0.36( 0.04) 0.10      50.4     200.00
     3      121.56   13.09    2.493  0.36( 0.04) 0.10      50.7     206.00
     4      111.88   15.43    2.259  0.36( 0.04) 0.10      52.0     220.00
   TOTAL AREA(ACRES) =        52.0

 COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
 PEAK FLOW RATE(CFS) =      121.87  Tc(MIN.) =   12.923
 EFFECTIVE AREA(ACRES) =     50.40  AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.36  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       52.0
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    242.00 =    3151.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    242.00 TO NODE    242.00 IS CODE =  12
----------------------------------------------------------------------------
 >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
 FLOW PROCESS FROM NODE    242.00 TO NODE    243.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   647.31  DOWNSTREAM(FEET) =   642.64
 FLOW LENGTH(FEET) =   934.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  51.0 INCH PIPE IS  40.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  10.13
 ESTIMATED PIPE DIAMETER(INCH) =  51.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =     121.87
 PIPE TRAVEL TIME(MIN.) =   1.54    Tc(MIN.) =   14.46
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    243.00 =    4085.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    243.00 TO NODE    243.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   14.46
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.349
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        0.30      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.30      SUBAREA RUNOFF(CFS) =    0.62
 EFFECTIVE AREA(ACRES) =     50.70   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.36  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       52.3       PEAK FLOW RATE(CFS) =     121.87
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
 FLOW PROCESS FROM NODE    243.00 TO NODE    247.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   642.64  DOWNSTREAM(FEET) =   642.26
 FLOW LENGTH(FEET) =    76.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  51.0 INCH PIPE IS  40.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  10.13
 ESTIMATED PIPE DIAMETER(INCH) =  51.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =     121.87
 PIPE TRAVEL TIME(MIN.) =   0.13    Tc(MIN.) =   14.58
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    247.00 =    4161.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    247.00 TO NODE    247.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
```

```
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   14.58
 RAINFALL INTENSITY(INCH/HR) =   2.34
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.36
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =      50.70
 TOTAL STREAM AREA(ACRES) =      52.30
 PEAK FLOW RATE(CFS) AT CONFLUENCE =     121.87

****************************************************************************
 FLOW PROCESS FROM NODE    245.00 TO NODE    246.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   575.00
 ELEVATION DATA: UPSTREAM(FEET) =    660.40  DOWNSTREAM(FEET) =    655.10

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.859
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.955
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                  B        2.20      0.42      0.100    76    9.86
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =      5.77
 TOTAL AREA(ACRES) =      2.20   PEAK FLOW RATE(CFS) =      5.77

****************************************************************************
 FLOW PROCESS FROM NODE    246.00 TO NODE    247.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   651.60  DOWNSTREAM(FEET) =   650.43
 FLOW LENGTH(FEET) =   234.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  18.0 INCH PIPE IS  11.5 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   4.85
 ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =       5.77
 PIPE TRAVEL TIME(MIN.) =   0.80    Tc(MIN.) =   10.66
 LONGEST FLOWPATH FROM NODE    245.00 TO NODE    247.00 =     809.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    247.00 TO NODE    247.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =   10.66
 RAINFALL INTENSITY(INCH/HR) =   2.82
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =       2.20
 TOTAL STREAM AREA(ACRES) =       2.20
 PEAK FLOW RATE(CFS) AT CONFLUENCE =       5.77

 ** CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1      117.01   11.00    2.767  0.36( 0.04) 0.10      40.3     235.00
     1      121.87   14.58    2.336  0.36( 0.04) 0.10      50.7     200.00
     1      121.56   14.75    2.321  0.36( 0.04) 0.10      51.0     206.00
     1      111.88   17.10    2.123  0.36( 0.04) 0.10      52.3     220.00
     2        5.77   10.66    2.820  0.42( 0.04) 0.10       2.2     245.00

 RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
 CONFLUENCE FORMULA USED FOR  2 STREAMS.

 ** PEAK FLOW RATE TABLE **
```

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	121.33	10.66	2.820	0.36(0.04)	0.10	41.2	245.00
2	122.67	11.00	2.767	0.36(0.04)	0.10	42.5	235.00
3	126.63	14.58	2.336	0.36(0.04)	0.10	52.9	200.00
4	126.29	14.75	2.321	0.36(0.04)	0.10	53.2	206.00
5	116.20	17.10	2.123	0.36(0.04)	0.10	54.5	220.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
PEAK FLOW RATE(CFS) = 126.63 Tc(MIN.) = 14.58
EFFECTIVE AREA(ACRES) = 52.90 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.36 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 54.5
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 247.00 = 4161.00 FEET.

****
FLOW PROCESS FROM NODE 247.00 TO NODE 247.00 IS CODE = 81

>>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==========
MAINLINE Tc(MIN.) = 14.58
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.336
SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
COMMERCIAL	B	0.60	0.42	0.100	76

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 0.60 SUBAREA RUNOFF(CFS) = 1.24
EFFECTIVE AREA(ACRES) = 53.50 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.36 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 55.1 PEAK FLOW RATE(CFS) = 126.63
NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****
FLOW PROCESS FROM NODE 247.00 TO NODE 248.00 IS CODE = 31

>>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==========
ELEVATION DATA: UPSTREAM(FEET) = 642.26 DOWNSTREAM(FEET) = 641.82
FLOW LENGTH(FEET) = 88.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 54.0 INCH PIPE IS 38.7 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 10.39
ESTIMATED PIPE DIAMETER(INCH) = 54.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 126.63
PIPE TRAVEL TIME(MIN.) = 0.14 Tc(MIN.) = 14.73
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 248.00 = 4249.00 FEET.

****
FLOW PROCESS FROM NODE 248.00 TO NODE 248.00 IS CODE = 81

>>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==========
MAINLINE Tc(MIN.) = 14.73
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.323
SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
COMMERCIAL	B	1.25	0.42	0.100	76

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 1.25 SUBAREA RUNOFF(CFS) = 2.57
EFFECTIVE AREA(ACRES) = 54.75 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.36 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 56.3 PEAK FLOW RATE(CFS) = 126.63
NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****
FLOW PROCESS FROM NODE 248.00 TO NODE 262.00 IS CODE = 31

>>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==========
ELEVATION DATA: UPSTREAM(FEET) = 641.82 DOWNSTREAM(FEET) = 641.71
FLOW LENGTH(FEET) = 22.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 54.0 INCH PIPE IS 38.7 INCHES

```
 PIPE-FLOW VELOCITY(FEET/SEC.) =  10.39
 ESTIMATED PIPE DIAMETER(INCH) =  54.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =     126.63
 PIPE TRAVEL TIME(MIN.) =   0.04    Tc(MIN.) =   14.76
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    262.00 =    4271.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    262.00 TO NODE    262.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   14.76
 RAINFALL INTENSITY(INCH/HR) =   2.32
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.36
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =      54.75
 TOTAL STREAM AREA(ACRES) =      56.35
 PEAK FLOW RATE(CFS) AT CONFLUENCE =     126.63

****************************************************************************
 FLOW PROCESS FROM NODE    250.00 TO NODE    251.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   350.00
 ELEVATION DATA: UPSTREAM(FEET) =    667.32  DOWNSTREAM(FEET) =    658.19

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.565
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.772
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS   Tc
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                  B        3.75      0.42      0.100    76    6.56
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =     12.59
 TOTAL AREA(ACRES) =      3.75   PEAK FLOW RATE(CFS) =     12.59

****************************************************************************
 FLOW PROCESS FROM NODE    251.00 TO NODE    251.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    6.56
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.772
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.55      0.42      0.100    76
 COMMERCIAL                  B        0.45      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    2.00      SUBAREA RUNOFF(CFS) =    6.71
 EFFECTIVE AREA(ACRES) =      5.75   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        5.8       PEAK FLOW RATE(CFS) =      19.30

****************************************************************************
 FLOW PROCESS FROM NODE    251.00 TO NODE    252.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   654.19  DOWNSTREAM(FEET) =   653.50
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  18.8 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.51
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      19.30
 PIPE TRAVEL TIME(MIN.) =   0.35    Tc(MIN.) =    6.92
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    252.00 =     488.00 FEET.
```

```
****************************************************************************
 FLOW PROCESS FROM NODE    252.00 TO NODE    252.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    6.92
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.655
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.50      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.50      SUBAREA RUNOFF(CFS) =    4.88
 EFFECTIVE AREA(ACRES) =      7.25   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        7.2       PEAK FLOW RATE(CFS) =      23.57

****************************************************************************
 FLOW PROCESS FROM NODE    252.00 TO NODE    253.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   653.50  DOWNSTREAM(FEET) =   652.81
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  30.0 INCH PIPE IS  19.7 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.89
 ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      23.57
 PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =    7.25
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    253.00 =     626.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    253.00 TO NODE    253.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    7.25
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.553
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.95      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    6.16
 EFFECTIVE AREA(ACRES) =      9.20   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        9.2       PEAK FLOW RATE(CFS) =      29.07

****************************************************************************
 FLOW PROCESS FROM NODE    253.00 TO NODE    254.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   652.81  DOWNSTREAM(FEET) =   652.12
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  30.0 INCH PIPE IS  23.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.10
 ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      29.07
 PIPE TRAVEL TIME(MIN.) =   0.32    Tc(MIN.) =    7.58
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    254.00 =     764.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    254.00 TO NODE    254.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    7.58
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.461
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.50      0.42     0.100    76
```

```
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.50      SUBAREA RUNOFF(CFS) =    4.62
 EFFECTIVE AREA(ACRES) =     10.70   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       10.7       PEAK FLOW RATE(CFS) =      32.92

****************************************************************************
 FLOW PROCESS FROM NODE    254.00 TO NODE    255.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   652.12  DOWNSTREAM(FEET) =   651.43
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  33.0 INCH PIPE IS  23.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.44
 ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      32.92
 PIPE TRAVEL TIME(MIN.) =   0.31    Tc(MIN.) =    7.88
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    255.00 =     902.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    255.00 TO NODE    255.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    7.88
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.379
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B         1.95      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    5.86
 EFFECTIVE AREA(ACRES) =     12.65   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       12.6       PEAK FLOW RATE(CFS) =      37.99

****************************************************************************
 FLOW PROCESS FROM NODE    255.00 TO NODE    256.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   651.43  DOWNSTREAM(FEET) =   650.74
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  33.0 INCH PIPE IS  26.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.57
 ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      37.99
 PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =    8.19
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    256.00 =    1040.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    256.00 TO NODE    256.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.19
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.303
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp          Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B         1.45      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.45      SUBAREA RUNOFF(CFS) =    4.26
 EFFECTIVE AREA(ACRES) =     14.10   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       14.1       PEAK FLOW RATE(CFS) =      41.38

****************************************************************************
 FLOW PROCESS FROM NODE    256.00 TO NODE    257.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   650.74  DOWNSTREAM(FEET) =   650.05
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  36.0 INCH PIPE IS  25.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.88
 ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      41.38
 PIPE TRAVEL TIME(MIN.) =   0.29    Tc(MIN.) =    8.48
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    257.00 =    1178.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    257.00 TO NODE    257.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.48
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.235
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.90      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.90      SUBAREA RUNOFF(CFS) =    5.46
 EFFECTIVE AREA(ACRES) =     16.00   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       16.0       PEAK FLOW RATE(CFS) =      45.97

****************************************************************************
 FLOW PROCESS FROM NODE    257.00 TO NODE    258.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   650.05  DOWNSTREAM(FEET) =   649.36
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  36.0 INCH PIPE IS  27.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.00
 ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      45.97
 PIPE TRAVEL TIME(MIN.) =   0.29    Tc(MIN.) =    8.77
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    258.00 =    1316.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    258.00 TO NODE    258.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.77
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.171
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.45      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.45      SUBAREA RUNOFF(CFS) =    4.08
 EFFECTIVE AREA(ACRES) =     17.45   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       17.4       PEAK FLOW RATE(CFS) =      49.13

****************************************************************************
 FLOW PROCESS FROM NODE    258.00 TO NODE    259.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   649.36  DOWNSTREAM(FEET) =   648.67
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  36.0 INCH PIPE IS  29.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.04
 ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      49.13
 PIPE TRAVEL TIME(MIN.) =   0.29    Tc(MIN.) =    9.05
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    259.00 =    1454.00 FEET.
```

```
 FLOW PROCESS FROM NODE    259.00 TO NODE    259.00 IS CODE =  81
----------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
======================================================================
 MAINLINE Tc(MIN.) =    9.05
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.110
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.90      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.90      SUBAREA RUNOFF(CFS) =    5.25
 EFFECTIVE AREA(ACRES) =     19.35   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       19.3       PEAK FLOW RATE(CFS) =      53.43

**********************************************************************
 FLOW PROCESS FROM NODE    259.00 TO NODE    260.00 IS CODE =  31
----------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
======================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   648.67  DOWNSTREAM(FEET) =   647.98
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.37
 ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      53.43
 PIPE TRAVEL TIME(MIN.) =   0.27    Tc(MIN.) =    9.33
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    260.00 =    1592.00 FEET.

**********************************************************************
 FLOW PROCESS FROM NODE    260.00 TO NODE    260.00 IS CODE =  81
----------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
======================================================================
 MAINLINE Tc(MIN.) =    9.33
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.055
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.45      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.45      SUBAREA RUNOFF(CFS) =    3.93
 EFFECTIVE AREA(ACRES) =     20.80   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       20.8       PEAK FLOW RATE(CFS) =      56.40

**********************************************************************
 FLOW PROCESS FROM NODE    260.00 TO NODE    261.00 IS CODE =  31
----------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
======================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   647.98  DOWNSTREAM(FEET) =   647.29
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  39.0 INCH PIPE IS  29.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.43
 ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      56.40
 PIPE TRAVEL TIME(MIN.) =   0.27    Tc(MIN.) =    9.60
 LONGEST FLOWPATH FROM NODE    250.00 TO NODE    261.00 =    1730.00 FEET.

**********************************************************************
 FLOW PROCESS FROM NODE    261.00 TO NODE    261.00 IS CODE =  81
----------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
======================================================================
 MAINLINE Tc(MIN.) =    9.60
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.003
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        2.60      0.42     0.100    76
```

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 2.60 SUBAREA RUNOFF(CFS) = 6.93
EFFECTIVE AREA(ACRES) = 23.40 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.42 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 23.4 PEAK FLOW RATE(CFS) = 62.34

****
FLOW PROCESS FROM NODE 261.00 TO NODE 262.00 IS CODE = 31

>>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==========
ELEVATION DATA: UPSTREAM(FEET) = 647.29 DOWNSTREAM(FEET) = 645.79
FLOW LENGTH(FEET) = 300.00 MANNING'S N = 0.012
DEPTH OF FLOW IN 42.0 INCH PIPE IS 29.2 INCHES
PIPE-FLOW VELOCITY(FEET/SEC.) = 8.73
ESTIMATED PIPE DIAMETER(INCH) = 42.00 NUMBER OF PIPES = 1
PIPE-FLOW(CFS) = 62.34
PIPE TRAVEL TIME(MIN.) = 0.57 Tc(MIN.) = 10.17
LONGEST FLOWPATH FROM NODE 250.00 TO NODE 262.00 = 2030.00 FEET.

****
FLOW PROCESS FROM NODE 262.00 TO NODE 262.00 IS CODE = 1

>>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
>>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==========
TOTAL NUMBER OF STREAMS = 2
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:
TIME OF CONCENTRATION(MIN.) = 10.17
RAINFALL INTENSITY(INCH/HR) = 2.90
AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.42
AREA-AVERAGED Ap = 0.10
EFFECTIVE STREAM AREA(ACRES) = 23.40
TOTAL STREAM AREA(ACRES) = 23.40
PEAK FLOW RATE(CFS) AT CONFLUENCE = 62.34

** CONFLUENCE DATA **

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	121.33	10.84	2.791	0.36(0.04)	0.10	43.1	245.00
1	122.67	11.19	2.740	0.36(0.04)	0.10	44.3	235.00
1	126.63	14.76	2.320	0.36(0.04)	0.10	54.8	200.00
1	126.29	14.93	2.304	0.36(0.04)	0.10	55.0	206.00
1	116.20	17.29	2.110	0.36(0.04)	0.10	56.3	220.00
2	62.34	10.17	2.900	0.42(0.04)	0.10	23.4	250.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
CONFLUENCE FORMULA USED FOR 2 STREAMS.

** PEAK FLOW RATE TABLE **

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	180.68	10.17	2.900	0.38(0.04)	0.10	63.8	250.00
2	181.30	10.84	2.791	0.38(0.04)	0.10	66.5	245.00
3	181.51	11.19	2.740	0.38(0.04)	0.10	67.7	235.00
4	176.32	14.76	2.320	0.38(0.04)	0.10	78.2	200.00
5	175.64	14.93	2.304	0.38(0.04)	0.10	78.4	206.00
6	161.31	17.29	2.110	0.38(0.04)	0.10	79.8	220.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
PEAK FLOW RATE(CFS) = 181.51 Tc(MIN.) = 11.19
EFFECTIVE AREA(ACRES) = 67.74 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.38 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 79.8
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 262.00 = 4271.00 FEET.

****
FLOW PROCESS FROM NODE 262.00 TO NODE 263.00 IS CODE = 31

>>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
>>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==========
ELEVATION DATA: UPSTREAM(FEET) = 641.71 DOWNSTREAM(FEET) = 640.64
FLOW LENGTH(FEET) = 214.00 MANNING'S N = 0.012

```
 DEPTH OF FLOW IN  60.0 INCH PIPE IS  45.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  11.26
 ESTIMATED PIPE DIAMETER(INCH) =  60.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =     181.51
 PIPE TRAVEL TIME(MIN.) =   0.32    Tc(MIN.) =   11.50
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    263.00 =    4485.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    263.00 TO NODE    263.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   11.50
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.694
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        0.55      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.55      SUBAREA RUNOFF(CFS) =    1.31
 EFFECTIVE AREA(ACRES) =     68.29   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.38  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       80.3       PEAK FLOW RATE(CFS) =     181.51
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
 FLOW PROCESS FROM NODE    263.00 TO NODE    263.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   11.50
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.694
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        0.20      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.20      SUBAREA RUNOFF(CFS) =    0.48
 EFFECTIVE AREA(ACRES) =     68.49   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.38  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       80.5       PEAK FLOW RATE(CFS) =     181.51
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
 FLOW PROCESS FROM NODE    263.00 TO NODE    264.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   640.64  DOWNSTREAM(FEET) =   638.74
 FLOW LENGTH(FEET) =   380.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  60.0 INCH PIPE IS  45.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  11.26
 ESTIMATED PIPE DIAMETER(INCH) =  60.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =     181.51
 PIPE TRAVEL TIME(MIN.) =   0.56    Tc(MIN.) =   12.06
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    264.00 =    4865.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    264.00 TO NODE    264.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   12.06
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.618
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        0.95      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    0.95      SUBAREA RUNOFF(CFS) =    2.20
 EFFECTIVE AREA(ACRES) =     69.44   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.38  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       81.4       PEAK FLOW RATE(CFS) =     181.51
```

```
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
 FLOW PROCESS FROM NODE    264.00 TO NODE    264.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   12.06
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.618
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.00      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.00      SUBAREA RUNOFF(CFS) =    2.32
 EFFECTIVE AREA(ACRES) =     70.44   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.38  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       82.4       PEAK FLOW RATE(CFS) =     181.51
 NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE

****************************************************************************
 FLOW PROCESS FROM NODE    264.00 TO NODE    282.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   638.74  DOWNSTREAM(FEET) =   637.24
 FLOW LENGTH(FEET) =   300.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  60.0 INCH PIPE IS  45.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =  11.26
 ESTIMATED PIPE DIAMETER(INCH) =  60.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =     181.51
 PIPE TRAVEL TIME(MIN.) =   0.44    Tc(MIN.) =   12.51
 LONGEST FLOWPATH FROM NODE    220.00 TO NODE    282.00 =    5165.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    282.00 TO NODE    282.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
 TIME OF CONCENTRATION(MIN.) =   12.51
 RAINFALL INTENSITY(INCH/HR) =   2.56
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.38
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =      70.44
 TOTAL STREAM AREA(ACRES) =      82.45
 PEAK FLOW RATE(CFS) AT CONFLUENCE =     181.51

****************************************************************************
 FLOW PROCESS FROM NODE    270.00 TO NODE    271.00 IS CODE =  21
----------------------------------------------------------------------------
 >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
 >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
 INITIAL SUBAREA FLOW-LENGTH(FEET) =   450.00
 ELEVATION DATA: UPSTREAM(FEET) =    667.30  DOWNSTREAM(FEET) =    658.19

 Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
 SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    7.637
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.445
 SUBAREA Tc AND LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
 COMMERCIAL                 B        3.90      0.42     0.100    76    7.64
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA RUNOFF(CFS) =     11.94
 TOTAL AREA(ACRES) =      3.90   PEAK FLOW RATE(CFS) =     11.94

****************************************************************************
 FLOW PROCESS FROM NODE    271.00 TO NODE    271.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
```

```
 MAINLINE Tc(MIN.) =    7.64
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.445
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.60      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.60      SUBAREA RUNOFF(CFS) =    4.90
 EFFECTIVE AREA(ACRES) =      5.50   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        5.5       PEAK FLOW RATE(CFS) =      16.84

****************************************************************************
 FLOW PROCESS FROM NODE    271.00 TO NODE    272.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   654.19  DOWNSTREAM(FEET) =   653.50
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  24.0 INCH PIPE IS  19.6 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.13
 ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      16.84
 PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =    8.01
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    272.00 =     588.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    272.00 TO NODE    272.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.01
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.347
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.55      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.55      SUBAREA RUNOFF(CFS) =    4.61
 EFFECTIVE AREA(ACRES) =      7.05   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        7.1       PEAK FLOW RATE(CFS) =      20.97

****************************************************************************
 FLOW PROCESS FROM NODE    272.00 TO NODE    273.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   653.50  DOWNSTREAM(FEET) =   652.81
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   6.59
 ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      20.97
 PIPE TRAVEL TIME(MIN.) =   0.35    Tc(MIN.) =    8.36
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    273.00 =     726.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    273.00 TO NODE    273.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.36
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.262
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.95      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    5.65
 EFFECTIVE AREA(ACRES) =      9.00   AREA-AVERAGED Fm(INCH/HR) =  0.04
```

```
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =        9.0       PEAK FLOW RATE(CFS) =      26.08

****************************************************************************
 FLOW PROCESS FROM NODE    273.00 TO NODE    274.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   652.81  DOWNSTREAM(FEET) =   652.12
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.3 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.01
 ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      26.08
 PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =    8.69
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    274.00 =     864.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    274.00 TO NODE    274.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    8.69
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.188
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.50      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.50      SUBAREA RUNOFF(CFS) =    4.25
 EFFECTIVE AREA(ACRES) =     10.50   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       10.5       PEAK FLOW RATE(CFS) =      29.73

****************************************************************************
 FLOW PROCESS FROM NODE    274.00 TO NODE    275.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   652.12  DOWNSTREAM(FEET) =   651.43
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  30.0 INCH PIPE IS  23.8 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.11
 ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      29.73
 PIPE TRAVEL TIME(MIN.) =   0.32    Tc(MIN.) =    9.01
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    275.00 =    1002.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    275.00 TO NODE    275.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    9.01
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.119
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.95      0.42      0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    5.40
 EFFECTIVE AREA(ACRES) =     12.45   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       12.4       PEAK FLOW RATE(CFS) =      34.47

****************************************************************************
 FLOW PROCESS FROM NODE    275.00 TO NODE    276.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   651.43  DOWNSTREAM(FEET) =   650.74
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
```

```
 DEPTH OF FLOW IN  33.0 INCH PIPE IS  23.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.50
 ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      34.47
 PIPE TRAVEL TIME(MIN.) =   0.31    Tc(MIN.) =    9.32
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    276.00 =    1140.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    276.00 TO NODE    276.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    9.32
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.057
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.50      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.50      SUBAREA RUNOFF(CFS) =    4.07
 EFFECTIVE AREA(ACRES) =     13.95   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       13.9       PEAK FLOW RATE(CFS) =      37.85

****************************************************************************
 FLOW PROCESS FROM NODE    276.00 TO NODE    277.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   650.74  DOWNSTREAM(FEET) =   650.05
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  33.0 INCH PIPE IS  25.9 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.57
 ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      37.85
 PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =    9.62
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    277.00 =    1278.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    277.00 TO NODE    277.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =    9.62
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.999
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                  B        1.95      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    5.19
 EFFECTIVE AREA(ACRES) =     15.90   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       15.9       PEAK FLOW RATE(CFS) =      42.30

****************************************************************************
 FLOW PROCESS FROM NODE    277.00 TO NODE    278.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   650.05  DOWNSTREAM(FEET) =   649.36
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  36.0 INCH PIPE IS  25.5 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.91
 ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      42.30
 PIPE TRAVEL TIME(MIN.) =   0.29    Tc(MIN.) =    9.91
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    278.00 =    1416.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    278.00 TO NODE    278.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
```

```
 MAINLINE Tc(MIN.) =    9.91
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.945
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.50      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.50      SUBAREA RUNOFF(CFS) =    3.92
 EFFECTIVE AREA(ACRES) =     17.40   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       17.4       PEAK FLOW RATE(CFS) =      45.46

****************************************************************************
 FLOW PROCESS FROM NODE    278.00 TO NODE    279.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   649.36  DOWNSTREAM(FEET) =   648.67
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  36.0 INCH PIPE IS  27.0 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   7.99
 ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      45.46
 PIPE TRAVEL TIME(MIN.) =   0.29    Tc(MIN.) =   10.20
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    279.00 =    1554.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    279.00 TO NODE    279.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   10.20
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.895
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.95      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.95      SUBAREA RUNOFF(CFS) =    5.01
 EFFECTIVE AREA(ACRES) =     19.35   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       19.4       PEAK FLOW RATE(CFS) =      49.69

****************************************************************************
 FLOW PROCESS FROM NODE    279.00 TO NODE    280.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   648.67  DOWNSTREAM(FEET) =   647.98
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  36.0 INCH PIPE IS  29.4 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.04
 ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      49.69
 PIPE TRAVEL TIME(MIN.) =   0.29    Tc(MIN.) =   10.49
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    280.00 =    1692.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    280.00 TO NODE    280.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   10.49
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.848
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        1.45      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    1.45      SUBAREA RUNOFF(CFS) =    3.66
 EFFECTIVE AREA(ACRES) =     20.80   AREA-AVERAGED Fm(INCH/HR) =  0.04
```

```
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       20.8       PEAK FLOW RATE(CFS) =      52.52

****************************************************************************
 FLOW PROCESS FROM NODE    280.00 TO NODE    281.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   647.98  DOWNSTREAM(FEET) =   647.29
 FLOW LENGTH(FEET) =   138.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  39.0 INCH PIPE IS  27.7 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.35
 ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      52.52
 PIPE TRAVEL TIME(MIN.) =   0.28    Tc(MIN.) =   10.76
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    281.00 =    1830.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    281.00 TO NODE    281.00 IS CODE =  81
----------------------------------------------------------------------------
 >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
 MAINLINE Tc(MIN.) =   10.76
 * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.804
 SUBAREA LOSS RATE DATA(AMC III):
  DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS
      LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
 COMMERCIAL                 B        2.55      0.42     0.100    76
 SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.42
 SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
 SUBAREA AREA(ACRES) =    2.55      SUBAREA RUNOFF(CFS) =    6.34
 EFFECTIVE AREA(ACRES) =     23.35   AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42  AREA-AVERAGED Ap =  0.10
 TOTAL AREA(ACRES) =       23.4       PEAK FLOW RATE(CFS) =      58.03

****************************************************************************
 FLOW PROCESS FROM NODE    281.00 TO NODE    282.00 IS CODE =  31
----------------------------------------------------------------------------
 >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
 >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
 ELEVATION DATA: UPSTREAM(FEET) =   647.29  DOWNSTREAM(FEET) =   645.60
 FLOW LENGTH(FEET) =   338.00   MANNING'S N =  0.012
 DEPTH OF FLOW IN  39.0 INCH PIPE IS  30.1 INCHES
 PIPE-FLOW VELOCITY(FEET/SEC.) =   8.45
 ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
 PIPE-FLOW(CFS) =      58.03
 PIPE TRAVEL TIME(MIN.) =   0.67    Tc(MIN.) =   11.43
 LONGEST FLOWPATH FROM NODE    270.00 TO NODE    282.00 =    2168.00 FEET.

****************************************************************************
 FLOW PROCESS FROM NODE    282.00 TO NODE    282.00 IS CODE =   1
----------------------------------------------------------------------------
 >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
 >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
 TOTAL NUMBER OF STREAMS =  2
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
 TIME OF CONCENTRATION(MIN.) =   11.43
 RAINFALL INTENSITY(INCH/HR) =   2.70
 AREA-AVERAGED Fm(INCH/HR) =  0.04
 AREA-AVERAGED Fp(INCH/HR) =  0.42
 AREA-AVERAGED Ap =  0.10
 EFFECTIVE STREAM AREA(ACRES) =      23.35
 TOTAL STREAM AREA(ACRES) =      23.35
 PEAK FLOW RATE(CFS) AT CONFLUENCE =      58.03

 ** CONFLUENCE DATA **
  STREAM       Q      Tc   Intensity   Fp(Fm)     Ap      Ae     HEADWATER
  NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)          (ACRES)    NODE
     1      180.68   11.50    2.695  0.39( 0.04) 0.10      66.5     250.00
     1      181.30   12.17    2.605  0.38( 0.04) 0.10      69.2     245.00
     1      181.51   12.51    2.562  0.38( 0.04) 0.10      70.4     235.00
     1      176.32   16.09    2.203  0.38( 0.04) 0.10      80.9     200.00
     1      175.64   16.26    2.189  0.38( 0.04) 0.10      81.1     206.00
     1      161.31   18.65    2.016  0.38( 0.04) 0.10      82.4     220.00
```

2	58.03	11.43	2.704	0.42(0.04)	0.10	23.4	270.00

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
CONFLUENCE FORMULA USED FOR 2 STREAMS.

** PEAK FLOW RATE TABLE **

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	238.29	11.43	2.704	0.40(0.04)	0.10	89.5	270.00
2	238.50	11.50	2.695	0.40(0.04)	0.10	89.9	250.00
3	237.16	12.17	2.605	0.39(0.04)	0.10	92.5	245.00
4	236.43	12.51	2.562	0.39(0.04)	0.10	93.8	235.00
5	223.41	16.09	2.203	0.39(0.04)	0.10	104.2	200.00
6	222.43	16.26	2.189	0.39(0.04)	0.10	104.5	206.00
7	204.33	18.65	2.016	0.39(0.04)	0.10	105.8	220.00

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
PEAK FLOW RATE(CFS) = 238.50 Tc(MIN.) = 11.50
EFFECTIVE AREA(ACRES) = 89.87 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.40 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 105.8
LONGEST FLOWPATH FROM NODE 220.00 TO NODE 282.00 = 5165.00 FEET.

****
FLOW PROCESS FROM NODE 282.00 TO NODE 282.00 IS CODE = 81

>>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==========
MAINLINE Tc(MIN.) = 11.50
* 100 YEAR RAINFALL INTENSITY(INCH/HR) = 2.695
SUBAREA LOSS RATE DATA(AMC III):

DEVELOPMENT TYPE/ LAND USE	SCS SOIL GROUP	AREA (ACRES)	Fp (INCH/HR)	Ap (DECIMAL)	SCS CN
COMMERCIAL	B	0.65	0.42	0.100	76

SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) = 0.42
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap = 0.100
SUBAREA AREA(ACRES) = 0.65 SUBAREA RUNOFF(CFS) = 1.55
EFFECTIVE AREA(ACRES) = 90.52 AREA-AVERAGED Fm(INCH/HR) = 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.40 AREA-AVERAGED Ap = 0.10
TOTAL AREA(ACRES) = 106.4 PEAK FLOW RATE(CFS) = 238.50
NOTE: PEAK FLOW RATE DEFAULTED TO UPSTREAM VALUE
==========
END OF STUDY SUMMARY:
TOTAL AREA(ACRES) = 106.4 TC(MIN.) = 11.50
EFFECTIVE AREA(ACRES) = 90.52 AREA-AVERAGED Fm(INCH/HR)= 0.04
AREA-AVERAGED Fp(INCH/HR) = 0.40 AREA-AVERAGED Ap = 0.100
PEAK FLOW RATE(CFS) = 238.50

** PEAK FLOW RATE TABLE **

STREAM NUMBER	Q (CFS)	Tc (MIN.)	Intensity (INCH/HR)	Fp(Fm) (INCH/HR)	Ap	Ae (ACRES)	HEADWATER NODE
1	238.29	11.43	2.704	0.40(0.04)	0.10	90.1	270.00
2	238.50	11.50	2.695	0.40(0.04)	0.10	90.5	250.00
3	237.16	12.17	2.605	0.39(0.04)	0.10	93.2	245.00
4	236.43	12.51	2.562	0.39(0.04)	0.10	94.4	235.00
5	223.41	16.09	2.203	0.39(0.04)	0.10	104.9	200.00
6	222.43	16.26	2.189	0.39(0.04)	0.10	105.1	206.00
7	204.33	18.65	2.016	0.39(0.04)	0.10	106.4	220.00

==========
==========
END OF RATIONAL METHOD ANALYSIS

APPENDIX C

DETENTION CALCULATIONS

Job #3654 Grove Business Center, Ontario
Volume in Building 1 West Truck Yard, Node 281

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
658.19	0.00	0				
			1648	1648	0.04	2.9
658.40	0.21	15700				
			8094	9743	0.22	3.1
658.60	0.41	65240				
			18965	28708	0.66	3.3
658.80	0.61	124410				
			27814	56522	1.30	3.5
659.00	0.81	153730				
			33064	89586	2.06	3.7
659.20	1.01	176910				
			37513	127099	2.92	3.9
659.40	1.21	198220				
			41733	168832	3.88	4.1
659.60	1.41	219110				
			45977	214809	4.93	4.3
659.80	1.61	240660				
			50357	265166	6.09	4.4
660.00	1.81	262910				
			32359	297524	6.83	4.5
660.12	1.93	276400				

```
**************************************************************************

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         USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)
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                        Analysis prepared by:



 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO                             *
* 100-YEAR DETENTION                                                     *
* BUILDING 1 WEST TRUCK YARD, NODE 281                                   *
 ************************************************************************

  FILE NAME: W:\3654\BLDG1W.DAT
  TIME/DATE OF STUDY: 22:58 12/12/2020


**************************************************************************
  FLOW PROCESS FROM NODE    281.00 TO NODE    281.00 IS CODE =   1
--------------------------------------------------------------------------
  >>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<
==========================================================================

      (UNIT-HYDROGRAPH ADDED TO STREAM #1)

         WATERSHED AREA =      23.350 ACRES
         BASEFLOW =   0.000 CFS/SQUARE-MILE
         *USER ENTERED "LAG" TIME =    0.144 HOURS
          CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.
          THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)
          MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.
         VALLEY(DEVELOPED) S-GRAPH SELECTED
         MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) =  0.042
         LOW LOSS FRACTION = 0.079
         *HYDROGRAPH MODEL #1 SPECIFIED*

         SPECIFIED PEAK  5-MINUTES RAINFALL(INCH)=  0.37
         SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)=  0.75
         SPECIFIED PEAK  1-HOUR RAINFALL(INCH) =  1.00
         SPECIFIED PEAK  3-HOUR RAINFALL(INCH) =  1.90
         SPECIFIED PEAK  6-HOUR RAINFALL(INCH) =  2.90
         SPECIFIED PEAK 24-HOUR RAINFALL(INCH) =  5.90

         PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
           5-MINUTE FACTOR = 0.999
          30-MINUTE FACTOR = 0.999
           1-HOUR FACTOR = 0.999
           3-HOUR FACTOR = 1.000
           6-HOUR FACTOR = 1.000
          24-HOUR FACTOR = 1.000

         UNIT HYDROGRAPH TIME UNIT =   5.000 MINUTES
         UNIT INTERVAL PERCENTAGE OF LAG-TIME =  57.870


==========================================================================
                    UNIT HYDROGRAPH DETERMINATION

--------------------------------------------------------------------------
    INTERVAL          "S" GRAPH          UNIT HYDROGRAPH
     NUMBER         MEAN VALUES          ORDINATES(CFS)
--------------------------------------------------------------------------
       1                5.965               16.843
       2               38.706               92.457
       3               78.993              113.768
       4               94.676               44.285
       5               98.470               10.715
       6               99.400                2.626
```

7	99.760	1.017
8	99.940	0.508
9	100.000	0.169

****

UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0115
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118
66	0.0128	0.0010	0.0118

67	0.0129	0.0010	0.0119
68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185
143	0.0203	0.0016	0.0187

144	0.0204	0.0016	0.0188
145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0251
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0311	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0301
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0351	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0369	0.0029	0.0339
178	0.0375	0.0030	0.0346
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0384
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0344
187	0.0423	0.0033	0.0389
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0587	0.0035	0.0552
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3696	0.0035	0.3661
194	0.0684	0.0035	0.0649
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0334
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0305
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182
220	0.0194	0.0015	0.0179

			BLDG1W.RES
221	0.0191	0.0015	0.0176
222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90
TOTAL SOIL-LOSS(INCHES) = 0.43
TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.8306
TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 10.6437

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24 - H O U R S T O R M
R U N O F F H Y D R O G R A P H

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0. 15.0 30.0 45.0 60.0
0.083	0.0011	0.16	Q . . . .
0.167	0.0084	1.06	Q . . . .
0.250	0.0233	2.16	VQ . . . .
0.333	0.0412	2.59	VQ . . . .
0.417	0.0598	2.70	VQ . . . .
0.500	0.0786	2.74	VQ . . . .
0.583	0.0976	2.75	VQ . . . .
0.667	0.1166	2.77	VQ . . . .
0.750	0.1357	2.77	VQ . . . .
0.833	0.1549	2.78	VQ . . . .
0.917	0.1741	2.79	VQ . . . .
1.000	0.1934	2.80	VQ . . . .
1.083	0.2127	2.80	VQ . . . .
1.167	0.2321	2.81	VQ . . . .
1.250	0.2515	2.82	VQ . . . .
1.333	0.2709	2.83	.Q . . . .
1.417	0.2905	2.83	.Q . . . .
1.500	0.3101	2.84	.Q . . . .
1.583	0.3297	2.85	.Q . . . .
1.667	0.3494	2.86	.Q . . . .
1.750	0.3691	2.87	.Q . . . .
1.833	0.3889	2.87	.Q . . . .
1.917	0.4088	2.88	.Q . . . .
2.000	0.4287	2.89	.Q . . . .
2.083	0.4486	2.90	.Q . . . .
2.167	0.4687	2.91	.Q . . . .
2.250	0.4888	2.92	.Q . . . .
2.333	0.5089	2.92	.Q . . . .
2.417	0.5291	2.93	.Q . . . .
2.500	0.5494	2.94	.QV . . . .
2.583	0.5697	2.95	.QV . . . .
2.667	0.5901	2.96	.QV . . . .
2.750	0.6105	2.97	.QV . . . .
2.833	0.6310	2.98	.QV . . . .
2.917	0.6516	2.99	.QV . . . .
3.000	0.6722	3.00	.QV . . . .
3.083	0.6929	3.01	. Q . . . .
3.167	0.7137	3.01	. Q . . . .
3.250	0.7345	3.02	. Q . . . .
3.333	0.7554	3.03	. Q . . . .
3.417	0.7763	3.04	. Q . . . .
3.500	0.7974	3.05	. Q . . . .
3.583	0.8185	3.06	. QV . . . .
3.667	0.8396	3.07	. QV . . . .
3.750	0.8608	3.08	. QV . . . .
3.833	0.8821	3.09	. QV . . . .
3.917	0.9035	3.10	. QV . . . .
4.000	0.9249	3.11	. QV . . . .
4.083	0.9465	3.12	. QV . . . .
4.167	0.9680	3.13	. QV . . . .
4.250	0.9897	3.14	. QV . . . .
4.333	1.0114	3.16	. QV . . . .
4.417	1.0332	3.17	. QV . . . .
4.500	1.0551	3.18	. QV . . . .
4.583	1.0771	3.19	. Q V . . . .
4.667	1.0991	3.20	. Q V . . . .
4.750	1.1212	3.21	. Q V . . . .
4.833	1.1434	3.22	. Q V . . . .
4.917	1.1657	3.23	. Q V . . . .
5.000	1.1880	3.25	. Q V . . . .
5.083	1.2104	3.26	. Q V . . . .
5.167	1.2330	3.27	. Q V . . . .
5.250	1.2556	3.28	. Q V . . . .
5.333	1.2782	3.29	. Q V . . . .
5.417	1.3010	3.31	. Q V . . . .

5.500	1.3239	3.32	. Q V	.	.	.	.	.
5.583	1.3468	3.33	. Q V	.	.	.	.	.
5.667	1.3698	3.34	. Q V	.	.	.	.	.
5.750	1.3929	3.36	. Q V	.	.	.	.	.
5.833	1.4161	3.37	. Q V	.	.	.	.	.
5.917	1.4394	3.38	. Q V	.	.	.	.	.
6.000	1.4628	3.40	. Q V	.	.	.	.	.
6.083	1.4863	3.41	. Q V	.	.	.	.	.
6.167	1.5099	3.42	. Q V	.	.	.	.	.
6.250	1.5336	3.44	. Q V	.	.	.	.	.
6.333	1.5573	3.45	. Q V	.	.	.	.	.
6.417	1.5812	3.47	. Q V	.	.	.	.	.
6.500	1.6052	3.48	. Q V	.	.	.	.	.
6.583	1.6292	3.49	. Q V	.	.	.	.	.
6.667	1.6534	3.51	. Q V	.	.	.	.	.
6.750	1.6777	3.52	. Q V	.	.	.	.	.
6.833	1.7021	3.54	. Q V	.	.	.	.	.
6.917	1.7266	3.56	. Q V	.	.	.	.	.
7.000	1.7512	3.57	. Q V	.	.	.	.	.
7.083	1.7759	3.59	. Q V	.	.	.	.	.
7.167	1.8007	3.60	. Q V	.	.	.	.	.
7.250	1.8256	3.62	. Q V	.	.	.	.	.
7.333	1.8506	3.64	. Q V	.	.	.	.	.
7.417	1.8758	3.65	. Q V	.	.	.	.	.
7.500	1.9011	3.67	. Q V	.	.	.	.	.
7.583	1.9265	3.69	. Q V	.	.	.	.	.
7.667	1.9520	3.70	. Q V	.	.	.	.	.
7.750	1.9776	3.72	. Q V	.	.	.	.	.
7.833	2.0034	3.74	. Q V	.	.	.	.	.
7.917	2.0292	3.76	. Q V	.	.	.	.	.
8.000	2.0552	3.78	. Q V	.	.	.	.	.
8.083	2.0814	3.80	. Q V	.	.	.	.	.
8.167	2.1077	3.81	. Q V	.	.	.	.	.
8.250	2.1341	3.83	. Q V	.	.	.	.	.
8.333	2.1606	3.85	. Q V	.	.	.	.	.
8.417	2.1873	3.87	. Q V	.	.	.	.	.
8.500	2.2141	3.89	. Q V	.	.	.	.	.
8.583	2.2411	3.91	. Q V	.	.	.	.	.
8.667	2.2682	3.94	. Q V	.	.	.	.	.
8.750	2.2954	3.96	. Q V	.	.	.	.	.
8.833	2.3228	3.98	. Q V	.	.	.	.	.
8.917	2.3504	4.00	. Q V	.	.	.	.	.
9.000	2.3781	4.02	. Q V	.	.	.	.	.
9.083	2.4059	4.05	. Q V	.	.	.	.	.
9.167	2.4340	4.07	. Q V	.	.	.	.	.
9.250	2.4622	4.09	. Q V	.	.	.	.	.
9.333	2.4905	4.12	. Q V	.	.	.	.	.
9.417	2.5190	4.14	. Q V	.	.	.	.	.
9.500	2.5477	4.17	. Q V	.	.	.	.	.
9.583	2.5766	4.19	. Q V	.	.	.	.	.
9.667	2.6057	4.22	. Q V	.	.	.	.	.
9.750	2.6349	4.24	. Q V	.	.	.	.	.
9.833	2.6643	4.27	. Q V	.	.	.	.	.
9.917	2.6939	4.30	. Q V	.	.	.	.	.
10.000	2.7237	4.33	. Q V	.	.	.	.	.
10.083	2.7537	4.36	. Q V	.	.	.	.	.
10.167	2.7839	4.38	. Q V	.	.	.	.	.
10.250	2.8143	4.41	. Q V	.	.	.	.	.
10.333	2.8449	4.44	. Q V	.	.	.	.	.
10.417	2.8757	4.48	. Q V	.	.	.	.	.
10.500	2.9068	4.51	. Q V	.	.	.	.	.
10.583	2.9380	4.54	. Q .V	.	.	.	.	.
10.667	2.9695	4.57	. Q .V	.	.	.	.	.
10.750	3.0012	4.61	. Q .V	.	.	.	.	.
10.833	3.0332	4.64	. Q .V	.	.	.	.	.
10.917	3.0654	4.68	. Q .V	.	.	.	.	.
11.000	3.0979	4.71	. Q .V	.	.	.	.	.
11.083	3.1306	4.75	. Q .V	.	.	.	.	.
11.167	3.1636	4.79	. Q .V	.	.	.	.	.
11.250	3.1968	4.83	. Q . V	.	.	.	.	.
11.333	3.2303	4.87	. Q . V	.	.	.	.	.
11.417	3.2641	4.91	. Q . V	.	.	.	.	.
11.500	3.2982	4.95	. Q . V	.	.	.	.	.
11.583	3.3326	4.99	. Q . V	.	.	.	.	.
11.667	3.3673	5.04	. Q . V	.	.	.	.	.
11.750	3.4023	5.08	. Q . V	.	.	.	.	.
11.833	3.4376	5.13	. Q . V	.	.	.	.	.

11.917	3.4733	5.18	. Q . V . . .
12.000	3.5093	5.23	. Q . V . . .
12.083	3.5460	5.34	. Q . V . . .
12.167	3.5855	5.73	. Q . V . . .
12.250	3.6281	6.19	. Q . V . . .
12.333	3.6723	6.41	. Q . V . . .
12.417	3.7171	6.50	. Q . V . . .
12.500	3.7623	6.57	. Q . V . . .
12.583	3.8079	6.63	. Q . V . . .
12.667	3.8540	6.69	. Q . V . . .
12.750	3.9005	6.75	. Q . V . . .
12.833	3.9475	6.82	. Q . V . . .
12.917	3.9949	6.89	. Q . V . . .
13.000	4.0428	6.95	. Q . V . . .
13.083	4.0912	7.03	. Q . V . . .
13.167	4.1401	7.10	. Q . V . . .
13.250	4.1895	7.18	. Q . V . . .
13.333	4.2395	7.26	. Q . V . . .
13.417	4.2901	7.34	. Q . V . . .
13.500	4.3412	7.43	. Q . V . . .
13.583	4.3930	7.52	. Q . V . . .
13.667	4.4454	7.61	. Q . V . . .
13.750	4.4985	7.71	. Q . V . . .
13.833	4.5524	7.82	. Q . V . . .
13.917	4.6069	7.92	. Q . V . . .
14.000	4.6623	8.04	. Q . V . . .
14.083	4.7184	8.14	. Q . V . . .
14.167	4.7745	8.16	. Q . V . . .
14.250	4.8307	8.15	. Q . V . . .
14.333	4.8875	8.24	. Q . V . . .
14.417	4.9452	8.39	. Q . V . . .
14.500	5.0041	8.55	. Q . V . . .
14.583	5.0642	8.73	. Q . V. . . .
14.667	5.1256	8.92	. Q . V. . . .
14.750	5.1885	9.13	. Q . V. . . .
14.833	5.2529	9.35	. Q . V. . . .
14.917	5.3190	9.59	. Q . V. . . .
15.000	5.3869	9.86	. Q . V . . .
15.083	5.4568	10.16	. Q . V . . .
15.167	5.5291	10.49	. Q . V . . .
15.250	5.6038	10.85	. Q . .V . . .
15.333	5.6815	11.28	. Q . .V . . .
15.417	5.7610	11.55	. Q . .V . . .
15.500	5.8361	10.90	. Q . .V . . .
15.583	5.9054	10.06	. Q . . V . . .
15.667	5.9763	10.31	. Q . . V . . .
15.750	6.0534	11.19	. Q . . V . . .
15.833	6.1391	12.45	. Q . . V . . .
15.917	6.2384	14.41	. Q. . V . . .
16.000	6.3651	18.40	. . Q . V . . .
16.083	6.5642	28.91	. . Q. V . . .
16.167	6.9233	52.13	. . . V . Q .
16.250	7.2987	54.51	. . . V . Q .
16.333	7.5052	29.98	. . Q. V . . .
16.417	7.6192	16.57	. .Q . V . . .
16.500	7.7073	12.79	. Q . . V . . .
16.583	7.7909	12.13	. Q . . V. . . .
16.667	7.8694	11.40	. Q . . V. . . .
16.750	7.9423	10.58	. Q . . V. . . .
16.833	8.0105	9.91	. Q . . V . . .
16.917	8.0752	9.39	. Q . . V . . .
17.000	8.1368	8.95	. Q . . V . . .
17.083	8.1960	8.59	. Q . . V . . .
17.167	8.2537	8.38	. Q . . .V . . .
17.250	8.3104	8.23	. Q . . .V . . .
17.333	8.3658	8.04	. Q . . .V . . .
17.417	8.4196	7.82	. Q . . .V . . .
17.500	8.4721	7.62	. Q . . .V . . .
17.583	8.5233	7.43	. Q . . . V . . .
17.667	8.5733	7.26	. Q . . . V . . .
17.750	8.6223	7.11	. Q . . . V . . .
17.833	8.6702	6.96	. Q . . . V . . .
17.917	8.7172	6.82	. Q . . . V . . .
18.000	8.7633	6.70	. Q . . . V . . .
18.083	8.8082	6.52	. Q . . . . V . .
18.167	8.8500	6.07	. Q . . . . V . .
18.250	8.8882	5.55	. Q . . . . V . .

18.333	8.9246	5.29	.	Q	.	.	.	V	.
18.417	8.9601	5.15	.	Q	.	.	.	V	.
18.500	8.9948	5.05	.	Q	.	.	.	V	.
18.583	9.0290	4.96	.	Q	.	.	.	V	.
18.667	9.0625	4.87	.	Q	.	.	.	V	.
18.750	9.0955	4.79	.	Q	.	.	.	V	.
18.833	9.1280	4.71	.	Q	.	.	.	V	.
18.917	9.1599	4.64	.	Q	.	.	.	V	.
19.000	9.1915	4.57	.	Q	.	.	.	V	.
19.083	9.2225	4.51	.	Q	.	.	.	V	.
19.167	9.2531	4.45	.	Q	.	.	.	V	.
19.250	9.2833	4.39	.	Q	.	.	.	V	.
19.333	9.3131	4.33	.	Q	.	.	.	V	.
19.417	9.3426	4.27	.	Q	.	.	.	V	.
19.500	9.3716	4.22	.	Q	.	.	.	V	.
19.583	9.4003	4.17	.	Q	.	.	.	V	.
19.667	9.4287	4.12	.	Q	.	.	.	V	.
19.750	9.4567	4.07	.	Q	.	.	.	V	.
19.833	9.4844	4.02	.	Q	.	.	.	V	.
19.917	9.5119	3.98	.	Q	.	.	.	V	.
20.000	9.5390	3.94	.	Q	.	.	.	V	.
20.083	9.5658	3.90	.	Q	.	.	.	V	.
20.167	9.5923	3.85	.	Q	.	.	.	V	.
20.250	9.6186	3.82	.	Q	.	.	.	V	.
20.333	9.6446	3.78	.	Q	.	.	.	V	.
20.417	9.6704	3.74	.	Q	.	.	.	V	.
20.500	9.6959	3.71	.	Q	.	.	.	V	.
20.583	9.7212	3.67	.	Q	.	.	.	V	.
20.667	9.7462	3.64	.	Q	.	.	.	V	.
20.750	9.7711	3.60	.	Q	.	.	.	V	.
20.833	9.7957	3.57	.	Q	.	.	.	V	.
20.917	9.8200	3.54	.	Q	.	.	.	V	.
21.000	9.8442	3.51	.	Q	.	.	.	V	.
21.083	9.8682	3.48	.	Q	.	.	.	V	.
21.167	9.8920	3.45	.	Q	.	.	.	V	.
21.250	9.9155	3.42	.	Q	.	.	.	V	.
21.333	9.9389	3.40	.	Q	.	.	.	V	.
21.417	9.9621	3.37	.	Q	.	.	.	V	.
21.500	9.9852	3.34	.	Q	.	.	.	V	.
21.583	10.0080	3.32	.	Q	.	.	.	V	.
21.667	10.0307	3.29	.	Q	.	.	.	V	.
21.750	10.0532	3.27	.	Q	.	.	.	V	.
21.833	10.0756	3.25	.	Q	.	.	.	V	.
21.917	10.0978	3.22	.	Q	.	.	.	V	.
22.000	10.1198	3.20	.	Q	.	.	.	V	.
22.083	10.1417	3.18	.	Q	.	.	.	V	.
22.167	10.1634	3.16	.	Q	.	.	.	V	.
22.250	10.1850	3.13	.	Q	.	.	.	V	.
22.333	10.2065	3.11	.	Q	.	.	.	V	.
22.417	10.2278	3.09	.	Q	.	.	.	V	.
22.500	10.2489	3.07	.	Q	.	.	.	V	.
22.583	10.2699	3.05	.	Q	.	.	.	V	.
22.667	10.2908	3.03	.	Q	.	.	.	V	.
22.750	10.3116	3.01	.	Q	.	.	.	V	.
22.833	10.3322	3.00	.	Q	.	.	.	V	.
22.917	10.3527	2.98	.	Q	.	.	.	V	.
23.000	10.3731	2.96	.	Q	.	.	.	V	.
23.083	10.3934	2.94	.	Q	.	.	.	V	.
23.167	10.4135	2.92	.	Q	.	.	.	V	.
23.250	10.4336	2.91	.	Q	.	.	.	V	.
23.333	10.4535	2.89	.	Q	.	.	.	V	.
23.417	10.4733	2.87	.	Q	.	.	.	V	.
23.500	10.4930	2.86	.	Q	.	.	.	V	.
23.583	10.5125	2.84	.	Q	.	.	.	V	.
23.667	10.5320	2.83	.	Q	.	.	.	V	.
23.750	10.5514	2.81	.	Q	.	.	.	V	.
23.833	10.5706	2.80	.	Q	.	.	.	V	.
23.917	10.5898	2.78	.	Q	.	.	.	V	.
24.000	10.6089	2.77	.	Q	.	.	.	V	.
24.083	10.6267	2.59	.	Q	.	.	.	V	.
24.167	10.6383	1.68	.	Q	.	.	.	V	.
24.250	10.6423	0.58	Q	.	.	.	.	V	.
24.333	10.6433	0.15	Q	.	.	.	.	V	.
24.417	10.6436	0.04	Q	.	.	.	.	V	.
24.500	10.6437	0.02	Q	.	.	.	.	V	.
24.583	10.6437	0.01	Q	.	.	.	.	V	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
(Note: 100% of Peak Flow Rate estimate assumed to have
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1475.0
10%	370.0
20%	70.0
30%	30.0
40%	20.0
50%	20.0
60%	10.0
70%	10.0
80%	10.0
90%	10.0

****
FLOW PROCESS FROM NODE 281.00 TO NODE 281.00 IS CODE = 3.1

>>>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<<
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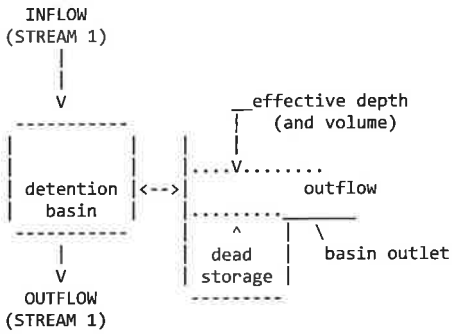

ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1
THROUGH A FLOW-THROUGH DETENTION BASIN
SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
DEAD STORAGE(AF) = 0.000
SPECIFIED DEAD STORAGE(AF) FILLED = 0.000
SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000
DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.21	2.90	0.040
3	0.41	3.10	0.220
4	0.61	3.30	0.660
5	0.81	3.50	1.300
6	1.01	3.70	2.060
7	1.21	3.90	2.920
8	1.41	4.10	3.880
9	1.61	4.30	4.930
10	1.81	4.40	6.090
11	1.93	4.50	6.830

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MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):
(Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;
MEAN OUTFLOW is the average value during the unit interval.)

CLOCK TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	EFFECTIVE DEPTH(FT)	MEAN OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)

0.083	0.000	0.16	0.00	0.00	0.0	0.001
0.167	0.000	1.06	0.00	0.03	0.3	0.006
0.250	0.000	2.16	0.00	0.08	0.8	0.016
0.333	0.000	2.59	0.00	0.12	1.4	0.024
0.417	0.000	2.70	0.00	0.15	1.9	0.029
0.500	0.000	2.74	0.00	0.17	2.2	0.033
0.583	0.000	2.75	0.00	0.18	2.4	0.035
0.667	0.000	2.77	0.00	0.19	2.6	0.036
0.750	0.000	2.77	0.00	0.19	2.6	0.037
0.833	0.000	2.78	0.00	0.20	2.7	0.038
0.917	0.000	2.79	0.00	0.20	2.7	0.038
1.000	0.000	2.80	0.00	0.20	2.8	0.038
1.083	0.000	2.80	0.00	0.20	2.8	0.038
1.167	0.000	2.81	0.00	0.20	2.8	0.039
1.250	0.000	2.82	0.00	0.20	2.8	0.039
1.333	0.000	2.83	0.00	0.20	2.8	0.039
1.417	0.000	2.83	0.00	0.20	2.8	0.039
1.500	0.000	2.84	0.00	0.20	2.8	0.039
1.583	0.000	2.85	0.00	0.21	2.8	0.039
1.667	0.000	2.86	0.00	0.21	2.8	0.039
1.750	0.000	2.87	0.00	0.21	2.9	0.039
1.833	0.000	2.87	0.00	0.21	2.9	0.039
1.917	0.000	2.88	0.00	0.21	2.9	0.040
2.000	0.000	2.89	0.00	0.21	2.9	0.040
2.083	0.000	2.90	0.00	0.21	2.9	0.040
2.167	0.000	2.91	0.00	0.21	2.9	0.040
2.250	0.000	2.92	0.00	0.21	2.9	0.040
2.333	0.000	2.92	0.00	0.21	2.9	0.040
2.417	0.000	2.93	0.00	0.21	2.9	0.040
2.500	0.000	2.94	0.00	0.21	2.9	0.041
2.583	0.000	2.95	0.00	0.21	2.9	0.041
2.667	0.000	2.96	0.00	0.21	2.9	0.041
2.750	0.000	2.97	0.00	0.21	2.9	0.042
2.833	0.000	2.98	0.00	0.21	2.9	0.042
2.917	0.000	2.99	0.00	0.21	2.9	0.043
3.000	0.000	3.00	0.00	0.21	2.9	0.044
3.083	0.000	3.01	0.00	0.21	2.9	0.044
3.167	0.000	3.01	0.00	0.22	2.9	0.045
3.250	0.000	3.02	0.00	0.22	2.9	0.046
3.333	0.000	3.03	0.00	0.22	2.9	0.047
3.417	0.000	3.04	0.00	0.22	2.9	0.048
3.500	0.000	3.05	0.00	0.22	2.9	0.049
3.583	0.000	3.06	0.00	0.22	2.9	0.050
3.667	0.000	3.07	0.00	0.22	2.9	0.051
3.750	0.000	3.08	0.00	0.22	2.9	0.052
3.833	0.000	3.09	0.00	0.22	2.9	0.053
3.917	0.000	3.10	0.00	0.23	2.9	0.055
4.000	0.000	3.11	0.00	0.23	2.9	0.056
4.083	0.000	3.12	0.00	0.23	2.9	0.057
4.167	0.000	3.13	0.00	0.23	2.9	0.059
4.250	0.000	3.14	0.00	0.23	2.9	0.060
4.333	0.000	3.16	0.00	0.23	2.9	0.062
4.417	0.000	3.17	0.00	0.24	2.9	0.064
4.500	0.000	3.18	0.00	0.24	2.9	0.065
4.583	0.000	3.19	0.00	0.24	2.9	0.067
4.667	0.000	3.20	0.00	0.24	2.9	0.069
4.750	0.000	3.21	0.00	0.24	2.9	0.071
4.833	0.000	3.22	0.00	0.25	2.9	0.073
4.917	0.000	3.23	0.00	0.25	2.9	0.075
5.000	0.000	3.25	0.00	0.25	2.9	0.077
5.083	0.000	3.26	0.00	0.25	2.9	0.079
5.167	0.000	3.27	0.00	0.26	2.9	0.081
5.250	0.000	3.28	0.00	0.26	2.9	0.084
5.333	0.000	3.29	0.00	0.26	2.9	0.086
5.417	0.000	3.31	0.00	0.26	3.0	0.088
5.500	0.000	3.32	0.00	0.27	3.0	0.091
5.583	0.000	3.33	0.00	0.27	3.0	0.094
5.667	0.000	3.34	0.00	0.27	3.0	0.096
5.750	0.000	3.36	0.00	0.28	3.0	0.099
5.833	0.000	3.37	0.00	0.28	3.0	0.102
5.917	0.000	3.38	0.00	0.28	3.0	0.104
6.000	0.000	3.40	0.00	0.28	3.0	0.107
6.083	0.000	3.41	0.00	0.29	3.0	0.110
6.167	0.000	3.42	0.00	0.29	3.0	0.113
6.250	0.000	3.44	0.00	0.30	3.0	0.117
6.333	0.000	3.45	0.00	0.30	3.0	0.120

6.417	0.000	3.47	0.00	0.30	3.0	0.123
6.500	0.000	3.48	0.00	0.31	3.0	0.126
6.583	0.000	3.49	0.00	0.31	3.0	0.130
6.667	0.000	3.51	0.00	0.31	3.0	0.133
6.750	0.000	3.52	0.00	0.32	3.0	0.137
6.833	0.000	3.54	0.00	0.32	3.0	0.141
6.917	0.000	3.56	0.00	0.33	3.0	0.144
7.000	0.000	3.57	0.00	0.33	3.0	0.148
7.083	0.000	3.59	0.00	0.33	3.0	0.152
7.167	0.000	3.60	0.00	0.34	3.0	0.156
7.250	0.000	3.62	0.00	0.34	3.0	0.160
7.333	0.000	3.64	0.00	0.35	3.0	0.164
7.417	0.000	3.65	0.00	0.35	3.0	0.168
7.500	0.000	3.67	0.00	0.36	3.0	0.173
7.583	0.000	3.69	0.00	0.36	3.0	0.177
7.667	0.000	3.70	0.00	0.37	3.1	0.181
7.750	0.000	3.72	0.00	0.37	3.1	0.186
7.833	0.000	3.74	0.00	0.38	3.1	0.191
7.917	0.000	3.76	0.00	0.38	3.1	0.195
8.000	0.000	3.78	0.00	0.39	3.1	0.200
8.083	0.000	3.80	0.00	0.39	3.1	0.205
8.167	0.000	3.81	0.00	0.40	3.1	0.210
8.250	0.000	3.83	0.00	0.40	3.1	0.215
8.333	0.000	3.85	0.00	0.41	3.1	0.221
8.417	0.000	3.87	0.00	0.41	3.1	0.226
8.500	0.000	3.89	0.00	0.42	3.1	0.231
8.583	0.000	3.91	0.00	0.42	3.1	0.237
8.667	0.000	3.94	0.00	0.42	3.1	0.243
8.750	0.000	3.96	0.00	0.42	3.1	0.248
8.833	0.000	3.98	0.00	0.43	3.1	0.254
8.917	0.000	4.00	0.00	0.43	3.1	0.260
9.000	0.000	4.02	0.00	0.43	3.1	0.267
9.083	0.000	4.05	0.00	0.43	3.1	0.273
9.167	0.000	4.07	0.00	0.44	3.1	0.279
9.250	0.000	4.09	0.00	0.44	3.1	0.286
9.333	0.000	4.12	0.00	0.44	3.1	0.293
9.417	0.000	4.14	0.00	0.45	3.1	0.300
9.500	0.000	4.17	0.00	0.45	3.1	0.307
9.583	0.000	4.19	0.00	0.45	3.1	0.314
9.667	0.000	4.22	0.00	0.46	3.1	0.322
9.750	0.000	4.24	0.00	0.46	3.1	0.329
9.833	0.000	4.27	0.00	0.46	3.2	0.337
9.917	0.000	4.30	0.00	0.47	3.2	0.345
10.000	0.000	4.33	0.00	0.47	3.2	0.353
10.083	0.000	4.36	0.00	0.47	3.2	0.361
10.167	0.000	4.38	0.00	0.48	3.2	0.369
10.250	0.000	4.41	0.00	0.48	3.2	0.378
10.333	0.000	4.44	0.00	0.49	3.2	0.387
10.417	0.000	4.48	0.00	0.49	3.2	0.396
10.500	0.000	4.51	0.00	0.49	3.2	0.405
10.583	0.000	4.54	0.00	0.50	3.2	0.414
10.667	0.000	4.57	0.00	0.50	3.2	0.424
10.750	0.000	4.61	0.00	0.51	3.2	0.433
10.833	0.000	4.64	0.00	0.51	3.2	0.443
10.917	0.000	4.68	0.00	0.52	3.2	0.453
11.000	0.000	4.71	0.00	0.52	3.2	0.464
11.083	0.000	4.75	0.00	0.53	3.2	0.474
11.167	0.000	4.79	0.00	0.53	3.2	0.485
11.250	0.000	4.83	0.00	0.54	3.2	0.496
11.333	0.000	4.87	0.00	0.54	3.2	0.507
11.417	0.000	4.91	0.00	0.55	3.2	0.519
11.500	0.000	4.95	0.00	0.55	3.2	0.531
11.583	0.000	4.99	0.00	0.56	3.2	0.543
11.667	0.000	5.04	0.00	0.56	3.2	0.555
11.750	0.000	5.08	0.00	0.57	3.3	0.568
11.833	0.000	5.13	0.00	0.57	3.3	0.581
11.917	0.000	5.18	0.00	0.58	3.3	0.594
12.000	0.000	5.23	0.00	0.59	3.3	0.607
12.083	0.000	5.34	0.00	0.59	3.3	0.621
12.167	0.000	5.73	0.00	0.60	3.3	0.638
12.250	0.000	6.19	0.00	0.61	3.3	0.658
12.333	0.000	6.41	0.00	0.62	3.3	0.680
12.417	0.000	6.50	0.00	0.62	3.3	0.702
12.500	0.000	6.57	0.00	0.63	3.3	0.724
12.583	0.000	6.63	0.00	0.64	3.3	0.747
12.667	0.000	6.69	0.00	0.64	3.3	0.770
12.750	0.000	6.75	0.00	0.65	3.3	0.793

12.833	0.000	6.82	0.00	0.66	3.3	0.817
12.917	0.000	6.89	0.00	0.67	3.4	0.842
13.000	0.000	6.95	0.00	0.67	3.4	0.866
13.083	0.000	7.03	0.00	0.68	3.4	0.892
13.167	0.000	7.10	0.00	0.69	3.4	0.917
13.250	0.000	7.18	0.00	0.70	3.4	0.943
13.333	0.000	7.26	0.00	0.71	3.4	0.970
13.417	0.000	7.34	0.00	0.72	3.4	0.997
13.500	0.000	7.43	0.00	0.72	3.4	1.025
13.583	0.000	7.52	0.00	0.73	3.4	1.053
13.667	0.000	7.61	0.00	0.74	3.4	1.082
13.750	0.000	7.71	0.00	0.75	3.4	1.111
13.833	0.000	7.82	0.00	0.76	3.4	1.141
13.917	0.000	7.92	0.00	0.77	3.5	1.172
14.000	0.000	8.04	0.00	0.78	3.5	1.204
14.083	0.000	8.14	0.00	0.79	3.5	1.236
14.167	0.000	8.16	0.00	0.80	3.5	1.268
14.250	0.000	8.15	0.00	0.81	3.5	1.300
14.333	0.000	8.24	0.00	0.82	3.5	1.333
14.417	0.000	8.39	0.00	0.83	3.5	1.366
14.500	0.000	8.55	0.00	0.84	3.5	1.401
14.583	0.000	8.73	0.00	0.85	3.5	1.437
14.667	0.000	8.92	0.00	0.86	3.5	1.474
14.750	0.000	9.13	0.00	0.87	3.6	1.512
14.833	0.000	9.35	0.00	0.88	3.6	1.552
14.917	0.000	9.59	0.00	0.89	3.6	1.593
15.000	0.000	9.86	0.00	0.90	3.6	1.637
15.083	0.000	10.16	0.00	0.91	3.6	1.682
15.167	0.000	10.49	0.00	0.92	3.6	1.729
15.250	0.000	10.85	0.00	0.94	3.6	1.779
15.333	0.000	11.28	0.00	0.95	3.6	1.832
15.417	0.000	11.55	0.00	0.96	3.6	1.886
15.500	0.000	10.90	0.00	0.98	3.7	1.936
15.583	0.000	10.06	0.00	0.99	3.7	1.980
15.667	0.000	10.31	0.00	1.00	3.7	2.026
15.750	0.000	11.19	0.00	1.01	3.7	2.077
15.833	0.000	12.45	0.00	1.03	3.7	2.137
15.917	0.000	14.41	0.00	1.05	3.7	2.211
16.000	0.000	18.40	0.00	1.07	3.7	2.312
16.083	0.000	28.91	0.00	1.11	3.8	2.485
16.167	0.000	52.13	0.00	1.19	3.8	2.818
16.250	0.000	54.51	0.00	1.26	3.9	3.166
16.333	0.000	29.98	0.00	1.30	4.0	3.345
16.417	0.000	16.57	0.00	1.32	4.0	3.432
16.500	0.000	12.79	0.00	1.33	4.0	3.492
16.583	0.000	12.13	0.00	1.34	4.0	3.548
16.667	0.000	11.40	0.00	1.35	4.0	3.599
16.750	0.000	10.58	0.00	1.36	4.0	3.644
16.833	0.000	9.91	0.00	1.37	4.1	3.684
16.917	0.000	9.39	0.00	1.38	4.1	3.721
17.000	0.000	8.95	0.00	1.38	4.1	3.754
17.083	0.000	8.59	0.00	1.39	4.1	3.785
17.167	0.000	8.38	0.00	1.40	4.1	3.815
17.250	0.000	8.23	0.00	1.40	4.1	3.844
17.333	0.000	8.04	0.00	1.41	4.1	3.871
17.417	0.000	7.82	0.00	1.41	4.1	3.896
17.500	0.000	7.62	0.00	1.42	4.1	3.920
17.583	0.000	7.43	0.00	1.42	4.1	3.943
17.667	0.000	7.26	0.00	1.43	4.1	3.965
17.750	0.000	7.11	0.00	1.43	4.1	3.986
17.833	0.000	6.96	0.00	1.43	4.1	4.005
17.917	0.000	6.82	0.00	1.44	4.1	4.024
18.000	0.000	6.70	0.00	1.44	4.1	4.041
18.083	0.000	6.52	0.00	1.44	4.1	4.058
18.167	0.000	6.07	0.00	1.45	4.1	4.071
18.250	0.000	5.55	0.00	1.45	4.1	4.081
18.333	0.000	5.29	0.00	1.45	4.1	4.089
18.417	0.000	5.15	0.00	1.45	4.1	4.096
18.500	0.000	5.05	0.00	1.45	4.1	4.102
18.583	0.000	4.96	0.00	1.45	4.1	4.108
18.667	0.000	4.87	0.00	1.45	4.1	4.113
18.750	0.000	4.79	0.00	1.46	4.1	4.117
18.833	0.000	4.71	0.00	1.46	4.1	4.121
18.917	0.000	4.64	0.00	1.46	4.1	4.124
19.000	0.000	4.57	0.00	1.46	4.1	4.127
19.083	0.000	4.51	0.00	1.46	4.1	4.130
19.167	0.000	4.45	0.00	1.46	4.1	4.132

19.250	0.000	4.39	0.00	1.46	4.1	4.134
19.333	0.000	4.33	0.00	1.46	4.1	4.135
19.417	0.000	4.27	0.00	1.46	4.1	4.136
19.500	0.000	4.22	0.00	1.46	4.1	4.136
19.583	0.000	4.17	0.00	1.46	4.1	4.136
19.667	0.000	4.12	0.00	1.46	4.1	4.136
19.750	0.000	4.07	0.00	1.46	4.1	4.135
19.833	0.000	4.02	0.00	1.46	4.1	4.135
19.917	0.000	3.98	0.00	1.46	4.1	4.133
20.000	0.000	3.94	0.00	1.46	4.1	4.132
20.083	0.000	3.90	0.00	1.46	4.1	4.130
20.167	0.000	3.85	0.00	1.46	4.1	4.128
20.250	0.000	3.82	0.00	1.46	4.1	4.126
20.333	0.000	3.78	0.00	1.46	4.1	4.123
20.417	0.000	3.74	0.00	1.46	4.1	4.121
20.500	0.000	3.71	0.00	1.46	4.1	4.118
20.583	0.000	3.67	0.00	1.45	4.1	4.114
20.667	0.000	3.64	0.00	1.45	4.1	4.111
20.750	0.000	3.60	0.00	1.45	4.1	4.107
20.833	0.000	3.57	0.00	1.45	4.1	4.103
20.917	0.000	3.54	0.00	1.45	4.1	4.099
21.000	0.000	3.51	0.00	1.45	4.1	4.095
21.083	0.000	3.48	0.00	1.45	4.1	4.090
21.167	0.000	3.45	0.00	1.45	4.1	4.085
21.250	0.000	3.42	0.00	1.45	4.1	4.081
21.333	0.000	3.40	0.00	1.45	4.1	4.075
21.417	0.000	3.37	0.00	1.45	4.1	4.070
21.500	0.000	3.34	0.00	1.45	4.1	4.065
21.583	0.000	3.32	0.00	1.44	4.1	4.059
21.667	0.000	3.29	0.00	1.44	4.1	4.053
21.750	0.000	3.27	0.00	1.44	4.1	4.047
21.833	0.000	3.25	0.00	1.44	4.1	4.041
21.917	0.000	3.22	0.00	1.44	4.1	4.035
22.000	0.000	3.20	0.00	1.44	4.1	4.029
22.083	0.000	3.18	0.00	1.44	4.1	4.022
22.167	0.000	3.16	0.00	1.44	4.1	4.015
22.250	0.000	3.13	0.00	1.43	4.1	4.009
22.333	0.000	3.11	0.00	1.43	4.1	4.002
22.417	0.000	3.09	0.00	1.43	4.1	3.994
22.500	0.000	3.07	0.00	1.43	4.1	3.987
22.583	0.000	3.05	0.00	1.43	4.1	3.980
22.667	0.000	3.03	0.00	1.43	4.1	3.972
22.750	0.000	3.01	0.00	1.43	4.1	3.965
22.833	0.000	3.00	0.00	1.42	4.1	3.957
22.917	0.000	2.98	0.00	1.42	4.1	3.949
23.000	0.000	2.96	0.00	1.42	4.1	3.941
23.083	0.000	2.94	0.00	1.42	4.1	3.933
23.167	0.000	2.92	0.00	1.42	4.1	3.925
23.250	0.000	2.91	0.00	1.42	4.1	3.917
23.333	0.000	2.89	0.00	1.42	4.1	3.909
23.417	0.000	2.87	0.00	1.41	4.1	3.900
23.500	0.000	2.86	0.00	1.41	4.1	3.891
23.583	0.000	2.84	0.00	1.41	4.1	3.883
23.667	0.000	2.83	0.00	1.41	4.1	3.874
23.750	0.000	2.81	0.00	1.41	4.1	3.865
23.833	0.000	2.80	0.00	1.41	4.1	3.856
23.917	0.000	2.78	0.00	1.40	4.1	3.847

Q_{100} (DISCHARGE) = 4.1 CFS
PONDING DEPTH = 1.46 FT
VOLUME STORED = 4.136 AC-FT

PROCESS SUMMARY OF STORAGE:
INFLOW VOLUME = 10.644 AF
BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)
OUTFLOW VOLUME = 10.644 AF
LOSS VOLUME = 0.000 AF

==========

END OF FLOODSCx ROUTING ANALYSIS

Job #3654 Grove Business Center, Ontario
Volume in Building 1 East Truck Yard, Node 261

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
658.19	0.00	0				
			1648	1648	0.04	2.9
658.40	0.21	15700				
			8109	9758	0.22	3.1
658.60	0.41	65390				
			19025	28783	0.66	3.3
658.80	0.61	124860				
			27938	56721	1.30	3.5
659.00	0.81	154520				
			33261	89982	2.07	3.7
659.20	1.01	178090				
			37732	127714	2.93	3.9
659.40	1.21	199230				
			41193	168907	3.88	4.1
659.60	1.41	212700				
			43890	212797	4.89	4.3
659.80	1.61	226200				
			22960	235756	5.41	4.4
659.90	1.71	233000				

```
**************************************************************************

            F L O O D    R O U T I N G    A N A L Y S I S
         USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)
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                        Analysis prepared by:



 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO                             *
* 100-YEAR DETENTION                                                     *
* BUILDING 1 EAST TRUCK YARD, NODE 261                                   *
 ************************************************************************

  FILE NAME: W:\3654\BLDG1E.DAT
  TIME/DATE OF STUDY: 23:07 12/12/2020


**************************************************************************
  FLOW PROCESS FROM NODE    261.00 TO NODE    261.00 IS CODE =   1
--------------------------------------------------------------------------
  >>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<
==========================================================================

      (UNIT-HYDROGRAPH ADDED TO STREAM #1)

         WATERSHED AREA =      23.400 ACRES
         BASEFLOW =   0.000 CFS/SQUARE-MILE
         *USER ENTERED "LAG" TIME =    0.128 HOURS
          CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.
          THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)
          MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.
         VALLEY(DEVELOPED) S-GRAPH SELECTED
         MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) =  0.042
         LOW LOSS FRACTION = 0.079
         *HYDROGRAPH MODEL #1 SPECIFIED*

         SPECIFIED PEAK  5-MINUTES RAINFALL(INCH)=  0.37
         SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)=  0.75
         SPECIFIED PEAK  1-HOUR RAINFALL(INCH) =  1.00
         SPECIFIED PEAK  3-HOUR RAINFALL(INCH) =  1.90
         SPECIFIED PEAK  6-HOUR RAINFALL(INCH) =  2.90
         SPECIFIED PEAK 24-HOUR RAINFALL(INCH) =  5.90

         PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
           5-MINUTE FACTOR = 0.999
          30-MINUTE FACTOR = 0.999
           1-HOUR FACTOR = 0.999
           3-HOUR FACTOR = 1.000
           6-HOUR FACTOR = 1.000
          24-HOUR FACTOR = 1.000

         UNIT HYDROGRAPH TIME UNIT =   5.000 MINUTES
         UNIT INTERVAL PERCENTAGE OF LAG-TIME =  65.104


==========================================================================
                    UNIT HYDROGRAPH DETERMINATION

--------------------------------------------------------------------------
    INTERVAL          "S" GRAPH          UNIT HYDROGRAPH
     NUMBER         MEAN VALUES          ORDINATES(CFS)
--------------------------------------------------------------------------
        1                7.520               21.281
        2               47.265              112.475
        3               85.866              109.240
        4               97.069               31.703
        5               99.072                5.667
        6               99.629                1.576
```

7	99.907	0.788
8	100.000	0.263

****

UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0114
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118
66	0.0128	0.0010	0.0118
67	0.0129	0.0010	0.0119

68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185
143	0.0203	0.0016	0.0187
144	0.0204	0.0016	0.0188

145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0250
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0311	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0301
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0351	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0369	0.0029	0.0339
178	0.0375	0.0030	0.0346
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0384
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0344
187	0.0423	0.0033	0.0389
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0587	0.0035	0.0552
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3696	0.0035	0.3661
194	0.0684	0.0035	0.0649
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0334
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0305
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182
220	0.0194	0.0015	0.0179
221	0.0191	0.0015	0.0176

222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90
TOTAL SOIL-LOSS(INCHES) = 0.43
TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.8324
TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 10.6665

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2 4 - H O U R S T O R M
R U N O F F H Y D R O G R A P H

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0. 15.0 30.0 45.0 60.0
0.083	0.0014	0.21	Q . . . .
0.167	0.0103	1.29	Q . . . .
0.250	0.0265	2.35	VQ . . . .
0.333	0.0449	2.67	VQ . . . .
0.417	0.0637	2.73	VQ . . . .
0.500	0.0826	2.75	VQ . . . .
0.583	0.1017	2.77	VQ . . . .
0.667	0.1208	2.77	VQ . . . .
0.750	0.1400	2.78	VQ . . . .
0.833	0.1592	2.79	VQ . . . .
0.917	0.1784	2.80	VQ . . . .
1.000	0.1977	2.80	VQ . . . .
1.083	0.2171	2.81	VQ . . . .
1.167	0.2365	2.82	VQ . . . .
1.250	0.2560	2.83	VQ . . . .
1.333	0.2755	2.83	.Q . . . .
1.417	0.2951	2.84	.Q . . . .
1.500	0.3147	2.85	.Q . . . .
1.583	0.3344	2.86	.Q . . . .
1.667	0.3542	2.87	.Q . . . .
1.750	0.3739	2.87	.Q . . . .
1.833	0.3938	2.88	.Q . . . .
1.917	0.4137	2.89	.Q . . . .
2.000	0.4337	2.90	.Q . . . .
2.083	0.4537	2.91	.Q . . . .
2.167	0.4738	2.92	.Q . . . .
2.250	0.4939	2.92	.Q . . . .
2.333	0.5141	2.93	.Q . . . .
2.417	0.5344	2.94	.QV . . . .
2.500	0.5547	2.95	.QV . . . .
2.583	0.5751	2.96	.QV . . . .
2.667	0.5955	2.97	.QV . . . .
2.750	0.6160	2.98	.QV . . . .
2.833	0.6366	2.99	.QV . . . .
2.917	0.6572	2.99	.QV . . . .
3.000	0.6779	3.00	. Q . . . .
3.083	0.6986	3.01	. Q . . . .
3.167	0.7195	3.02	. Q . . . .
3.250	0.7403	3.03	. Q . . . .
3.333	0.7613	3.04	. Q . . . .
3.417	0.7823	3.05	. Q . . . .
3.500	0.8034	3.06	. QV . . . .
3.583	0.8245	3.07	. QV . . . .
3.667	0.8457	3.08	. QV . . . .
3.750	0.8670	3.09	. QV . . . .
3.833	0.8884	3.10	. QV . . . .
3.917	0.9098	3.11	. QV . . . .
4.000	0.9313	3.12	. QV . . . .
4.083	0.9529	3.13	. QV . . . .
4.167	0.9745	3.14	. QV . . . .
4.250	0.9962	3.15	. QV . . . .
4.333	1.0180	3.16	. QV . . . .
4.417	1.0399	3.17	. QV . . . .
4.500	1.0618	3.19	. QV . . . .
4.583	1.0839	3.20	. Q V . . . .
4.667	1.1060	3.21	. Q V . . . .
4.750	1.1281	3.22	. Q V . . . .
4.833	1.1504	3.23	. Q V . . . .
4.917	1.1727	3.24	. Q V . . . .
5.000	1.1951	3.25	. Q V . . . .
5.083	1.2176	3.27	. Q V . . . .
5.167	1.2402	3.28	. Q V . . . .
5.250	1.2629	3.29	. Q V . . . .
5.333	1.2856	3.30	. Q V . . . .
5.417	1.3084	3.32	. Q V . . . .
5.500	1.3314	3.33	. Q V . . . .

5.583	1.3544	3.34	.	Q	V	.	.	.	.
5.667	1.3775	3.35	.	Q	V	.	.	.	.
5.750	1.4007	3.37	.	Q	V	.	.	.	.
5.833	1.4239	3.38	.	Q	V	.	.	.	.
5.917	1.4473	3.39	.	Q	V	.	.	.	.
6.000	1.4708	3.41	.	Q	V	.	.	.	.
6.083	1.4943	3.42	.	Q	V	.	.	.	.
6.167	1.5180	3.43	.	Q	V	.	.	.	.
6.250	1.5417	3.45	.	Q	V	.	.	.	.
6.333	1.5655	3.46	.	Q	V	.	.	.	.
6.417	1.5895	3.48	.	Q	V	.	.	.	.
6.500	1.6135	3.49	.	Q	V	.	.	.	.
6.583	1.6377	3.51	.	Q	V	.	.	.	.
6.667	1.6619	3.52	.	Q	V	.	.	.	.
6.750	1.6863	3.54	.	Q	V	.	.	.	.
6.833	1.7107	3.55	.	Q	V	.	.	.	.
6.917	1.7353	3.57	.	Q	V	.	.	.	.
7.000	1.7599	3.58	.	Q	V	.	.	.	.
7.083	1.7847	3.60	.	Q	V	.	.	.	.
7.167	1.8096	3.61	.	Q	V	.	.	.	.
7.250	1.8346	3.63	.	Q	V	.	.	.	.
7.333	1.8597	3.65	.	Q	V	.	.	.	.
7.417	1.8850	3.66	.	Q	V	.	.	.	.
7.500	1.9103	3.68	.	Q	V	.	.	.	.
7.583	1.9358	3.70	.	Q	V	.	.	.	.
7.667	1.9614	3.72	.	Q	V	.	.	.	.
7.750	1.9871	3.73	.	Q	V	.	.	.	.
7.833	2.0129	3.75	.	Q	V	.	.	.	.
7.917	2.0389	3.77	.	Q	V	.	.	.	.
8.000	2.0650	3.79	.	Q	V	.	.	.	.
8.083	2.0912	3.81	.	Q	V	.	.	.	.
8.167	2.1176	3.83	.	Q	V	.	.	.	.
8.250	2.1440	3.85	.	Q	V	.	.	.	.
8.333	2.1707	3.87	.	Q	V	.	.	.	.
8.417	2.1974	3.89	.	Q	V	.	.	.	.
8.500	2.2243	3.91	.	Q	V	.	.	.	.
8.583	2.2514	3.93	.	Q	V	.	.	.	.
8.667	2.2786	3.95	.	Q	V	.	.	.	.
8.750	2.3059	3.97	.	Q	V	.	.	.	.
8.833	2.3334	3.99	.	Q	V	.	.	.	.
8.917	2.3611	4.01	.	Q	V	.	.	.	.
9.000	2.3889	4.04	.	Q	V	.	.	.	.
9.083	2.4168	4.06	.	Q	V	.	.	.	.
9.167	2.4449	4.08	.	Q	V	.	.	.	.
9.250	2.4732	4.11	.	Q	V	.	.	.	.
9.333	2.5017	4.13	.	Q	V	.	.	.	.
9.417	2.5303	4.16	.	Q	V	.	.	.	.
9.500	2.5591	4.18	.	Q	V	.	.	.	.
9.583	2.5880	4.21	.	Q	V	.	.	.	.
9.667	2.6172	4.23	.	Q	V	.	.	.	.
9.750	2.6465	4.26	.	Q	V	.	.	.	.
9.833	2.6760	4.29	.	Q	V	.	.	.	.
9.917	2.7057	4.31	.	Q	V	.	.	.	.
10.000	2.7356	4.34	.	Q	V	.	.	.	.
10.083	2.7657	4.37	.	Q	V	.	.	.	.
10.167	2.7960	4.40	.	Q	V	.	.	.	.
10.250	2.8265	4.43	.	Q	V	.	.	.	.
10.333	2.8573	4.46	.	Q	V	.	.	.	.
10.417	2.8882	4.49	.	Q	V	.	.	.	.
10.500	2.9193	4.52	.	Q	V	.	.	.	.
10.583	2.9507	4.56	.	Q	.V	.	.	.	.
10.667	2.9823	4.59	.	Q	.V	.	.	.	.
10.750	3.0142	4.62	.	Q	.V	.	.	.	.
10.833	3.0462	4.66	.	Q	.V	.	.	.	.
10.917	3.0786	4.69	.	Q	.V	.	.	.	.
11.000	3.1111	4.73	.	Q	.V	.	.	.	.
11.083	3.1440	4.77	.	Q	.V	.	.	.	.
11.167	3.1771	4.81	.	Q	.V	.	.	.	.
11.250	3.2104	4.84	.	Q	. V	.	.	.	.
11.333	3.2441	4.89	.	Q	. V	.	.	.	.
11.417	3.2780	4.93	.	Q	. V	.	.	.	.
11.500	3.3122	4.97	.	Q	. V	.	.	.	.
11.583	3.3468	5.01	.	Q	. V	.	.	.	.
11.667	3.3816	5.06	.	Q	. V	.	.	.	.
11.750	3.4167	5.10	.	Q	. V	.	.	.	.
11.833	3.4522	5.15	.	Q	. V	.	.	.	.
11.917	3.4880	5.20	.	Q	. V	.	.	.	.

12.000	3.5242	5.25	. Q . V . . .
12.083	3.5612	5.38	. Q . V . . .
12.167	3.6014	5.84	. Q . V . . .
12.250	3.6447	6.29	. Q . V . . .
12.333	3.6892	6.46	. Q . V . . .
12.417	3.7342	6.53	. Q . V . . .
12.500	3.7796	6.60	. Q . V . . .
12.583	3.8254	6.66	. Q . V . . .
12.667	3.8717	6.72	. Q . V . . .
12.750	3.9184	6.78	. Q . V . . .
12.833	3.9656	6.85	. Q . V . . .
12.917	4.0132	6.91	. Q . V . . .
13.000	4.0613	6.98	. Q . V . . .
13.083	4.1099	7.05	. Q . V . . .
13.167	4.1590	7.13	. Q . V . . .
13.250	4.2086	7.21	. Q . V . . .
13.333	4.2588	7.29	. Q . V . . .
13.417	4.3096	7.37	. Q . V . . .
13.500	4.3610	7.46	. Q . V . . .
13.583	4.4130	7.55	. Q . V . . .
13.667	4.4657	7.65	. Q . V . . .
13.750	4.5190	7.75	. Q . V . . .
13.833	4.5731	7.85	. Q . V . . .
13.917	4.6280	7.96	. Q . V . . .
14.000	4.6836	8.08	. Q . V . . .
14.083	4.7400	8.18	. Q . V . . .
14.167	4.7962	8.17	. Q . V . . .
14.250	4.8525	8.17	. Q . V . . .
14.333	4.9096	8.29	. Q . V . . .
14.417	4.9677	8.43	. Q . V . . .
14.500	5.0269	8.60	. Q . V . . .
14.583	5.0874	8.78	. Q . V. . . .
14.667	5.1492	8.98	. Q . V. . . .
14.750	5.2125	9.19	. Q . V. . . .
14.833	5.2774	9.42	. Q . V. . . .
14.917	5.3439	9.66	. Q . V . . .
15.000	5.4124	9.94	. Q . V . . .
15.083	5.4829	10.24	. Q . V . . .
15.167	5.5558	10.58	. Q . V . . .
15.250	5.6312	10.95	. Q . .V . . .
15.333	5.7097	11.39	. Q . .V . . .
15.417	5.7896	11.61	. Q . .V . . .
15.500	5.8635	10.72	. Q . .V . . .
15.583	5.9321	9.96	. Q . . V . . .
15.667	6.0039	10.42	. Q . . V . . .
15.750	6.0824	11.40	. Q . . V . . .
15.833	6.1702	12.75	. Q . . V . . .
15.917	6.2726	14.87	. Q. . V . . .
16.000	6.4061	19.38	. . Q . V . . .
16.083	6.6225	31.42	. . Q V . . .
16.167	7.0211	57.87	. . . V . . Q .
16.250	7.3822	52.45	. . . V . Q .
16.333	7.5577	25.47	. . Q . V . . .
16.417	7.6573	14.46	. Q. . V . . .
16.500	7.7423	12.35	. Q . . V. . .
16.583	7.8251	12.02	. Q . . V. . .
16.667	7.9023	11.21	. Q . . V. . .
16.750	7.9740	10.41	. Q . . V. . .
16.833	8.0415	9.80	. Q . . V . . .
16.917	8.1056	9.31	. Q . . V . . .
17.000	8.1667	8.88	. Q . . V . . .
17.083	8.2256	8.54	. Q . . V . . .
17.167	8.2832	8.36	. Q . . .V . . .
17.250	8.3398	8.22	. Q . . .V . . .
17.333	8.3949	8.01	. Q . . .V . . .
17.417	8.4486	7.80	. Q . . .V . . .
17.500	8.5009	7.60	. Q . . .V . . .
17.583	8.5520	7.41	. Q . . . V . . .
17.667	8.6019	7.25	. Q . . . V . . .
17.750	8.6507	7.09	. Q . . . V . . .
17.833	8.6986	6.95	. Q . . . V . . .
17.917	8.7455	6.81	. Q . . . V . . .
18.000	8.7915	6.69	. Q . . . V . . .
18.083	8.8362	6.49	. Q . . . . V . .
18.167	8.8773	5.97	. Q . . . . V . .
18.250	8.9150	5.47	. Q . . . . V . .
18.333	8.9512	5.25	. Q . . . . V . .

18.417	8.9865	5.13	.	Q	.	.	.	V	.	
18.500	9.0212	5.04	.	Q	.	.	.	V	.	
18.583	9.0553	4.95	.	Q	.	.	.	V	.	
18.667	9.0888	4.86	.	Q	.	.	.	V	.	
18.750	9.1217	4.78	.	Q	.	.	.	V	.	
18.833	9.1541	4.71	.	Q	.	.	.	V	.	
18.917	9.1861	4.64	.	Q	.	.	.	V	.	
19.000	9.2176	4.57	.	Q	.	.	.	V	.	
19.083	9.2486	4.51	.	Q	.	.	.	V	.	
19.167	9.2792	4.44	.	Q	.	.	.	V	.	
19.250	9.3094	4.38	.	Q	.	.	.	V	.	
19.333	9.3392	4.33	.	Q	.	.	.	V	.	
19.417	9.3686	4.27	.	Q	.	.	.	V	.	
19.500	9.3976	4.22	.	Q	.	.	.	V	.	
19.583	9.4263	4.17	.	Q	.	.	.	V	.	
19.667	9.4547	4.12	.	Q	.	.	.	V	.	
19.750	9.4827	4.07	.	Q	.	.	.	V	.	
19.833	9.5104	4.02	.	Q	.	.	.	V	.	
19.917	9.5378	3.98	.	Q	.	.	.	V	.	
20.000	9.5649	3.94	.	Q	.	.	.	V	.	
20.083	9.5917	3.89	.	Q	.	.	.	V	.	
20.167	9.6183	3.85	.	Q	.	.	.	V	.	
20.250	9.6446	3.82	.	Q	.	.	.	V	.	
20.333	9.6706	3.78	.	Q	.	.	.	V	.	
20.417	9.6964	3.74	.	Q	.	.	.	V	.	
20.500	9.7219	3.71	.	Q	.	.	.	V	.	
20.583	9.7472	3.67	.	Q	.	.	.	V	.	
20.667	9.7722	3.64	.	Q	.	.	.	V	.	
20.750	9.7970	3.60	.	Q	.	.	.	V	.	
20.833	9.8217	3.57	.	Q	.	.	.	V	.	
20.917	9.8460	3.54	.	Q	.	.	.	V	.	
21.000	9.8702	3.51	.	Q	.	.	.	V	.	
21.083	9.8942	3.48	.	Q	.	.	.	V	.	
21.167	9.9180	3.45	.	Q	.	.	.	V	.	
21.250	9.9416	3.43	.	Q	.	.	.	V	.	
21.333	9.9650	3.40	.	Q	.	.	.	V	.	
21.417	9.9882	3.37	.	Q	.	.	.	V	.	
21.500	10.0113	3.35	.	Q	.	.	.	V	.	
21.583	10.0341	3.32	.	Q	.	.	.	V	.	
21.667	10.0568	3.30	.	Q	.	.	.	V	.	
21.750	10.0794	3.27	.	Q	.	.	.	V	.	
21.833	10.1017	3.25	.	Q	.	.	.	V	.	
21.917	10.1239	3.22	.	Q	.	.	.	V	.	
22.000	10.1460	3.20	.	Q	.	.	.	V	.	
22.083	10.1679	3.18	.	Q	.	.	.	V	.	
22.167	10.1896	3.16	.	Q	.	.	.	V	.	
22.250	10.2112	3.14	.	Q	.	.	.	V	.	
22.333	10.2327	3.12	.	Q	.	.	.	V	.	
22.417	10.2540	3.10	.	Q	.	.	.	V	.	
22.500	10.2752	3.08	.	Q	.	.	.	V	.	
22.583	10.2962	3.06	.	Q	.	.	.	V	.	
22.667	10.3171	3.04	.	Q	.	.	.	V	.	
22.750	10.3379	3.02	.	Q	.	.	.	V	.	
22.833	10.3586	3.00	.	Q	.	.	.	V	.	
22.917	10.3791	2.98	.	Q	.	.	.	V	.	
23.000	10.3995	2.96	.	Q	.	.	.	V	.	
23.083	10.4198	2.94	.	Q	.	.	.	V	.	
23.167	10.4399	2.93	.	Q	.	.	.	V	.	
23.250	10.4600	2.91	.	Q	.	.	.	V	.	
23.333	10.4799	2.89	.	Q	.	.	.	V	.	
23.417	10.4997	2.88	.	Q	.	.	.	V	.	
23.500	10.5195	2.86	.	Q	.	.	.	V	.	
23.583	10.5391	2.85	.	Q	.	.	.	V	.	
23.667	10.5585	2.83	.	Q	.	.	.	V	.	
23.750	10.5779	2.82	.	Q	.	.	.	V	.	
23.833	10.5972	2.80	.	Q	.	.	.	V	.	
23.917	10.6164	2.79	.	Q	.	.	.	V	.	
24.000	10.6355	2.77	.	Q	.	.	.	V	.	
24.083	10.6530	2.55	.	Q	.	.	.	V	.	
24.167	10.6630	1.45	.	Q	.	.	.	V	.	
24.250	10.6657	0.39	.	Q	.	.	.	V	.	
24.333	10.6663	0.08	.	Q	.	.	.	V	.	
24.417	10.6665	0.03	.	Q	.	.	.	V	.	
24.500	10.6665	0.01	.	Q	.	.	.	V	.	
24.583	10.6665	0.00	.	Q	.	.	.	V	.	

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1475.0
10%	365.0
20%	55.0
30%	25.0
40%	20.0
50%	15.0
60%	10.0
70%	10.0
80%	10.0
90%	10.0

****
FLOW PROCESS FROM NODE 261.00 TO NODE 261.00 IS CODE = 3.1

>>>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<<
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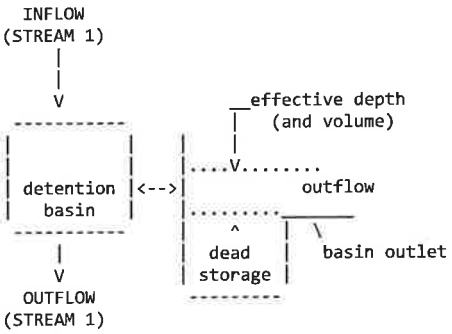

ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1
THROUGH A FLOW-THROUGH DETENTION BASIN
SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
DEAD STORAGE(AF) = 0.000
SPECIFIED DEAD STORAGE(AF) FILLED = 0.000
SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000
DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.21	2.90	0.040
3	0.41	3.10	0.220
4	0.61	3.30	0.660
5	0.81	3.50	1.300
6	1.01	3.70	2.070
7	1.21	3.90	2.930
8	1.41	4.10	3.880
9	1.61	4.30	4.890
10	1.71	4.40	5.410

==========
MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):
(Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;
MEAN OUTFLOW is the average value during the unit interval.)

CLOCK TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	EFFECTIVE DEPTH(FT)	MEAN OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.083	0.000	0.21	0.00	0.01	0.0	0.001

0.167	0.000	1.29	0.00	0.04	0.3	0.008
0.250	0.000	2.35	0.00	0.09	0.9	0.018
0.333	0.000	2.67	0.00	0.13	1.6	0.025
0.417	0.000	2.73	0.00	0.16	2.0	0.030
0.500	0.000	2.75	0.00	0.17	2.3	0.033
0.583	0.000	2.77	0.00	0.18	2.5	0.035
0.667	0.000	2.77	0.00	0.19	2.6	0.036
0.750	0.000	2.78	0.00	0.20	2.7	0.037
0.833	0.000	2.79	0.00	0.20	2.7	0.038
0.917	0.000	2.80	0.00	0.20	2.7	0.038
1.000	0.000	2.80	0.00	0.20	2.8	0.038
1.083	0.000	2.81	0.00	0.20	2.8	0.038
1.167	0.000	2.82	0.00	0.20	2.8	0.039
1.250	0.000	2.83	0.00	0.20	2.8	0.039
1.333	0.000	2.83	0.00	0.20	2.8	0.039
1.417	0.000	2.84	0.00	0.20	2.8	0.039
1.500	0.000	2.85	0.00	0.21	2.8	0.039
1.583	0.000	2.86	0.00	0.21	2.8	0.039
1.667	0.000	2.87	0.00	0.21	2.9	0.039
1.750	0.000	2.87	0.00	0.21	2.9	0.039
1.833	0.000	2.88	0.00	0.21	2.9	0.040
1.917	0.000	2.89	0.00	0.21	2.9	0.040
2.000	0.000	2.90	0.00	0.21	2.9	0.040
2.083	0.000	2.91	0.00	0.21	2.9	0.040
2.167	0.000	2.92	0.00	0.21	2.9	0.040
2.250	0.000	2.92	0.00	0.21	2.9	0.040
2.333	0.000	2.93	0.00	0.21	2.9	0.040
2.417	0.000	2.94	0.00	0.21	2.9	0.041
2.500	0.000	2.95	0.00	0.21	2.9	0.041
2.583	0.000	2.96	0.00	0.21	2.9	0.041
2.667	0.000	2.97	0.00	0.21	2.9	0.042
2.750	0.000	2.98	0.00	0.21	2.9	0.042
2.833	0.000	2.99	0.00	0.21	2.9	0.043
2.917	0.000	2.99	0.00	0.21	2.9	0.044
3.000	0.000	3.00	0.00	0.21	2.9	0.044
3.083	0.000	3.01	0.00	0.22	2.9	0.045
3.167	0.000	3.02	0.00	0.22	2.9	0.046
3.250	0.000	3.03	0.00	0.22	2.9	0.047
3.333	0.000	3.04	0.00	0.22	2.9	0.048
3.417	0.000	3.05	0.00	0.22	2.9	0.049
3.500	0.000	3.06	0.00	0.22	2.9	0.050
3.583	0.000	3.07	0.00	0.22	2.9	0.051
3.667	0.000	3.08	0.00	0.22	2.9	0.052
3.750	0.000	3.09	0.00	0.22	2.9	0.053
3.833	0.000	3.10	0.00	0.23	2.9	0.054
3.917	0.000	3.11	0.00	0.23	2.9	0.056
4.000	0.000	3.12	0.00	0.23	2.9	0.057
4.083	0.000	3.13	0.00	0.23	2.9	0.059
4.167	0.000	3.14	0.00	0.23	2.9	0.060
4.250	0.000	3.15	0.00	0.23	2.9	0.062
4.333	0.000	3.16	0.00	0.24	2.9	0.063
4.417	0.000	3.17	0.00	0.24	2.9	0.065
4.500	0.000	3.19	0.00	0.24	2.9	0.067
4.583	0.000	3.20	0.00	0.24	2.9	0.069
4.667	0.000	3.21	0.00	0.24	2.9	0.071
4.750	0.000	3.22	0.00	0.25	2.9	0.073
4.833	0.000	3.23	0.00	0.25	2.9	0.075
4.917	0.000	3.24	0.00	0.25	2.9	0.077
5.000	0.000	3.25	0.00	0.25	2.9	0.079
5.083	0.000	3.27	0.00	0.26	2.9	0.081
5.167	0.000	3.28	0.00	0.26	2.9	0.083
5.250	0.000	3.29	0.00	0.26	2.9	0.086
5.333	0.000	3.30	0.00	0.26	3.0	0.088
5.417	0.000	3.32	0.00	0.27	3.0	0.091
5.500	0.000	3.33	0.00	0.27	3.0	0.093
5.583	0.000	3.34	0.00	0.27	3.0	0.096
5.667	0.000	3.35	0.00	0.27	3.0	0.098
5.750	0.000	3.37	0.00	0.28	3.0	0.101
5.833	0.000	3.38	0.00	0.28	3.0	0.104
5.917	0.000	3.39	0.00	0.28	3.0	0.107
6.000	0.000	3.41	0.00	0.29	3.0	0.110
6.083	0.000	3.42	0.00	0.29	3.0	0.113
6.167	0.000	3.43	0.00	0.29	3.0	0.116
6.250	0.000	3.45	0.00	0.30	3.0	0.119
6.333	0.000	3.46	0.00	0.30	3.0	0.122
6.417	0.000	3.48	0.00	0.31	3.0	0.126
6.500	0.000	3.49	0.00	0.31	3.0	0.129

6.583	0.000	3.51	0.00	0.31	3.0	0.133
6.667	0.000	3.52	0.00	0.32	3.0	0.136
6.750	0.000	3.54	0.00	0.32	3.0	0.140
6.833	0.000	3.55	0.00	0.32	3.0	0.143
6.917	0.000	3.57	0.00	0.33	3.0	0.147
7.000	0.000	3.58	0.00	0.33	3.0	0.151
7.083	0.000	3.60	0.00	0.34	3.0	0.155
7.167	0.000	3.61	0.00	0.34	3.0	0.159
7.250	0.000	3.63	0.00	0.35	3.0	0.163
7.333	0.000	3.65	0.00	0.35	3.0	0.167
7.417	0.000	3.66	0.00	0.36	3.0	0.172
7.500	0.000	3.68	0.00	0.36	3.0	0.176
7.583	0.000	3.70	0.00	0.37	3.1	0.180
7.667	0.000	3.72	0.00	0.37	3.1	0.185
7.750	0.000	3.73	0.00	0.38	3.1	0.190
7.833	0.000	3.75	0.00	0.38	3.1	0.194
7.917	0.000	3.77	0.00	0.39	3.1	0.199
8.000	0.000	3.79	0.00	0.39	3.1	0.204
8.083	0.000	3.81	0.00	0.40	3.1	0.209
8.167	0.000	3.83	0.00	0.40	3.1	0.214
8.250	0.000	3.85	0.00	0.41	3.1	0.219
8.333	0.000	3.87	0.00	0.41	3.1	0.224
8.417	0.000	3.89	0.00	0.41	3.1	0.230
8.500	0.000	3.91	0.00	0.42	3.1	0.235
8.583	0.000	3.93	0.00	0.42	3.1	0.241
8.667	0.000	3.95	0.00	0.42	3.1	0.247
8.750	0.000	3.97	0.00	0.42	3.1	0.253
8.833	0.000	3.99	0.00	0.43	3.1	0.259
8.917	0.000	4.01	0.00	0.43	3.1	0.265
9.000	0.000	4.04	0.00	0.43	3.1	0.271
9.083	0.000	4.06	0.00	0.44	3.1	0.278
9.167	0.000	4.08	0.00	0.44	3.1	0.284
9.250	0.000	4.11	0.00	0.44	3.1	0.291
9.333	0.000	4.13	0.00	0.45	3.1	0.298
9.417	0.000	4.16	0.00	0.45	3.1	0.305
9.500	0.000	4.18	0.00	0.45	3.1	0.312
9.583	0.000	4.21	0.00	0.46	3.1	0.319
9.667	0.000	4.23	0.00	0.46	3.1	0.327
9.750	0.000	4.26	0.00	0.46	3.2	0.334
9.833	0.000	4.29	0.00	0.47	3.2	0.342
9.917	0.000	4.31	0.00	0.47	3.2	0.350
10.000	0.000	4.34	0.00	0.47	3.2	0.358
10.083	0.000	4.37	0.00	0.48	3.2	0.367
10.167	0.000	4.40	0.00	0.48	3.2	0.375
10.250	0.000	4.43	0.00	0.48	3.2	0.384
10.333	0.000	4.46	0.00	0.49	3.2	0.393
10.417	0.000	4.49	0.00	0.49	3.2	0.402
10.500	0.000	4.52	0.00	0.50	3.2	0.411
10.583	0.000	4.56	0.00	0.50	3.2	0.420
10.667	0.000	4.59	0.00	0.51	3.2	0.430
10.750	0.000	4.62	0.00	0.51	3.2	0.440
10.833	0.000	4.66	0.00	0.51	3.2	0.450
10.917	0.000	4.69	0.00	0.52	3.2	0.460
11.000	0.000	4.73	0.00	0.52	3.2	0.470
11.083	0.000	4.77	0.00	0.53	3.2	0.481
11.167	0.000	4.81	0.00	0.53	3.2	0.492
11.250	0.000	4.84	0.00	0.54	3.2	0.503
11.333	0.000	4.89	0.00	0.54	3.2	0.514
11.417	0.000	4.93	0.00	0.55	3.2	0.526
11.500	0.000	4.97	0.00	0.55	3.2	0.538
11.583	0.000	5.01	0.00	0.56	3.2	0.550
11.667	0.000	5.06	0.00	0.57	3.3	0.563
11.750	0.000	5.10	0.00	0.57	3.3	0.575
11.833	0.000	5.15	0.00	0.58	3.3	0.588
11.917	0.000	5.20	0.00	0.58	3.3	0.602
12.000	0.000	5.25	0.00	0.59	3.3	0.615
12.083	0.000	5.38	0.00	0.60	3.3	0.630
12.167	0.000	5.84	0.00	0.60	3.3	0.647
12.250	0.000	6.29	0.00	0.61	3.3	0.668
12.333	0.000	6.46	0.00	0.62	3.3	0.689
12.417	0.000	6.53	0.00	0.63	3.3	0.712
12.500	0.000	6.60	0.00	0.63	3.3	0.734
12.583	0.000	6.66	0.00	0.64	3.3	0.757
12.667	0.000	6.72	0.00	0.65	3.3	0.780
12.750	0.000	6.78	0.00	0.66	3.3	0.804
12.833	0.000	6.85	0.00	0.66	3.3	0.828
12.917	0.000	6.91	0.00	0.67	3.4	0.853

13.000	0.000	6.98	0.00	0.68	3.4	0.878
13.083	0.000	7.05	0.00	0.69	3.4	0.903
13.167	0.000	7.13	0.00	0.69	3.4	0.929
13.250	0.000	7.21	0.00	0.70	3.4	0.955
13.333	0.000	7.29	0.00	0.71	3.4	0.982
13.417	0.000	7.37	0.00	0.72	3.4	1.009
13.500	0.000	7.46	0.00	0.73	3.4	1.037
13.583	0.000	7.55	0.00	0.74	3.4	1.066
13.667	0.000	7.65	0.00	0.75	3.4	1.095
13.750	0.000	7.75	0.00	0.76	3.4	1.124
13.833	0.000	7.85	0.00	0.76	3.4	1.155
13.917	0.000	7.96	0.00	0.77	3.5	1.186
14.000	0.000	8.08	0.00	0.78	3.5	1.217
14.083	0.000	8.18	0.00	0.79	3.5	1.250
14.167	0.000	8.17	0.00	0.80	3.5	1.282
14.250	0.000	8.17	0.00	0.81	3.5	1.314
14.333	0.000	8.29	0.00	0.82	3.5	1.347
14.417	0.000	8.43	0.00	0.83	3.5	1.381
14.500	0.000	8.60	0.00	0.84	3.5	1.416
14.583	0.000	8.78	0.00	0.85	3.5	1.452
14.667	0.000	8.98	0.00	0.86	3.5	1.490
14.750	0.000	9.19	0.00	0.87	3.6	1.528
14.833	0.000	9.42	0.00	0.88	3.6	1.569
14.917	0.000	9.66	0.00	0.89	3.6	1.611
15.000	0.000	9.94	0.00	0.90	3.6	1.654
15.083	0.000	10.24	0.00	0.91	3.6	1.700
15.167	0.000	10.58	0.00	0.93	3.6	1.748
15.250	0.000	10.95	0.00	0.94	3.6	1.799
15.333	0.000	11.39	0.00	0.95	3.6	1.852
15.417	0.000	11.61	0.00	0.97	3.7	1.907
15.500	0.000	10.72	0.00	0.98	3.7	1.955
15.583	0.000	9.96	0.00	0.99	3.7	1.999
15.667	0.000	10.42	0.00	1.00	3.7	2.045
15.750	0.000	11.40	0.00	1.02	3.7	2.098
15.833	0.000	12.75	0.00	1.03	3.7	2.160
15.917	0.000	14.87	0.00	1.05	3.7	2.237
16.000	0.000	19.38	0.00	1.07	3.8	2.345
16.083	0.000	31.42	0.00	1.12	3.8	2.535
16.167	0.000	57.87	0.00	1.20	3.9	2.907
16.250	0.000	52.45	0.00	1.28	3.9	3.241
16.333	0.000	25.47	0.00	1.31	4.0	3.389
16.417	0.000	14.46	0.00	1.32	4.0	3.461
16.500	0.000	12.35	0.00	1.33	4.0	3.519
16.583	0.000	12.02	0.00	1.35	4.0	3.574
16.667	0.000	11.21	0.00	1.36	4.0	3.623
16.750	0.000	10.41	0.00	1.37	4.1	3.667
16.833	0.000	9.80	0.00	1.37	4.1	3.706
16.917	0.000	9.31	0.00	1.38	4.1	3.742
17.000	0.000	8.88	0.00	1.39	4.1	3.776
17.083	0.000	8.54	0.00	1.39	4.1	3.806
17.167	0.000	8.36	0.00	1.40	4.1	3.836
17.250	0.000	8.22	0.00	1.41	4.1	3.864
17.333	0.000	8.01	0.00	1.41	4.1	3.891
17.417	0.000	7.80	0.00	1.42	4.1	3.916
17.500	0.000	7.60	0.00	1.42	4.1	3.940
17.583	0.000	7.41	0.00	1.43	4.1	3.963
17.667	0.000	7.25	0.00	1.43	4.1	3.985
17.750	0.000	7.09	0.00	1.43	4.1	4.005
17.833	0.000	6.95	0.00	1.44	4.1	4.025
17.917	0.000	6.81	0.00	1.44	4.1	4.043
18.000	0.000	6.69	0.00	1.45	4.1	4.061
18.083	0.000	6.49	0.00	1.45	4.1	4.077
18.167	0.000	5.97	0.00	1.45	4.1	4.089
18.250	0.000	5.47	0.00	1.45	4.1	4.099
18.333	0.000	5.25	0.00	1.45	4.1	4.106
18.417	0.000	5.13	0.00	1.46	4.1	4.113
18.500	0.000	5.04	0.00	1.46	4.1	4.119
18.583	0.000	4.95	0.00	1.46	4.1	4.125
18.667	0.000	4.86	0.00	1.46	4.1	4.130
18.750	0.000	4.78	0.00	1.46	4.1	4.134
18.833	0.000	4.71	0.00	1.46	4.2	4.138
18.917	0.000	4.64	0.00	1.46	4.2	4.141
19.000	0.000	4.57	0.00	1.46	4.2	4.144
19.083	0.000	4.51	0.00	1.46	4.2	4.146
19.167	0.000	4.44	0.00	1.46	4.2	4.148
19.250	0.000	4.38	0.00	1.46	4.2	4.150
19.333	0.000	4.33	0.00	1.46	4.2	4.151

BLDG1E.RES

19.417	0.000	4.27	0.00	1.46	4.2	4.152
19.500	0.000	4.22	0.00	1.46	4.2	4.152
19.583	0.000	4.17	0.00	1.46	4.2	4.152
19.667	0.000	4.12	0.00	1.46	4.2	4.152
19.750	0.000	4.07	0.00	1.46	4.2	4.152
19.833	0.000	4.02	0.00	1.46	4.2	4.151
19.917	0.000	3.98	0.00	1.46	4.2	4.150
20.000	0.000	3.94	0.00	1.46	4.2	4.148
20.083	0.000	3.89	0.00	1.46	4.2	4.146
20.167	0.000	3.85	0.00	1.46	4.2	4.144
20.250	0.000	3.82	0.00	1.46	4.2	4.142
20.333	0.000	3.78	0.00	1.46	4.2	4.139
20.417	0.000	3.74	0.00	1.46	4.2	4.137
20.500	0.000	3.71	0.00	1.46	4.2	4.133
20.583	0.000	3.67	0.00	1.46	4.1	4.130
20.667	0.000	3.64	0.00	1.46	4.1	4.127
20.750	0.000	3.60	0.00	1.46	4.1	4.123
20.833	0.000	3.57	0.00	1.46	4.1	4.119
20.917	0.000	3.54	0.00	1.46	4.1	4.115
21.000	0.000	3.51	0.00	1.46	4.1	4.110
21.083	0.000	3.48	0.00	1.45	4.1	4.106
21.167	0.000	3.45	0.00	1.45	4.1	4.101
21.250	0.000	3.43	0.00	1.45	4.1	4.096
21.333	0.000	3.40	0.00	1.45	4.1	4.091
21.417	0.000	3.37	0.00	1.45	4.1	4.086
21.500	0.000	3.35	0.00	1.45	4.1	4.080
21.583	0.000	3.32	0.00	1.45	4.1	4.075
21.667	0.000	3.30	0.00	1.45	4.1	4.069
21.750	0.000	3.27	0.00	1.45	4.1	4.063
21.833	0.000	3.25	0.00	1.44	4.1	4.057
21.917	0.000	3.22	0.00	1.44	4.1	4.050
22.000	0.000	3.20	0.00	1.44	4.1	4.044
22.083	0.000	3.18	0.00	1.44	4.1	4.038
22.167	0.000	3.16	0.00	1.44	4.1	4.031
22.250	0.000	3.14	0.00	1.44	4.1	4.024
22.333	0.000	3.12	0.00	1.44	4.1	4.017
22.417	0.000	3.10	0.00	1.44	4.1	4.010
22.500	0.000	3.08	0.00	1.43	4.1	4.003
22.583	0.000	3.06	0.00	1.43	4.1	3.995
22.667	0.000	3.04	0.00	1.43	4.1	3.988
22.750	0.000	3.02	0.00	1.43	4.1	3.980
22.833	0.000	3.00	0.00	1.43	4.1	3.973
22.917	0.000	2.98	0.00	1.43	4.1	3.965
23.000	0.000	2.96	0.00	1.43	4.1	3.957
23.083	0.000	2.94	0.00	1.42	4.1	3.949
23.167	0.000	2.93	0.00	1.42	4.1	3.941
23.250	0.000	2.91	0.00	1.42	4.1	3.932
23.333	0.000	2.89	0.00	1.42	4.1	3.924
23.417	0.000	2.88	0.00	1.42	4.1	3.915
23.500	0.000	2.86	0.00	1.42	4.1	3.907
23.583	0.000	2.85	0.00	1.41	4.1	3.898
23.667	0.000	2.83	0.00	1.41	4.1	3.889
23.750	0.000	2.82	0.00	1.41	4.1	3.881
23.833	0.000	2.80	0.00	1.41	4.1	3.872
23.917	0.000	2.79	0.00	1.41	4.1	3.863

← Q_{100} (DISCHARGE) = 4.2 CFS
PONDING DEPTH = 1.46 FT
VOLUME STORED = 4.152 AC-FT

PROCESS SUMMARY OF STORAGE:
INFLOW VOLUME = 10.667 AF
BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)
OUTFLOW VOLUME = 10.667 AF
LOSS VOLUME = 0.000 AF

==========

END OF FLOODSCx ROUTING ANALYSIS

Job #3654 Grove Business Center, Ontario
Volume in Building 2 North Truck Yard, Node 205

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
663.67	0.00	0				
			149	149	0.00	1.8
663.80	0.13	2300				
			1863	2013	0.05	1.9
664.00	0.33	16330				
			5902	7915	0.18	2.1
664.20	0.53	42690				
			11125	19040	0.44	2.2
664.40	0.73	68560				
			14692	33732	0.77	2.3
664.60	0.93	78360				
			16489	50221	1.15	2.5
664.80	1.13	86530				
			18129	68350	1.57	2.6
665.00	1.33	94760				
			19791	88141	2.02	2.7
665.20	1.53	103150				
			21499	109640	2.52	2.8
665.40	1.73	111840				
			23282	132922	3.05	2.9
665.60	1.93	120980				
			25132	158054	3.63	3.0
665.80	2.13	130340				

```
**************************************************************************

            F L O O D    R O U T I N G    A N A L Y S I S
         USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)
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                        Analysis prepared by:



 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO                            *
* 100-YEAR DETENTION                                                   *
* BUILDING 2 NORTH TRUCK YARD, NODE 205                                *
 ************************************************************************

  FILE NAME: W:\3654\BLDG2N.DAT
  TIME/DATE OF STUDY: 10:36 12/10/2020


**************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE =   1
--------------------------------------------------------------------------
  >>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<
==========================================================================

      (UNIT-HYDROGRAPH ADDED TO STREAM #1)

         WATERSHED AREA =      15.000 ACRES
         BASEFLOW =   0.000 CFS/SQUARE-MILE
         *USER ENTERED "LAG" TIME =    0.136 HOURS
          CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.
          THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)
          MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.
         VALLEY(DEVELOPED) S-GRAPH SELECTED
         MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) =  0.042
         LOW LOSS FRACTION = 0.079
         *HYDROGRAPH MODEL #1 SPECIFIED*

         SPECIFIED PEAK  5-MINUTES RAINFALL(INCH)=  0.37
         SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)=  0.75
         SPECIFIED PEAK  1-HOUR RAINFALL(INCH) =  1.00
         SPECIFIED PEAK  3-HOUR RAINFALL(INCH) =  1.90
         SPECIFIED PEAK  6-HOUR RAINFALL(INCH) =  2.90
         SPECIFIED PEAK 24-HOUR RAINFALL(INCH) =  5.90

         PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
           5-MINUTE FACTOR = 0.999
          30-MINUTE FACTOR = 0.999
           1-HOUR FACTOR = 0.999
           3-HOUR FACTOR = 1.000
           6-HOUR FACTOR = 1.000
          24-HOUR FACTOR = 1.000

         UNIT HYDROGRAPH TIME UNIT =   5.000 MINUTES
         UNIT INTERVAL PERCENTAGE OF LAG-TIME =  61.275


==========================================================================
                    UNIT HYDROGRAPH DETERMINATION

--------------------------------------------------------------------------
    INTERVAL          "S" GRAPH          UNIT HYDROGRAPH
     NUMBER         MEAN VALUES          ORDINATES(CFS)
--------------------------------------------------------------------------
       1                6.680               12.118
       2               42.752               65.437
       3               82.536               72.171
       4               96.027               24.474
       5               98.764                4.964
       6               99.505                1.345
```

7	99.802	0.539
8	99.951	0.269
9	100.000	0.090

****

UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0115
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118
66	0.0128	0.0010	0.0118

67	0.0129	0.0010	0.0119
68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185
143	0.0203	0.0016	0.0187

144	0.0204	0.0016	0.0188
145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0250
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0310	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0300
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0350	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0368	0.0029	0.0339
178	0.0375	0.0030	0.0345
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0383
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0345
187	0.0423	0.0033	0.0390
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0588	0.0035	0.0553
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3698	0.0035	0.3663
194	0.0685	0.0035	0.0650
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0333
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0304
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182
220	0.0194	0.0015	0.0179

221	0.0191	0.0015	0.0176
222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90
TOTAL SOIL-LOSS(INCHES) = 0.43
TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.5336
TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 6.8377

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24 - HOUR STORM
RUNOFF HYDROGRAPH

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0. 10.0 20.0 30.0 40.0
0.083	0.0008	0.12	Q
0.167	0.0060	0.75	Q
0.250	0.0160	1.45	VQ
0.333	0.0276	1.69	VQ
0.417	0.0396	1.74	VQ
0.500	0.0517	1.76	VQ
0.583	0.0639	1.77	VQ
0.667	0.0762	1.78	VQ
0.750	0.0884	1.78	VQ
0.833	0.1008	1.79	VQ
0.917	0.1131	1.79	VQ
1.000	0.1255	1.80	VQ
1.083	0.1379	1.80	VQ
1.167	0.1503	1.81	VQ
1.250	0.1628	1.81	VQ
1.333	0.1753	1.82	.Q
1.417	0.1879	1.82	.Q
1.500	0.2004	1.83	.Q
1.583	0.2131	1.83	.Q
1.667	0.2257	1.84	.Q
1.750	0.2384	1.84	.Q
1.833	0.2511	1.85	.Q
1.917	0.2639	1.85	.Q
2.000	0.2767	1.86	.Q
2.083	0.2895	1.86	.Q
2.167	0.3024	1.87	.Q
2.250	0.3153	1.87	.Q
2.333	0.3282	1.88	.Q
2.417	0.3412	1.88	.Q
2.500	0.3542	1.89	.QV
2.583	0.3673	1.90	.QV
2.667	0.3804	1.90	.QV
2.750	0.3935	1.91	.QV
2.833	0.4067	1.91	.QV
2.917	0.4199	1.92	.QV
3.000	0.4332	1.93	.QV
3.083	0.4465	1.93	.QV
3.167	0.4598	1.94	.QV
3.250	0.4732	1.94	.QV
3.333	0.4866	1.95	.QV
3.417	0.5001	1.96	.QV
3.500	0.5136	1.96	.Q V
3.583	0.5271	1.97	.Q V
3.667	0.5407	1.97	.Q V
3.750	0.5544	1.98	.Q V
3.833	0.5681	1.99	.Q V
3.917	0.5818	1.99	.Q V
4.000	0.5956	2.00	. QV
4.083	0.6094	2.01	. QV
4.167	0.6233	2.01	. QV
4.250	0.6372	2.02	. QV
4.333	0.6511	2.03	. QV
4.417	0.6652	2.03	. QV
4.500	0.6792	2.04	. QV
4.583	0.6933	2.05	. Q V
4.667	0.7075	2.06	. Q V
4.750	0.7217	2.06	. Q V
4.833	0.7360	2.07	. Q V
4.917	0.7503	2.08	. Q V
5.000	0.7646	2.09	. Q V
5.083	0.7790	2.09	. Q V
5.167	0.7935	2.10	. Q V
5.250	0.8080	2.11	. Q V
5.333	0.8226	2.12	. Q V
5.417	0.8372	2.12	. Q V

5.500	0.8519	2.13	.	Q	V	.	.	.	.
5.583	0.8667	2.14	.	Q	V	.	.	.	.
5.667	0.8815	2.15	.	Q	V	.	.	.	.
5.750	0.8963	2.16	.	Q	V	.	.	.	.
5.833	0.9112	2.17	.	Q	V	.	.	.	.
5.917	0.9262	2.17	.	Q	V	.	.	.	.
6.000	0.9412	2.18	.	Q	V	.	.	.	.
6.083	0.9563	2.19	.	Q	V	.	.	.	.
6.167	0.9715	2.20	.	Q	V	.	.	.	.
6.250	0.9867	2.21	.	Q	V	.	.	.	.
6.333	1.0020	2.22	.	Q	V	.	.	.	.
6.417	1.0173	2.23	.	Q	V	.	.	.	.
6.500	1.0327	2.24	.	Q	V	.	.	.	.
6.583	1.0482	2.25	.	Q	V	.	.	.	.
6.667	1.0637	2.26	.	Q	V	.	.	.	.
6.750	1.0793	2.27	.	Q	V	.	.	.	.
6.833	1.0950	2.28	.	Q	V	.	.	.	.
6.917	1.1107	2.29	.	Q	V	.	.	.	.
7.000	1.1265	2.30	.	Q	V	.	.	.	.
7.083	1.1424	2.31	.	Q	V	.	.	.	.
7.167	1.1584	2.32	.	Q	V	.	.	.	.
7.250	1.1744	2.33	.	Q	V	.	.	.	.
7.333	1.1905	2.34	.	Q	V	.	.	.	.
7.417	1.2066	2.35	.	Q	V	.	.	.	.
7.500	1.2229	2.36	.	Q	V	.	.	.	.
7.583	1.2392	2.37	.	Q	V	.	.	.	.
7.667	1.2556	2.38	.	Q	V	.	.	.	.
7.750	1.2721	2.39	.	Q	V	.	.	.	.
7.833	1.2886	2.40	.	Q	V	.	.	.	.
7.917	1.3053	2.42	.	Q	V	.	.	.	.
8.000	1.3220	2.43	.	Q	V	.	.	.	.
8.083	1.3388	2.44	.	Q	V	.	.	.	.
8.167	1.3557	2.45	.	Q	V	.	.	.	.
8.250	1.3726	2.46	.	Q	V	.	.	.	.
8.333	1.3897	2.48	.	Q	V	.	.	.	.
8.417	1.4068	2.49	.	Q	V	.	.	.	.
8.500	1.4241	2.50	.	Q	V	.	.	.	.
8.583	1.4414	2.52	.	Q	V	.	.	.	.
8.667	1.4588	2.53	.	Q	V	.	.	.	.
8.750	1.4763	2.54	.	Q	V	.	.	.	.
8.833	1.4940	2.56	.	Q	V	.	.	.	.
8.917	1.5117	2.57	.	Q	V	.	.	.	.
9.000	1.5295	2.59	.	Q	V	.	.	.	.
9.083	1.5474	2.60	.	Q	V	.	.	.	.
9.167	1.5654	2.62	.	Q	V	.	.	.	.
9.250	1.5835	2.63	.	Q	V	.	.	.	.
9.333	1.6018	2.65	.	Q	V	.	.	.	.
9.417	1.6201	2.66	.	Q	V	.	.	.	.
9.500	1.6385	2.68	.	Q	V	.	.	.	.
9.583	1.6571	2.69	.	Q	V	.	.	.	.
9.667	1.6758	2.71	.	Q	V	.	.	.	.
9.750	1.6946	2.73	.	Q	V	.	.	.	.
9.833	1.7135	2.75	.	Q	V	.	.	.	.
9.917	1.7325	2.76	.	Q	V	.	.	.	.
10.000	1.7516	2.78	.	Q	V	.	.	.	.
10.083	1.7709	2.80	.	Q	V	.	.	.	.
10.167	1.7903	2.82	.	Q	V	.	.	.	.
10.250	1.8099	2.84	.	Q	V	.	.	.	.
10.333	1.8296	2.86	.	Q	V	.	.	.	.
10.417	1.8494	2.88	.	Q	V	.	.	.	.
10.500	1.8693	2.90	.	Q	V	.	.	.	.
10.583	1.8894	2.92	.	Q	V	.	.	.	.
10.667	1.9097	2.94	.	Q	V	.	.	.	.
10.750	1.9301	2.96	.	Q	V	.	.	.	.
10.833	1.9506	2.98	.	Q	V	.	.	.	.
10.917	1.9713	3.01	.	Q	V	.	.	.	.
11.000	1.9922	3.03	.	Q	V	.	.	.	.
11.083	2.0132	3.05	.	Q	V	.	.	.	.
11.167	2.0344	3.08	.	Q	V	.	.	.	.
11.250	2.0558	3.10	.	Q	V	.	.	.	.
11.333	2.0773	3.13	.	Q	V	.	.	.	.
11.417	2.0991	3.16	.	Q	V	.	.	.	.
11.500	2.1210	3.18	.	Q	V	.	.	.	.
11.583	2.1431	3.21	.	Q	V	.	.	.	.
11.667	2.1654	3.24	.	Q	V	.	.	.	.
11.750	2.1879	3.27	.	Q	V	.	.	.	.
11.833	2.2106	3.30	.	Q	V	.	.	.	.

11.917	2.2336	3.33	. Q . V . . .
12.000	2.2567	3.36	. Q . V . . .
12.083	2.2804	3.44	. Q . V . . .
12.167	2.3059	3.71	. Q . V . . .
12.250	2.3335	4.01	. Q . V . . .
12.333	2.3619	4.13	. Q . V . . .
12.417	2.3907	4.18	. Q . V . . .
12.500	2.4198	4.22	. Q . V . . .
12.583	2.4492	4.26	. Q . V . . .
12.667	2.4788	4.30	. Q . V . . .
12.750	2.5087	4.34	. Q . V . . .
12.833	2.5389	4.38	. Q . V . . .
12.917	2.5694	4.43	. Q . V . . .
13.000	2.6002	4.47	. Q . V . . .
13.083	2.6313	4.52	. Q . V . . .
13.167	2.6628	4.57	. Q . V . . .
13.250	2.6946	4.62	. Q . V . . .
13.333	2.7267	4.67	. Q . V . . .
13.417	2.7592	4.72	. Q . V . . .
13.500	2.7921	4.78	. Q . V . . .
13.583	2.8254	4.84	. Q . V . . .
13.667	2.8591	4.90	. Q . V . . .
13.750	2.8933	4.96	. Q . V . . .
13.833	2.9279	5.03	. Q . V . . .
13.917	2.9630	5.10	. Q . V . . .
14.000	2.9987	5.17	. Q . V . . .
14.083	3.0347	5.24	. Q . V . . .
14.167	3.0708	5.24	. Q . V . . .
14.250	3.1068	5.24	. Q . V . . .
14.333	3.1433	5.30	. Q . V . . .
14.417	3.1805	5.40	. Q . V . . .
14.500	3.2184	5.50	. Q . V . . .
14.583	3.2571	5.62	. Q . V. . . .
14.667	3.2966	5.74	. Q . V. . . .
14.750	3.3371	5.87	. Q . V. . . .
14.833	3.3785	6.02	. Q . V. . . .
14.917	3.4211	6.18	. Q . V . . .
15.000	3.4648	6.35	. Q . V . . .
15.083	3.5099	6.54	. Q . V . . .
15.167	3.5564	6.76	. Q . V . . .
15.250	3.6046	6.99	. Q . .V . . .
15.333	3.6546	7.27	. Q . .V . . .
15.417	3.7058	7.43	. Q . .V . . .
15.500	3.7536	6.94	. Q . .V . . .
15.583	3.7979	6.42	. Q . . V . . .
15.667	3.8437	6.65	. Q . . V . . .
15.750	3.8936	7.25	. Q . . V . . .
15.833	3.9493	8.08	. Q . . . V . . .
15.917	4.0140	9.40	. Q. . . V . . .
16.000	4.0974	12.12	. . Q . . V . . .
16.083	4.2306	19.33	. . . Q. . V . . .
16.167	4.4733	35.25	. . . . V . . Q .
16.250	4.7110	34.52	. . . . V . . Q .
16.333	4.8338	17.82	. . . Q . . V . . .
16.417	4.9017	9.87	. Q. . . . V . . .
16.500	4.9572	8.06	. Q . . . V . . .
16.583	5.0105	7.74	. Q . . . V. . . .
16.667	5.0605	7.26	. Q . . . V. . . .
16.750	5.1070	6.74	. Q . . . V. . . .
16.833	5.1505	6.32	. Q . . . V . . .
16.917	5.1918	6.00	. Q . . . V . . .
17.000	5.2312	5.72	. Q . . . V . . .
17.083	5.2691	5.50	. Q . . . V . . .
17.167	5.3061	5.37	. Q . . . .V . . .
17.250	5.3424	5.28	. Q . . . .V . . .
17.333	5.3779	5.15	. Q . . . .V . . .
17.417	5.4124	5.01	. Q . . . .V . . .
17.500	5.4460	4.88	. Q . . . .V . . .
17.583	5.4788	4.76	. Q . . . . V . . .
17.667	5.5109	4.66	. Q . . . . V . . .
17.750	5.5422	4.55	. Q . . . . V . . .
17.833	5.5730	4.46	. Q . . . . V . . .
17.917	5.6031	4.37	. Q . . . . V . . .
18.000	5.6327	4.29	. Q . . . . V . . .
18.083	5.6614	4.17	. Q . . . . . V . . .
18.167	5.6880	3.86	. Q . . . . . V . . .
18.250	5.7124	3.53	. Q . . . . . V . . .

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18.333	5.7357	3.38	.	Q	.	.	.	V	.	
18.417	5.7584	3.30	.	Q	.	.	.	V	.	
18.500	5.7807	3.24	.	Q	.	.	.	V	.	
18.583	5.8025	3.18	.	Q	.	.	.	V	.	
18.667	5.8240	3.12	.	Q	.	.	.	V	.	
18.750	5.8452	3.07	.	Q	.	.	.	V	.	
18.833	5.8660	3.02	.	Q	.	.	.	V	.	
18.917	5.8865	2.98	.	Q	.	.	.	V	.	
19.000	5.9067	2.93	.	Q	.	.	.	V	.	
19.083	5.9267	2.89	.	Q	.	.	.	V	.	
19.167	5.9463	2.85	.	Q	.	.	.	V	.	
19.250	5.9657	2.81	.	Q	.	.	.	V	.	
19.333	5.9848	2.78	.	Q	.	.	.	V	.	
19.417	6.0037	2.74	.	Q	.	.	.	V	.	
19.500	6.0223	2.71	.	Q	.	.	.	V	.	
19.583	6.0408	2.67	.	Q	.	.	.	V	.	
19.667	6.0589	2.64	.	Q	.	.	.	V	.	
19.750	6.0769	2.61	.	Q	.	.	.	V	.	
19.833	6.0947	2.58	.	Q	.	.	.	V	.	
19.917	6.1123	2.55	.	Q	.	.	.	V	.	
20.000	6.1297	2.53	.	Q	.	.	.	V	.	
20.083	6.1469	2.50	.	Q	.	.	.	V	.	
20.167	6.1640	2.47	.	Q	.	.	.	V	.	
20.250	6.1808	2.45	.	Q	.	.	.	V	.	
20.333	6.1975	2.42	.	Q	.	.	.	V	.	
20.417	6.2141	2.40	.	Q	.	.	.	V	.	
20.500	6.2304	2.38	.	Q	.	.	.	V	.	
20.583	6.2467	2.36	.	Q	.	.	.	V	.	
20.667	6.2627	2.33	.	Q	.	.	.	V	.	
20.750	6.2787	2.31	.	Q	.	.	.	V	.	
20.833	6.2944	2.29	.	Q	.	.	.	V	.	
20.917	6.3101	2.27	.	Q	.	.	.	V	.	
21.000	6.3256	2.25	.	Q	.	.	.	V	.	
21.083	6.3410	2.23	.	Q	.	.	.	V	.	
21.167	6.3563	2.22	.	Q	.	.	.	V	.	
21.250	6.3714	2.20	.	Q	.	.	.	V	.	
21.333	6.3864	2.18	.	Q	.	.	.	V	.	
21.417	6.4013	2.16	.	Q	.	.	.	V	.	
21.500	6.4161	2.15	.	Q	.	.	.	V	.	
21.583	6.4308	2.13	.	Q	.	.	.	V	.	
21.667	6.4453	2.11	.	Q	.	.	.	V	.	
21.750	6.4598	2.10	.	Q	.	.	.	V	.	
21.833	6.4741	2.08	.	Q	.	.	.	V	.	
21.917	6.4884	2.07	.	Q	.	.	.	V	.	
22.000	6.5025	2.05	.	Q	.	.	.	V	.	
22.083	6.5166	2.04	.	Q	.	.	.	V	.	
22.167	6.5305	2.03	.	Q	.	.	.	V	.	
22.250	6.5444	2.01	.	Q	.	.	.	V	.	
22.333	6.5581	2.00	.	Q	.	.	.	V	.	
22.417	6.5718	1.99	.	Q	.	.	.	V	.	
22.500	6.5854	1.97	.	Q	.	.	.	V	.	
22.583	6.5989	1.96	.	Q	.	.	.	V	.	
22.667	6.6123	1.95	.	Q	.	.	.	V	.	
22.750	6.6256	1.94	.	Q	.	.	.	V	.	
22.833	6.6389	1.92	.	Q	.	.	.	V	.	
22.917	6.6520	1.91	.	Q	.	.	.	V	.	
23.000	6.6651	1.90	.	Q	.	.	.	V	.	
23.083	6.6781	1.89	.	Q	.	.	.	V	.	
23.167	6.6911	1.88	.	Q	.	.	.	V	.	
23.250	6.7039	1.87	.	Q	.	.	.	V	.	
23.333	6.7167	1.86	.	Q	.	.	.	V	.	
23.417	6.7294	1.85	.	Q	.	.	.	V	.	
23.500	6.7421	1.84	.	Q	.	.	.	V	.	
23.583	6.7546	1.83	.	Q	.	.	.	V	.	
23.667	6.7671	1.82	.	Q	.	.	.	V	.	
23.750	6.7796	1.81	.	Q	.	.	.	V	.	
23.833	6.7920	1.80	.	Q	.	.	.	V	.	
23.917	6.8043	1.79	.	Q	.	.	.	V	.	
24.000	6.8165	1.78	.	Q	.	.	.	V	.	
24.083	6.8279	1.65	.	Q	.	.	.	V	.	
24.167	6.8348	1.01	.	Q	.	.	.	V	.	
24.250	6.8369	0.31	Q	.	.	.	.	V	.	
24.333	6.8374	0.07	Q	.	.	.	.	V	.	
24.417	6.8376	0.02	Q	.	.	.	.	V	.	
24.500	6.8376	0.01	Q	.	.	.	.	V	.	

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1470.0
10%	370.0
20%	70.0
30%	25.0
40%	20.0
50%	20.0
60%	10.0
70%	10.0
80%	10.0
90%	10.0

```
****************************************************************************
 FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE = 3.1
----------------------------------------------------------------------------
 >>>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<<
============================================================================
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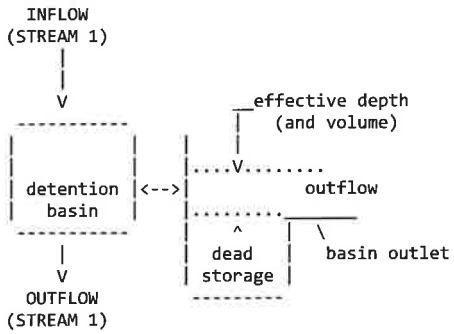

ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1
THROUGH A FLOW-THROUGH DETENTION BASIN
SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
DEAD STORAGE(AF) = 0.000
SPECIFIED DEAD STORAGE(AF) FILLED = 0.000
SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000
DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.13	1.80	0.002
3	0.33	1.90	0.050
4	0.53	2.10	0.180
5	0.73	2.20	0.440
6	0.93	2.30	0.770
7	1.13	2.50	1.150
8	1.33	2.60	1.570
9	1.53	2.70	2.020
10	1.73	2.80	2.520
11	1.93	2.90	3.050
12	2.13	3.00	3.630

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============================================================================
 MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):
 (Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;
        MEAN OUTFLOW is the average value during the unit interval.)
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CLOCK TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	EFFECTIVE DEPTH(FT)	MEAN OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)

0.083	0.000	0.12	0.00	0.01	0.1	0.000
0.167	0.000	0.75	0.00	0.08	0.6	0.001
0.250	0.000	1.45	0.00	0.12	1.4	0.002
0.333	0.000	1.69	0.00	0.12	1.7	0.002
0.417	0.000	1.74	0.00	0.13	1.7	0.002
0.500	0.000	1.76	0.00	0.13	1.8	0.002
0.583	0.000	1.77	0.00	0.13	1.8	0.002
0.667	0.000	1.78	0.00	0.13	1.8	0.002
0.750	0.000	1.78	0.00	0.13	1.8	0.002
0.833	0.000	1.79	0.00	0.13	1.8	0.002
0.917	0.000	1.79	0.00	0.13	1.8	0.002
1.000	0.000	1.80	0.00	0.13	1.8	0.002
1.083	0.000	1.80	0.00	0.13	1.8	0.002
1.167	0.000	1.81	0.00	0.13	1.8	0.002
1.250	0.000	1.81	0.00	0.13	1.8	0.002
1.333	0.000	1.82	0.00	0.13	1.8	0.002
1.417	0.000	1.82	0.00	0.13	1.8	0.002
1.500	0.000	1.83	0.00	0.13	1.8	0.003
1.583	0.000	1.83	0.00	0.13	1.8	0.003
1.667	0.000	1.84	0.00	0.13	1.8	0.003
1.750	0.000	1.84	0.00	0.14	1.8	0.003
1.833	0.000	1.85	0.00	0.14	1.8	0.004
1.917	0.000	1.85	0.00	0.14	1.8	0.004
2.000	0.000	1.86	0.00	0.14	1.8	0.004
2.083	0.000	1.86	0.00	0.14	1.8	0.005
2.167	0.000	1.87	0.00	0.14	1.8	0.005
2.250	0.000	1.87	0.00	0.14	1.8	0.006
2.333	0.000	1.88	0.00	0.15	1.8	0.006
2.417	0.000	1.88	0.00	0.15	1.8	0.007
2.500	0.000	1.89	0.00	0.15	1.8	0.007
2.583	0.000	1.90	0.00	0.15	1.8	0.008
2.667	0.000	1.90	0.00	0.16	1.8	0.008
2.750	0.000	1.91	0.00	0.16	1.8	0.009
2.833	0.000	1.91	0.00	0.16	1.8	0.010
2.917	0.000	1.92	0.00	0.16	1.8	0.010
3.000	0.000	1.93	0.00	0.17	1.8	0.011
3.083	0.000	1.93	0.00	0.17	1.8	0.012
3.167	0.000	1.94	0.00	0.17	1.8	0.013
3.250	0.000	1.94	0.00	0.18	1.8	0.014
3.333	0.000	1.95	0.00	0.18	1.8	0.014
3.417	0.000	1.96	0.00	0.19	1.8	0.015
3.500	0.000	1.96	0.00	0.19	1.8	0.016
3.583	0.000	1.97	0.00	0.19	1.8	0.017
3.667	0.000	1.97	0.00	0.20	1.8	0.018
3.750	0.000	1.98	0.00	0.20	1.8	0.019
3.833	0.000	1.99	0.00	0.21	1.8	0.020
3.917	0.000	1.99	0.00	0.21	1.8	0.021
4.000	0.000	2.00	0.00	0.21	1.8	0.022
4.083	0.000	2.01	0.00	0.22	1.8	0.023
4.167	0.000	2.01	0.00	0.22	1.8	0.025
4.250	0.000	2.02	0.00	0.23	1.8	0.026
4.333	0.000	2.03	0.00	0.23	1.9	0.027
4.417	0.000	2.03	0.00	0.24	1.9	0.028
4.500	0.000	2.04	0.00	0.24	1.9	0.030
4.583	0.000	2.05	0.00	0.25	1.9	0.031
4.667	0.000	2.06	0.00	0.26	1.9	0.032
4.750	0.000	2.06	0.00	0.26	1.9	0.034
4.833	0.000	2.07	0.00	0.27	1.9	0.035
4.917	0.000	2.08	0.00	0.27	1.9	0.036
5.000	0.000	2.09	0.00	0.28	1.9	0.038
5.083	0.000	2.09	0.00	0.29	1.9	0.039
5.167	0.000	2.10	0.00	0.29	1.9	0.041
5.250	0.000	2.11	0.00	0.30	1.9	0.042
5.333	0.000	2.12	0.00	0.30	1.9	0.044
5.417	0.000	2.12	0.00	0.31	1.9	0.046
5.500	0.000	2.13	0.00	0.32	1.9	0.047
5.583	0.000	2.14	0.00	0.33	1.9	0.049
5.667	0.000	2.15	0.00	0.33	1.9	0.051
5.750	0.000	2.16	0.00	0.33	1.9	0.052
5.833	0.000	2.17	0.00	0.34	1.9	0.054
5.917	0.000	2.17	0.00	0.34	1.9	0.056
6.000	0.000	2.18	0.00	0.34	1.9	0.058
6.083	0.000	2.19	0.00	0.35	1.9	0.060
6.167	0.000	2.20	0.00	0.35	1.9	0.062
6.250	0.000	2.21	0.00	0.35	1.9	0.064
6.333	0.000	2.22	0.00	0.35	1.9	0.066

6.417	0.000	2.23	0.00	0.36	1.9	0.068
6.500	0.000	2.24	0.00	0.36	1.9	0.070
6.583	0.000	2.25	0.00	0.36	1.9	0.072
6.667	0.000	2.26	0.00	0.37	1.9	0.074
6.750	0.000	2.27	0.00	0.37	1.9	0.077
6.833	0.000	2.28	0.00	0.37	1.9	0.079
6.917	0.000	2.29	0.00	0.38	1.9	0.081
7.000	0.000	2.30	0.00	0.38	1.9	0.084
7.083	0.000	2.31	0.00	0.39	2.0	0.086
7.167	0.000	2.32	0.00	0.39	2.0	0.088
7.250	0.000	2.33	0.00	0.39	2.0	0.091
7.333	0.000	2.34	0.00	0.40	2.0	0.094
7.417	0.000	2.35	0.00	0.40	2.0	0.096
7.500	0.000	2.36	0.00	0.41	2.0	0.099
7.583	0.000	2.37	0.00	0.41	2.0	0.102
7.667	0.000	2.38	0.00	0.41	2.0	0.104
7.750	0.000	2.39	0.00	0.42	2.0	0.107
7.833	0.000	2.40	0.00	0.42	2.0	0.110
7.917	0.000	2.42	0.00	0.43	2.0	0.113
8.000	0.000	2.43	0.00	0.43	2.0	0.116
8.083	0.000	2.44	0.00	0.44	2.0	0.119
8.167	0.000	2.45	0.00	0.44	2.0	0.122
8.250	0.000	2.46	0.00	0.45	2.0	0.125
8.333	0.000	2.48	0.00	0.45	2.0	0.128
8.417	0.000	2.49	0.00	0.46	2.0	0.131
8.500	0.000	2.50	0.00	0.46	2.0	0.135
8.583	0.000	2.52	0.00	0.47	2.0	0.138
8.667	0.000	2.53	0.00	0.47	2.0	0.141
8.750	0.000	2.54	0.00	0.48	2.0	0.145
8.833	0.000	2.56	0.00	0.48	2.0	0.148
8.917	0.000	2.57	0.00	0.49	2.1	0.152
9.000	0.000	2.59	0.00	0.49	2.1	0.155
9.083	0.000	2.60	0.00	0.50	2.1	0.159
9.167	0.000	2.62	0.00	0.50	2.1	0.163
9.250	0.000	2.63	0.00	0.51	2.1	0.167
9.333	0.000	2.65	0.00	0.52	2.1	0.171
9.417	0.000	2.66	0.00	0.52	2.1	0.175
9.500	0.000	2.68	0.00	0.53	2.1	0.179
9.583	0.000	2.69	0.00	0.53	2.1	0.183
9.667	0.000	2.71	0.00	0.54	2.1	0.187
9.750	0.000	2.73	0.00	0.54	2.1	0.191
9.833	0.000	2.75	0.00	0.54	2.1	0.196
9.917	0.000	2.76	0.00	0.55	2.1	0.200
10.000	0.000	2.78	0.00	0.55	2.1	0.205
10.083	0.000	2.80	0.00	0.55	2.1	0.209
10.167	0.000	2.82	0.00	0.56	2.1	0.214
10.250	0.000	2.84	0.00	0.56	2.1	0.219
10.333	0.000	2.86	0.00	0.56	2.1	0.224
10.417	0.000	2.88	0.00	0.57	2.1	0.230
10.500	0.000	2.90	0.00	0.57	2.1	0.235
10.583	0.000	2.92	0.00	0.58	2.1	0.240
10.667	0.000	2.94	0.00	0.58	2.1	0.246
10.750	0.000	2.96	0.00	0.59	2.1	0.252
10.833	0.000	2.98	0.00	0.59	2.1	0.258
10.917	0.000	3.01	0.00	0.59	2.1	0.264
11.000	0.000	3.03	0.00	0.60	2.1	0.270
11.083	0.000	3.05	0.00	0.60	2.1	0.276
11.167	0.000	3.08	0.00	0.61	2.1	0.283
11.250	0.000	3.10	0.00	0.61	2.1	0.289
11.333	0.000	3.13	0.00	0.62	2.1	0.296
11.417	0.000	3.16	0.00	0.62	2.1	0.303
11.500	0.000	3.18	0.00	0.63	2.1	0.310
11.583	0.000	3.21	0.00	0.64	2.2	0.318
11.667	0.000	3.24	0.00	0.64	2.2	0.325
11.750	0.000	3.27	0.00	0.65	2.2	0.333
11.833	0.000	3.30	0.00	0.65	2.2	0.340
11.917	0.000	3.33	0.00	0.66	2.2	0.349
12.000	0.000	3.36	0.00	0.67	2.2	0.357
12.083	0.000	3.44	0.00	0.67	2.2	0.365
12.167	0.000	3.71	0.00	0.68	2.2	0.376
12.250	0.000	4.01	0.00	0.69	2.2	0.389
12.333	0.000	4.13	0.00	0.70	2.2	0.402
12.417	0.000	4.18	0.00	0.71	2.2	0.416
12.500	0.000	4.22	0.00	0.72	2.2	0.430
12.583	0.000	4.26	0.00	0.73	2.2	0.444
12.667	0.000	4.30	0.00	0.74	2.2	0.458
12.750	0.000	4.34	0.00	0.75	2.2	0.473

12.833	0.000	4.38	0.00	0.76	2.2	0.488
12.917	0.000	4.43	0.00	0.77	2.2	0.503
13.000	0.000	4.47	0.00	0.78	2.2	0.519
13.083	0.000	4.52	0.00	0.79	2.2	0.535
13.167	0.000	4.57	0.00	0.80	2.2	0.551
13.250	0.000	4.62	0.00	0.81	2.2	0.567
13.333	0.000	4.67	0.00	0.82	2.2	0.584
13.417	0.000	4.72	0.00	0.83	2.2	0.601
13.500	0.000	4.78	0.00	0.84	2.3	0.618
13.583	0.000	4.84	0.00	0.85	2.3	0.636
13.667	0.000	4.90	0.00	0.86	2.3	0.654
13.750	0.000	4.96	0.00	0.87	2.3	0.673
13.833	0.000	5.03	0.00	0.88	2.3	0.692
13.917	0.000	5.10	0.00	0.89	2.3	0.711
14.000	0.000	5.17	0.00	0.91	2.3	0.731
14.083	0.000	5.24	0.00	0.92	2.3	0.751
14.167	0.000	5.24	0.00	0.93	2.3	0.771
14.250	0.000	5.24	0.00	0.94	2.3	0.792
14.333	0.000	5.30	0.00	0.95	2.3	0.812
14.417	0.000	5.40	0.00	0.96	2.3	0.833
14.500	0.000	5.50	0.00	0.97	2.3	0.855
14.583	0.000	5.62	0.00	0.99	2.4	0.878
14.667	0.000	5.74	0.00	1.00	2.4	0.901
14.750	0.000	5.87	0.00	1.01	2.4	0.925
14.833	0.000	6.02	0.00	1.02	2.4	0.950
14.917	0.000	6.18	0.00	1.04	2.4	0.976
15.000	0.000	6.35	0.00	1.05	2.4	1.003
15.083	0.000	6.54	0.00	1.07	2.4	1.031
15.167	0.000	6.76	0.00	1.08	2.4	1.061
15.250	0.000	6.99	0.00	1.10	2.5	1.092
15.333	0.000	7.27	0.00	1.12	2.5	1.125
15.417	0.000	7.43	0.00	1.13	2.5	1.159
15.500	0.000	6.94	0.00	1.15	2.5	1.190
15.583	0.000	6.42	0.00	1.16	2.5	1.217
15.667	0.000	6.65	0.00	1.18	2.5	1.245
15.750	0.000	7.25	0.00	1.19	2.5	1.278
15.833	0.000	8.08	0.00	1.21	2.5	1.316
15.917	0.000	9.40	0.00	1.23	2.5	1.363
16.000	0.000	12.12	0.00	1.26	2.6	1.429
16.083	0.000	19.33	0.00	1.32	2.6	1.544
16.167	0.000	35.25	0.00	1.42	2.6	1.769
16.250	0.000	34.52	0.00	1.52	2.7	1.988
16.333	0.000	17.82	0.00	1.56	2.7	2.092
16.417	0.000	9.87	0.00	1.58	2.7	2.142
16.500	0.000	8.06	0.00	1.59	2.7	2.178
16.583	0.000	7.74	0.00	1.61	2.7	2.213
16.667	0.000	7.26	0.00	1.62	2.7	2.244
16.750	0.000	6.74	0.00	1.63	2.7	2.272
16.833	0.000	6.32	0.00	1.64	2.8	2.296
16.917	0.000	6.00	0.00	1.65	2.8	2.318
17.000	0.000	5.72	0.00	1.66	2.8	2.339
17.083	0.000	5.50	0.00	1.67	2.8	2.358
17.167	0.000	5.37	0.00	1.67	2.8	2.376
17.250	0.000	5.28	0.00	1.68	2.8	2.393
17.333	0.000	5.15	0.00	1.69	2.8	2.409
17.417	0.000	5.01	0.00	1.69	2.8	2.424
17.500	0.000	4.88	0.00	1.70	2.8	2.439
17.583	0.000	4.76	0.00	1.70	2.8	2.453
17.667	0.000	4.66	0.00	1.71	2.8	2.465
17.750	0.000	4.55	0.00	1.71	2.8	2.478
17.833	0.000	4.46	0.00	1.72	2.8	2.489
17.917	0.000	4.37	0.00	1.72	2.8	2.500
18.000	0.000	4.29	0.00	1.73	2.8	2.510
18.083	0.000	4.17	0.00	1.73	2.8	2.520
18.167	0.000	3.86	0.00	1.73	2.8	2.527
18.250	0.000	3.53	0.00	1.73	2.8	2.532
18.333	0.000	3.38	0.00	1.74	2.8	2.536
18.417	0.000	3.30	0.00	1.74	2.8	2.540
18.500	0.000	3.24	0.00	1.74	2.8	2.542
18.583	0.000	3.18	0.00	1.74	2.8	2.545
18.667	0.000	3.12	0.00	1.74	2.8	2.547
18.750	0.000	3.07	0.00	1.74	2.8	2.549
18.833	0.000	3.02	0.00	1.74	2.8	2.551
18.917	0.000	2.98	0.00	1.74	2.8	2.552
19.000	0.000	2.93	0.00	1.74	2.8	2.553
19.083	0.000	2.89	0.00	1.74	2.8	2.553
19.167	0.000	2.85	0.00	1.74	2.8	2.554

BLDG2N.RES

19.250	0.000	2.81	0.00	1.74	2.8	2.554
19.333	0.000	2.78	0.00	1.74	2.8	2.553
19.417	0.000	2.74	0.00	1.74	2.8	2.553
19.500	0.000	2.71	0.00	1.74	2.8	2.552
19.583	0.000	2.67	0.00	1.74	2.8	2.551
19.667	0.000	2.64	0.00	1.74	2.8	2.550
19.750	0.000	2.61	0.00	1.74	2.8	2.549
19.833	0.000	2.58	0.00	1.74	2.8	2.547
19.917	0.000	2.55	0.00	1.74	2.8	2.546
20.000	0.000	2.53	0.00	1.74	2.8	2.544
20.083	0.000	2.50	0.00	1.74	2.8	2.542
20.167	0.000	2.47	0.00	1.74	2.8	2.539
20.250	0.000	2.45	0.00	1.74	2.8	2.537
20.333	0.000	2.42	0.00	1.74	2.8	2.534
20.417	0.000	2.40	0.00	1.73	2.8	2.532
20.500	0.000	2.38	0.00	1.73	2.8	2.529
20.583	0.000	2.36	0.00	1.73	2.8	2.526
20.667	0.000	2.33	0.00	1.73	2.8	2.522
20.750	0.000	2.31	0.00	1.73	2.8	2.519
20.833	0.000	2.29	0.00	1.73	2.8	2.515
20.917	0.000	2.27	0.00	1.73	2.8	2.512
21.000	0.000	2.25	0.00	1.73	2.8	2.508
21.083	0.000	2.23	0.00	1.72	2.8	2.504
21.167	0.000	2.22	0.00	1.72	2.8	2.500
21.250	0.000	2.20	0.00	1.72	2.8	2.496
21.333	0.000	2.18	0.00	1.72	2.8	2.492
21.417	0.000	2.16	0.00	1.72	2.8	2.488
21.500	0.000	2.15	0.00	1.72	2.8	2.483
21.583	0.000	2.13	0.00	1.71	2.8	2.479
21.667	0.000	2.11	0.00	1.71	2.8	2.474
21.750	0.000	2.10	0.00	1.71	2.8	2.469
21.833	0.000	2.08	0.00	1.71	2.8	2.464
21.917	0.000	2.07	0.00	1.71	2.8	2.459
22.000	0.000	2.05	0.00	1.70	2.8	2.454
22.083	0.000	2.04	0.00	1.70	2.8	2.449
22.167	0.000	2.03	0.00	1.70	2.8	2.444
22.250	0.000	2.01	0.00	1.70	2.8	2.439
22.333	0.000	2.00	0.00	1.70	2.8	2.433
22.417	0.000	1.99	0.00	1.69	2.8	2.428
22.500	0.000	1.97	0.00	1.69	2.8	2.422
22.583	0.000	1.96	0.00	1.69	2.8	2.416
22.667	0.000	1.95	0.00	1.69	2.8	2.411
22.750	0.000	1.94	0.00	1.68	2.8	2.405
22.833	0.000	1.92	0.00	1.68	2.8	2.399
22.917	0.000	1.91	0.00	1.68	2.8	2.393
23.000	0.000	1.90	0.00	1.68	2.8	2.387
23.083	0.000	1.89	0.00	1.67	2.8	2.381
23.167	0.000	1.88	0.00	1.67	2.8	2.375
23.250	0.000	1.87	0.00	1.67	2.8	2.369
23.333	0.000	1.86	0.00	1.67	2.8	2.362
23.417	0.000	1.85	0.00	1.66	2.8	2.356
23.500	0.000	1.84	0.00	1.66	2.8	2.350
23.583	0.000	1.83	0.00	1.66	2.8	2.343
23.667	0.000	1.82	0.00	1.66	2.8	2.337
23.750	0.000	1.81	0.00	1.65	2.8	2.330
23.833	0.000	1.80	0.00	1.65	2.8	2.323
23.917	0.000	1.79	0.00	1.65	2.8	2.317

Q_{100}(DISCHARGE) = 2.8 CFS
PONDING VOLUME = 1.74 FT
VOLUME STORED = 2.554 AC-FT

PROCESS SUMMARY OF STORAGE:
INFLOW VOLUME = 6.838 AF
BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)
OUTFLOW VOLUME = 6.839 AF
LOSS VOLUME = 0.000 AF

==========

END OF FLOODSCx ROUTING ANALYSIS

Job #3654 Grove Business Center, Ontario
Volume in Building 2 South Truck Yard, Node 216

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
661.45	0.00	0				
			249	249	0.01	2.9
661.60	0.15	3320				
			2082	2331	0.05	3.1
661.80	0.35	17500				
			5518	7849	0.18	3.3
662.00	0.55	37680				
			9015	16864	0.39	3.5
662.20	0.75	52470				
			11321	28185	0.65	3.7
662.40	0.95	60740				
			12994	41179	0.95	3.9
662.60	1.15	69200				
			14707	55886	1.28	4.1
662.80	1.35	77870				
			16465	72351	1.66	4.3
663.00	1.55	86780				
			18280	90631	2.08	4.4
663.20	1.75	96020				
			20054	110685	2.54	4.5
663.40	1.95	104520				
			5283	115968	2.66	4.6
663.45	2.00	106800				

```
**************************************************************************

            F L O O D    R O U T I N G    A N A L Y S I S
         USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)
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                        Analysis prepared by:



 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO                             *
* 100-YEAR DETENTION                                                     *
* BUILDING 2 SOUTH TRUCK YARD, NODE 218                                  *
 **************************************************************************

  FILE NAME: W:\3654\BLDG2S.DAT
  TIME/DATE OF STUDY: 23:13 12/12/2020


**************************************************************************
  FLOW PROCESS FROM NODE    216.00 TO NODE    216.00 IS CODE =   1
--------------------------------------------------------------------------
  >>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<
==========================================================================

      (UNIT-HYDROGRAPH ADDED TO STREAM #1)

         WATERSHED AREA =      15.550 ACRES
         BASEFLOW =   0.000 CFS/SQUARE-MILE
         *USER ENTERED "LAG" TIME =    0.163 HOURS
          CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.
          THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)
          MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.
         VALLEY(DEVELOPED) S-GRAPH SELECTED
         MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) =  0.042
         LOW LOSS FRACTION = 0.079
         *HYDROGRAPH MODEL #1 SPECIFIED*

         SPECIFIED PEAK  5-MINUTES RAINFALL(INCH)=  0.37
         SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)=  0.75
         SPECIFIED PEAK  1-HOUR RAINFALL(INCH) =  1.00
         SPECIFIED PEAK  3-HOUR RAINFALL(INCH) =  1.90
         SPECIFIED PEAK  6-HOUR RAINFALL(INCH) =  2.90
         SPECIFIED PEAK 24-HOUR RAINFALL(INCH) =  5.90

         PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
           5-MINUTE FACTOR = 0.999
          30-MINUTE FACTOR = 0.999
           1-HOUR FACTOR = 0.999
           3-HOUR FACTOR = 1.000
           6-HOUR FACTOR = 1.000
          24-HOUR FACTOR = 1.000

         UNIT HYDROGRAPH TIME UNIT =   5.000 MINUTES
         UNIT INTERVAL PERCENTAGE OF LAG-TIME =  51.125


==========================================================================
                    UNIT HYDROGRAPH DETERMINATION

--------------------------------------------------------------------------
    INTERVAL          "S" GRAPH          UNIT HYDROGRAPH
     NUMBER         MEAN VALUES          ORDINATES(CFS)
--------------------------------------------------------------------------
       1                4.647                8.740
       2               30.956               49.476
       3               69.827               73.100
       4               90.710               39.272
       5               97.352               12.491
       6               98.866                2.846
```

7	99.501	1.194
8	99.800	0.563
9	99.950	0.282
10	100.000	0.094

♠

****

UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0115
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118

BLDG2S.RES

66	0.0128	0.0010	0.0118
67	0.0129	0.0010	0.0119
68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185

143	0.0203	0.0016	0.0187
144	0.0204	0.0016	0.0188
145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0250
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0310	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0300
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0350	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0368	0.0029	0.0339
178	0.0375	0.0030	0.0345
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0384
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0345
187	0.0423	0.0033	0.0390
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0588	0.0035	0.0553
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3697	0.0035	0.3662
194	0.0685	0.0035	0.0650
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0333
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0304
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182

220	0.0194	0.0015	0.0179
221	0.0191	0.0015	0.0176
222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90
TOTAL SOIL-LOSS(INCHES) = 0.43
TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.5531
TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 7.0884

24 - HOUR STORM
RUNOFF HYDROGRAPH

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0. 10.0 20.0 30.0 40.0
0.083	0.0006	0.08	Q
0.167	0.0045	0.56	Q
0.250	0.0132	1.27	VQ
0.333	0.0246	1.65	VQ
0.417	0.0369	1.78	VQ
0.500	0.0493	1.81	VQ
0.583	0.0619	1.83	VQ
0.667	0.0746	1.84	VQ
0.750	0.0873	1.85	VQ
0.833	0.1001	1.85	VQ
0.917	0.1128	1.86	VQ
1.000	0.1257	1.86	VQ
1.083	0.1385	1.87	VQ
1.167	0.1514	1.87	VQ
1.250	0.1643	1.88	VQ
1.333	0.1773	1.88	.Q
1.417	0.1903	1.89	.Q
1.500	0.2033	1.89	.Q
1.583	0.2164	1.90	.Q
1.667	0.2295	1.90	.Q
1.750	0.2426	1.91	.Q
1.833	0.2558	1.91	.Q
1.917	0.2690	1.92	.Q
2.000	0.2823	1.92	.Q
2.083	0.2955	1.93	.Q
2.167	0.3089	1.94	.Q
2.250	0.3222	1.94	.Q
2.333	0.3356	1.95	.Q
2.417	0.3491	1.95	.Q
2.500	0.3626	1.96	.QV
2.583	0.3761	1.96	.QV
2.667	0.3897	1.97	.QV
2.750	0.4033	1.98	.QV
2.833	0.4169	1.98	.QV
2.917	0.4306	1.99	.QV
3.000	0.4443	1.99	.QV
3.083	0.4581	2.00	.QV
3.167	0.4719	2.01	. Q
3.250	0.4858	2.01	. Q
3.333	0.4997	2.02	. Q
3.417	0.5136	2.02	. Q
3.500	0.5276	2.03	. Q
3.583	0.5416	2.04	. QV
3.667	0.5557	2.04	. QV
3.750	0.5698	2.05	. QV
3.833	0.5840	2.06	. QV
3.917	0.5982	2.06	. QV
4.000	0.6125	2.07	. QV
4.083	0.6268	2.08	. QV
4.167	0.6412	2.09	. QV
4.250	0.6556	2.09	. QV
4.333	0.6700	2.10	. QV
4.417	0.6846	2.11	. QV
4.500	0.6991	2.11	. QV
4.583	0.7137	2.12	. Q V
4.667	0.7284	2.13	. Q V
4.750	0.7431	2.14	. Q V
4.833	0.7579	2.14	. Q V
4.917	0.7727	2.15	. Q V
5.000	0.7875	2.16	. Q V
5.083	0.8025	2.17	. Q V
5.167	0.8175	2.17	. Q V
5.250	0.8325	2.18	. Q V
5.333	0.8476	2.19	. Q V

5.417	0.8627	2.20	.	Q	V	.	.	.	.
5.500	0.8779	2.21	.	Q	V	.	.	.	.
5.583	0.8932	2.22	.	Q	V	.	.	.	.
5.667	0.9085	2.22	.	Q	V	.	.	.	.
5.750	0.9239	2.23	.	Q	V	.	.	.	.
5.833	0.9393	2.24	.	Q	V	.	.	.	.
5.917	0.9548	2.25	.	Q	V	.	.	.	.
6.000	0.9704	2.26	.	Q	V	.	.	.	.
6.083	0.9860	2.27	.	Q	V	.	.	.	.
6.167	1.0017	2.28	.	Q	V	.	.	.	.
6.250	1.0175	2.29	.	Q	V	.	.	.	.
6.333	1.0333	2.30	.	Q	V	.	.	.	.
6.417	1.0492	2.31	.	Q	V	.	.	.	.
6.500	1.0651	2.32	.	Q	V	.	.	.	.
6.583	1.0811	2.33	.	Q	V	.	.	.	.
6.667	1.0972	2.33	.	Q	V	.	.	.	.
6.750	1.1133	2.35	.	Q	V	.	.	.	.
6.833	1.1296	2.36	.	Q	V	.	.	.	.
6.917	1.1459	2.37	.	Q	V	.	.	.	.
7.000	1.1622	2.38	.	Q	V	.	.	.	.
7.083	1.1786	2.39	.	Q	V	.	.	.	.
7.167	1.1952	2.40	.	Q	V	.	.	.	.
7.250	1.2117	2.41	.	Q	V	.	.	.	.
7.333	1.2284	2.42	.	Q	V	.	.	.	.
7.417	1.2451	2.43	.	Q	V	.	.	.	.
7.500	1.2619	2.44	.	Q	V	.	.	.	.
7.583	1.2788	2.45	.	Q	V	.	.	.	.
7.667	1.2958	2.46	.	Q	V	.	.	.	.
7.750	1.3128	2.48	.	Q	V	.	.	.	.
7.833	1.3300	2.49	.	Q	V	.	.	.	.
7.917	1.3472	2.50	.	Q	V	.	.	.	.
8.000	1.3645	2.51	.	Q	V	.	.	.	.
8.083	1.3819	2.52	.	Q	V	.	.	.	.
8.167	1.3994	2.54	.	Q	V	.	.	.	.
8.250	1.4169	2.55	.	Q	V	.	.	.	.
8.333	1.4346	2.56	.	Q	V	.	.	.	.
8.417	1.4523	2.58	.	Q	V	.	.	.	.
8.500	1.4702	2.59	.	Q	V	.	.	.	.
8.583	1.4881	2.60	.	Q	V	.	.	.	.
8.667	1.5061	2.62	.	Q	V	.	.	.	.
8.750	1.5242	2.63	.	Q	V	.	.	.	.
8.833	1.5425	2.65	.	Q	V	.	.	.	.
8.917	1.5608	2.66	.	Q	V	.	.	.	.
9.000	1.5792	2.68	.	Q	V	.	.	.	.
9.083	1.5977	2.69	.	Q	V	.	.	.	.
9.167	1.6164	2.71	.	Q	V	.	.	.	.
9.250	1.6351	2.72	.	Q	V	.	.	.	.
9.333	1.6540	2.74	.	Q	V	.	.	.	.
9.417	1.6730	2.75	.	Q	V	.	.	.	.
9.500	1.6920	2.77	.	Q	V	.	.	.	.
9.583	1.7112	2.79	.	Q	V	.	.	.	.
9.667	1.7306	2.80	.	Q	V	.	.	.	.
9.750	1.7500	2.82	.	Q	V	.	.	.	.
9.833	1.7695	2.84	.	Q	V	.	.	.	.
9.917	1.7892	2.86	.	Q	V	.	.	.	.
10.000	1.8090	2.88	.	Q	V	.	.	.	.
10.083	1.8290	2.90	.	Q	V	.	.	.	.
10.167	1.8491	2.91	.	Q	V	.	.	.	.
10.250	1.8693	2.93	.	Q	V	.	.	.	.
10.333	1.8896	2.95	.	Q	V	.	.	.	.
10.417	1.9101	2.98	.	Q	V	.	.	.	.
10.500	1.9308	3.00	.	Q	V	.	.	.	.
10.583	1.9515	3.02	.	Q	V	.	.	.	.
10.667	1.9725	3.04	.	Q	V	.	.	.	.
10.750	1.9936	3.06	.	Q	V	.	.	.	.
10.833	2.0148	3.09	.	Q	V	.	.	.	.
10.917	2.0362	3.11	.	Q	V	.	.	.	.
11.000	2.0578	3.13	.	Q	V	.	.	.	.
11.083	2.0795	3.16	.	Q	V	.	.	.	.
11.167	2.1015	3.18	.	Q	V	.	.	.	.
11.250	2.1236	3.21	.	Q	V	.	.	.	.
11.333	2.1458	3.23	.	Q	V	.	.	.	.
11.417	2.1683	3.26	.	Q	V	.	.	.	.
11.500	2.1909	3.29	.	Q	V	.	.	.	.
11.583	2.2138	3.32	.	Q	V	.	.	.	.
11.667	2.2369	3.35	.	Q	V	.	.	.	.
11.750	2.2601	3.38	.	Q	V	.	.	.	.

11.833	2.2836	3.41	. Q . V . . .
11.917	2.3073	3.44	. Q . V . . .
12.000	2.3312	3.47	. Q . V . . .
12.083	2.3556	3.54	. Q . V . . .
12.167	2.3814	3.75	. Q . V . . .
12.250	2.4093	4.05	. Q . V . . .
12.333	2.4385	4.23	. Q . V . . .
12.417	2.4682	4.31	. Q . V . . .
12.500	2.4982	4.36	. Q . V . . .
12.583	2.5285	4.40	. Q . V . . .
12.667	2.5592	4.45	. Q . V . . .
12.750	2.5901	4.49	. Q . V . . .
12.833	2.6213	4.53	. Q . V . . .
12.917	2.6528	4.57	. Q . V . . .
13.000	2.6846	4.62	. Q . V . . .
13.083	2.7167	4.67	. Q . V . . .
13.167	2.7492	4.72	. Q . V . . .
13.250	2.7820	4.77	. Q . V . . .
13.333	2.8152	4.82	. Q . V . . .
13.417	2.8488	4.87	. Q . V . . .
13.500	2.8828	4.93	. Q . V . . .
13.583	2.9172	4.99	. Q . V . . .
13.667	2.9520	5.05	. Q . V . . .
13.750	2.9872	5.12	. Q . V . . .
13.833	3.0230	5.19	. Q . V . . .
13.917	3.0592	5.26	. Q . V . . .
14.000	3.0959	5.34	. Q . V . . .
14.083	3.1331	5.40	. Q . V . . .
14.167	3.1705	5.43	. Q . V . . .
14.250	3.2079	5.43	. Q . V . . .
14.333	3.2456	5.47	. Q . V . . .
14.417	3.2839	5.56	. Q . V . . .
14.500	3.3229	5.67	. Q . V . . .
14.583	3.3628	5.78	. Q . V . . .
14.667	3.4034	5.91	. Q . V. . . .
14.750	3.4450	6.04	. Q . V. . . .
14.833	3.4877	6.19	. Q . V. . . .
14.917	3.5314	6.35	. Q . V. . . .
15.000	3.5763	6.52	. Q . V . . .
15.083	3.6226	6.72	. Q . V . . .
15.167	3.6703	6.93	. Q . V . . .
15.250	3.7197	7.17	. Q . V . . .
15.333	3.7709	7.44	. Q . .V . . .
15.417	3.8235	7.64	. Q . .V . . .
15.500	3.8742	7.36	. Q . .V . . .
15.583	3.9212	6.82	. Q . . V . . .
15.667	3.9683	6.83	. Q . . V . . .
15.750	4.0187	7.32	. Q . . V . . .
15.833	4.0745	8.10	. Q . . V . . .
15.917	4.1385	9.30	. Q. . . V . . .
16.000	4.2186	11.64	. .Q . . V . . .
16.083	4.3402	17.66	. . Q . V . . .
16.167	4.5539	31.02	. . . V .Q . .
16.250	4.8023	36.08	. . . V . Q .
16.333	4.9640	23.47	. . . Q V . . .
16.417	5.0546	13.15	. . Q . V . . .
16.500	5.1171	9.08	. Q. . . V . . .
16.583	5.1742	8.29	. Q . . V. . .
16.667	5.2276	7.76	. Q . . V. . .
16.750	5.2774	7.22	. Q . . V. . .
16.833	5.3237	6.73	. Q . . V . .
16.917	5.3673	6.33	. Q . . V . .
17.000	5.4088	6.03	. Q . . V . .
17.083	5.4487	5.78	. Q . . V . .
17.167	5.4873	5.62	. Q . . V . .
17.250	5.5253	5.51	. Q . . .V . .
17.333	5.5623	5.38	. Q . . .V . .
17.417	5.5985	5.24	. Q . . .V . .
17.500	5.6336	5.11	. Q . . .V . .
17.583	5.6679	4.98	. Q . . .V . .
17.667	5.7015	4.87	. Q . . . V . .
17.750	5.7342	4.76	. Q . . . V . .
17.833	5.7663	4.66	. Q . . . V . .
17.917	5.7978	4.57	. Q . . . V . .
18.000	5.8286	4.48	. Q . . . V . .
18.083	5.8587	4.37	. Q . . . . V . .
18.167	5.8870	4.11	. Q . . . . V . .

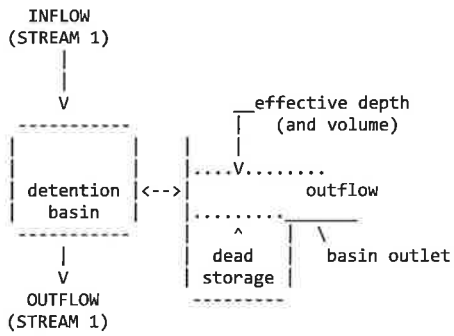
18.250	5.9130	3.78	.	Q	.	.	.	V	.	
18.333	5.9376	3.56	.	Q	.	.	.	V	.	
18.417	5.9613	3.45	.	Q	.	.	.	V	.	
18.500	5.9846	3.38	.	Q	.	.	.	V	.	
18.583	6.0075	3.32	.	Q	.	.	.	V	.	
18.667	6.0299	3.26	.	Q	.	.	.	V	.	
18.750	6.0520	3.20	.	Q	.	.	.	V	.	
18.833	6.0737	3.15	.	Q	.	.	.	V	.	
18.917	6.0950	3.10	.	Q	.	.	.	V	.	
19.000	6.1161	3.06	.	Q	.	.	.	V	.	
19.083	6.1368	3.01	.	Q	.	.	.	V	.	
19.167	6.1573	2.97	.	Q	.	.	.	V	.	
19.250	6.1775	2.93	.	Q	.	.	.	V	.	
19.333	6.1974	2.89	.	Q	.	.	.	V	.	
19.417	6.2171	2.85	.	Q	.	.	.	V	.	
19.500	6.2365	2.82	.	Q	.	.	.	V	.	
19.583	6.2557	2.78	.	Q	.	.	.	V	.	
19.667	6.2746	2.75	.	Q	.	.	.	V	.	
19.750	6.2933	2.72	.	Q	.	.	.	V	.	
19.833	6.3118	2.69	.	Q	.	.	.	V	.	
19.917	6.3301	2.66	.	Q	.	.	.	V	.	
20.000	6.3482	2.63	.	Q	.	.	.	V	.	
20.083	6.3662	2.60	.	Q	.	.	.	V	.	
20.167	6.3839	2.57	.	Q	.	.	.	V	.	
20.250	6.4014	2.55	.	Q	.	.	.	V	.	
20.333	6.4188	2.52	.	Q	.	.	.	V	.	
20.417	6.4360	2.50	.	Q	.	.	.	V	.	
20.500	6.4530	2.47	.	Q	.	.	.	V	.	
20.583	6.4699	2.45	.	Q	.	.	.	V	.	
20.667	6.4866	2.43	.	Q	.	.	.	V	.	
20.750	6.5032	2.41	.	Q	.	.	.	V	.	
20.833	6.5196	2.38	.	Q	.	.	.	V	.	
20.917	6.5359	2.36	.	Q	.	.	.	V	.	
21.000	6.5520	2.34	.	Q	.	.	.	V	.	
21.083	6.5680	2.32	.	Q	.	.	.	V	.	
21.167	6.5839	2.30	.	Q	.	.	.	V	.	
21.250	6.5996	2.28	.	Q	.	.	.	V	.	
21.333	6.6152	2.27	.	Q	.	.	.	V	.	
21.417	6.6307	2.25	.	Q	.	.	.	V	.	
21.500	6.6461	2.23	.	Q	.	.	.	V	.	
21.583	6.6613	2.21	.	Q	.	.	.	V	.	
21.667	6.6764	2.20	.	Q	.	.	.	V	.	
21.750	6.6915	2.18	.	Q	.	.	.	V	.	
21.833	6.7064	2.17	.	Q	.	.	.	V	.	
21.917	6.7212	2.15	.	Q	.	.	.	V	.	
22.000	6.7359	2.13	.	Q	.	.	.	V	.	
22.083	6.7505	2.12	.	Q	.	.	.	V	.	
22.167	6.7650	2.10	.	Q	.	.	.	V	.	
22.250	6.7794	2.09	.	Q	.	.	.	V	.	
22.333	6.7937	2.08	.	Q	.	.	.	V	.	
22.417	6.8079	2.06	.	Q	.	.	.	V	.	
22.500	6.8220	2.05	.	Q	.	.	.	V	.	
22.583	6.8360	2.04	.	Q	.	.	.	V	.	
22.667	6.8500	2.02	.	Q	.	.	.	V	.	
22.750	6.8638	2.01	.	Q	.	.	.	V	.	
22.833	6.8776	2.00	.	Q	.	.	.	V	.	
22.917	6.8912	1.99	.	Q	.	.	.	V	.	
23.000	6.9048	1.97	.	Q	.	.	.	V	.	
23.083	6.9184	1.96	.	Q	.	.	.	V	.	
23.167	6.9318	1.95	.	Q	.	.	.	V	.	
23.250	6.9451	1.94	.	Q	.	.	.	V	.	
23.333	6.9584	1.93	.	Q	.	.	.	V	.	
23.417	6.9716	1.92	.	Q	.	.	.	V	.	
23.500	6.9848	1.91	.	Q	.	.	.	V	.	
23.583	6.9978	1.90	.	Q	.	.	.	V	.	
23.667	7.0108	1.89	.	Q	.	.	.	V	.	
23.750	7.0237	1.88	.	Q	.	.	.	V	.	
23.833	7.0366	1.87	.	Q	.	.	.	V	.	
23.917	7.0493	1.86	.	Q	.	.	.	V	.	
24.000	7.0621	1.85	.	Q	.	.	.	V	.	
24.083	7.0741	1.75	.	Q	.	.	.	V	.	
24.167	7.0828	1.26	.	Q	.	.	.	V	.	
24.250	7.0866	0.55	Q	.	.	.	.	V	.	
24.333	7.0878	0.17	Q	.	.	.	.	V	.	
24.417	7.0881	0.05	Q	.	.	.	.	V	.	
24.500	7.0883	0.02	Q	.	.	.	.	V	.	
24.583	7.0883	0.01	Q	.	.	.	.	V	.	

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
(Note: 100% of Peak Flow Rate estimate assumed to have
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1475.0
10%	370.0
20%	80.0
30%	30.0
40%	20.0
50%	15.0
60%	15.0
70%	10.0
80%	10.0
90%	5.0

FLOW PROCESS FROM NODE 216.00 TO NODE 216.00 IS CODE = 3.1

>>>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<<



ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1
THROUGH A FLOW-THROUGH DETENTION BASIN
SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
DEAD STORAGE(AF) = 0.000
SPECIFIED DEAD STORAGE(AF) FILLED = 0.000
SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000
DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.15	2.90	0.010
3	0.35	3.10	0.050
4	0.55	3.30	0.180
5	0.75	3.50	0.390
6	0.95	3.70	0.650
7	1.15	3.90	0.950
8	1.35	4.10	1.280
9	1.55	4.30	1.660
10	1.75	4.40	2.080
11	1.95	4.50	2.540
12	2.00	4.60	2.660

MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):
(Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;
MEAN OUTFLOW is the average value during the unit interval.)

CLOCK MEAN

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.083	0.000	0.08	0.00	0.00	0.0	0.000
0.167	0.000	0.56	0.00	0.03	0.3	0.002
0.250	0.000	1.27	0.00	0.07	0.9	0.004
0.333	0.000	1.65	0.00	0.09	1.5	0.006
0.417	0.000	1.78	0.00	0.09	1.7	0.006
0.500	0.000	1.81	0.00	0.09	1.8	0.006
0.583	0.000	1.83	0.00	0.09	1.8	0.006
0.667	0.000	1.84	0.00	0.10	1.8	0.006
0.750	0.000	1.85	0.00	0.10	1.8	0.006
0.833	0.000	1.85	0.00	0.10	1.8	0.006
0.917	0.000	1.86	0.00	0.10	1.9	0.006
1.000	0.000	1.86	0.00	0.10	1.9	0.006
1.083	0.000	1.87	0.00	0.10	1.9	0.006
1.167	0.000	1.87	0.00	0.10	1.9	0.006
1.250	0.000	1.88	0.00	0.10	1.9	0.006
1.333	0.000	1.88	0.00	0.10	1.9	0.006
1.417	0.000	1.89	0.00	0.10	1.9	0.007
1.500	0.000	1.89	0.00	0.10	1.9	0.007
1.583	0.000	1.90	0.00	0.10	1.9	0.007
1.667	0.000	1.90	0.00	0.10	1.9	0.007
1.750	0.000	1.91	0.00	0.10	1.9	0.007
1.833	0.000	1.91	0.00	0.10	1.9	0.007
1.917	0.000	1.92	0.00	0.10	1.9	0.007
2.000	0.000	1.92	0.00	0.10	1.9	0.007
2.083	0.000	1.93	0.00	0.10	1.9	0.007
2.167	0.000	1.94	0.00	0.10	1.9	0.007
2.250	0.000	1.94	0.00	0.10	1.9	0.007
2.333	0.000	1.95	0.00	0.10	1.9	0.007
2.417	0.000	1.95	0.00	0.10	1.9	0.007
2.500	0.000	1.96	0.00	0.10	2.0	0.007
2.583	0.000	1.96	0.00	0.10	2.0	0.007
2.667	0.000	1.97	0.00	0.10	2.0	0.007
2.750	0.000	1.98	0.00	0.10	2.0	0.007
2.833	0.000	1.98	0.00	0.10	2.0	0.007
2.917	0.000	1.99	0.00	0.10	2.0	0.007
3.000	0.000	1.99	0.00	0.10	2.0	0.007
3.083	0.000	2.00	0.00	0.10	2.0	0.007
3.167	0.000	2.01	0.00	0.10	2.0	0.007
3.250	0.000	2.01	0.00	0.10	2.0	0.007
3.333	0.000	2.02	0.00	0.10	2.0	0.007
3.417	0.000	2.02	0.00	0.10	2.0	0.007
3.500	0.000	2.03	0.00	0.11	2.0	0.007
3.583	0.000	2.04	0.00	0.11	2.0	0.007
3.667	0.000	2.04	0.00	0.11	2.0	0.007
3.750	0.000	2.05	0.00	0.11	2.0	0.007
3.833	0.000	2.06	0.00	0.11	2.1	0.007
3.917	0.000	2.06	0.00	0.11	2.1	0.007
4.000	0.000	2.07	0.00	0.11	2.1	0.007
4.083	0.000	2.08	0.00	0.11	2.1	0.007
4.167	0.000	2.09	0.00	0.11	2.1	0.007
4.250	0.000	2.09	0.00	0.11	2.1	0.007
4.333	0.000	2.10	0.00	0.11	2.1	0.007
4.417	0.000	2.11	0.00	0.11	2.1	0.007
4.500	0.000	2.11	0.00	0.11	2.1	0.007
4.583	0.000	2.12	0.00	0.11	2.1	0.007
4.667	0.000	2.13	0.00	0.11	2.1	0.007
4.750	0.000	2.14	0.00	0.11	2.1	0.007
4.833	0.000	2.14	0.00	0.11	2.1	0.007
4.917	0.000	2.15	0.00	0.11	2.1	0.007
5.000	0.000	2.16	0.00	0.11	2.2	0.007
5.083	0.000	2.17	0.00	0.11	2.2	0.007
5.167	0.000	2.17	0.00	0.11	2.2	0.007
5.250	0.000	2.18	0.00	0.11	2.2	0.008
5.333	0.000	2.19	0.00	0.11	2.2	0.008
5.417	0.000	2.20	0.00	0.11	2.2	0.008
5.500	0.000	2.21	0.00	0.11	2.2	0.008
5.583	0.000	2.22	0.00	0.11	2.2	0.008
5.667	0.000	2.22	0.00	0.12	2.2	0.008
5.750	0.000	2.23	0.00	0.12	2.2	0.008
5.833	0.000	2.24	0.00	0.12	2.2	0.008
5.917	0.000	2.25	0.00	0.12	2.2	0.008
6.000	0.000	2.26	0.00	0.12	2.3	0.008
6.083	0.000	2.27	0.00	0.12	2.3	0.008
6.167	0.000	2.28	0.00	0.12	2.3	0.008

6.250	0.000	2.29	0.00	0.12	2.3	0.008
6.333	0.000	2.30	0.00	0.12	2.3	0.008
6.417	0.000	2.31	0.00	0.12	2.3	0.008
6.500	0.000	2.32	0.00	0.12	2.3	0.008
6.583	0.000	2.33	0.00	0.12	2.3	0.008
6.667	0.000	2.33	0.00	0.12	2.3	0.008
6.750	0.000	2.35	0.00	0.12	2.3	0.008
6.833	0.000	2.36	0.00	0.12	2.4	0.008
6.917	0.000	2.37	0.00	0.12	2.4	0.008
7.000	0.000	2.38	0.00	0.12	2.4	0.008
7.083	0.000	2.39	0.00	0.12	2.4	0.008
7.167	0.000	2.40	0.00	0.12	2.4	0.008
7.250	0.000	2.41	0.00	0.12	2.4	0.008
7.333	0.000	2.42	0.00	0.13	2.4	0.008
7.417	0.000	2.43	0.00	0.13	2.4	0.008
7.500	0.000	2.44	0.00	0.13	2.4	0.008
7.583	0.000	2.45	0.00	0.13	2.4	0.008
7.667	0.000	2.46	0.00	0.13	2.5	0.008
7.750	0.000	2.48	0.00	0.13	2.5	0.009
7.833	0.000	2.49	0.00	0.13	2.5	0.009
7.917	0.000	2.50	0.00	0.13	2.5	0.009
8.000	0.000	2.51	0.00	0.13	2.5	0.009
8.083	0.000	2.52	0.00	0.13	2.5	0.009
8.167	0.000	2.54	0.00	0.13	2.5	0.009
8.250	0.000	2.55	0.00	0.13	2.5	0.009
8.333	0.000	2.56	0.00	0.13	2.6	0.009
8.417	0.000	2.58	0.00	0.13	2.6	0.009
8.500	0.000	2.59	0.00	0.13	2.6	0.009
8.583	0.000	2.60	0.00	0.13	2.6	0.009
8.667	0.000	2.62	0.00	0.14	2.6	0.009
8.750	0.000	2.63	0.00	0.14	2.6	0.009
8.833	0.000	2.65	0.00	0.14	2.6	0.009
8.917	0.000	2.66	0.00	0.14	2.7	0.009
9.000	0.000	2.68	0.00	0.14	2.7	0.009
9.083	0.000	2.69	0.00	0.14	2.7	0.009
9.167	0.000	2.71	0.00	0.14	2.7	0.009
9.250	0.000	2.72	0.00	0.14	2.7	0.009
9.333	0.000	2.74	0.00	0.14	2.7	0.009
9.417	0.000	2.75	0.00	0.14	2.7	0.009
9.500	0.000	2.77	0.00	0.14	2.8	0.010
9.583	0.000	2.79	0.00	0.14	2.8	0.010
9.667	0.000	2.80	0.00	0.15	2.8	0.010
9.750	0.000	2.82	0.00	0.15	2.8	0.010
9.833	0.000	2.84	0.00	0.15	2.8	0.010
9.917	0.000	2.86	0.00	0.15	2.8	0.010
10.000	0.000	2.88	0.00	0.15	2.9	0.010
10.083	0.000	2.90	0.00	0.15	2.9	0.010
10.167	0.000	2.91	0.00	0.15	2.9	0.010
10.250	0.000	2.93	0.00	0.15	2.9	0.010
10.333	0.000	2.95	0.00	0.15	2.9	0.011
10.417	0.000	2.98	0.00	0.16	2.9	0.011
10.500	0.000	3.00	0.00	0.16	2.9	0.012
10.583	0.000	3.02	0.00	0.16	2.9	0.013
10.667	0.000	3.04	0.00	0.17	2.9	0.013
10.750	0.000	3.06	0.00	0.17	2.9	0.014
10.833	0.000	3.09	0.00	0.18	2.9	0.015
10.917	0.000	3.11	0.00	0.18	2.9	0.017
11.000	0.000	3.13	0.00	0.19	2.9	0.018
11.083	0.000	3.16	0.00	0.20	2.9	0.020
11.167	0.000	3.18	0.00	0.21	3.0	0.021
11.250	0.000	3.21	0.00	0.21	3.0	0.023
11.333	0.000	3.23	0.00	0.22	3.0	0.025
11.417	0.000	3.26	0.00	0.23	3.0	0.027
11.500	0.000	3.29	0.00	0.24	3.0	0.029
11.583	0.000	3.32	0.00	0.25	3.0	0.031
11.667	0.000	3.35	0.00	0.27	3.0	0.033
11.750	0.000	3.38	0.00	0.28	3.0	0.036
11.833	0.000	3.41	0.00	0.29	3.0	0.038
11.917	0.000	3.44	0.00	0.30	3.0	0.041
12.000	0.000	3.47	0.00	0.32	3.1	0.044
12.083	0.000	3.54	0.00	0.33	3.1	0.047
12.167	0.000	3.75	0.00	0.35	3.1	0.051
12.250	0.000	4.05	0.00	0.36	3.1	0.058
12.333	0.000	4.23	0.00	0.37	3.1	0.066
12.417	0.000	4.31	0.00	0.39	3.1	0.074
12.500	0.000	4.36	0.00	0.40	3.1	0.082
12.583	0.000	4.40	0.00	0.41	3.2	0.091

12.667	0.000	4.45	0.00	0.43	3.2	0.100
12.750	0.000	4.49	0.00	0.44	3.2	0.109
12.833	0.000	4.53	0.00	0.45	3.2	0.118
12.917	0.000	4.57	0.00	0.47	3.2	0.127
13.000	0.000	4.62	0.00	0.48	3.2	0.137
13.083	0.000	4.67	0.00	0.50	3.2	0.147
13.167	0.000	4.72	0.00	0.51	3.3	0.157
13.250	0.000	4.77	0.00	0.53	3.3	0.167
13.333	0.000	4.82	0.00	0.55	3.3	0.177
13.417	0.000	4.87	0.00	0.56	3.3	0.188
13.500	0.000	4.93	0.00	0.57	3.3	0.199
13.583	0.000	4.99	0.00	0.58	3.3	0.211
13.667	0.000	5.05	0.00	0.59	3.3	0.223
13.750	0.000	5.12	0.00	0.60	3.3	0.235
13.833	0.000	5.19	0.00	0.61	3.4	0.248
13.917	0.000	5.26	0.00	0.63	3.4	0.261
14.000	0.000	5.34	0.00	0.64	3.4	0.274
14.083	0.000	5.40	0.00	0.65	3.4	0.288
14.167	0.000	5.43	0.00	0.67	3.4	0.302
14.250	0.000	5.43	0.00	0.68	3.4	0.316
14.333	0.000	5.47	0.00	0.69	3.4	0.330
14.417	0.000	5.56	0.00	0.71	3.4	0.344
14.500	0.000	5.67	0.00	0.72	3.5	0.359
14.583	0.000	5.78	0.00	0.74	3.5	0.375
14.667	0.000	5.91	0.00	0.75	3.5	0.392
14.750	0.000	6.04	0.00	0.76	3.5	0.409
14.833	0.000	6.19	0.00	0.78	3.5	0.428
14.917	0.000	6.35	0.00	0.79	3.5	0.447
15.000	0.000	6.52	0.00	0.81	3.6	0.467
15.083	0.000	6.72	0.00	0.83	3.6	0.489
15.167	0.000	6.93	0.00	0.84	3.6	0.512
15.250	0.000	7.17	0.00	0.86	3.6	0.537
15.333	0.000	7.44	0.00	0.88	3.6	0.563
15.417	0.000	7.64	0.00	0.90	3.6	0.591
15.500	0.000	7.36	0.00	0.92	3.7	0.616
15.583	0.000	6.82	0.00	0.94	3.7	0.638
15.667	0.000	6.83	0.00	0.96	3.7	0.659
15.750	0.000	7.32	0.00	0.97	3.7	0.684
15.833	0.000	8.10	0.00	0.99	3.7	0.714
15.917	0.000	9.30	0.00	1.02	3.8	0.752
16.000	0.000	11.64	0.00	1.05	3.8	0.806
16.083	0.000	17.66	0.00	1.12	3.8	0.902
16.167	0.000	31.02	0.00	1.23	3.9	1.088
16.250	0.000	36.08	0.00	1.37	4.0	1.309
16.333	0.000	23.47	0.00	1.44	4.2	1.442
16.417	0.000	13.15	0.00	1.47	4.2	1.503
16.500	0.000	9.08	0.00	1.49	4.2	1.537
16.583	0.000	8.29	0.00	1.50	4.2	1.565
16.667	0.000	7.76	0.00	1.51	4.3	1.589
16.750	0.000	7.22	0.00	1.52	4.3	1.609
16.833	0.000	6.73	0.00	1.53	4.3	1.626
16.917	0.000	6.33	0.00	1.54	4.3	1.640
17.000	0.000	6.03	0.00	1.55	4.3	1.652
17.083	0.000	5.78	0.00	1.55	4.3	1.662
17.167	0.000	5.62	0.00	1.56	4.3	1.671
17.250	0.000	5.51	0.00	1.56	4.3	1.680
17.333	0.000	5.38	0.00	1.56	4.3	1.687
17.417	0.000	5.24	0.00	1.57	4.3	1.694
17.500	0.000	5.11	0.00	1.57	4.3	1.699
17.583	0.000	4.98	0.00	1.57	4.3	1.704
17.667	0.000	4.87	0.00	1.57	4.3	1.708
17.750	0.000	4.76	0.00	1.57	4.3	1.711
17.833	0.000	4.66	0.00	1.58	4.3	1.713
17.917	0.000	4.57	0.00	1.58	4.3	1.715
18.000	0.000	4.48	0.00	1.58	4.3	1.716
18.083	0.000	4.37	0.00	1.58	4.3	1.716
18.167	0.000	4.11	0.00	1.58	4.3	1.715
18.250	0.000	3.78	0.00	1.57	4.3	1.711
18.333	0.000	3.56	0.00	1.57	4.3	1.706
18.417	0.000	3.45	0.00	1.57	4.3	1.700
18.500	0.000	3.38	0.00	1.57	4.3	1.694
18.583	0.000	3.32	0.00	1.56	4.3	1.687
18.667	0.000	3.26	0.00	1.56	4.3	1.680
18.750	0.000	3.20	0.00	1.56	4.3	1.672
18.833	0.000	3.15	0.00	1.55	4.3	1.664
18.917	0.000	3.10	0.00	1.55	4.3	1.656
19.000	0.000	3.06	0.00	1.54	4.3	1.647

← Q_{100} (DISCHARGE) = 4.3 CFS
PONDING DEPTH = 1.58 FT
VOLUME STORED = 1.716 AC-FT

19.083	0.000	3.01	0.00	1.54	4.3	1.639
19.167	0.000	2.97	0.00	1.53	4.3	1.630
19.250	0.000	2.93	0.00	1.53	4.3	1.620
19.333	0.000	2.89	0.00	1.52	4.3	1.611
19.417	0.000	2.85	0.00	1.52	4.3	1.601
19.500	0.000	2.82	0.00	1.51	4.3	1.591
19.583	0.000	2.78	0.00	1.51	4.3	1.581
19.667	0.000	2.75	0.00	1.50	4.3	1.570
19.750	0.000	2.72	0.00	1.50	4.3	1.560
19.833	0.000	2.69	0.00	1.49	4.2	1.549
19.917	0.000	2.66	0.00	1.49	4.2	1.538
20.000	0.000	2.63	0.00	1.48	4.2	1.527
20.083	0.000	2.60	0.00	1.47	4.2	1.516
20.167	0.000	2.57	0.00	1.47	4.2	1.505
20.250	0.000	2.55	0.00	1.46	4.2	1.493
20.333	0.000	2.52	0.00	1.46	4.2	1.482
20.417	0.000	2.50	0.00	1.45	4.2	1.470
20.500	0.000	2.47	0.00	1.44	4.2	1.458
20.583	0.000	2.45	0.00	1.44	4.2	1.446
20.667	0.000	2.43	0.00	1.43	4.2	1.434
20.750	0.000	2.41	0.00	1.42	4.2	1.422
20.833	0.000	2.38	0.00	1.42	4.2	1.409
20.917	0.000	2.36	0.00	1.41	4.2	1.397
21.000	0.000	2.34	0.00	1.40	4.2	1.384
21.083	0.000	2.32	0.00	1.40	4.2	1.372
21.167	0.000	2.30	0.00	1.39	4.1	1.359
21.250	0.000	2.28	0.00	1.38	4.1	1.346
21.333	0.000	2.27	0.00	1.38	4.1	1.334
21.417	0.000	2.25	0.00	1.37	4.1	1.321
21.500	0.000	2.23	0.00	1.36	4.1	1.308
21.583	0.000	2.21	0.00	1.36	4.1	1.295
21.667	0.000	2.20	0.00	1.35	4.1	1.281
21.750	0.000	2.18	0.00	1.34	4.1	1.268
21.833	0.000	2.17	0.00	1.33	4.1	1.255
21.917	0.000	2.15	0.00	1.33	4.1	1.242
22.000	0.000	2.13	0.00	1.32	4.1	1.228
22.083	0.000	2.12	0.00	1.31	4.1	1.215
22.167	0.000	2.10	0.00	1.30	4.1	1.202
22.250	0.000	2.09	0.00	1.29	4.0	1.188
22.333	0.000	2.08	0.00	1.29	4.0	1.175
22.417	0.000	2.06	0.00	1.28	4.0	1.161
22.500	0.000	2.05	0.00	1.27	4.0	1.147
22.583	0.000	2.04	0.00	1.26	4.0	1.134
22.667	0.000	2.02	0.00	1.25	4.0	1.120
22.750	0.000	2.01	0.00	1.24	4.0	1.106
22.833	0.000	2.00	0.00	1.24	4.0	1.093
22.917	0.000	1.99	0.00	1.23	4.0	1.079
23.000	0.000	1.97	0.00	1.22	4.0	1.065
23.083	0.000	1.96	0.00	1.21	4.0	1.051
23.167	0.000	1.95	0.00	1.20	4.0	1.038
23.250	0.000	1.94	0.00	1.19	3.9	1.024
23.333	0.000	1.93	0.00	1.19	3.9	1.010
23.417	0.000	1.92	0.00	1.18	3.9	0.996
23.500	0.000	1.91	0.00	1.17	3.9	0.982
23.583	0.000	1.90	0.00	1.16	3.9	0.968
23.667	0.000	1.89	0.00	1.15	3.9	0.954
23.750	0.000	1.88	0.00	1.14	3.9	0.940
23.833	0.000	1.87	0.00	1.13	3.9	0.926
23.917	0.000	1.86	0.00	1.12	3.9	0.912

PROCESS SUMMARY OF STORAGE:
INFLOW VOLUME = 7.088 AF
BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)
OUTFLOW VOLUME = 7.088 AF
LOSS VOLUME = 0.000 AF

==========

END OF FLOODSCx ROUTING ANALYSIS

Job #3654 Grove Business Center, Ontario
Volume in Building 3 North Truck Yard, Node 241

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
656.69	0.00	0				
			107	107	0.00	2.8
656.80	0.11	1950				
			1959	2066	0.05	3.0
657.00	0.31	17640				
			6524	8590	0.20	3.2
657.20	0.51	47600				
			12283	20873	0.48	3.4
657.40	0.71	75230				
			15971	36844	0.85	3.6
657.60	0.91	84480				
			17813	54657	1.25	3.8
657.80	1.11	93650				
			19647	74304	1.71	4.0
658.00	1.31	102820				
			21494	95798	2.20	4.2
658.20	1.51	112120				
			23374	119172	2.74	4.4
658.40	1.71	121620				
			25320	144492	3.32	4.5
658.60	1.91	131580				
			27318	171810	3.94	4.6
658.80	2.11	141600				

```
**************************************************************************

            F L O O D    R O U T I N G    A N A L Y S I S
         USING COUNTY HYDROLOGY MANUAL OF SAN BERNARDINO(1986)
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                        Analysis prepared by:



 ************************* DESCRIPTION OF STUDY *************************
* JOB #3654 MERRILL BUSINESS CENTER, ONTARIO                            *
* 100-YEAR DETENTION                                                    *
* BUILDING 3 NORTH TRUCK YARD, NODE 241                                 *
 ************************************************************************

  FILE NAME: W:\3654\BLDG3N.DAT
  TIME/DATE OF STUDY: 23:18 12/12/2020


**************************************************************************
  FLOW PROCESS FROM NODE    241.00 TO NODE    241.00 IS CODE =   1
--------------------------------------------------------------------------
  >>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<
==========================================================================

      (UNIT-HYDROGRAPH ADDED TO STREAM #1)

         WATERSHED AREA =      21.450 ACRES
         BASEFLOW =   0.000 CFS/SQUARE-MILE
         *USER ENTERED "LAG" TIME =    0.117 HOURS
          CAUTION: LAG TIME IS LESS THAN 0.50 HOURS.
          THE 5-MINUTE PERIOD UH MODEL (USED IN THIS COMPUTER PROGRAM)
          MAY BE TOO LARGE FOR PEAK FLOW ESTIMATES.
         VALLEY(DEVELOPED) S-GRAPH SELECTED
         MAXIMUM WATERSHED LOSS RATE(INCH/HOUR) =  0.042
         LOW LOSS FRACTION = 0.079
         *HYDROGRAPH MODEL #1 SPECIFIED*

         SPECIFIED PEAK  5-MINUTES RAINFALL(INCH)=  0.37
         SPECIFIED PEAK 30-MINUTES RAINFALL(INCH)=  0.75
         SPECIFIED PEAK  1-HOUR RAINFALL(INCH) =  1.00
         SPECIFIED PEAK  3-HOUR RAINFALL(INCH) =  1.90
         SPECIFIED PEAK  6-HOUR RAINFALL(INCH) =  2.90
         SPECIFIED PEAK 24-HOUR RAINFALL(INCH) =  5.90

         PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
           5-MINUTE FACTOR = 0.999
          30-MINUTE FACTOR = 0.999
           1-HOUR FACTOR = 0.999
           3-HOUR FACTOR = 1.000
           6-HOUR FACTOR = 1.000
          24-HOUR FACTOR = 1.000

         UNIT HYDROGRAPH TIME UNIT =   5.000 MINUTES
         UNIT INTERVAL PERCENTAGE OF LAG-TIME =  71.225


==========================================================================
                     UNIT HYDROGRAPH DETERMINATION

--------------------------------------------------------------------------
    INTERVAL          "S" GRAPH          UNIT HYDROGRAPH
     NUMBER         MEAN VALUES          ORDINATES(CFS)
--------------------------------------------------------------------------
       1                8.974               23.279
       2               54.194              117.306
       3               89.976               92.823
       4               98.077               21.015
       5               99.389                3.404
       6               99.756                0.950
```

7	99.939	0.475
8	100.000	0.158

****

UNIT PERIOD (NUMBER)	UNIT RAINFALL (INCHES)	UNIT SOIL-LOSS (INCHES)	EFFECTIVE RAINFALL (INCHES)
1	0.0105	0.0008	0.0097
2	0.0105	0.0008	0.0097
3	0.0106	0.0008	0.0097
4	0.0106	0.0008	0.0097
5	0.0106	0.0008	0.0098
6	0.0106	0.0008	0.0098
7	0.0107	0.0008	0.0098
8	0.0107	0.0008	0.0098
9	0.0107	0.0008	0.0099
10	0.0107	0.0008	0.0099
11	0.0108	0.0009	0.0099
12	0.0108	0.0009	0.0099
13	0.0108	0.0009	0.0100
14	0.0109	0.0009	0.0100
15	0.0109	0.0009	0.0100
16	0.0109	0.0009	0.0101
17	0.0110	0.0009	0.0101
18	0.0110	0.0009	0.0101
19	0.0110	0.0009	0.0102
20	0.0110	0.0009	0.0102
21	0.0111	0.0009	0.0102
22	0.0111	0.0009	0.0102
23	0.0111	0.0009	0.0103
24	0.0112	0.0009	0.0103
25	0.0112	0.0009	0.0103
26	0.0112	0.0009	0.0103
27	0.0113	0.0009	0.0104
28	0.0113	0.0009	0.0104
29	0.0113	0.0009	0.0104
30	0.0114	0.0009	0.0105
31	0.0114	0.0009	0.0105
32	0.0114	0.0009	0.0105
33	0.0115	0.0009	0.0106
34	0.0115	0.0009	0.0106
35	0.0116	0.0009	0.0106
36	0.0116	0.0009	0.0107
37	0.0116	0.0009	0.0107
38	0.0117	0.0009	0.0107
39	0.0117	0.0009	0.0108
40	0.0117	0.0009	0.0108
41	0.0118	0.0009	0.0108
42	0.0118	0.0009	0.0109
43	0.0119	0.0009	0.0109
44	0.0119	0.0009	0.0109
45	0.0119	0.0009	0.0110
46	0.0120	0.0009	0.0110
47	0.0120	0.0009	0.0111
48	0.0120	0.0010	0.0111
49	0.0121	0.0010	0.0111
50	0.0121	0.0010	0.0112
51	0.0122	0.0010	0.0112
52	0.0122	0.0010	0.0112
53	0.0123	0.0010	0.0113
54	0.0123	0.0010	0.0113
55	0.0123	0.0010	0.0114
56	0.0124	0.0010	0.0114
57	0.0124	0.0010	0.0115
58	0.0125	0.0010	0.0115
59	0.0125	0.0010	0.0115
60	0.0126	0.0010	0.0116
61	0.0126	0.0010	0.0116
62	0.0126	0.0010	0.0116
63	0.0127	0.0010	0.0117
64	0.0127	0.0010	0.0117
65	0.0128	0.0010	0.0118
66	0.0128	0.0010	0.0118
67	0.0129	0.0010	0.0119

68	0.0129	0.0010	0.0119
69	0.0130	0.0010	0.0120
70	0.0130	0.0010	0.0120
71	0.0131	0.0010	0.0121
72	0.0131	0.0010	0.0121
73	0.0132	0.0010	0.0122
74	0.0133	0.0010	0.0122
75	0.0133	0.0011	0.0123
76	0.0134	0.0011	0.0123
77	0.0134	0.0011	0.0124
78	0.0135	0.0011	0.0124
79	0.0136	0.0011	0.0125
80	0.0136	0.0011	0.0125
81	0.0137	0.0011	0.0126
82	0.0137	0.0011	0.0126
83	0.0138	0.0011	0.0127
84	0.0138	0.0011	0.0127
85	0.0139	0.0011	0.0128
86	0.0140	0.0011	0.0129
87	0.0140	0.0011	0.0129
88	0.0141	0.0011	0.0130
89	0.0142	0.0011	0.0131
90	0.0142	0.0011	0.0131
91	0.0143	0.0011	0.0132
92	0.0144	0.0011	0.0132
93	0.0145	0.0011	0.0133
94	0.0145	0.0011	0.0134
95	0.0146	0.0012	0.0134
96	0.0146	0.0012	0.0135
97	0.0147	0.0012	0.0136
98	0.0148	0.0012	0.0136
99	0.0149	0.0012	0.0137
100	0.0149	0.0012	0.0138
101	0.0151	0.0012	0.0139
102	0.0151	0.0012	0.0139
103	0.0152	0.0012	0.0140
104	0.0153	0.0012	0.0141
105	0.0154	0.0012	0.0142
106	0.0154	0.0012	0.0142
107	0.0156	0.0012	0.0143
108	0.0156	0.0012	0.0144
109	0.0157	0.0012	0.0145
110	0.0158	0.0012	0.0146
111	0.0159	0.0013	0.0147
112	0.0160	0.0013	0.0147
113	0.0161	0.0013	0.0148
114	0.0162	0.0013	0.0149
115	0.0163	0.0013	0.0150
116	0.0164	0.0013	0.0151
117	0.0165	0.0013	0.0152
118	0.0166	0.0013	0.0153
119	0.0167	0.0013	0.0154
120	0.0168	0.0013	0.0155
121	0.0170	0.0013	0.0156
122	0.0170	0.0013	0.0157
123	0.0172	0.0014	0.0158
124	0.0173	0.0014	0.0159
125	0.0175	0.0014	0.0161
126	0.0175	0.0014	0.0162
127	0.0177	0.0014	0.0163
128	0.0178	0.0014	0.0164
129	0.0180	0.0014	0.0166
130	0.0181	0.0014	0.0166
131	0.0183	0.0014	0.0168
132	0.0184	0.0015	0.0169
133	0.0186	0.0015	0.0171
134	0.0187	0.0015	0.0172
135	0.0189	0.0015	0.0174
136	0.0190	0.0015	0.0175
137	0.0192	0.0015	0.0177
138	0.0193	0.0015	0.0178
139	0.0195	0.0015	0.0180
140	0.0197	0.0016	0.0181
141	0.0199	0.0016	0.0183
142	0.0200	0.0016	0.0185
143	0.0203	0.0016	0.0187
144	0.0204	0.0016	0.0188

145	0.0246	0.0019	0.0227
146	0.0248	0.0020	0.0228
147	0.0251	0.0020	0.0231
148	0.0252	0.0020	0.0232
149	0.0255	0.0020	0.0235
150	0.0257	0.0020	0.0236
151	0.0260	0.0021	0.0239
152	0.0261	0.0021	0.0241
153	0.0265	0.0021	0.0244
154	0.0266	0.0021	0.0245
155	0.0270	0.0021	0.0249
156	0.0272	0.0021	0.0250
157	0.0276	0.0022	0.0254
158	0.0278	0.0022	0.0256
159	0.0282	0.0022	0.0260
160	0.0284	0.0022	0.0262
161	0.0289	0.0023	0.0266
162	0.0291	0.0023	0.0268
163	0.0296	0.0023	0.0273
164	0.0299	0.0024	0.0275
165	0.0305	0.0024	0.0281
166	0.0308	0.0024	0.0283
167	0.0314	0.0025	0.0289
168	0.0317	0.0025	0.0292
169	0.0310	0.0025	0.0286
170	0.0314	0.0025	0.0289
171	0.0322	0.0025	0.0297
172	0.0326	0.0026	0.0301
173	0.0335	0.0026	0.0309
174	0.0340	0.0027	0.0313
175	0.0351	0.0028	0.0323
176	0.0356	0.0028	0.0328
177	0.0368	0.0029	0.0339
178	0.0375	0.0030	0.0346
179	0.0390	0.0031	0.0359
180	0.0398	0.0031	0.0367
181	0.0416	0.0033	0.0384
182	0.0427	0.0034	0.0393
183	0.0450	0.0035	0.0415
184	0.0464	0.0035	0.0429
185	0.0354	0.0028	0.0326
186	0.0374	0.0030	0.0344
187	0.0423	0.0033	0.0389
188	0.0456	0.0035	0.0421
189	0.0520	0.0035	0.0485
190	0.0588	0.0035	0.0553
191	0.0842	0.0035	0.0807
192	0.1163	0.0035	0.1128
193	0.3696	0.0035	0.3661
194	0.0684	0.0035	0.0649
195	0.0495	0.0035	0.0460
196	0.0396	0.0031	0.0365
197	0.0479	0.0035	0.0444
198	0.0438	0.0035	0.0403
199	0.0407	0.0032	0.0375
200	0.0382	0.0030	0.0352
201	0.0362	0.0029	0.0334
202	0.0345	0.0027	0.0318
203	0.0331	0.0026	0.0305
204	0.0318	0.0025	0.0293
205	0.0320	0.0025	0.0295
206	0.0311	0.0025	0.0286
207	0.0302	0.0024	0.0278
208	0.0294	0.0023	0.0271
209	0.0287	0.0023	0.0264
210	0.0280	0.0022	0.0258
211	0.0274	0.0022	0.0252
212	0.0268	0.0021	0.0247
213	0.0263	0.0021	0.0242
214	0.0258	0.0020	0.0238
215	0.0253	0.0020	0.0233
216	0.0249	0.0020	0.0229
217	0.0206	0.0016	0.0189
218	0.0202	0.0016	0.0186
219	0.0198	0.0016	0.0182
220	0.0194	0.0015	0.0179
221	0.0191	0.0015	0.0176

222	0.0188	0.0015	0.0173
223	0.0185	0.0015	0.0170
224	0.0182	0.0014	0.0167
225	0.0179	0.0014	0.0165
226	0.0176	0.0014	0.0162
227	0.0174	0.0014	0.0160
228	0.0171	0.0014	0.0158
229	0.0169	0.0013	0.0156
230	0.0167	0.0013	0.0154
231	0.0165	0.0013	0.0152
232	0.0163	0.0013	0.0150
233	0.0161	0.0013	0.0148
234	0.0159	0.0013	0.0146
235	0.0157	0.0012	0.0144
236	0.0155	0.0012	0.0143
237	0.0153	0.0012	0.0141
238	0.0152	0.0012	0.0140
239	0.0150	0.0012	0.0138
240	0.0148	0.0012	0.0137
241	0.0147	0.0012	0.0135
242	0.0145	0.0011	0.0134
243	0.0144	0.0011	0.0133
244	0.0143	0.0011	0.0131
245	0.0141	0.0011	0.0130
246	0.0140	0.0011	0.0129
247	0.0139	0.0011	0.0128
248	0.0138	0.0011	0.0127
249	0.0136	0.0011	0.0126
250	0.0135	0.0011	0.0124
251	0.0134	0.0011	0.0123
252	0.0133	0.0010	0.0122
253	0.0132	0.0010	0.0121
254	0.0131	0.0010	0.0120
255	0.0130	0.0010	0.0119
256	0.0129	0.0010	0.0119
257	0.0128	0.0010	0.0118
258	0.0127	0.0010	0.0117
259	0.0126	0.0010	0.0116
260	0.0125	0.0010	0.0115
261	0.0124	0.0010	0.0114
262	0.0123	0.0010	0.0113
263	0.0122	0.0010	0.0113
264	0.0121	0.0010	0.0112
265	0.0121	0.0010	0.0111
266	0.0120	0.0009	0.0110
267	0.0119	0.0009	0.0110
268	0.0118	0.0009	0.0109
269	0.0117	0.0009	0.0108
270	0.0117	0.0009	0.0108
271	0.0116	0.0009	0.0107
272	0.0115	0.0009	0.0106
273	0.0115	0.0009	0.0106
274	0.0114	0.0009	0.0105
275	0.0113	0.0009	0.0104
276	0.0113	0.0009	0.0104
277	0.0112	0.0009	0.0103
278	0.0111	0.0009	0.0102
279	0.0111	0.0009	0.0102
280	0.0110	0.0009	0.0101
281	0.0109	0.0009	0.0101
282	0.0109	0.0009	0.0100
283	0.0108	0.0009	0.0100
284	0.0108	0.0009	0.0099
285	0.0107	0.0008	0.0099
286	0.0107	0.0008	0.0098
287	0.0106	0.0008	0.0098
288	0.0105	0.0008	0.0097

TOTAL STORM RAINFALL(INCHES) = 5.90
TOTAL SOIL-LOSS(INCHES) = 0.43
TOTAL EFFECTIVE RAINFALL(INCHES) = 5.47

TOTAL SOIL-LOSS VOLUME(ACRE-FEET) = 0.7630
TOTAL STORM RUNOFF VOLUME(ACRE-FEET) = 9.7777

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2 4 - H O U R S T O R M
R U N O F F H Y D R O G R A P H

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS(CFS)
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0. 15.0 30.0 45.0 60.0
0.083	0.0016	0.23	Q . . . .
0.167	0.0109	1.36	Q . . . .
0.250	0.0265	2.26	VQ . . . .
0.333	0.0435	2.47	VQ . . . .
0.417	0.0608	2.51	VQ . . . .
0.500	0.0782	2.53	VQ . . . .
0.583	0.0956	2.54	VQ . . . .
0.667	0.1132	2.54	VQ . . . .
0.750	0.1307	2.55	VQ . . . .
0.833	0.1484	2.56	VQ . . . .
0.917	0.1660	2.56	VQ . . . .
1.000	0.1837	2.57	VQ . . . .
1.083	0.2015	2.58	VQ . . . .
1.167	0.2193	2.59	VQ . . . .
1.250	0.2372	2.59	VQ . . . .
1.333	0.2551	2.60	.Q . . . .
1.417	0.2730	2.61	.Q . . . .
1.500	0.2910	2.61	.Q . . . .
1.583	0.3091	2.62	.Q . . . .
1.667	0.3272	2.63	.Q . . . .
1.750	0.3453	2.64	.Q . . . .
1.833	0.3635	2.64	.Q . . . .
1.917	0.3818	2.65	.Q . . . .
2.000	0.4001	2.66	.Q . . . .
2.083	0.4185	2.67	.Q . . . .
2.167	0.4369	2.67	.Q . . . .
2.250	0.4553	2.68	.Q . . . .
2.333	0.4739	2.69	.Q . . . .
2.417	0.4924	2.70	.QV . . . .
2.500	0.5111	2.71	.QV . . . .
2.583	0.5298	2.71	.QV . . . .
2.667	0.5485	2.72	.QV . . . .
2.750	0.5673	2.73	.QV . . . .
2.833	0.5862	2.74	.QV . . . .
2.917	0.6051	2.75	.QV . . . .
3.000	0.6240	2.75	.QV . . . .
3.083	0.6431	2.76	.QV . . . .
3.167	0.6622	2.77	.QV . . . .
3.250	0.6813	2.78	.QV . . . .
3.333	0.7005	2.79	.QV . . . .
3.417	0.7198	2.80	.QV . . . .
3.500	0.7391	2.81	.Q V . . . .
3.583	0.7585	2.82	.Q V . . . .
3.667	0.7780	2.83	.Q V . . . .
3.750	0.7975	2.83	.Q V . . . .
3.833	0.8171	2.84	.Q V . . . .
3.917	0.8367	2.85	.Q V . . . .
4.000	0.8565	2.86	.Q V . . . .
4.083	0.8762	2.87	.Q V . . . .
4.167	0.8961	2.88	.Q V . . . .
4.250	0.9160	2.89	.Q V . . . .
4.333	0.9360	2.90	.Q V . . . .
4.417	0.9560	2.91	.Q V . . . .
4.500	0.9762	2.92	.Q V . . . .
4.583	0.9964	2.93	.Q V . . . .
4.667	1.0166	2.94	.Q V . . . .
4.750	1.0370	2.95	.Q V . . . .
4.833	1.0574	2.96	.Q V . . . .
4.917	1.0779	2.97	.Q V . . . .
5.000	1.0984	2.98	.Q V . . . .
5.083	1.1190	3.00	.Q V . . . .
5.167	1.1398	3.01	. Q V . . . .
5.250	1.1605	3.02	. Q V . . . .
5.333	1.1814	3.03	. Q V . . . .
5.417	1.2023	3.04	. Q V . . . .
5.500	1.2234	3.05	. Q V . . . .

5.583	1.2445	3.06	. Q	V	.	.	.	.
5.667	1.2656	3.08	. Q	V	.	.	.	.
5.750	1.2869	3.09	. Q	V	.	.	.	.
5.833	1.3083	3.10	. Q	V	.	.	.	.
5.917	1.3297	3.11	. Q	V	.	.	.	.
6.000	1.3512	3.12	. Q	V	.	.	.	.
6.083	1.3728	3.14	. Q	V	.	.	.	.
6.167	1.3945	3.15	. Q	V	.	.	.	.
6.250	1.4163	3.16	. Q	V	.	.	.	.
6.333	1.4381	3.18	. Q	V	.	.	.	.
6.417	1.4601	3.19	. Q	V	.	.	.	.
6.500	1.4821	3.20	. Q	V	.	.	.	.
6.583	1.5043	3.22	. Q	V	.	.	.	.
6.667	1.5265	3.23	. Q	V	.	.	.	.
6.750	1.5489	3.24	. Q	V	.	.	.	.
6.833	1.5713	3.26	. Q	V	.	.	.	.
6.917	1.5938	3.27	. Q	V	.	.	.	.
7.000	1.6164	3.29	. Q	V	.	.	.	.
7.083	1.6392	3.30	. Q	V	.	.	.	.
7.167	1.6620	3.32	. Q	V	.	.	.	.
7.250	1.6849	3.33	. Q	V	.	.	.	.
7.333	1.7080	3.35	. Q	V	.	.	.	.
7.417	1.7311	3.36	. Q	V	.	.	.	.
7.500	1.7544	3.38	. Q	V	.	.	.	.
7.583	1.7777	3.39	. Q	V	.	.	.	.
7.667	1.8012	3.41	. Q	V	.	.	.	.
7.750	1.8248	3.42	. Q	V	.	.	.	.
7.833	1.8485	3.44	. Q	V	.	.	.	.
7.917	1.8723	3.46	. Q	V	.	.	.	.
8.000	1.8962	3.48	. Q	V	.	.	.	.
8.083	1.9203	3.49	. Q	V	.	.	.	.
8.167	1.9445	3.51	. Q	V	.	.	.	.
8.250	1.9688	3.53	. Q	V	.	.	.	.
8.333	1.9932	3.55	. Q	V	.	.	.	.
8.417	2.0177	3.56	. Q	V	.	.	.	.
8.500	2.0424	3.58	. Q	V	.	.	.	.
8.583	2.0672	3.60	. Q	V	.	.	.	.
8.667	2.0922	3.62	. Q	V	.	.	.	.
8.750	2.1173	3.64	. Q	V	.	.	.	.
8.833	2.1425	3.66	. Q	V	.	.	.	.
8.917	2.1678	3.68	. Q	V	.	.	.	.
9.000	2.1933	3.70	. Q	V	.	.	.	.
9.083	2.2190	3.72	. Q	V.	.	.	.	.
9.167	2.2448	3.75	. Q	V.	.	.	.	.
9.250	2.2707	3.77	. Q	V.	.	.	.	.
9.333	2.2968	3.79	. Q	V.	.	.	.	.
9.417	2.3231	3.81	. Q	V.	.	.	.	.
9.500	2.3495	3.84	. Q	V.	.	.	.	.
9.583	2.3761	3.86	. Q	V.	.	.	.	.
9.667	2.4028	3.88	. Q	V.	.	.	.	.
9.750	2.4297	3.91	. Q	V.	.	.	.	.
9.833	2.4568	3.93	. Q	V	.	.	.	.
9.917	2.4841	3.96	. Q	V	.	.	.	.
10.000	2.5115	3.98	. Q	V	.	.	.	.
10.083	2.5391	4.01	. Q	V	.	.	.	.
10.167	2.5669	4.04	. Q	V	.	.	.	.
10.250	2.5949	4.06	. Q	V	.	.	.	.
10.333	2.6231	4.09	. Q	V	.	.	.	.
10.417	2.6515	4.12	. Q	V	.	.	.	.
10.500	2.6801	4.15	. Q	V	.	.	.	.
10.583	2.7089	4.18	. Q	.V	.	.	.	.
10.667	2.7379	4.21	. Q	.V	.	.	.	.
10.750	2.7671	4.24	. Q	.V	.	.	.	.
10.833	2.7965	4.27	. Q	.V	.	.	.	.
10.917	2.8262	4.31	. Q	.V	.	.	.	.
11.000	2.8561	4.34	. Q	.V	.	.	.	.
11.083	2.8862	4.37	. Q	.V	.	.	.	.
11.167	2.9166	4.41	. Q	.V	.	.	.	.
11.250	2.9472	4.45	. Q	. V	.	.	.	.
11.333	2.9781	4.48	. Q	. V	.	.	.	.
11.417	3.0092	4.52	. Q	. V	.	.	.	.
11.500	3.0406	4.56	. Q	. V	.	.	.	.
11.583	3.0723	4.60	. Q	. V	.	.	.	.
11.667	3.1043	4.64	. Q	. V	.	.	.	.
11.750	3.1365	4.68	. Q	. V	.	.	.	.
11.833	3.1691	4.73	. Q	. V	.	.	.	.
11.917	3.2019	4.77	. Q	. V	.	.	.	.

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12.000    3.2351    4.82  .  Q      .  V      .         .         .
12.083    3.2692    4.95  .  Q      .  V      .         .         .
12.167    3.3066    5.42  .  Q      .  V      .         .         .
12.250    3.3466    5.81  .  Q      .  V      .         .         .
12.333    3.3875    5.94  .  Q      .  V      .         .         .
12.417    3.4288    6.00  .  Q      .   V     .         .         .
12.500    3.4705    6.06  .   Q     .   V     .         .         .
12.583    3.5125    6.11  .   Q     .   V     .         .         .
12.667    3.5550    6.17  .   Q     .   V     .         .         .
12.750    3.5979    6.22  .   Q     .   V     .         .         .
12.833    3.6412    6.29  .   Q     .   V     .         .         .
12.917    3.6849    6.35  .   Q     .    V    .         .         .
13.000    3.7290    6.41  .   Q     .    V    .         .         .
13.083    3.7736    6.48  .   Q     .    V    .         .         .
13.167    3.8187    6.55  .   Q     .    V    .         .         .
13.250    3.8643    6.62  .   Q     .    V    .         .         .
13.333    3.9104    6.69  .   Q     .    V    .         .         .
13.417    3.9570    6.77  .   Q     .     V   .         .         .
13.500    4.0042    6.85  .   Q     .     V   .         .         .
13.583    4.0519    6.93  .   Q     .     V   .         .         .
13.667    4.1003    7.02  .   Q     .     V   .         .         .
13.750    4.1493    7.11  .   Q     .     V   .         .         .
13.833    4.1990    7.21  .   Q     .      V  .         .         .
13.917    4.2494    7.31  .   Q     .      V  .         .         .
14.000    4.3005    7.42  .   Q     .      V  .         .         .
14.083    4.3522    7.51  .    Q    .      V  .         .         .
14.167    4.4037    7.49  .   Q     .       V .         .         .
14.250    4.4554    7.50  .   Q     .       V .         .         .
14.333    4.5078    7.61  .    Q    .       V .         .         .
14.417    4.5611    7.75  .    Q    .       V .         .         .
14.500    4.6156    7.91  .    Q    .       V .         .         .
14.583    4.6712    8.07  .    Q    .        V.         .         .
14.667    4.7281    8.26  .    Q    .        V.         .         .
14.750    4.7862    8.45  .    Q    .        V.         .         .
14.833    4.8459    8.66  .    Q    .        V.         .         .
14.917    4.9071    8.89  .    Q    .         V         .         .
15.000    4.9701    9.15  .     Q   .         V         .         .
15.083    5.0350    9.42  .     Q   .         V         .         .
15.167    5.1021    9.74  .     Q   .         V         .         .
15.250    5.1716   10.08  .     Q   .         .V        .         .
15.333    5.2439   10.51  .      Q  .         .V        .         .
15.417    5.3173   10.66  .      Q  .         .V        .         .
15.500    5.3840    9.68  .     Q   .         . V       .         .
15.583    5.4465    9.08  .     Q   .         . V       .         .
15.667    5.5129    9.64  .     Q   .         . V       .         .
15.750    5.5857   10.58  .      Q  .         . V       .         .
15.833    5.6675   11.87  .      Q  .         .  V      .         .
15.917    5.7634   13.93  .       Q.         .  V      .         .
16.000    5.8904   18.44  .        . Q       .   V     .         .
16.083    6.1014   30.63  .        .         Q   V     .         .
16.167    6.4932   56.89  .        .         .     V   .         Q .
16.250    6.8059   45.40  .        .         .      V  Q         .
16.333    6.9468   20.46  .        . Q       .       V .         .
16.417    7.0318   12.35  .       Q .        .       V .         .
16.500    7.1085   11.13  .      Q  .        .        V.         .
16.583    7.1836   10.90  .      Q  .        .        V.         .
16.667    7.2535   10.15  .     Q   .        .        V.         .
16.750    7.3186    9.45  .     Q   .        .        V.         .
16.833    7.3800    8.91  .    Q    .        .         V         .
16.917    7.4383    8.47  .    Q    .        .         V         .
17.000    7.4940    8.09  .    Q    .        .         V         .
17.083    7.5477    7.79  .    Q    .        .         V         .
17.167    7.6003    7.65  .    Q    .        .         .V        .
17.250    7.6521    7.51  .    Q    .        .         .V        .
17.333    7.7024    7.31  .   Q     .        .         .V        .
17.417    7.7515    7.12  .   Q     .        .         .V        .
17.500    7.7992    6.94  .   Q     .        .         .V        .
17.583    7.8459    6.77  .   Q     .        .         . V       .
17.667    7.8915    6.62  .   Q     .        .         . V       .
17.750    7.9361    6.48  .   Q     .        .         . V       .
17.833    7.9798    6.35  .   Q     .        .         . V       .
17.917    8.0227    6.23  .   Q     .        .         . V       .
18.000    8.0648    6.11  .   Q     .        .         . V       .
18.083    8.1056    5.92  .  Q      .        .         .  V      .
18.167    8.1427    5.39  .  Q      .        .         .  V      .
18.250    8.1769    4.96  .  Q      .        .         .  V      .
18.333    8.2099    4.79  .  Q      .        .         .  V      .
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18.417	8.2422	4.69	. Q	.	.	.	V	.	
18.500	8.2739	4.60	. Q	.	.	.	V	.	
18.583	8.3051	4.52	. Q	.	.	.	V	.	
18.667	8.3357	4.45	. Q	.	.	.	V	.	
18.750	8.3658	4.38	. Q	.	.	.	V	.	
18.833	8.3955	4.31	. Q	.	.	.	V	.	
18.917	8.4247	4.24	. Q	.	.	.	V	.	
19.000	8.4535	4.18	. Q	.	.	.	V	.	
19.083	8.4819	4.12	. Q	.	.	.	V	.	
19.167	8.5099	4.06	. Q	.	.	.	V	.	
19.250	8.5375	4.01	. Q	.	.	.	V	.	
19.333	8.5648	3.96	. Q	.	.	.	V	.	
19.417	8.5917	3.91	. Q	.	.	.	V	.	
19.500	8.6182	3.86	. Q	.	.	.	V	.	
19.583	8.6445	3.81	. Q	.	.	.	V	.	
19.667	8.6704	3.77	. Q	.	.	.	V	.	
19.750	8.6961	3.72	. Q	.	.	.	V	.	
19.833	8.7215	3.68	. Q	.	.	.	V	.	
19.917	8.7465	3.64	. Q	.	.	.	V	.	
20.000	8.7714	3.60	. Q	.	.	.	V	.	
20.083	8.7959	3.57	. Q	.	.	.	V	.	
20.167	8.8202	3.53	. Q	.	.	.	V	.	
20.250	8.8443	3.49	. Q	.	.	.	V	.	
20.333	8.8681	3.46	. Q	.	.	.	V	.	
20.417	8.8917	3.42	. Q	.	.	.	V	.	
20.500	8.9150	3.39	. Q	.	.	.	V	.	
20.583	8.9382	3.36	. Q	.	.	.	V	.	
20.667	8.9611	3.33	. Q	.	.	.	V	.	
20.750	8.9838	3.30	. Q	.	.	.	V	.	
20.833	9.0064	3.27	. Q	.	.	.	V	.	
20.917	9.0287	3.24	. Q	.	.	.	V	.	
21.000	9.0509	3.22	. Q	.	.	.	V	.	
21.083	9.0728	3.19	. Q	.	.	.	V	.	
21.167	9.0946	3.16	. Q	.	.	.	V	.	
21.250	9.1162	3.14	. Q	.	.	.	V	.	
21.333	9.1376	3.11	. Q	.	.	.	V	.	
21.417	9.1589	3.09	. Q	.	.	.	V	.	
21.500	9.1800	3.06	. Q	.	.	.	V	.	
21.583	9.2009	3.04	. Q	.	.	.	V	.	
21.667	9.2217	3.02	. Q	.	.	.	V	.	
21.750	9.2423	3.00	.Q	.	.	.	V	.	
21.833	9.2628	2.97	.Q	.	.	.	V	.	
21.917	9.2832	2.95	.Q	.	.	.	V	.	
22.000	9.3034	2.93	.Q	.	.	.	V	.	
22.083	9.3234	2.91	.Q	.	.	.	V	.	
22.167	9.3433	2.89	.Q	.	.	.	V	.	
22.250	9.3631	2.87	.Q	.	.	.	V	.	
22.333	9.3828	2.85	.Q	.	.	.	V	.	
22.417	9.4023	2.83	.Q	.	.	.	V	.	
22.500	9.4217	2.82	.Q	.	.	.	V	.	
22.583	9.4409	2.80	.Q	.	.	.	V	.	
22.667	9.4601	2.78	.Q	.	.	.	V	.	
22.750	9.4791	2.76	.Q	.	.	.	V	.	
22.833	9.4980	2.75	.Q	.	.	.	V	.	
22.917	9.5168	2.73	.Q	.	.	.	V	.	
23.000	9.5355	2.71	.Q	.	.	.	V.		
23.083	9.5541	2.70	.Q	.	.	.	V.		
23.167	9.5726	2.68	.Q	.	.	.	V.		
23.250	9.5909	2.67	.Q	.	.	.	V.		
23.333	9.6092	2.65	.Q	.	.	.	V.		
23.417	9.6273	2.64	.Q	.	.	.	V.		
23.500	9.6454	2.62	.Q	.	.	.	V.		
23.583	9.6633	2.61	.Q	.	.	.	V.		
23.667	9.6812	2.59	.Q	.	.	.	V.		
23.750	9.6990	2.58	.Q	.	.	.	V.		
23.833	9.7166	2.56	.Q	.	.	.	V.		
23.917	9.7342	2.55	.Q	.	.	.	V.		
24.000	9.7517	2.54	.Q	.	.	.	V.		
24.083	9.7675	2.30	.Q	.	.		V.		
24.167	9.7755	1.16	Q	.	.	.	V.		
24.250	9.7772	0.25	Q	.	.	.	V.		
24.333	9.7775	0.05	Q	.	.	.	V.		
24.417	9.7777	0.02	Q	.	.	.	V.		
24.500	9.7777	0.01	Q	.	.	.	V.		

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
(Note: 100% of Peak Flow Rate estimate assumed to have

an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1470.0
10%	355.0
20%	40.0
30%	25.0
40%	15.0
50%	15.0
60%	10.0
70%	10.0
80%	5.0
90%	5.0

****
FLOW PROCESS FROM NODE 241.00 TO NODE 241.00 IS CODE = 3.1

>>>>>FLOW-THROUGH DETENTION BASIN ROUTING MODEL APPLIED TO STREAM #1<<<<<
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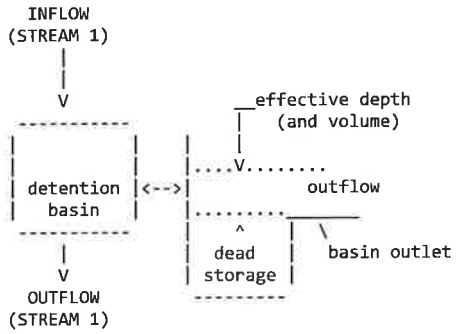

ROUTE RUNOFF HYDROGRAPH FROM STREAM NUMBER 1
THROUGH A FLOW-THROUGH DETENTION BASIN
SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
DEAD STORAGE(AF) = 0.000
SPECIFIED DEAD STORAGE(AF) FILLED = 0.000
SPECIFIED EFFECTIVE VOLUME(AF) FILLED ABOVE OUTLET = 0.000
DETENTION BASIN CONSTANT LOSS RATE(CFS) = 0.00

BASIN DEPTH VERSUS OUTFLOW AND STORAGE INFORMATION:

INTERVAL NUMBER	DEPTH (FT)	OUTFLOW (CFS)	STORAGE (AF)
1	0.00	0.00	0.000
2	0.11	2.80	0.002
3	0.31	3.00	0.050
4	0.51	3.20	0.200
5	0.71	3.40	0.480
6	0.91	3.60	0.850
7	1.11	3.80	1.250
8	1.31	4.00	1.710
9	1.51	4.20	2.200
10	1.71	4.40	2.740
11	1.91	4.50	3.320
12	2.11	4.60	3.940

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MODIFIED-PULS BASIN ROUTING MODEL RESULTS(5-MINUTE COMPUTATION INTERVALS):
(Note: Computed EFFECTIVE DEPTH and VOLUME are estimated at the clock time;
MEAN OUTFLOW is the average value during the unit interval.)

CLOCK TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	LOSS (CFS)	EFFECTIVE DEPTH(FT)	MEAN OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)

0.083	0.000	0.23	0.00	0.01	0.2	0.000
0.167	0.000	1.36	0.00	0.08	1.2	0.001
0.250	0.000	2.26	0.00	0.10	2.2	0.002
0.333	0.000	2.47	0.00	0.10	2.5	0.002
0.417	0.000	2.51	0.00	0.10	2.5	0.002
0.500	0.000	2.53	0.00	0.10	2.5	0.002
0.583	0.000	2.54	0.00	0.10	2.5	0.002
0.667	0.000	2.54	0.00	0.10	2.5	0.002
0.750	0.000	2.55	0.00	0.10	2.6	0.002
0.833	0.000	2.56	0.00	0.10	2.6	0.002
0.917	0.000	2.56	0.00	0.10	2.6	0.002
1.000	0.000	2.57	0.00	0.10	2.6	0.002
1.083	0.000	2.58	0.00	0.10	2.6	0.002
1.167	0.000	2.59	0.00	0.10	2.6	0.002
1.250	0.000	2.59	0.00	0.10	2.6	0.002
1.333	0.000	2.60	0.00	0.10	2.6	0.002
1.417	0.000	2.61	0.00	0.10	2.6	0.002
1.500	0.000	2.61	0.00	0.10	2.6	0.002
1.583	0.000	2.62	0.00	0.10	2.6	0.002
1.667	0.000	2.63	0.00	0.10	2.6	0.002
1.750	0.000	2.64	0.00	0.10	2.6	0.002
1.833	0.000	2.64	0.00	0.10	2.6	0.002
1.917	0.000	2.65	0.00	0.10	2.7	0.002
2.000	0.000	2.66	0.00	0.10	2.7	0.002
2.083	0.000	2.67	0.00	0.10	2.7	0.002
2.167	0.000	2.67	0.00	0.11	2.7	0.002
2.250	0.000	2.68	0.00	0.11	2.7	0.002
2.333	0.000	2.69	0.00	0.11	2.7	0.002
2.417	0.000	2.70	0.00	0.11	2.7	0.002
2.500	0.000	2.71	0.00	0.11	2.7	0.002
2.583	0.000	2.71	0.00	0.11	2.7	0.002
2.667	0.000	2.72	0.00	0.11	2.7	0.002
2.750	0.000	2.73	0.00	0.11	2.7	0.002
2.833	0.000	2.74	0.00	0.11	2.7	0.002
2.917	0.000	2.75	0.00	0.11	2.7	0.002
3.000	0.000	2.75	0.00	0.11	2.8	0.002
3.083	0.000	2.76	0.00	0.11	2.8	0.002
3.167	0.000	2.77	0.00	0.11	2.8	0.002
3.250	0.000	2.78	0.00	0.11	2.8	0.002
3.333	0.000	2.79	0.00	0.11	2.8	0.002
3.417	0.000	2.80	0.00	0.11	2.8	0.002
3.500	0.000	2.81	0.00	0.11	2.8	0.002
3.583	0.000	2.82	0.00	0.11	2.8	0.002
3.667	0.000	2.83	0.00	0.11	2.8	0.002
3.750	0.000	2.83	0.00	0.11	2.8	0.003
3.833	0.000	2.84	0.00	0.11	2.8	0.003
3.917	0.000	2.85	0.00	0.11	2.8	0.003
4.000	0.000	2.86	0.00	0.12	2.8	0.004
4.083	0.000	2.87	0.00	0.12	2.8	0.004
4.167	0.000	2.88	0.00	0.12	2.8	0.005
4.250	0.000	2.89	0.00	0.12	2.8	0.005
4.333	0.000	2.90	0.00	0.13	2.8	0.006
4.417	0.000	2.91	0.00	0.13	2.8	0.006
4.500	0.000	2.92	0.00	0.13	2.8	0.007
4.583	0.000	2.93	0.00	0.13	2.8	0.008
4.667	0.000	2.94	0.00	0.14	2.8	0.009
4.750	0.000	2.95	0.00	0.14	2.8	0.009
4.833	0.000	2.96	0.00	0.14	2.8	0.010
4.917	0.000	2.97	0.00	0.15	2.8	0.011
5.000	0.000	2.98	0.00	0.15	2.8	0.012
5.083	0.000	3.00	0.00	0.16	2.8	0.013
5.167	0.000	3.01	0.00	0.16	2.8	0.014
5.250	0.000	3.02	0.00	0.17	2.9	0.016
5.333	0.000	3.03	0.00	0.17	2.9	0.017
5.417	0.000	3.04	0.00	0.18	2.9	0.018
5.500	0.000	3.05	0.00	0.18	2.9	0.019
5.583	0.000	3.06	0.00	0.19	2.9	0.020
5.667	0.000	3.08	0.00	0.19	2.9	0.022
5.750	0.000	3.09	0.00	0.20	2.9	0.023
5.833	0.000	3.10	0.00	0.20	2.9	0.025
5.917	0.000	3.11	0.00	0.21	2.9	0.026
6.000	0.000	3.12	0.00	0.22	2.9	0.028
6.083	0.000	3.14	0.00	0.22	2.9	0.029
6.167	0.000	3.15	0.00	0.23	2.9	0.031
6.250	0.000	3.16	0.00	0.24	2.9	0.032
6.333	0.000	3.18	0.00	0.24	2.9	0.034
6.417	0.000	3.19	0.00	0.25	2.9	0.036

6.500	0.000	3.20	0.00	0.26	2.9	0.038
6.583	0.000	3.22	0.00	0.27	3.0	0.039
6.667	0.000	3.23	0.00	0.27	3.0	0.041
6.750	0.000	3.24	0.00	0.28	3.0	0.043
6.833	0.000	3.26	0.00	0.29	3.0	0.045
6.917	0.000	3.27	0.00	0.30	3.0	0.047
7.000	0.000	3.29	0.00	0.31	3.0	0.049
7.083	0.000	3.30	0.00	0.31	3.0	0.051
7.167	0.000	3.32	0.00	0.31	3.0	0.053
7.250	0.000	3.33	0.00	0.32	3.0	0.056
7.333	0.000	3.35	0.00	0.32	3.0	0.058
7.417	0.000	3.36	0.00	0.32	3.0	0.060
7.500	0.000	3.38	0.00	0.33	3.0	0.063
7.583	0.000	3.39	0.00	0.33	3.0	0.065
7.667	0.000	3.41	0.00	0.33	3.0	0.068
7.750	0.000	3.42	0.00	0.34	3.0	0.071
7.833	0.000	3.44	0.00	0.34	3.0	0.074
7.917	0.000	3.46	0.00	0.35	3.0	0.077
8.000	0.000	3.48	0.00	0.35	3.0	0.080
8.083	0.000	3.49	0.00	0.35	3.0	0.083
8.167	0.000	3.51	0.00	0.36	3.0	0.086
8.250	0.000	3.53	0.00	0.36	3.0	0.089
8.333	0.000	3.55	0.00	0.37	3.1	0.093
8.417	0.000	3.56	0.00	0.37	3.1	0.096
8.500	0.000	3.58	0.00	0.38	3.1	0.100
8.583	0.000	3.60	0.00	0.38	3.1	0.103
8.667	0.000	3.62	0.00	0.39	3.1	0.107
8.750	0.000	3.64	0.00	0.39	3.1	0.111
8.833	0.000	3.66	0.00	0.40	3.1	0.115
8.917	0.000	3.68	0.00	0.40	3.1	0.119
9.000	0.000	3.70	0.00	0.41	3.1	0.123
9.083	0.000	3.72	0.00	0.41	3.1	0.127
9.167	0.000	3.75	0.00	0.42	3.1	0.132
9.250	0.000	3.77	0.00	0.43	3.1	0.136
9.333	0.000	3.79	0.00	0.43	3.1	0.141
9.417	0.000	3.81	0.00	0.44	3.1	0.146
9.500	0.000	3.84	0.00	0.44	3.1	0.151
9.583	0.000	3.86	0.00	0.45	3.1	0.156
9.667	0.000	3.88	0.00	0.46	3.1	0.161
9.750	0.000	3.91	0.00	0.46	3.2	0.166
9.833	0.000	3.93	0.00	0.47	3.2	0.171
9.917	0.000	3.96	0.00	0.48	3.2	0.177
10.000	0.000	3.98	0.00	0.49	3.2	0.182
10.083	0.000	4.01	0.00	0.49	3.2	0.188
10.167	0.000	4.04	0.00	0.50	3.2	0.194
10.250	0.000	4.06	0.00	0.51	3.2	0.200
10.333	0.000	4.09	0.00	0.51	3.2	0.206
10.417	0.000	4.12	0.00	0.52	3.2	0.212
10.500	0.000	4.15	0.00	0.52	3.2	0.219
10.583	0.000	4.18	0.00	0.53	3.2	0.225
10.667	0.000	4.21	0.00	0.53	3.2	0.232
10.750	0.000	4.24	0.00	0.54	3.2	0.239
10.833	0.000	4.27	0.00	0.54	3.2	0.246
10.917	0.000	4.31	0.00	0.55	3.2	0.254
11.000	0.000	4.34	0.00	0.55	3.2	0.261
11.083	0.000	4.37	0.00	0.56	3.2	0.269
11.167	0.000	4.41	0.00	0.57	3.3	0.277
11.250	0.000	4.45	0.00	0.57	3.3	0.285
11.333	0.000	4.48	0.00	0.58	3.3	0.294
11.417	0.000	4.52	0.00	0.58	3.3	0.302
11.500	0.000	4.56	0.00	0.59	3.3	0.311
11.583	0.000	4.60	0.00	0.60	3.3	0.320
11.667	0.000	4.64	0.00	0.60	3.3	0.329
11.750	0.000	4.68	0.00	0.61	3.3	0.339
11.833	0.000	4.73	0.00	0.62	3.3	0.349
11.917	0.000	4.77	0.00	0.62	3.3	0.359
12.000	0.000	4.82	0.00	0.63	3.3	0.369
12.083	0.000	4.95	0.00	0.64	3.3	0.380
12.167	0.000	5.42	0.00	0.65	3.3	0.395
12.250	0.000	5.81	0.00	0.66	3.3	0.412
12.333	0.000	5.94	0.00	0.67	3.4	0.430
12.417	0.000	6.00	0.00	0.69	3.4	0.448
12.500	0.000	6.06	0.00	0.70	3.4	0.466
12.583	0.000	6.11	0.00	0.71	3.4	0.485
12.667	0.000	6.17	0.00	0.72	3.4	0.504
12.750	0.000	6.22	0.00	0.73	3.4	0.523
12.833	0.000	6.29	0.00	0.74	3.4	0.543

12.917	0.000	6.35	0.00	0.75	3.4	0.563
13.000	0.000	6.41	0.00	0.77	3.5	0.583
13.083	0.000	6.48	0.00	0.78	3.5	0.604
13.167	0.000	6.55	0.00	0.79	3.5	0.625
13.250	0.000	6.62	0.00	0.80	3.5	0.647
13.333	0.000	6.69	0.00	0.81	3.5	0.669
13.417	0.000	6.77	0.00	0.82	3.5	0.691
13.500	0.000	6.85	0.00	0.84	3.5	0.714
13.583	0.000	6.93	0.00	0.85	3.5	0.737
13.667	0.000	7.02	0.00	0.86	3.5	0.761
13.750	0.000	7.11	0.00	0.88	3.6	0.786
13.833	0.000	7.21	0.00	0.89	3.6	0.811
13.917	0.000	7.31	0.00	0.90	3.6	0.837
14.000	0.000	7.42	0.00	0.92	3.6	0.863
14.083	0.000	7.51	0.00	0.93	3.6	0.890
14.167	0.000	7.49	0.00	0.94	3.6	0.916
14.250	0.000	7.50	0.00	0.96	3.6	0.943
14.333	0.000	7.61	0.00	0.97	3.7	0.970
14.417	0.000	7.75	0.00	0.98	3.7	0.998
14.500	0.000	7.91	0.00	1.00	3.7	1.027
14.583	0.000	8.07	0.00	1.01	3.7	1.058
14.667	0.000	8.26	0.00	1.03	3.7	1.089
14.750	0.000	8.45	0.00	1.05	3.7	1.121
14.833	0.000	8.66	0.00	1.06	3.7	1.155
14.917	0.000	8.89	0.00	1.08	3.8	1.191
15.000	0.000	9.15	0.00	1.10	3.8	1.228
15.083	0.000	9.42	0.00	1.12	3.8	1.266
15.167	0.000	9.74	0.00	1.13	3.8	1.307
15.250	0.000	10.08	0.00	1.15	3.8	1.350
15.333	0.000	10.51	0.00	1.17	3.9	1.396
15.417	0.000	10.66	0.00	1.19	3.9	1.443
15.500	0.000	9.68	0.00	1.21	3.9	1.483
15.583	0.000	9.08	0.00	1.23	3.9	1.518
15.667	0.000	9.64	0.00	1.24	3.9	1.558
15.750	0.000	10.58	0.00	1.26	3.9	1.603
15.833	0.000	11.87	0.00	1.29	4.0	1.658
15.917	0.000	13.93	0.00	1.32	4.0	1.726
16.000	0.000	18.44	0.00	1.36	4.0	1.825
16.083	0.000	30.63	0.00	1.43	4.1	2.008
16.167	0.000	56.89	0.00	1.57	4.2	2.371
16.250	0.000	45.40	0.00	1.68	4.3	2.654
16.333	0.000	20.46	0.00	1.72	4.4	2.765
16.417	0.000	12.35	0.00	1.74	4.4	2.819
16.500	0.000	11.13	0.00	1.75	4.4	2.866
16.583	0.000	10.90	0.00	1.77	4.4	2.910
16.667	0.000	10.15	0.00	1.78	4.4	2.950
16.750	0.000	9.45	0.00	1.79	4.4	2.984
16.833	0.000	8.91	0.00	1.80	4.4	3.015
16.917	0.000	8.47	0.00	1.81	4.4	3.043
17.000	0.000	8.09	0.00	1.82	4.5	3.068
17.083	0.000	7.79	0.00	1.83	4.5	3.091
17.167	0.000	7.65	0.00	1.84	4.5	3.113
17.250	0.000	7.51	0.00	1.85	4.5	3.134
17.333	0.000	7.31	0.00	1.85	4.5	3.153
17.417	0.000	7.12	0.00	1.86	4.5	3.171
17.500	0.000	6.94	0.00	1.86	4.5	3.188
17.583	0.000	6.77	0.00	1.87	4.5	3.204
17.667	0.000	6.62	0.00	1.88	4.5	3.219
17.750	0.000	6.48	0.00	1.88	4.5	3.233
17.833	0.000	6.35	0.00	1.88	4.5	3.245
17.917	0.000	6.23	0.00	1.89	4.5	3.257
18.000	0.000	6.11	0.00	1.89	4.5	3.269
18.083	0.000	5.92	0.00	1.90	4.5	3.278
18.167	0.000	5.39	0.00	1.90	4.5	3.285
18.250	0.000	4.96	0.00	1.90	4.5	3.288
18.333	0.000	4.79	0.00	1.90	4.5	3.290
18.417	0.000	4.69	0.00	1.90	4.5	3.291
18.500	0.000	4.60	0.00	1.90	4.5	3.292
18.583	0.000	4.52	0.00	1.90	4.5	3.292
18.667	0.000	4.45	0.00	1.90	4.5	3.292
18.750	0.000	4.38	0.00	1.90	4.5	3.291
18.833	0.000	4.31	0.00	1.90	4.5	3.290
18.917	0.000	4.24	0.00	1.90	4.5	3.288
19.000	0.000	4.18	0.00	1.90	4.5	3.286
19.083	0.000	4.12	0.00	1.90	4.5	3.283
19.167	0.000	4.06	0.00	1.90	4.5	3.280
19.250	0.000	4.01	0.00	1.90	4.5	3.277

← Q_{100} (DISCHARGE) = 4.5 CFS
PONDING DEPTH = 1.90 FT
VOLUME STORED = 3.292 AC-FT

19.333	0.000	3.96	0.00	1.89	4.5	3.273
19.417	0.000	3.91	0.00	1.89	4.5	3.269
19.500	0.000	3.86	0.00	1.89	4.5	3.265
19.583	0.000	3.81	0.00	1.89	4.5	3.260
19.667	0.000	3.77	0.00	1.89	4.5	3.255
19.750	0.000	3.72	0.00	1.89	4.5	3.250
19.833	0.000	3.68	0.00	1.88	4.5	3.244
19.917	0.000	3.64	0.00	1.88	4.5	3.239
20.000	0.000	3.60	0.00	1.88	4.5	3.233
20.083	0.000	3.57	0.00	1.88	4.5	3.226
20.167	0.000	3.53	0.00	1.88	4.5	3.220
20.250	0.000	3.49	0.00	1.87	4.5	3.213
20.333	0.000	3.46	0.00	1.87	4.5	3.206
20.417	0.000	3.42	0.00	1.87	4.5	3.199
20.500	0.000	3.39	0.00	1.87	4.5	3.191
20.583	0.000	3.36	0.00	1.86	4.5	3.183
20.667	0.000	3.33	0.00	1.86	4.5	3.175
20.750	0.000	3.30	0.00	1.86	4.5	3.167
20.833	0.000	3.27	0.00	1.85	4.5	3.159
20.917	0.000	3.24	0.00	1.85	4.5	3.151
21.000	0.000	3.22	0.00	1.85	4.5	3.142
21.083	0.000	3.19	0.00	1.85	4.5	3.133
21.167	0.000	3.16	0.00	1.84	4.5	3.124
21.250	0.000	3.14	0.00	1.84	4.5	3.115
21.333	0.000	3.11	0.00	1.84	4.5	3.106
21.417	0.000	3.09	0.00	1.83	4.5	3.096
21.500	0.000	3.06	0.00	1.83	4.5	3.087
21.583	0.000	3.04	0.00	1.83	4.5	3.077
21.667	0.000	3.02	0.00	1.82	4.5	3.067
21.750	0.000	3.00	0.00	1.82	4.5	3.057
21.833	0.000	2.97	0.00	1.82	4.5	3.047
21.917	0.000	2.95	0.00	1.81	4.5	3.036
22.000	0.000	2.93	0.00	1.81	4.5	3.026
22.083	0.000	2.91	0.00	1.80	4.4	3.015
22.167	0.000	2.89	0.00	1.80	4.4	3.005
22.250	0.000	2.87	0.00	1.80	4.4	2.994
22.333	0.000	2.85	0.00	1.79	4.4	2.983
22.417	0.000	2.83	0.00	1.79	4.4	2.972
22.500	0.000	2.82	0.00	1.79	4.4	2.961
22.583	0.000	2.80	0.00	1.78	4.4	2.949
22.667	0.000	2.78	0.00	1.78	4.4	2.938
22.750	0.000	2.76	0.00	1.77	4.4	2.926
22.833	0.000	2.75	0.00	1.77	4.4	2.915
22.917	0.000	2.73	0.00	1.77	4.4	2.903
23.000	0.000	2.71	0.00	1.76	4.4	2.891
23.083	0.000	2.70	0.00	1.76	4.4	2.879
23.167	0.000	2.68	0.00	1.75	4.4	2.867
23.250	0.000	2.67	0.00	1.75	4.4	2.855
23.333	0.000	2.65	0.00	1.75	4.4	2.843
23.417	0.000	2.64	0.00	1.74	4.4	2.831
23.500	0.000	2.62	0.00	1.74	4.4	2.819
23.583	0.000	2.61	0.00	1.73	4.4	2.806
23.667	0.000	2.59	0.00	1.73	4.4	2.794
23.750	0.000	2.58	0.00	1.72	4.4	2.781
23.833	0.000	2.56	0.00	1.72	4.4	2.768
23.917	0.000	2.55	0.00	1.72	4.4	2.756

PROCESS SUMMARY OF STORAGE:

INFLOW VOLUME = 9.778 AF
BASIN STORAGE = 0.000 AF (WITH 0.000 AF INITIALLY FILLED)
OUTFLOW VOLUME = 9.779 AF
LOSS VOLUME = 0.000 AF

==========

END OF FLOODSCx ROUTING ANALYSIS

Job #3654 Grove Business Center, Ontario
Volume in Building 4 Truck Yard, Node 182

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
665.48	0.00	0				
			8	8	0.00	1.02
665.60	0.12	140				
			209	217	0.00	1.11
665.80	0.32	1950				
			819	1036	0.02	1.19
666.00	0.52	6240				
			1734	2770	0.06	1.26
666.20	0.72	11100				
			2545	5315	0.12	1.33
666.40	0.92	14350				
			3182	8497	0.20	1.40
666.60	1.12	17470				
			3818	12315	0.28	1.47
666.80	1.32	20710				
			3513	15828	0.36	1.52
666.96	1.48	23200				

```
**************************************************************************
                    SMALL AREA UNIT HYDROGRAPH MODEL
==========================================================================
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                        Analysis prepared by:



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 Problem Descriptions:
  JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO
  100-YEAR DETENTION
  BUILDING 4 TRUCK YARD (NODE 182)
--------------------------------------------------------------------------


    RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
    TOTAL CATCHMENT AREA(ACRES) =    3.55
    SOIL-LOSS RATE, Fm,(INCH/HR) =  0.042
    LOW LOSS FRACTION = 0.079
    TIME OF CONCENTRATION(MIN.) =  9.40
    SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
    USER SPECIFIED RAINFALL VALUES ARE USED
    RETURN FREQUENCY(YEARS) = 100
       5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.37
      30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.75
       1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.00
       3-HOUR   POINT RAINFALL VALUE(INCHES) =  1.90
       6-HOUR   POINT RAINFALL VALUE(INCHES) =  2.90
      24-HOUR   POINT RAINFALL VALUE(INCHES) =  5.90

--------------------------------------------------------------------------

    TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     1.45
    TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     0.30

**************************************************************************
  TIME     VOLUME       Q    0.        2.5       5.0       7.5      10.0
 (HOURS)    (AF)      (CFS)
--------------------------------------------------------------------------
  0.02      0.0000      0.00  Q         .         .         .         .
  0.18      0.0024      0.37  .Q        .         .         .         .
  0.33      0.0072      0.37  .Q        .         .         .         .
  0.49      0.0121      0.38  .Q        .         .         .         .
  0.65      0.0169      0.38  .Q        .         .         .         .
  0.80      0.0218      0.38  .Q        .         .         .         .
  0.96      0.0267      0.38  .Q        .         .         .         .
  1.12      0.0317      0.38  .Q        .         .         .         .
  1.27      0.0366      0.38  .Q        .         .         .         .
  1.43      0.0416      0.39  .Q        .         .         .         .
  1.59      0.0466      0.39  .Q        .         .         .         .
  1.74      0.0517      0.39  .Q        .         .         .         .
  1.90      0.0567      0.39  .Q        .         .         .         .
  2.06      0.0618      0.39  .Q        .         .         .         .
  2.21      0.0670      0.40  .Q        .         .         .         .
  2.37      0.0721      0.40  .Q        .         .         .         .
  2.53      0.0773      0.40  .Q        .         .         .         .
  2.68      0.0825      0.40  .Q        .         .         .         .
  2.84      0.0877      0.41  .Q        .         .         .         .
  3.00      0.0930      0.41  .Q        .         .         .         .
  3.15      0.0983      0.41  .Q        .         .         .         .
  3.31      0.1036      0.41  .Q        .         .         .         .
  3.47      0.1090      0.41  .Q        .         .         .         .
  3.62      0.1144      0.42  .Q        .         .         .         .
  3.78      0.1198      0.42  .Q        .         .         .         .
  3.94      0.1253      0.42  .Q        .         .         .         .
  4.09      0.1308      0.43  .Q        .         .         .         .
  4.25      0.1363      0.43  .Q        .         .         .         .
  4.41      0.1419      0.43  .Q        .         .         .         .
```

4.56	0.1475	0.43	.Q	.	.	.	.	
4.72	0.1531	0.44	.Q	.	.	.	.	
4.88	0.1588	0.44	.Q	.	.	.	.	
5.03	0.1645	0.44	.Q	.	.	.	.	
5.19	0.1703	0.45	.Q	.	.	.	.	
5.35	0.1761	0.45	.Q	.	.	.	.	
5.50	0.1819	0.45	.Q	.	.	.	.	
5.66	0.1878	0.46	.Q	.	.	.	.	
5.82	0.1937	0.46	.Q	.	.	.	.	
5.97	0.1997	0.46	.Q	.	.	.	.	
6.13	0.2057	0.47	.Q	.	.	.	.	
6.29	0.2117	0.47	.Q	.	.	.	.	
6.44	0.2178	0.47	.Q	.	.	.	.	
6.60	0.2240	0.48	.Q	.	.	.	.	
6.76	0.2302	0.48	.Q	.	.	.	.	
6.91	0.2364	0.48	.Q	.	.	.	.	
7.07	0.2428	0.49	.Q	.	.	.	.	
7.23	0.2491	0.49	.Q	.	.	.	.	
7.38	0.2555	0.50	.Q	.	.	.	.	
7.54	0.2620	0.50	. Q	.	.	.	.	
7.70	0.2685	0.51	. Q	.	.	.	.	
7.85	0.2751	0.51	. Q	.	.	.	.	
8.01	0.2818	0.52	. Q	.	.	.	.	
8.17	0.2885	0.52	. Q	.	.	.	.	
8.32	0.2952	0.53	. Q	.	.	.	.	
8.48	0.3021	0.53	. Q	.	.	.	.	
8.64	0.3090	0.54	. Q	.	.	.	.	
8.79	0.3160	0.54	. Q	.	.	.	.	
8.95	0.3230	0.55	. Q	.	.	.	.	
9.11	0.3302	0.55	. Q	.	.	.	.	
9.26	0.3374	0.56	. Q	.	.	.	.	
9.42	0.3447	0.57	. Q	.	.	.	.	
9.58	0.3520	0.57	. Q	.	.	.	.	
9.73	0.3595	0.58	. Q	.	.	.	.	
9.89	0.3671	0.59	. Q	.	.	.	.	
10.05	0.3747	0.59	. Q	.	.	.	.	
10.20	0.3824	0.60	. Q	.	.	.	.	
10.36	0.3903	0.61	. Q	.	.	.	.	
10.52	0.3982	0.62	. Q	.	.	.	.	
10.67	0.4063	0.62	. Q	.	.	.	.	
10.83	0.4144	0.64	. Q	.	.	.	.	
10.99	0.4227	0.64	. Q	.	.	.	.	
11.14	0.4311	0.66	. Q	.	.	.	.	
11.30	0.4397	0.66	. Q	.	.	.	.	
11.46	0.4483	0.68	. Q	.	.	.	.	
11.61	0.4572	0.68	. Q	.	.	.	.	
11.77	0.4661	0.70	. Q	.	.	.	.	
11.93	0.4753	0.71	. Q	.	.	.	.	
12.08	0.4848	0.77	. Q	.	.	.	.	
12.24	0.4955	0.87	. Q	.	.	.	.	
12.40	0.5069	0.89	. Q	.	.	.	.	
12.55	0.5185	0.90	. Q	.	.	.	.	
12.71	0.5304	0.93	. Q	.	.	.	.	
12.87	0.5424	0.94	. Q	.	.	.	.	
13.02	0.5547	0.96	. Q	.	.	.	.	
13.18	0.5672	0.97	. Q	.	.	.	.	
13.34	0.5800	1.00	. Q	.	.	.	.	
13.49	0.5931	1.02	. Q	.	.	.	.	
13.65	0.6065	1.05	. Q	.	.	.	.	
13.81	0.6202	1.07	. Q	.	.	.	.	
13.96	0.6343	1.11	. Q	.	.	.	.	
14.12	0.6487	1.12	. Q	.	.	.	.	
14.28	0.6633	1.13	. Q	.	.	.	.	
14.43	0.6781	1.16	. Q	.	.	.	.	
14.59	0.6935	1.22	. Q	.	.	.	.	
14.75	0.7096	1.26	. Q	.	.	.	.	
14.90	0.7264	1.35	. Q	.	.	.	.	
15.06	0.7442	1.40	. Q	.	.	.	.	
15.22	0.7631	1.53	. Q	.	.	.	.	
15.37	0.7835	1.61	. Q	.	.	.	.	
15.53	0.8025	1.33	. Q	.	.	.	.	
15.69	0.8209	1.50	. Q	.	.	.	.	
15.84	0.8440	2.07	. Q	.	.	.	.	
16.00	0.8762	2.91	. .Q	.	.	.	.	
16.16	0.9569	9.54	. .	.	.	.	Q	.
16.31	1.0299	1.74	. Q	.	.	.	.	
16.47	1.0510	1.52	. Q	.	.	.	.	

16.63	1.0702	1.46	.	Q	.	.	.	.
16.78	1.0881	1.30	.	Q	.	.	.	.
16.94	1.1042	1.19	.	Q	.	.	.	.
17.10	1.1190	1.10	.	Q	.	.	.	.
17.25	1.1332	1.09	.	Q	.	.	.	.
17.41	1.1469	1.03	.	Q	.	.	.	.
17.57	1.1600	0.99	.	Q	.	.	.	.
17.72	1.1726	0.95	.	Q	.	.	.	.
17.88	1.1846	0.91	.	Q	.	.	.	.
18.04	1.1963	0.88	.	Q	.	.	.	.
18.19	1.2066	0.72	.	Q	.	.	.	.
18.35	1.2158	0.69	.	Q	.	.	.	.
18.51	1.2246	0.67	.	Q	.	.	.	.
18.66	1.2331	0.65	.	Q	.	.	.	.
18.82	1.2414	0.63	.	Q	.	.	.	.
18.98	1.2495	0.61	.	Q	.	.	.	.
19.13	1.2573	0.60	.	Q	.	.	.	.
19.29	1.2649	0.58	.	Q	.	.	.	.
19.45	1.2724	0.57	.	Q	.	.	.	.
19.60	1.2797	0.56	.	Q	.	.	.	.
19.76	1.2868	0.54	.	Q	.	.	.	.
19.92	1.2938	0.53	.	Q	.	.	.	.
20.07	1.3006	0.52	.	Q	.	.	.	.
20.23	1.3074	0.51	.	Q	.	.	.	.
20.39	1.3140	0.50	.	Q	.	.	.	.
20.54	1.3204	0.50	.	Q	.	.	.	.
20.70	1.3268	0.49	.	Q	.	.	.	.
20.86	1.3330	0.48	.	Q	.	.	.	.
21.01	1.3392	0.47	.	Q	.	.	.	.
21.17	1.3452	0.46	.	Q	.	.	.	.
21.33	1.3512	0.46	.	Q	.	.	.	.
21.48	1.3571	0.45	.	Q	.	.	.	.
21.64	1.3629	0.44	.	Q	.	.	.	.
21.80	1.3686	0.44	.	Q	.	.	.	.
21.95	1.3742	0.43	.	Q	.	.	.	.
22.11	1.3798	0.43	.	Q	.	.	.	.
22.27	1.3853	0.42	.	Q	.	.	.	.
22.42	1.3907	0.42	.	Q	.	.	.	.
22.58	1.3961	0.41	.	Q	.	.	.	.
22.74	1.4014	0.41	.	Q	.	.	.	.
22.89	1.4066	0.40	.	Q	.	.	.	.
23.05	1.4118	0.40	.	Q	.	.	.	.
23.21	1.4169	0.39	.	Q	.	.	.	.
23.36	1.4220	0.39	.	Q	.	.	.	.
23.52	1.4270	0.39	.	Q	.	.	.	.
23.68	1.4320	0.38	.	Q	.	.	.	.
23.83	1.4369	0.38	.	Q	.	.	.	.
23.99	1.4418	0.37	.	Q	.	.	.	.
24.15	1.4466	0.37	.	Q	.	.	.	.
24.30	1.4490	0.00	Q	.	.	.	.	.

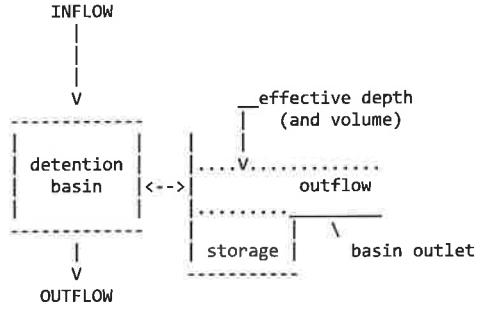
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
(Note: 100% of Peak Flow Rate estimate assumed to have
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1447.6
10%	282.0
20%	28.2
30%	18.8
40%	9.4
50%	9.4
60%	9.4
70%	9.4
80%	9.4
90%	9.4

Problem Descriptions:
JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO
100-YEAR DETENTION
BUILDING 4 TRUCK YARD (NODE 182)

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 9.400
DEAD STORAGE(AF) = 0.00
SPECIFIED DEAD STORAGE(AF) FILLED = 0.00
ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 9

*BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	**	**BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	*
0.000	0.000	0.000**		0.120	0.001	1.020	*
0.320	0.005	1.110**		0.520	0.020	1.190	*
0.720	0.060	1.260**		0.920	0.120	1.330	*
1.120	0.200	1.400**		1.320	0.280	1.470	*
1.480	0.360	1.520**					

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.12	-0.00560	0.00760
3	0.32	-0.00219	0.01219
4	0.52	0.01230	0.02770
5	0.72	0.05184	0.06816
6	0.92	0.11139	0.12861
7	1.12	0.19094	0.20906
8	1.32	0.27048	0.28952
9	1.48	0.35016	0.36984

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:
NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES
OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE
AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.020	0.000	0.00	0.00	0.00	0.000
0.177	0.000	0.37	0.08	0.32	0.001
0.333	0.000	0.37	0.08	0.65	0.001
0.490	0.000	0.38	0.08	0.65	0.001
0.647	0.000	0.38	0.08	0.65	0.001
0.803	0.000	0.38	0.08	0.66	0.001
0.960	0.000	0.38	0.08	0.66	0.001
1.117	0.000	0.38	0.08	0.66	0.001
1.273	0.000	0.38	0.08	0.67	0.001
1.430	0.000	0.39	0.08	0.67	0.001
1.587	0.000	0.39	0.08	0.67	0.001
1.743	0.000	0.39	0.08	0.68	0.001
1.900	0.000	0.39	0.08	0.68	0.001
2.057	0.000	0.39	0.08	0.68	0.001
2.213	0.000	0.40	0.08	0.69	0.001
2.370	0.000	0.40	0.08	0.69	0.001
2.527	0.000	0.40	0.08	0.69	0.001
2.683	0.000	0.40	0.08	0.70	0.001
2.840	0.000	0.41	0.08	0.70	0.001

2.997	0.000	0.41	0.08	0.71	0.001
3.153	0.000	0.41	0.08	0.71	0.001
3.310	0.000	0.41	0.08	0.72	0.001
3.467	0.000	0.41	0.08	0.72	0.001
3.623	0.000	0.42	0.09	0.72	0.001
3.780	0.000	0.42	0.09	0.73	0.001
3.937	0.000	0.42	0.09	0.73	0.001
4.093	0.000	0.43	0.09	0.74	0.001
4.250	0.000	0.43	0.09	0.74	0.001
4.407	0.000	0.43	0.09	0.75	0.001
4.563	0.000	0.43	0.09	0.75	0.001
4.720	0.000	0.44	0.09	0.76	0.001
4.877	0.000	0.44	0.09	0.76	0.001
5.033	0.000	0.44	0.09	0.77	0.001
5.190	0.000	0.45	0.09	0.77	0.001
5.347	0.000	0.45	0.09	0.78	0.001
5.503	0.000	0.45	0.09	0.78	0.001
5.660	0.000	0.46	0.09	0.79	0.001
5.817	0.000	0.46	0.09	0.79	0.001
5.973	0.000	0.46	0.09	0.80	0.001
6.130	0.000	0.47	0.10	0.81	0.001
6.287	0.000	0.47	0.10	0.81	0.001
6.443	0.000	0.47	0.10	0.82	0.001
6.600	0.000	0.48	0.10	0.83	0.001
6.757	0.000	0.48	0.10	0.83	0.001
6.913	0.000	0.48	0.10	0.84	0.001
7.070	0.000	0.49	0.10	0.85	0.001
7.227	0.000	0.49	0.10	0.85	0.001
7.383	0.000	0.50	0.10	0.86	0.001
7.540	0.000	0.50	0.10	0.87	0.001
7.697	0.000	0.51	0.10	0.88	0.001
7.853	0.000	0.51	0.10	0.88	0.001
8.010	0.000	0.52	0.11	0.89	0.001
8.167	0.000	0.52	0.11	0.90	0.001
8.323	0.000	0.53	0.11	0.91	0.001
8.480	0.000	0.53	0.11	0.92	0.001
8.637	0.000	0.54	0.11	0.93	0.001
8.793	0.000	0.54	0.11	0.94	0.001
8.950	0.000	0.55	0.11	0.95	0.001
9.107	0.000	0.55	0.11	0.96	0.001
9.263	0.000	0.56	0.11	0.97	0.001
9.420	0.000	0.57	0.12	0.98	0.001
9.577	0.000	0.57	0.12	0.99	0.001
9.733	0.000	0.58	0.12	1.00	0.001
9.890	0.000	0.59	0.12	1.01	0.001
10.047	0.000	0.59	0.12	1.02	0.001
10.203	0.000	0.60	0.13	1.02	0.001
10.360	0.000	0.61	0.13	1.02	0.001
10.517	0.000	0.62	0.14	1.03	0.001
10.673	0.000	0.62	0.14	1.03	0.001
10.830	0.000	0.64	0.15	1.03	0.002
10.987	0.000	0.64	0.15	1.03	0.002
11.143	0.000	0.66	0.16	1.04	0.002
11.300	0.000	0.66	0.16	1.04	0.002
11.457	0.000	0.68	0.17	1.04	0.002
11.613	0.000	0.68	0.18	1.04	0.002
11.770	0.000	0.70	0.18	1.05	0.002
11.927	0.000	0.71	0.19	1.05	0.002
12.083	0.000	0.77	0.22	1.06	0.003
12.240	0.000	0.87	0.28	1.08	0.004
12.397	0.000	0.89	0.29	1.10	0.004
12.553	0.000	0.90	0.30	1.10	0.005
12.710	0.000	0.93	0.31	1.10	0.005
12.867	0.000	0.94	0.32	1.11	0.005
13.023	0.000	0.96	0.32	1.11	0.005
13.180	0.000	0.97	0.33	1.11	0.005
13.337	0.000	1.00	0.33	1.11	0.006
13.493	0.000	1.02	0.33	1.11	0.006
13.650	0.000	1.05	0.34	1.12	0.006
13.807	0.000	1.07	0.34	1.12	0.007
13.963	0.000	1.11	0.35	1.12	0.007
14.120	0.000	1.12	0.35	1.12	0.007
14.277	0.000	1.13	0.35	1.12	0.007
14.433	0.000	1.16	0.36	1.12	0.008
14.590	0.000	1.22	0.37	1.13	0.009
14.747	0.000	1.26	0.40	1.14	0.011
14.903	0.000	1.35	0.43	1.15	0.013

15.060	0.000	1.40	0.47	1.16	0.016
15.217	0.000	1.53	0.52	1.18	0.021
15.373	0.000	1.61	0.55	1.20	0.026
15.530	0.000	1.33	0.56	1.20	0.028
15.687	0.000	1.50	0.58	1.21	0.032
15.843	0.000	2.07	0.63	1.22	0.043
16.000	0.000	2.91	0.73	1.25	0.064
16.157	0.000	9.54	1.05	1.32	0.171
16.313	0.000	1.74	1.06	1.38	0.175
16.470	0.000	1.52	1.06	1.38	0.177
16.627	0.000	1.46	1.07	1.38	0.178
16.783	0.000	1.30	1.06	1.38	0.177
16.940	0.000	1.19	1.06	1.38	0.175
17.097	0.000	1.10	1.05	1.38	0.171
17.253	0.000	1.09	1.04	1.37	0.167
17.410	0.000	1.03	1.03	1.37	0.163
17.567	0.000	0.99	1.02	1.37	0.158
17.723	0.000	0.95	1.00	1.36	0.153
17.880	0.000	0.91	0.99	1.36	0.147
18.037	0.000	0.88	0.97	1.35	0.141
18.193	0.000	0.72	0.95	1.34	0.133
18.350	0.000	0.69	0.93	1.34	0.125
18.507	0.000	0.67	0.91	1.33	0.116
18.663	0.000	0.65	0.88	1.32	0.107
18.820	0.000	0.63	0.85	1.31	0.099
18.977	0.000	0.61	0.82	1.30	0.090
19.133	0.000	0.60	0.79	1.29	0.081
19.290	0.000	0.58	0.76	1.28	0.072
19.447	0.000	0.57	0.73	1.27	0.063
19.603	0.000	0.56	0.69	1.26	0.054
19.760	0.000	0.54	0.64	1.24	0.045
19.917	0.000	0.53	0.60	1.23	0.036
20.073	0.000	0.52	0.55	1.21	0.027
20.230	0.000	0.51	0.49	1.19	0.018
20.387	0.000	0.50	0.38	1.16	0.010
20.543	0.000	0.50	0.16	1.09	0.002
20.700	0.000	0.49	0.10	0.94	0.001
20.857	0.000	0.48	0.10	0.84	0.001
21.013	0.000	0.47	0.10	0.83	0.001
21.170	0.000	0.46	0.09	0.81	0.001
21.327	0.000	0.46	0.09	0.80	0.001
21.483	0.000	0.45	0.09	0.79	0.001
21.640	0.000	0.44	0.09	0.78	0.001
21.797	0.000	0.44	0.09	0.77	0.001
21.953	0.000	0.43	0.09	0.76	0.001
22.110	0.000	0.43	0.09	0.75	0.001
22.267	0.000	0.42	0.09	0.74	0.001
22.423	0.000	0.42	0.09	0.73	0.001
22.580	0.000	0.41	0.08	0.72	0.001
22.737	0.000	0.41	0.08	0.71	0.001
22.893	0.000	0.40	0.08	0.70	0.001
23.050	0.000	0.40	0.08	0.69	0.001
23.207	0.000	0.39	0.08	0.69	0.001
23.363	0.000	0.39	0.08	0.68	0.001
23.520	0.000	0.39	0.08	0.67	0.001
23.677	0.000	0.38	0.08	0.67	0.001
23.833	0.000	0.38	0.08	0.66	0.001
23.990	0.000	0.37	0.08	0.65	0.001
24.147	0.000	0.37	0.08	0.65	0.001
24.303	0.000	0.00	0.00	0.32	0.000
24.460	0.000	0.00	0.00	0.00	0.000

Q_{100} (DISCHARGE) = 1.4 CFS
PONDING DEPTH = 1.07 FT
VOLUME STORED = 0.178 AC-FT

Job #3654 Grove Business Center, Ontario
Volume in Building 5 Truck Yard, Node 171

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
665.78	0.00	0				
			94	94	0.00	1.06
666.00	0.22	850				
			577	671	0.02	1.15
666.20	0.42	4920				
			1560	2231	0.05	1.23
666.40	0.62	10680				
			2655	4886	0.11	1.30
666.60	0.82	15870				
			3626	8512	0.20	1.37
666.80	1.02	20390				
			4549	13061	0.30	1.43
667.00	1.22	25100				

```
**************************************************************************
                    SMALL AREA UNIT HYDROGRAPH MODEL
**************************************************************************
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                        Analysis prepared by:



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 Problem Descriptions:
  JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO
  100-YEAR DETENTION
  BUILDING 5 TRUCK YARD (NODE 171)
--------------------------------------------------------------------------


    RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
    TOTAL CATCHMENT AREA(ACRES) =    4.10
    SOIL-LOSS RATE, Fm,(INCH/HR) =  0.042
    LOW LOSS FRACTION = 0.079
    TIME OF CONCENTRATION(MIN.) =  8.80
    SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
    USER SPECIFIED RAINFALL VALUES ARE USED
    RETURN FREQUENCY(YEARS) = 100
       5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.37
      30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.75
       1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.00
       3-HOUR   POINT RAINFALL VALUE(INCHES) =  1.90
       6-HOUR   POINT RAINFALL VALUE(INCHES) =  2.90
      24-HOUR   POINT RAINFALL VALUE(INCHES) =  5.90

--------------------------------------------------------------------------

    TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     1.67
    TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     0.34

**************************************************************************
  TIME     VOLUME       Q    0.        5.0      10.0      15.0      20.0
 (HOURS)    (AF)      (CFS)
--------------------------------------------------------------------------
  0.01      0.0000      0.00  Q         .         .         .         .
  0.16      0.0026      0.43  Q         .         .         .         .
  0.31      0.0078      0.43  Q         .         .         .         .
  0.45      0.0130      0.43  Q         .         .         .         .
  0.60      0.0183      0.43  Q         .         .         .         .
  0.75      0.0236      0.44  Q         .         .         .         .
  0.89      0.0289      0.44  Q         .         .         .         .
  1.04      0.0342      0.44  Q         .         .         .         .
  1.19      0.0395      0.44  Q         .         .         .         .
  1.33      0.0449      0.44  Q         .         .         .         .
  1.48      0.0503      0.45  Q         .         .         .         .
  1.63      0.0558      0.45  Q         .         .         .         .
  1.77      0.0612      0.45  Q         .         .         .         .
  1.92      0.0667      0.45  Q         .         .         .         .
  2.07      0.0722      0.46  Q         .         .         .         .
  2.21      0.0778      0.46  Q         .         .         .         .
  2.36      0.0833      0.46  Q         .         .         .         .
  2.51      0.0889      0.46  Q         .         .         .         .
  2.65      0.0946      0.47  Q         .         .         .         .
  2.80      0.1002      0.47  Q         .         .         .         .
  2.95      0.1059      0.47  Q         .         .         .         .
  3.09      0.1116      0.47  Q         .         .         .         .
  3.24      0.1174      0.48  Q         .         .         .         .
  3.39      0.1232      0.48  Q         .         .         .         .
  3.53      0.1290      0.48  Q         .         .         .         .
  3.68      0.1348      0.48  Q         .         .         .         .
  3.83      0.1407      0.49  Q         .         .         .         .
  3.97      0.1466      0.49  Q         .         .         .         .
  4.12      0.1526      0.49  Q         .         .         .         .
```

4.27	0.1586	0.49	Q	.	.	.	.
4.41	0.1646	0.50	Q	.	.	.	.
4.56	0.1706	0.50	.Q	.	.	.	.
4.71	0.1767	0.51	.Q	.	.	.	.
4.85	0.1829	0.51	.Q	.	.	.	.
5.00	0.1890	0.51	.Q	.	.	.	.
5.15	0.1953	0.51	.Q	.	.	.	.
5.29	0.2015	0.52	.Q	.	.	.	.
5.44	0.2078	0.52	.Q	.	.	.	.
5.59	0.2142	0.53	.Q	.	.	.	.
5.73	0.2205	0.53	.Q	.	.	.	.
5.88	0.2270	0.53	.Q	.	.	.	.
6.03	0.2334	0.54	.Q	.	.	.	.
6.17	0.2400	0.54	.Q	.	.	.	.
6.32	0.2465	0.54	.Q	.	.	.	.
6.47	0.2531	0.55	.Q	.	.	.	.
6.61	0.2598	0.55	.Q	.	.	.	.
6.76	0.2665	0.56	.Q	.	.	.	.
6.91	0.2733	0.56	.Q	.	.	.	.
7.05	0.2801	0.57	.Q	.	.	.	.
7.20	0.2870	0.57	.Q	.	.	.	.
7.35	0.2939	0.57	.Q	.	.	.	.
7.49	0.3009	0.58	.Q	.	.	.	.
7.64	0.3079	0.58	.Q	.	.	.	.
7.79	0.3150	0.59	.Q	.	.	.	.
7.93	0.3222	0.59	.Q	.	.	.	.
8.08	0.3294	0.60	.Q	.	.	.	.
8.23	0.3367	0.60	.Q	.	.	.	.
8.37	0.3440	0.61	.Q	.	.	.	.
8.52	0.3515	0.62	.Q	.	.	.	.
8.67	0.3590	0.62	.Q	.	.	.	.
8.81	0.3665	0.63	.Q	.	.	.	.
8.96	0.3742	0.63	.Q	.	.	.	.
9.11	0.3819	0.64	.Q	.	.	.	.
9.25	0.3897	0.65	.Q	.	.	.	.
9.40	0.3976	0.65	.Q	.	.	.	.
9.55	0.4055	0.66	.Q	.	.	.	.
9.69	0.4136	0.67	.Q	.	.	.	.
9.84	0.4217	0.67	.Q	.	.	.	.
9.99	0.4299	0.68	.Q	.	.	.	.
10.13	0.4383	0.69	.Q	.	.	.	.
10.28	0.4467	0.70	.Q	.	.	.	.
10.43	0.4552	0.71	.Q	.	.	.	.
10.57	0.4639	0.72	.Q	.	.	.	.
10.72	0.4726	0.73	.Q	.	.	.	.
10.87	0.4815	0.74	.Q	.	.	.	.
11.01	0.4905	0.75	.Q	.	.	.	.
11.16	0.4996	0.76	.Q	.	.	.	.
11.31	0.5089	0.77	.Q	.	.	.	.
11.45	0.5182	0.78	.Q	.	.	.	.
11.60	0.5278	0.79	.Q	.	.	.	.
11.75	0.5375	0.81	.Q	.	.	.	.
11.89	0.5473	0.82	.Q	.	.	.	.
12.04	0.5573	0.84	.Q	.	.	.	.
12.19	0.5684	0.99	.Q	.	.	.	.
12.33	0.5806	1.03	. Q	.	.	.	.
12.48	0.5931	1.04	. Q	.	.	.	.
12.63	0.6058	1.06	. Q	.	.	.	.
12.77	0.6187	1.07	. Q	.	.	.	.
12.92	0.6319	1.10	. Q	.	.	.	.
13.07	0.6452	1.11	. Q	.	.	.	.
13.21	0.6589	1.14	. Q	.	.	.	.
13.36	0.6728	1.15	. Q	.	.	.	.
13.51	0.6869	1.19	. Q	.	.	.	.
13.65	0.7014	1.20	. Q	.	.	.	.
13.80	0.7163	1.24	. Q	.	.	.	.
13.95	0.7315	1.27	. Q	.	.	.	.
14.09	0.7470	1.29	. Q	.	.	.	.
14.24	0.7625	1.28	. Q	.	.	.	.
14.39	0.7784	1.34	. Q	.	.	.	.
14.53	0.7949	1.38	. Q	.	.	.	.
14.68	0.8120	1.45	. Q	.	.	.	.
14.83	0.8299	1.49	. Q	.	.	.	.
14.97	0.8486	1.60	. Q	.	.	.	.
15.12	0.8684	1.66	. Q	.	.	.	.
15.27	0.8894	1.81	. Q	.	.	.	.
15.41	0.9120	1.92	. Q	.	.	.	.

15.56	0.9334	1.60	. Q	.	.	.	.	.
15.71	0.9540	1.80	. Q	.	.	.	.	.
15.85	0.9800	2.50	. Q	.	.	.	.	.
16.00	1.0164	3.50	. Q	.	.	.	.	.
16.15	1.1072	11.48	.	.	.	Q	.	.
16.29	1.1893	2.07	. Q	.	.	.	.	.
16.44	1.2112	1.56	. Q	.	.	.	.	.
16.59	1.2311	1.73	. Q	.	.	.	.	.
16.73	1.2510	1.54	. Q	.	.	.	.	.
16.88	1.2689	1.41	. Q	.	.	.	.	.
17.03	1.2854	1.31	. Q	.	.	.	.	.
17.17	1.3012	1.29	. Q	.	.	.	.	.
17.32	1.3164	1.22	. Q	.	.	.	.	.
17.47	1.3309	1.17	. Q	.	.	.	.	.
17.61	1.3448	1.12	. Q	.	.	.	.	.
17.76	1.3582	1.08	. Q	.	.	.	.	.
17.91	1.3711	1.05	. Q	.	.	.	.	.
18.05	1.3836	1.02	. Q	.	.	.	.	.
18.20	1.3947	0.83	.Q	.	.	.	.	.
18.35	1.4046	0.80	.Q	.	.	.	.	.
18.49	1.4141	0.77	.Q	.	.	.	.	.
18.64	1.4234	0.75	.Q	.	.	.	.	.
18.79	1.4324	0.73	.Q	.	.	.	.	.
18.93	1.4411	0.71	.Q	.	.	.	.	.
19.08	1.4497	0.70	.Q	.	.	.	.	.
19.23	1.4580	0.68	.Q	.	.	.	.	.
19.37	1.4661	0.66	.Q	.	.	.	.	.
19.52	1.4741	0.65	.Q	.	.	.	.	.
19.67	1.4819	0.64	.Q	.	.	.	.	.
19.81	1.4895	0.62	.Q	.	.	.	.	.
19.96	1.4970	0.61	.Q	.	.	.	.	.
20.11	1.5044	0.60	.Q	.	.	.	.	.
20.25	1.5116	0.59	.Q	.	.	.	.	.
20.40	1.5187	0.58	.Q	.	.	.	.	.
20.55	1.5257	0.57	.Q	.	.	.	.	.
20.69	1.5326	0.56	.Q	.	.	.	.	.
20.84	1.5393	0.55	.Q	.	.	.	.	.
20.99	1.5460	0.55	.Q	.	.	.	.	.
21.13	1.5526	0.54	.Q	.	.	.	.	.
21.28	1.5590	0.53	.Q	.	.	.	.	.
21.43	1.5654	0.52	.Q	.	.	.	.	.
21.57	1.5717	0.52	.Q	.	.	.	.	.
21.72	1.5779	0.51	.Q	.	.	.	.	.
21.87	1.5841	0.50	.Q	.	.	.	.	.
22.01	1.5901	0.50	Q	.	.	.	.	.
22.16	1.5961	0.49	Q	.	.	.	.	.
22.31	1.6020	0.49	Q	.	.	.	.	.
22.45	1.6079	0.48	Q	.	.	.	.	.
22.60	1.6137	0.47	Q	.	.	.	.	.
22.75	1.6194	0.47	Q	.	.	.	.	.
22.89	1.6250	0.46	Q	.	.	.	.	.
23.04	1.6306	0.46	Q	.	.	.	.	.
23.19	1.6362	0.45	Q	.	.	.	.	.
23.33	1.6417	0.45	Q	.	.	.	.	.
23.48	1.6471	0.45	Q	.	.	.	.	.
23.63	1.6525	0.44	Q	.	.	.	.	.
23.77	1.6578	0.44	Q	.	.	.	.	.
23.92	1.6631	0.43	Q	.	.	.	.	.
24.07	1.6683	0.43	Q	.	.	.	.	.
24.21	1.6709	0.00	Q	.	.	.	.	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
(Note: 100% of Peak Flow Rate estimate assumed to have
an instantaneous time duration)

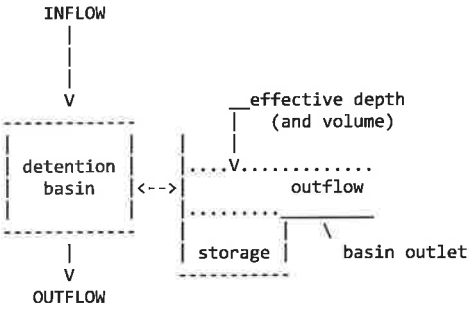
Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1443.2
10%	255.2
20%	26.4
30%	17.6
40%	8.8
50%	8.8
60%	8.8
70%	8.8

80%	8.8
90%	8.8

Problem Descriptions:
JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO
100-YEAR DETENTION
BUILDING 5 TRUCK YARD (NODE 171)

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 8.800
DEAD STORAGE(AF) = 0.00
SPECIFIED DEAD STORAGE(AF) FILLED = 0.00
ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 7

*BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	**	**BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	*
0.000	0.000	0.000**		0.220	0.002	1.060	*
0.420	0.020	1.150**		0.620	0.050	1.230	*
0.820	0.110	1.300**		1.020	0.200	1.370	*
1.220	0.300	1.430**					

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.22	-0.00442	0.00842
3	0.42	0.01303	0.02697
4	0.62	0.04255	0.05745
5	0.82	0.10212	0.11788
6	1.02	0.19170	0.20830
7	1.22	0.29133	0.30867

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:
NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES
OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE
AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.013	0.000	0.00	0.00	0.00	0.000
0.160	0.000	0.43	0.14	0.33	0.001
0.307	0.000	0.43	0.14	0.66	0.001
0.453	0.000	0.43	0.14	0.66	0.001
0.600	0.000	0.43	0.14	0.66	0.001
0.747	0.000	0.44	0.14	0.66	0.001
0.893	0.000	0.44	0.14	0.67	0.001
1.040	0.000	0.44	0.14	0.67	0.001
1.187	0.000	0.44	0.14	0.67	0.001
1.333	0.000	0.44	0.14	0.68	0.001
1.480	0.000	0.45	0.14	0.68	0.001
1.627	0.000	0.45	0.14	0.68	0.001

1.773	0.000	0.45	0.14	0.69	0.001
1.920	0.000	0.45	0.14	0.69	0.001
2.067	0.000	0.46	0.14	0.69	0.001
2.213	0.000	0.46	0.14	0.70	0.001
2.360	0.000	0.46	0.15	0.70	0.001
2.507	0.000	0.46	0.15	0.70	0.001
2.653	0.000	0.47	0.15	0.71	0.001
2.800	0.000	0.47	0.15	0.71	0.001
2.947	0.000	0.47	0.15	0.72	0.001
3.093	0.000	0.47	0.15	0.72	0.001
3.240	0.000	0.48	0.15	0.72	0.001
3.387	0.000	0.48	0.15	0.73	0.001
3.533	0.000	0.48	0.15	0.73	0.001
3.680	0.000	0.48	0.15	0.74	0.001
3.827	0.000	0.49	0.15	0.74	0.001
3.973	0.000	0.49	0.15	0.74	0.001
4.120	0.000	0.49	0.16	0.75	0.001
4.267	0.000	0.49	0.16	0.75	0.001
4.413	0.000	0.50	0.16	0.76	0.001
4.560	0.000	0.50	0.16	0.76	0.001
4.707	0.000	0.51	0.16	0.77	0.001
4.853	0.000	0.51	0.16	0.77	0.001
5.000	0.000	0.51	0.16	0.78	0.001
5.147	0.000	0.51	0.16	0.78	0.001
5.293	0.000	0.52	0.16	0.79	0.001
5.440	0.000	0.52	0.16	0.79	0.001
5.587	0.000	0.53	0.17	0.80	0.002
5.733	0.000	0.53	0.17	0.80	0.002
5.880	0.000	0.53	0.17	0.81	0.002
6.027	0.000	0.54	0.17	0.81	0.002
6.173	0.000	0.54	0.17	0.82	0.002
6.320	0.000	0.54	0.17	0.83	0.002
6.467	0.000	0.55	0.17	0.83	0.002
6.613	0.000	0.55	0.17	0.84	0.002
6.760	0.000	0.56	0.18	0.84	0.002
6.907	0.000	0.56	0.18	0.85	0.002
7.053	0.000	0.57	0.18	0.86	0.002
7.200	0.000	0.57	0.18	0.86	0.002
7.347	0.000	0.57	0.18	0.87	0.002
7.493	0.000	0.58	0.18	0.88	0.002
7.640	0.000	0.58	0.18	0.89	0.002
7.787	0.000	0.59	0.19	0.89	0.002
7.933	0.000	0.59	0.19	0.90	0.002
8.080	0.000	0.60	0.19	0.91	0.002
8.227	0.000	0.60	0.19	0.92	0.002
8.373	0.000	0.61	0.19	0.93	0.002
8.520	0.000	0.62	0.20	0.93	0.002
8.667	0.000	0.62	0.20	0.94	0.002
8.813	0.000	0.63	0.20	0.95	0.002
8.960	0.000	0.63	0.20	0.96	0.002
9.107	0.000	0.64	0.20	0.97	0.002
9.253	0.000	0.65	0.20	0.98	0.002
9.400	0.000	0.65	0.21	0.99	0.002
9.547	0.000	0.66	0.21	1.00	0.002
9.693	0.000	0.67	0.21	1.01	0.002
9.840	0.000	0.67	0.21	1.02	0.002
9.987	0.000	0.68	0.22	1.04	0.002
10.133	0.000	0.69	0.22	1.05	0.002
10.280	0.000	0.70	0.22	1.06	0.002
10.427	0.000	0.71	0.22	1.06	0.002
10.573	0.000	0.72	0.22	1.06	0.002
10.720	0.000	0.73	0.22	1.06	0.002
10.867	0.000	0.74	0.23	1.06	0.003
11.013	0.000	0.75	0.23	1.06	0.003
11.160	0.000	0.76	0.23	1.06	0.003
11.307	0.000	0.77	0.23	1.06	0.003
11.453	0.000	0.78	0.23	1.06	0.003
11.600	0.000	0.79	0.23	1.07	0.003
11.747	0.000	0.81	0.23	1.07	0.003
11.893	0.000	0.82	0.24	1.07	0.003
12.040	0.000	0.84	0.24	1.07	0.004
12.187	0.000	0.99	0.26	1.07	0.005
12.333	0.000	1.03	0.26	1.08	0.006
12.480	0.000	1.04	0.26	1.08	0.006
12.627	0.000	1.06	0.27	1.08	0.006
12.773	0.000	1.07	0.27	1.08	0.006
12.920	0.000	1.10	0.27	1.08	0.007

13.067	0.000	1.11	0.28	1.08	0.007
13.213	0.000	1.14	0.28	1.09	0.008
13.360	0.000	1.15	0.29	1.09	0.008
13.507	0.000	1.19	0.30	1.09	0.010
13.653	0.000	1.20	0.32	1.10	0.011
13.800	0.000	1.24	0.34	1.11	0.012
13.947	0.000	1.27	0.36	1.12	0.014
14.093	0.000	1.29	0.38	1.13	0.016
14.240	0.000	1.28	0.40	1.14	0.018
14.387	0.000	1.34	0.42	1.15	0.020
14.533	0.000	1.38	0.44	1.15	0.023
14.680	0.000	1.45	0.46	1.16	0.027
14.827	0.000	1.49	0.49	1.17	0.030
14.973	0.000	1.60	0.52	1.18	0.035
15.120	0.000	1.66	0.56	1.20	0.041
15.267	0.000	1.81	0.61	1.22	0.048
15.413	0.000	1.92	0.64	1.23	0.057
15.560	0.000	1.60	0.66	1.24	0.061
15.707	0.000	1.80	0.68	1.25	0.068
15.853	0.000	2.50	0.73	1.26	0.083
16.000	0.000	3.50	0.82	1.28	0.110
16.147	0.000	11.48	1.08	1.34	0.232
16.293	0.000	2.07	1.10	1.39	0.241
16.440	0.000	1.56	1.11	1.39	0.243
16.587	0.000	1.73	1.11	1.40	0.247
16.733	0.000	1.54	1.12	1.40	0.248
16.880	0.000	1.41	1.12	1.40	0.249
17.027	0.000	1.31	1.11	1.40	0.247
17.173	0.000	1.29	1.11	1.40	0.246
17.320	0.000	1.22	1.11	1.40	0.244
17.467	0.000	1.17	1.10	1.40	0.241
17.613	0.000	1.12	1.10	1.39	0.238
17.760	0.000	1.08	1.09	1.39	0.234
17.907	0.000	1.05	1.08	1.39	0.230
18.053	0.000	1.02	1.07	1.39	0.226
18.200	0.000	0.83	1.06	1.38	0.219
18.347	0.000	0.80	1.04	1.38	0.212
18.493	0.000	0.77	1.03	1.37	0.205
18.640	0.000	0.75	1.01	1.37	0.197
18.787	0.000	0.73	1.00	1.36	0.189
18.933	0.000	0.71	0.98	1.36	0.182
19.080	0.000	0.70	0.96	1.35	0.174
19.227	0.000	0.68	0.94	1.35	0.166
19.373	0.000	0.66	0.93	1.34	0.157
19.520	0.000	0.65	0.91	1.33	0.149
19.667	0.000	0.64	0.89	1.33	0.141
19.813	0.000	0.62	0.87	1.32	0.132
19.960	0.000	0.61	0.85	1.31	0.124
20.107	0.000	0.60	0.83	1.31	0.115
20.253	0.000	0.59	0.81	1.30	0.107
20.400	0.000	0.58	0.78	1.29	0.098
20.547	0.000	0.57	0.75	1.28	0.089
20.693	0.000	0.56	0.72	1.27	0.081
20.840	0.000	0.55	0.69	1.26	0.072
20.987	0.000	0.55	0.67	1.25	0.064
21.133	0.000	0.54	0.64	1.24	0.055
21.280	0.000	0.53	0.60	1.23	0.047
21.427	0.000	0.52	0.54	1.21	0.038
21.573	0.000	0.52	0.49	1.19	0.030
21.720	0.000	0.51	0.43	1.17	0.022
21.867	0.000	0.50	0.36	1.14	0.015
22.013	0.000	0.50	0.28	1.10	0.007
22.160	0.000	0.49	0.17	0.95	0.002
22.307	0.000	0.49	0.15	0.78	0.001
22.453	0.000	0.48	0.15	0.74	0.001
22.600	0.000	0.47	0.15	0.73	0.001
22.747	0.000	0.47	0.15	0.72	0.001
22.893	0.000	0.46	0.15	0.71	0.001
23.040	0.000	0.46	0.15	0.70	0.001
23.187	0.000	0.45	0.14	0.70	0.001
23.333	0.000	0.45	0.14	0.69	0.001
23.480	0.000	0.45	0.14	0.68	0.001
23.627	0.000	0.44	0.14	0.68	0.001
23.773	0.000	0.44	0.14	0.67	0.001
23.920	0.000	0.43	0.14	0.66	0.001
24.067	0.000	0.43	0.14	0.66	0.001
24.213	0.000	0.00	0.00	0.33	0.000

← Q_{100} (DISCHARGE) = 1.4 CFS
PONDING DEPTH = 1.12 FT
VOLUME STORED = 0.249 AC-FT

24.360	0.000	0.00	0.00	0.00	0.000

Job #3654 Grove Business Center, Ontario
Volume in Building 6 Truck Yard, Node 151

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
667.06	0.00	0				
			14	14	0.00	1.8
667.20	0.14	200				
			314	328	0.01	2.0
667.40	0.34	2940				
			1145	1473	0.03	2.1
667.60	0.54	8510				
			2212	3685	0.08	2.2
667.80	0.74	13610				
			3219	6904	0.16	2.4
668.00	0.94	18580				

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**************************************************************************
                    SMALL AREA UNIT HYDROGRAPH MODEL
**************************************************************************
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                        Analysis prepared by:



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 Problem Descriptions:
  JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO
  100-YEAR DETENTION
  BUILDING 6 TRUCK YARD (NODE 151)
--------------------------------------------------------------------------


    RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
    TOTAL CATCHMENT AREA(ACRES) =    4.00
    SOIL-LOSS RATE, Fm,(INCH/HR) =  0.042
    LOW LOSS FRACTION = 0.079
    TIME OF CONCENTRATION(MIN.) =  8.70
    SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
    USER SPECIFIED RAINFALL VALUES ARE USED
    RETURN FREQUENCY(YEARS) = 100
       5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.37
      30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.75
       1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.00
       3-HOUR   POINT RAINFALL VALUE(INCHES) =  1.90
       6-HOUR   POINT RAINFALL VALUE(INCHES) =  2.90
      24-HOUR   POINT RAINFALL VALUE(INCHES) =  5.90

--------------------------------------------------------------------------

    TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     1.63
    TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     0.34

**************************************************************************
  TIME     VOLUME       Q    0.        5.0      10.0      15.0      20.0
 (HOURS)    (AF)      (CFS)
--------------------------------------------------------------------------
  0.05      0.0000      0.00  Q         .         .         .         .
  0.20      0.0025      0.42  Q         .         .         .         .
  0.34      0.0075      0.42  Q         .         .         .         .
  0.49      0.0126      0.42  Q         .         .         .         .
  0.63      0.0177      0.42  Q         .         .         .         .
  0.78      0.0228      0.43  Q         .         .         .         .
  0.92      0.0279      0.43  Q         .         .         .         .
  1.07      0.0330      0.43  Q         .         .         .         .
  1.21      0.0382      0.43  Q         .         .         .         .
  1.36      0.0434      0.43  Q         .         .         .         .
  1.50      0.0486      0.44  Q         .         .         .         .
  1.65      0.0538      0.44  Q         .         .         .         .
  1.79      0.0591      0.44  Q         .         .         .         .
  1.94      0.0644      0.44  Q         .         .         .         .
  2.08      0.0697      0.44  Q         .         .         .         .
  2.23      0.0751      0.45  Q         .         .         .         .
  2.37      0.0804      0.45  Q         .         .         .         .
  2.52      0.0858      0.45  Q         .         .         .         .
  2.66      0.0913      0.45  Q         .         .         .         .
  2.81      0.0967      0.46  Q         .         .         .         .
  2.95      0.1022      0.46  Q         .         .         .         .
  3.10      0.1077      0.46  Q         .         .         .         .
  3.24      0.1133      0.46  Q         .         .         .         .
  3.39      0.1189      0.47  Q         .         .         .         .
  3.53      0.1245      0.47  Q         .         .         .         .
  3.68      0.1301      0.47  Q         .         .         .         .
  3.82      0.1358      0.47  Q         .         .         .         .
  3.97      0.1415      0.48  Q         .         .         .         .
  4.11      0.1472      0.48  Q         .         .         .         .
```

4.26	0.1530	0.48	Q	.	.	.	.
4.40	0.1588	0.49	Q	.	.	.	.
4.55	0.1646	0.49	Q	.	.	.	.
4.69	0.1705	0.49	Q	.	.	.	.
4.84	0.1764	0.50	Q	.	.	.	.
4.98	0.1824	0.50	Q	.	.	.	.
5.12	0.1884	0.50	.Q	.	.	.	.
5.27	0.1944	0.50	.Q	.	.	.	.
5.42	0.2005	0.51	.Q	.	.	.	.
5.56	0.2066	0.51	.Q	.	.	.	.
5.71	0.2127	0.52	.Q	.	.	.	.
5.85	0.2189	0.52	.Q	.	.	.	.
6.00	0.2252	0.52	.Q	.	.	.	.
6.14	0.2314	0.53	.Q	.	.	.	.
6.29	0.2378	0.53	.Q	.	.	.	.
6.43	0.2441	0.53	.Q	.	.	.	.
6.57	0.2505	0.54	.Q	.	.	.	.
6.72	0.2570	0.54	.Q	.	.	.	.
6.87	0.2635	0.55	.Q	.	.	.	.
7.01	0.2701	0.55	.Q	.	.	.	.
7.16	0.2767	0.55	.Q	.	.	.	.
7.30	0.2833	0.56	.Q	.	.	.	.
7.45	0.2901	0.56	.Q	.	.	.	.
7.59	0.2968	0.57	.Q	.	.	.	.
7.74	0.3037	0.57	.Q	.	.	.	.
7.88	0.3105	0.58	.Q	.	.	.	.
8.02	0.3175	0.58	.Q	.	.	.	.
8.17	0.3245	0.59	.Q	.	.	.	.
8.32	0.3316	0.59	.Q	.	.	.	.
8.46	0.3387	0.60	.Q	.	.	.	.
8.60	0.3459	0.60	.Q	.	.	.	.
8.75	0.3532	0.61	.Q	.	.	.	.
8.90	0.3605	0.62	.Q	.	.	.	.
9.04	0.3679	0.62	.Q	.	.	.	.
9.19	0.3754	0.63	.Q	.	.	.	.
9.33	0.3830	0.63	.Q	.	.	.	.
9.48	0.3906	0.64	.Q	.	.	.	.
9.62	0.3983	0.65	.Q	.	.	.	.
9.77	0.4061	0.66	.Q	.	.	.	.
9.91	0.4140	0.66	.Q	.	.	.	.
10.05	0.4220	0.67	.Q	.	.	.	.
10.20	0.4301	0.68	.Q	.	.	.	.
10.35	0.4383	0.69	.Q	.	.	.	.
10.49	0.4465	0.69	.Q	.	.	.	.
10.64	0.4549	0.71	.Q	.	.	.	.
10.78	0.4634	0.71	.Q	.	.	.	.
10.93	0.4720	0.72	.Q	.	.	.	.
11.07	0.4807	0.73	.Q	.	.	.	.
11.22	0.4896	0.75	.Q	.	.	.	.
11.36	0.4986	0.75	.Q	.	.	.	.
11.51	0.5077	0.77	.Q	.	.	.	.
11.65	0.5169	0.78	.Q	.	.	.	.
11.80	0.5263	0.79	.Q	.	.	.	.
11.94	0.5359	0.80	.Q	.	.	.	.
12.09	0.5459	0.88	.Q	.	.	.	.
12.23	0.5571	0.99	.Q	.	.	.	.
12.38	0.5690	1.01	. Q	.	.	.	.
12.52	0.5811	1.02	. Q	.	.	.	.
12.66	0.5935	1.04	. Q	.	.	.	.
12.81	0.6060	1.05	. Q	.	.	.	.
12.95	0.6187	1.07	. Q	.	.	.	.
13.10	0.6316	1.09	. Q	.	.	.	.
13.24	0.6448	1.12	. Q	.	.	.	.
13.39	0.6583	1.13	. Q	.	.	.	.
13.53	0.6720	1.16	. Q	.	.	.	.
13.68	0.6861	1.18	. Q	.	.	.	.
13.82	0.7005	1.22	. Q	.	.	.	.
13.97	0.7152	1.24	. Q	.	.	.	.
14.12	0.7301	1.25	. Q	.	.	.	.
14.26	0.7451	1.26	. Q	.	.	.	.
14.40	0.7605	1.32	. Q	.	.	.	.
14.55	0.7765	1.35	. Q	.	.	.	.
14.70	0.7931	1.42	. Q	.	.	.	.
14.84	0.8104	1.47	. Q	.	.	.	.
14.98	0.8286	1.57	. Q	.	.	.	.
15.13	0.8477	1.63	. Q	.	.	.	.
15.27	0.8681	1.78	. Q	.	.	.	.

15.42	0.8900	1.88	. Q	.	.	.	.
15.57	0.9107	1.57	. Q	.	.	.	.
15.71	0.9307	1.77	. Q	.	.	.	.
15.85	0.9560	2.45	. Q	.	.	.	.
16.00	0.9914	3.44	. Q	.	.	.	.
16.15	1.0796	11.28	.	.	. Q	.	.
16.29	1.1593	2.03	. Q	.	.	.	.
16.43	1.1803	1.48	. Q	.	.	.	.
16.58	1.1994	1.70	. Q	.	.	.	.
16.73	1.2186	1.51	. Q	.	.	.	.
16.87	1.2359	1.38	. Q	.	.	.	.
17.02	1.2519	1.29	. Q	.	.	.	.
17.16	1.2672	1.26	. Q	.	.	.	.
17.31	1.2819	1.20	. Q	.	.	.	.
17.45	1.2960	1.15	. Q	.	.	.	.
17.59	1.3095	1.10	. Q	.	.	.	.
17.74	1.3224	1.06	. Q	.	.	.	.
17.89	1.3349	1.03	. Q	.	.	.	.
18.03	1.3471	1.00	.Q	.	.	.	.
18.17	1.3579	0.81	.Q	.	.	.	.
18.32	1.3674	0.78	.Q	.	.	.	.
18.47	1.3767	0.76	.Q	.	.	.	.
18.61	1.3857	0.74	.Q	.	.	.	.
18.76	1.3944	0.72	.Q	.	.	.	.
18.90	1.4029	0.70	.Q	.	.	.	.
19.05	1.4112	0.68	.Q	.	.	.	.
19.19	1.4192	0.67	.Q	.	.	.	.
19.33	1.4271	0.65	.Q	.	.	.	.
19.48	1.4348	0.64	.Q	.	.	.	.
19.62	1.4424	0.62	.Q	.	.	.	.
19.77	1.4498	0.61	.Q	.	.	.	.
19.92	1.4571	0.60	.Q	.	.	.	.
20.06	1.4642	0.59	.Q	.	.	.	.
20.20	1.4712	0.58	.Q	.	.	.	.
20.35	1.4781	0.57	.Q	.	.	.	.
20.49	1.4849	0.56	.Q	.	.	.	.
20.64	1.4916	0.55	.Q	.	.	.	.
20.78	1.4981	0.54	.Q	.	.	.	.
20.93	1.5046	0.54	.Q	.	.	.	.
21.08	1.5110	0.53	.Q	.	.	.	.
21.22	1.5172	0.52	.Q	.	.	.	.
21.36	1.5234	0.51	.Q	.	.	.	.
21.51	1.5295	0.51	.Q	.	.	.	.
21.66	1.5356	0.50	Q	.	.	.	.
21.80	1.5415	0.49	Q	.	.	.	.
21.94	1.5474	0.49	Q	.	.	.	.
22.09	1.5532	0.48	Q	.	.	.	.
22.23	1.5589	0.48	Q	.	.	.	.
22.38	1.5646	0.47	Q	.	.	.	.
22.52	1.5702	0.47	Q	.	.	.	.
22.67	1.5758	0.46	Q	.	.	.	.
22.82	1.5812	0.46	Q	.	.	.	.
22.96	1.5867	0.45	Q	.	.	.	.
23.11	1.5921	0.45	Q	.	.	.	.
23.25	1.5974	0.44	Q	.	.	.	.
23.39	1.6026	0.44	Q	.	.	.	.
23.54	1.6079	0.43	Q	.	.	.	.
23.68	1.6130	0.43	Q	.	.	.	.
23.83	1.6181	0.43	Q	.	.	.	.
23.98	1.6232	0.42	Q	.	.	.	.
24.12	1.6282	0.42	Q	.	.	.	.
24.26	1.6307	0.00	Q	.	.	.	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
(Note: 100% of Peak Flow Rate estimate assumed to have
an instantaneous time duration)

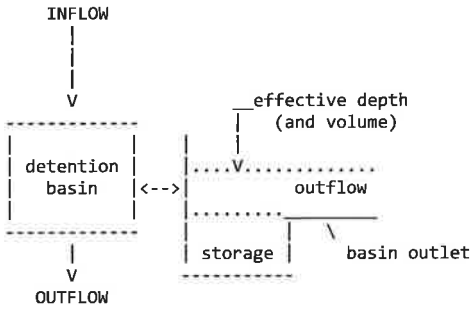
Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1444.2
10%	252.3
20%	26.1
30%	17.4
40%	8.7
50%	8.7

60%	8.7
70%	8.7
80%	8.7
90%	8.7

Problem Descriptions:
JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO
100-YEAR DETENTION
BUILDING 6 TRUCK YARD (NODE 151)

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 8.700
DEAD STORAGE(AF) = 0.00
SPECIFIED DEAD STORAGE(AF) FILLED = 0.00
ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 6

*BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	**	**BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	*
0.000	0.000	0.000**		0.140	0.001	1.800	*
0.340	0.010	2.000**		0.540	0.030	2.100	*
0.740	0.080	2.200**		0.940	0.160	2.400	*

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.14	-0.00979	0.01179
3	0.34	-0.00198	0.02198
4	0.54	0.01742	0.04258
5	0.74	0.06682	0.09318
6	0.94	0.14562	0.17438

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:
NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES
OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE
AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.050	0.000	0.00	0.00	0.00	0.000
0.195	0.000	0.42	0.06	0.38	0.000
0.340	0.000	0.42	0.06	0.77	0.000
0.485	0.000	0.42	0.06	0.77	0.000
0.630	0.000	0.42	0.06	0.77	0.000
0.775	0.000	0.43	0.06	0.78	0.000
0.920	0.000	0.43	0.06	0.78	0.000
1.065	0.000	0.43	0.06	0.79	0.000
1.210	0.000	0.43	0.06	0.79	0.000
1.355	0.000	0.43	0.06	0.79	0.000
1.500	0.000	0.44	0.06	0.80	0.000
1.645	0.000	0.44	0.06	0.80	0.000

1.790	0.000	0.44	0.06	0.80	0.000
1.935	0.000	0.44	0.06	0.81	0.000
2.080	0.000	0.44	0.06	0.81	0.000
2.225	0.000	0.45	0.06	0.82	0.000
2.370	0.000	0.45	0.06	0.82	0.000
2.515	0.000	0.45	0.06	0.83	0.000
2.660	0.000	0.45	0.06	0.83	0.000
2.805	0.000	0.46	0.07	0.83	0.000
2.950	0.000	0.46	0.07	0.84	0.000
3.095	0.000	0.46	0.07	0.84	0.000
3.240	0.000	0.46	0.07	0.85	0.000
3.385	0.000	0.47	0.07	0.85	0.000
3.530	0.000	0.47	0.07	0.86	0.000
3.675	0.000	0.47	0.07	0.86	0.000
3.820	0.000	0.47	0.07	0.87	0.000
3.965	0.000	0.48	0.07	0.87	0.000
4.110	0.000	0.48	0.07	0.88	0.000
4.255	0.000	0.48	0.07	0.88	0.000
4.400	0.000	0.49	0.07	0.89	0.000
4.545	0.000	0.49	0.07	0.89	0.000
4.690	0.000	0.49	0.07	0.90	0.000
4.835	0.000	0.50	0.07	0.90	0.001
4.980	0.000	0.50	0.07	0.91	0.001
5.125	0.000	0.50	0.07	0.91	0.001
5.270	0.000	0.50	0.07	0.92	0.001
5.415	0.000	0.51	0.07	0.93	0.001
5.560	0.000	0.51	0.07	0.93	0.001
5.705	0.000	0.52	0.07	0.94	0.001
5.850	0.000	0.52	0.07	0.95	0.001
5.995	0.000	0.52	0.07	0.95	0.001
6.140	0.000	0.53	0.07	0.96	0.001
6.285	0.000	0.53	0.08	0.97	0.001
6.430	0.000	0.53	0.08	0.97	0.001
6.575	0.000	0.54	0.08	0.98	0.001
6.720	0.000	0.54	0.08	0.99	0.001
6.865	0.000	0.55	0.08	0.99	0.001
7.010	0.000	0.55	0.08	1.00	0.001
7.155	0.000	0.55	0.08	1.01	0.001
7.300	0.000	0.56	0.08	1.02	0.001
7.445	0.000	0.56	0.08	1.03	0.001
7.590	0.000	0.57	0.08	1.03	0.001
7.735	0.000	0.57	0.08	1.04	0.001
7.880	0.000	0.58	0.08	1.05	0.001
8.025	0.000	0.58	0.08	1.06	0.001
8.170	0.000	0.59	0.08	1.07	0.001
8.315	0.000	0.59	0.08	1.08	0.001
8.460	0.000	0.60	0.09	1.09	0.001
8.605	0.000	0.60	0.09	1.10	0.001
8.750	0.000	0.61	0.09	1.11	0.001
8.895	0.000	0.62	0.09	1.12	0.001
9.040	0.000	0.62	0.09	1.13	0.001
9.185	0.000	0.63	0.09	1.14	0.001
9.330	0.000	0.63	0.09	1.15	0.001
9.475	0.000	0.64	0.09	1.17	0.001
9.620	0.000	0.65	0.09	1.18	0.001
9.765	0.000	0.66	0.09	1.19	0.001
9.910	0.000	0.66	0.09	1.21	0.001
10.055	0.000	0.67	0.10	1.22	0.001
10.200	0.000	0.68	0.10	1.23	0.001
10.345	0.000	0.69	0.10	1.25	0.001
10.490	0.000	0.69	0.10	1.26	0.001
10.635	0.000	0.71	0.10	1.28	0.001
10.780	0.000	0.71	0.10	1.30	0.001
10.925	0.000	0.72	0.10	1.31	0.001
11.070	0.000	0.73	0.10	1.33	0.001
11.215	0.000	0.75	0.11	1.35	0.001
11.360	0.000	0.75	0.11	1.37	0.001
11.505	0.000	0.77	0.11	1.39	0.001
11.650	0.000	0.78	0.11	1.41	0.001
11.795	0.000	0.79	0.11	1.44	0.001
11.940	0.000	0.80	0.11	1.46	0.001
12.085	0.000	0.88	0.13	1.54	0.001
12.230	0.000	0.99	0.14	1.70	0.001
12.375	0.000	1.01	0.15	1.80	0.001
12.520	0.000	1.02	0.15	1.81	0.001
12.665	0.000	1.04	0.15	1.81	0.002
12.810	0.000	1.05	0.16	1.81	0.002

12.955	0.000	1.07	0.16	1.82	0.002
13.100	0.000	1.09	0.16	1.82	0.002
13.245	0.000	1.12	0.17	1.83	0.002
13.390	0.000	1.13	0.17	1.83	0.003
13.535	0.000	1.16	0.18	1.84	0.003
13.680	0.000	1.18	0.19	1.84	0.003
13.825	0.000	1.22	0.20	1.85	0.003
13.970	0.000	1.24	0.20	1.86	0.004
14.115	0.000	1.25	0.20	1.86	0.004
14.260	0.000	1.26	0.20	1.86	0.004
14.405	0.000	1.32	0.22	1.87	0.005
14.550	0.000	1.35	0.23	1.88	0.005
14.695	0.000	1.42	0.24	1.89	0.006
14.840	0.000	1.47	0.25	1.91	0.006
14.985	0.000	1.57	0.28	1.93	0.007
15.130	0.000	1.63	0.29	1.94	0.008
15.275	0.000	1.78	0.33	1.97	0.009
15.420	0.000	1.88	0.35	1.99	0.011
15.565	0.000	1.57	0.28	1.97	0.007
15.710	0.000	1.77	0.32	1.96	0.009
15.855	0.000	2.45	0.41	2.01	0.017
16.000	0.000	3.44	0.55	2.07	0.034
16.145	0.000	11.28	0.90	2.23	0.142
16.290	0.000	2.03	0.89	2.35	0.138
16.435	0.000	1.48	0.86	2.33	0.128
16.580	0.000	1.70	0.84	2.31	0.121
16.725	0.000	1.51	0.82	2.29	0.111
16.870	0.000	1.38	0.79	2.27	0.101
17.015	0.000	1.29	0.76	2.24	0.089
17.160	0.000	1.26	0.73	2.21	0.078
17.305	0.000	1.20	0.68	2.18	0.066
17.450	0.000	1.15	0.64	2.16	0.054
17.595	0.000	1.10	0.59	2.14	0.042
17.740	0.000	1.06	0.53	2.11	0.029
17.885	0.000	1.03	0.41	2.06	0.017
18.030	0.000	1.00	0.23	1.96	0.005
18.175	0.000	0.81	0.12	1.69	0.001
18.320	0.000	0.78	0.11	1.46	0.001
18.465	0.000	0.76	0.11	1.41	0.001
18.610	0.000	0.74	0.11	1.37	0.001
18.755	0.000	0.72	0.10	1.33	0.001
18.900	0.000	0.70	0.10	1.30	0.001
19.045	0.000	0.68	0.10	1.26	0.001
19.190	0.000	0.67	0.09	1.23	0.001
19.335	0.000	0.65	0.09	1.21	0.001
19.480	0.000	0.64	0.09	1.18	0.001
19.625	0.000	0.62	0.09	1.16	0.001
19.770	0.000	0.61	0.09	1.13	0.001
19.915	0.000	0.60	0.09	1.11	0.001
20.060	0.000	0.59	0.08	1.09	0.001
20.205	0.000	0.58	0.08	1.07	0.001
20.350	0.000	0.57	0.08	1.05	0.001
20.495	0.000	0.56	0.08	1.03	0.001
20.640	0.000	0.55	0.08	1.02	0.001
20.785	0.000	0.54	0.08	1.00	0.001
20.930	0.000	0.54	0.08	0.99	0.001
21.075	0.000	0.53	0.08	0.97	0.001
21.220	0.000	0.52	0.07	0.96	0.001
21.365	0.000	0.51	0.07	0.95	0.001
21.510	0.000	0.51	0.07	0.93	0.001
21.655	0.000	0.50	0.07	0.92	0.001
21.800	0.000	0.49	0.07	0.91	0.001
21.945	0.000	0.49	0.07	0.90	0.000
22.090	0.000	0.48	0.07	0.89	0.000
22.235	0.000	0.48	0.07	0.88	0.000
22.380	0.000	0.47	0.07	0.87	0.000
22.525	0.000	0.47	0.07	0.86	0.000
22.670	0.000	0.46	0.07	0.85	0.000
22.815	0.000	0.46	0.06	0.84	0.000
22.960	0.000	0.45	0.06	0.83	0.000
23.105	0.000	0.45	0.06	0.82	0.000
23.250	0.000	0.44	0.06	0.81	0.000
23.395	0.000	0.44	0.06	0.80	0.000
23.540	0.000	0.43	0.06	0.80	0.000
23.685	0.000	0.43	0.06	0.79	0.000
23.830	0.000	0.43	0.06	0.78	0.000
23.975	0.000	0.42	0.06	0.77	0.000

← Q_{100} (DISCHARGE) = 2.3 CFS
PONDING DEPTH = 0.90 FT
VOLUME STORED = 0.142 AC-FT

24.120	0.000	0.42	0.06	0.77	0.000
24.265	0.000	0.00	0.00	0.38	0.000
24.410	0.000	0.00	0.00	0.00	0.000

Job #3654 Grove Business Center, Ontario
Volume in Building 7 Truck Yard, Node 131

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
667.29	0.00	0				
			7	7	0.00	1.01
667.40	0.11	120				
			245	252	0.01	1.10
667.60	0.31	2330				
			1019	1271	0.03	1.18
667.80	0.51	7860				
			2114	3385	0.08	1.26
668.00	0.71	13280				
			3122	6507	0.15	1.33
668.20	0.91	17940				
			4078	10585	0.24	1.40
668.40	1.11	22840				
			2939	13523	0.31	1.44
668.52	1.23	26140				

```
**************************************************************************
                    SMALL AREA UNIT HYDROGRAPH MODEL
==========================================================================
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                        Analysis prepared by:



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 Problem Descriptions:
  JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO
  100-YEAR DETENTION
  BUILDING 7 TRUCK YARD (NODE 131)
--------------------------------------------------------------------------


    RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
    TOTAL CATCHMENT AREA(ACRES) =    3.75
    SOIL-LOSS RATE, Fm,(INCH/HR) =  0.042
    LOW LOSS FRACTION = 0.079
    TIME OF CONCENTRATION(MIN.) =  8.10
    SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
    USER SPECIFIED RAINFALL VALUES ARE USED
    RETURN FREQUENCY(YEARS) = 100
       5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.37
      30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.75
       1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.00
       3-HOUR   POINT RAINFALL VALUE(INCHES) =  1.90
       6-HOUR   POINT RAINFALL VALUE(INCHES) =  2.90
      24-HOUR   POINT RAINFALL VALUE(INCHES) =  5.90

--------------------------------------------------------------------------

    TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     1.53
    TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     0.32

**************************************************************************
  TIME     VOLUME       Q    0.        5.0      10.0      15.0      20.0
 (HOURS)    (AF)      (CFS)
--------------------------------------------------------------------------
  0.07      0.0000      0.00  Q         .         .         .         .
  0.20      0.0022      0.39  Q         .         .         .         .
  0.34      0.0066      0.39  Q         .         .         .         .
  0.47      0.0110      0.40  Q         .         .         .         .
  0.61      0.0154      0.40  Q         .         .         .         .
  0.74      0.0199      0.40  Q         .         .         .         .
  0.88      0.0243      0.40  Q         .         .         .         .
  1.01      0.0288      0.40  Q         .         .         .         .
  1.15      0.0333      0.40  Q         .         .         .         .
  1.28      0.0378      0.41  Q         .         .         .         .
  1.42      0.0424      0.41  Q         .         .         .         .
  1.55      0.0469      0.41  Q         .         .         .         .
  1.69      0.0515      0.41  Q         .         .         .         .
  1.82      0.0561      0.41  Q         .         .         .         .
  1.96      0.0608      0.42  Q         .         .         .         .
  2.09      0.0654      0.42  Q         .         .         .         .
  2.23      0.0701      0.42  Q         .         .         .         .
  2.36      0.0748      0.42  Q         .         .         .         .
  2.50      0.0795      0.42  Q         .         .         .         .
  2.63      0.0842      0.43  Q         .         .         .         .
  2.77      0.0890      0.43  Q         .         .         .         .
  2.90      0.0938      0.43  Q         .         .         .         .
  3.04      0.0986      0.43  Q         .         .         .         .
  3.17      0.1034      0.43  Q         .         .         .         .
  3.31      0.1083      0.44  Q         .         .         .         .
  3.44      0.1131      0.44  Q         .         .         .         .
  3.58      0.1181      0.44  Q         .         .         .         .
  3.71      0.1230      0.44  Q         .         .         .         .
  3.85      0.1279      0.45  Q         .         .         .         .
```

3.98	0.1329	0.45	Q	.	.	.	.
4.12	0.1379	0.45	Q	.	.	.	.
4.25	0.1430	0.45	Q	.	.	.	.
4.39	0.1481	0.46	Q	.	.	.	.
4.52	0.1532	0.46	Q	.	.	.	.
4.66	0.1583	0.46	Q	.	.	.	.
4.79	0.1634	0.46	Q	.	.	.	.
4.93	0.1686	0.47	Q	.	.	.	.
5.06	0.1738	0.47	Q	.	.	.	.
5.20	0.1791	0.47	Q	.	.	.	.
5.33	0.1844	0.48	Q	.	.	.	.
5.47	0.1897	0.48	Q	.	.	.	.
5.60	0.1950	0.48	Q	.	.	.	.
5.74	0.2004	0.48	Q	.	.	.	.
5.87	0.2058	0.49	Q	.	.	.	.
6.01	0.2113	0.49	Q	.	.	.	.
6.14	0.2168	0.49	Q	.	.	.	.
6.28	0.2223	0.50	Q	.	.	.	.
6.41	0.2278	0.50	.Q	.	.	.	.
6.55	0.2334	0.50	.Q	.	.	.	.
6.68	0.2391	0.51	.Q	.	.	.	.
6.82	0.2447	0.51	.Q	.	.	.	.
6.95	0.2504	0.51	.Q	.	.	.	.
7.09	0.2562	0.52	.Q	.	.	.	.
7.22	0.2620	0.52	.Q	.	.	.	.
7.36	0.2678	0.52	.Q	.	.	.	.
7.49	0.2737	0.53	.Q	.	.	.	.
7.63	0.2796	0.53	.Q	.	.	.	.
7.76	0.2856	0.54	.Q	.	.	.	.
7.90	0.2916	0.54	.Q	.	.	.	.
8.03	0.2977	0.55	.Q	.	.	.	.
8.17	0.3038	0.55	.Q	.	.	.	.
8.30	0.3100	0.56	.Q	.	.	.	.
8.44	0.3162	0.56	.Q	.	.	.	.
8.57	0.3225	0.57	.Q	.	.	.	.
8.71	0.3288	0.57	.Q	.	.	.	.
8.84	0.3352	0.58	.Q	.	.	.	.
8.98	0.3417	0.58	.Q	.	.	.	.
9.11	0.3482	0.59	.Q	.	.	.	.
9.25	0.3548	0.59	.Q	.	.	.	.
9.38	0.3614	0.60	.Q	.	.	.	.
9.52	0.3681	0.60	.Q	.	.	.	.
9.65	0.3749	0.61	.Q	.	.	.	.
9.79	0.3817	0.61	.Q	.	.	.	.
9.93	0.3886	0.62	.Q	.	.	.	.
10.06	0.3956	0.63	.Q	.	.	.	.
10.20	0.4026	0.64	.Q	.	.	.	.
10.33	0.4098	0.64	.Q	.	.	.	.
10.46	0.4170	0.65	.Q	.	.	.	.
10.60	0.4243	0.66	.Q	.	.	.	.
10.73	0.4317	0.67	.Q	.	.	.	.
10.87	0.4392	0.67	.Q	.	.	.	.
11.01	0.4467	0.68	.Q	.	.	.	.
11.14	0.4544	0.69	.Q	.	.	.	.
11.27	0.4622	0.70	.Q	.	.	.	.
11.41	0.4701	0.71	.Q	.	.	.	.
11.55	0.4781	0.72	.Q	.	.	.	.
11.68	0.4862	0.73	.Q	.	.	.	.
11.81	0.4944	0.75	.Q	.	.	.	.
11.95	0.5028	0.75	.Q	.	.	.	.
12.09	0.5116	0.83	.Q	.	.	.	.
12.22	0.5214	0.92	.Q	.	.	.	.
12.35	0.5318	0.94	.Q	.	.	.	.
12.49	0.5424	0.95	.Q	.	.	.	.
12.62	0.5531	0.97	.Q	.	.	.	.
12.76	0.5640	0.98	.Q	.	.	.	.
12.90	0.5750	1.00	. Q	.	.	.	.
13.03	0.5862	1.01	. Q	.	.	.	.
13.16	0.5976	1.04	. Q	.	.	.	.
13.30	0.6093	1.05	. Q	.	.	.	.
13.43	0.6211	1.08	. Q	.	.	.	.
13.57	0.6332	1.09	. Q	.	.	.	.
13.70	0.6455	1.12	. Q	.	.	.	.
13.84	0.6581	1.14	. Q	.	.	.	.
13.98	0.6710	1.18	. Q	.	.	.	.
14.11	0.6842	1.18	. Q	.	.	.	.
14.24	0.6974	1.19	. Q	.	.	.	.

14.38	0.7109	1.21	. Q	.	.	.	.	.
14.52	0.7247	1.27	. Q	.	.	.	.	.
14.65	0.7391	1.30	. Q	.	.	.	.	.
14.78	0.7540	1.37	. Q	.	.	.	.	.
14.92	0.7695	1.42	. Q	.	.	.	.	.
15.05	0.7859	1.51	. Q	.	.	.	.	.
15.19	0.8031	1.57	. Q	.	.	.	.	.
15.32	0.8215	1.72	. Q	.	.	.	.	.
15.46	0.8399	1.59	. Q	.	.	.	.	.
15.60	0.8574	1.54	. Q	.	.	.	.	.
15.73	0.8757	1.74	. Q	.	.	.	.	.
15.87	0.8988	2.41	. Q	.	.	.	.	.
16.00	0.9311	3.38	. Q	.	.	.	.	.
16.14	1.0115	11.05	.	.	.	Q	.	.
16.27	1.0841	1.96	. Q	.	.	.	.	.
16.41	1.1028	1.39	. Q	.	.	.	.	.
16.54	1.1197	1.64	. Q	.	.	.	.	.
16.67	1.1370	1.46	. Q	.	.	.	.	.
16.81	1.1526	1.34	. Q	.	.	.	.	.
16.94	1.1670	1.24	. Q	.	.	.	.	.
17.08	1.1804	1.17	. Q	.	.	.	.	.
17.22	1.1934	1.16	. Q	.	.	.	.	.
17.35	1.2060	1.11	. Q	.	.	.	.	.
17.48	1.2181	1.06	. Q	.	.	.	.	.
17.62	1.2297	1.02	. Q	.	.	.	.	.
17.76	1.2409	0.99	.Q	.	.	.	.	.
17.89	1.2518	0.96	.Q	.	.	.	.	.
18.02	1.2624	0.93	.Q	.	.	.	.	.
18.16	1.2718	0.76	.Q	.	.	.	.	.
18.30	1.2802	0.74	.Q	.	.	.	.	.
18.43	1.2883	0.72	.Q	.	.	.	.	.
18.57	1.2962	0.70	.Q	.	.	.	.	.
18.70	1.3038	0.68	.Q	.	.	.	.	.
18.83	1.3113	0.66	.Q	.	.	.	.	.
18.97	1.3186	0.65	.Q	.	.	.	.	.
19.11	1.3258	0.63	.Q	.	.	.	.	.
19.24	1.3327	0.62	.Q	.	.	.	.	.
19.38	1.3396	0.61	.Q	.	.	.	.	.
19.51	1.3463	0.59	.Q	.	.	.	.	.
19.64	1.3528	0.58	.Q	.	.	.	.	.
19.78	1.3593	0.57	.Q	.	.	.	.	.
19.92	1.3656	0.56	.Q	.	.	.	.	.
20.05	1.3718	0.55	.Q	.	.	.	.	.
20.18	1.3780	0.54	.Q	.	.	.	.	.
20.32	1.3840	0.54	.Q	.	.	.	.	.
20.45	1.3899	0.53	.Q	.	.	.	.	.
20.59	1.3958	0.52	.Q	.	.	.	.	.
20.73	1.4015	0.51	.Q	.	.	.	.	.
20.86	1.4072	0.50	.Q	.	.	.	.	.
21.00	1.4128	0.50	Q	.	.	.	.	.
21.13	1.4183	0.49	Q	.	.	.	.	.
21.27	1.4238	0.49	Q	.	.	.	.	.
21.40	1.4291	0.48	Q	.	.	.	.	.
21.53	1.4344	0.47	Q	.	.	.	.	.
21.67	1.4397	0.47	Q	.	.	.	.	.
21.81	1.4449	0.46	Q	.	.	.	.	.
21.94	1.4500	0.46	Q	.	.	.	.	.
22.08	1.4551	0.45	Q	.	.	.	.	.
22.21	1.4601	0.45	Q	.	.	.	.	.
22.35	1.4651	0.44	Q	.	.	.	.	.
22.48	1.4700	0.44	Q	.	.	.	.	.
22.61	1.4748	0.43	Q	.	.	.	.	.
22.75	1.4796	0.43	Q	.	.	.	.	.
22.89	1.4844	0.42	Q	.	.	.	.	.
23.02	1.4891	0.42	Q	.	.	.	.	.
23.16	1.4938	0.42	Q	.	.	.	.	.
23.29	1.4984	0.41	Q	.	.	.	.	.
23.42	1.5030	0.41	Q	.	.	.	.	.
23.56	1.5075	0.41	Q	.	.	.	.	.
23.70	1.5120	0.40	Q	.	.	.	.	.
23.83	1.5165	0.40	Q	.	.	.	.	.
23.97	1.5209	0.40	Q	.	.	.	.	.
24.10	1.5253	0.39	Q	.	.	.	.	.
24.23	1.5275	0.00	Q	.	.	.	.	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

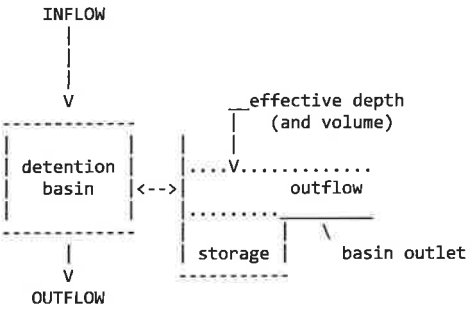
(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1441.8
10%	226.8
20%	24.3
30%	16.2
40%	8.1
50%	8.1
60%	8.1
70%	8.1
80%	8.1
90%	8.1

Problem Descriptions:
JOB #3654 SOUTH ONTARIO LOGISTICS CENTER, ONTARIO
100-YEAR DETENTION
BUILDING 7 TRUCK YARD (NODE 131)

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 8.100
DEAD STORAGE(AF) = 0.00
SPECIFIED DEAD STORAGE(AF) FILLED = 0.00
ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 8

*BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	**	**BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	*
0.000	0.000	0.000**		0.110	0.001	1.010	*
0.310	0.010	1.100**		0.510	0.030	1.180	*
0.710	0.080	1.260**		0.910	0.150	1.330	*
1.110	0.240	1.400**		1.230	0.310	1.440	*

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.11	-0.00463	0.00663
3	0.31	0.00386	0.01614
4	0.51	0.02342	0.03658
5	0.71	0.07297	0.08703
6	0.91	0.14258	0.15742
7	1.11	0.23219	0.24781
8	1.23	0.30197	0.31803

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:
NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.070	0.000	0.00	0.00	0.00	0.000
0.205	0.000	0.39	0.07	0.33	0.001
0.340	0.000	0.39	0.07	0.67	0.001
0.475	0.000	0.40	0.07	0.67	0.001
0.610	0.000	0.40	0.07	0.67	0.001
0.745	0.000	0.40	0.07	0.68	0.001
0.880	0.000	0.40	0.07	0.68	0.001
1.015	0.000	0.40	0.07	0.68	0.001
1.150	0.000	0.40	0.07	0.69	0.001
1.285	0.000	0.41	0.08	0.69	0.001
1.420	0.000	0.41	0.08	0.69	0.001
1.555	0.000	0.41	0.08	0.69	0.001
1.690	0.000	0.41	0.08	0.70	0.001
1.825	0.000	0.41	0.08	0.70	0.001
1.960	0.000	0.42	0.08	0.70	0.001
2.095	0.000	0.42	0.08	0.71	0.001
2.230	0.000	0.42	0.08	0.71	0.001
2.365	0.000	0.42	0.08	0.71	0.001
2.500	0.000	0.42	0.08	0.72	0.001
2.635	0.000	0.43	0.08	0.72	0.001
2.770	0.000	0.43	0.08	0.72	0.001
2.905	0.000	0.43	0.08	0.73	0.001
3.040	0.000	0.43	0.08	0.73	0.001
3.175	0.000	0.43	0.08	0.74	0.001
3.310	0.000	0.44	0.08	0.74	0.001
3.445	0.000	0.44	0.08	0.74	0.001
3.580	0.000	0.44	0.08	0.75	0.001
3.715	0.000	0.44	0.08	0.75	0.001
3.850	0.000	0.45	0.08	0.76	0.001
3.985	0.000	0.45	0.08	0.76	0.001
4.120	0.000	0.45	0.08	0.76	0.001
4.255	0.000	0.45	0.08	0.77	0.001
4.390	0.000	0.46	0.08	0.77	0.001
4.525	0.000	0.46	0.08	0.78	0.001
4.660	0.000	0.46	0.09	0.78	0.001
4.795	0.000	0.46	0.09	0.79	0.001
4.930	0.000	0.47	0.09	0.79	0.001
5.065	0.000	0.47	0.09	0.79	0.001
5.200	0.000	0.47	0.09	0.80	0.001
5.335	0.000	0.48	0.09	0.80	0.001
5.470	0.000	0.48	0.09	0.81	0.001
5.605	0.000	0.48	0.09	0.81	0.001
5.740	0.000	0.48	0.09	0.82	0.001
5.875	0.000	0.49	0.09	0.82	0.001
6.010	0.000	0.49	0.09	0.83	0.001
6.145	0.000	0.49	0.09	0.83	0.001
6.280	0.000	0.50	0.09	0.84	0.001
6.415	0.000	0.50	0.09	0.85	0.001
6.550	0.000	0.50	0.09	0.85	0.001
6.685	0.000	0.51	0.09	0.86	0.001
6.820	0.000	0.51	0.09	0.86	0.001
6.955	0.000	0.51	0.10	0.87	0.001
7.090	0.000	0.52	0.10	0.88	0.001
7.225	0.000	0.52	0.10	0.88	0.001
7.360	0.000	0.52	0.10	0.89	0.001
7.495	0.000	0.53	0.10	0.90	0.001
7.630	0.000	0.53	0.10	0.90	0.001
7.765	0.000	0.54	0.10	0.91	0.001
7.900	0.000	0.54	0.10	0.92	0.001
8.035	0.000	0.55	0.10	0.92	0.001
8.170	0.000	0.55	0.10	0.93	0.001
8.305	0.000	0.56	0.10	0.94	0.001
8.440	0.000	0.56	0.10	0.95	0.001
8.575	0.000	0.57	0.10	0.96	0.001
8.710	0.000	0.57	0.11	0.96	0.001
8.845	0.000	0.58	0.11	0.97	0.001
8.980	0.000	0.58	0.11	0.98	0.001
9.115	0.000	0.59	0.11	0.99	0.001
9.250	0.000	0.59	0.11	1.00	0.001
9.385	0.000	0.60	0.11	1.01	0.001
9.520	0.000	0.60	0.11	1.01	0.001
9.655	0.000	0.61	0.11	1.01	0.001
9.790	0.000	0.61	0.11	1.01	0.001
9.925	0.000	0.62	0.12	1.01	0.001

10.060	0.000	0.63	0.12	1.01	0.001
10.195	0.000	0.64	0.12	1.01	0.001
10.330	0.000	0.64	0.12	1.01	0.001
10.465	0.000	0.65	0.12	1.02	0.002
10.600	0.000	0.66	0.12	1.02	0.002
10.735	0.000	0.67	0.13	1.02	0.002
10.870	0.000	0.67	0.13	1.02	0.002
11.005	0.000	0.68	0.13	1.02	0.002
11.140	0.000	0.69	0.13	1.02	0.002
11.275	0.000	0.70	0.14	1.02	0.002
11.410	0.000	0.71	0.14	1.02	0.002
11.545	0.000	0.72	0.14	1.02	0.002
11.680	0.000	0.73	0.14	1.02	0.002
11.815	0.000	0.75	0.15	1.03	0.003
11.950	0.000	0.75	0.15	1.03	0.003
12.085	0.000	0.83	0.17	1.03	0.004
12.220	0.000	0.92	0.19	1.04	0.004
12.355	0.000	0.94	0.19	1.05	0.005
12.490	0.000	0.95	0.19	1.05	0.005
12.625	0.000	0.97	0.20	1.05	0.005
12.760	0.000	0.98	0.20	1.05	0.005
12.895	0.000	1.00	0.21	1.05	0.005
13.030	0.000	1.01	0.21	1.05	0.005
13.165	0.000	1.04	0.21	1.06	0.006
13.300	0.000	1.05	0.22	1.06	0.006
13.435	0.000	1.08	0.22	1.06	0.006
13.570	0.000	1.09	0.23	1.06	0.006
13.705	0.000	1.12	0.24	1.07	0.007
13.840	0.000	1.14	0.26	1.07	0.008
13.975	0.000	1.18	0.28	1.08	0.009
14.110	0.000	1.18	0.30	1.09	0.010
14.245	0.000	1.19	0.32	1.10	0.011
14.380	0.000	1.21	0.33	1.11	0.012
14.515	0.000	1.27	0.35	1.11	0.014
14.650	0.000	1.30	0.37	1.12	0.016
14.785	0.000	1.37	0.40	1.13	0.019
14.920	0.000	1.42	0.43	1.14	0.022
15.055	0.000	1.51	0.47	1.15	0.026
15.190	0.000	1.57	0.51	1.17	0.030
15.325	0.000	1.72	0.53	1.18	0.036
15.460	0.000	1.59	0.55	1.19	0.041
15.595	0.000	1.54	0.57	1.20	0.044
15.730	0.000	1.74	0.59	1.21	0.050
15.865	0.000	2.41	0.64	1.22	0.063
16.000	0.000	3.38	0.73	1.25	0.087
16.135	0.000	11.05	1.01	1.32	0.196
16.270	0.000	1.96	1.03	1.37	0.202
16.405	0.000	1.39	1.03	1.37	0.203
16.540	0.000	1.64	1.03	1.37	0.206
16.675	0.000	1.46	1.04	1.37	0.206
16.810	0.000	1.34	1.03	1.37	0.206
16.945	0.000	1.24	1.03	1.37	0.205
17.080	0.000	1.17	1.03	1.37	0.202
17.215	0.000	1.16	1.02	1.37	0.200
17.350	0.000	1.11	1.01	1.37	0.197
17.485	0.000	1.06	1.01	1.37	0.194
17.620	0.000	1.02	1.00	1.36	0.190
17.755	0.000	0.99	0.99	1.36	0.186
17.890	0.000	0.96	0.98	1.36	0.181
18.025	0.000	0.93	0.97	1.35	0.177
18.160	0.000	0.76	0.95	1.35	0.170
18.295	0.000	0.74	0.94	1.34	0.163
18.430	0.000	0.72	0.92	1.34	0.156
18.565	0.000	0.70	0.91	1.33	0.149
18.700	0.000	0.68	0.89	1.33	0.142
18.835	0.000	0.66	0.87	1.32	0.135
18.970	0.000	0.65	0.85	1.31	0.127
19.105	0.000	0.63	0.82	1.30	0.120
19.240	0.000	0.62	0.80	1.30	0.112
19.375	0.000	0.61	0.78	1.29	0.105
19.510	0.000	0.59	0.76	1.28	0.097
19.645	0.000	0.58	0.74	1.27	0.089
19.780	0.000	0.57	0.71	1.27	0.082
19.915	0.000	0.56	0.69	1.26	0.074
20.050	0.000	0.55	0.65	1.24	0.066
20.185	0.000	0.54	0.62	1.23	0.058
20.320	0.000	0.54	0.59	1.22	0.051

Q_{100} (DISCHARGE) = 1.4 CFS
PONDING DEPTH = 1.04 FT
VOLUME STORED = 0.206 AC FT

20.455	0.000	0.53	0.56	1.21	0.043
20.590	0.000	0.52	0.53	1.20	0.036
20.725	0.000	0.51	0.49	1.18	0.028
20.860	0.000	0.50	0.42	1.16	0.021
20.995	0.000	0.50	0.35	1.13	0.014
21.130	0.000	0.49	0.25	1.09	0.007
21.265	0.000	0.49	0.11	1.04	0.001
21.400	0.000	0.48	0.09	0.91	0.001
21.535	0.000	0.47	0.09	0.81	0.001
21.670	0.000	0.47	0.09	0.80	0.001
21.805	0.000	0.46	0.09	0.79	0.001
21.940	0.000	0.46	0.08	0.78	0.001
22.075	0.000	0.45	0.08	0.77	0.001
22.210	0.000	0.45	0.08	0.76	0.001
22.345	0.000	0.44	0.08	0.76	0.001
22.480	0.000	0.44	0.08	0.75	0.001
22.615	0.000	0.43	0.08	0.74	0.001
22.750	0.000	0.43	0.08	0.73	0.001
22.885	0.000	0.42	0.08	0.72	0.001
23.020	0.000	0.42	0.08	0.72	0.001
23.155	0.000	0.42	0.08	0.71	0.001
23.290	0.000	0.41	0.08	0.70	0.001
23.425	0.000	0.41	0.08	0.70	0.001
23.560	0.000	0.41	0.07	0.69	0.001
23.695	0.000	0.40	0.07	0.69	0.001
23.830	0.000	0.40	0.07	0.68	0.001
23.965	0.000	0.40	0.07	0.67	0.001
24.100	0.000	0.39	0.07	0.67	0.001
24.235	0.000	0.00	0.00	0.33	0.000
24.370	0.000	0.00	0.00	0.00	0.000

Job #3654 Grove Business Center, Ontario
Volume in Building 8 Truck Yard, Node 112

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)	Q Discharge (cfs)
667.51	0.00	0				
			3	3	0.00	1.7
667.60	0.09	70				
			182	185	0.00	1.9
667.80	0.29	1750				
			852	1037	0.02	2.1
668.00	0.49	6770				
			1910	2947	0.07	2.2
668.20	0.69	12330				
			3007	5954	0.14	2.3
668.40	0.89	17740				
			2339	8294	0.19	2.4
668.52	1.01	21250				

```
**************************************************************************
                    SMALL AREA UNIT HYDROGRAPH MODEL
==========================================================================
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                        Analysis prepared by:



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 Problem Descriptions:
  JOB #3654 SOUTH ONTARIO LOGISTIC CENTER, ONTARIO
  100-YEAR DETENTION
  BUILDING 8 TRUCK YARD (NODE 112)
--------------------------------------------------------------------------


    RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
    TOTAL CATCHMENT AREA(ACRES) =    4.65
    SOIL-LOSS RATE, Fm,(INCH/HR) =  0.042
    LOW LOSS FRACTION = 0.079
    TIME OF CONCENTRATION(MIN.) =  8.70
    SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
    USER SPECIFIED RAINFALL VALUES ARE USED
    RETURN FREQUENCY(YEARS) = 100
       5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.37
      30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.75
       1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.00
       3-HOUR   POINT RAINFALL VALUE(INCHES) =  1.90
       6-HOUR   POINT RAINFALL VALUE(INCHES) =  2.90
      24-HOUR   POINT RAINFALL VALUE(INCHES) =  5.90

--------------------------------------------------------------------------

    TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     1.90
    TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     0.39

**************************************************************************
  TIME     VOLUME       Q    0.        5.0      10.0      15.0      20.0
 (HOURS)    (AF)      (CFS)
--------------------------------------------------------------------------
  0.05      0.0000      0.00  Q         .         .         .         .
  0.20      0.0029      0.49  Q         .         .         .         .
  0.34      0.0088      0.49  Q         .         .         .         .
  0.49      0.0146      0.49  Q         .         .         .         .
  0.63      0.0205      0.49  Q         .         .         .         .
  0.78      0.0265      0.50  Q         .         .         .         .
  0.92      0.0324      0.50  Q         .         .         .         .
  1.07      0.0384      0.50  .Q        .         .         .         .
  1.21      0.0444      0.50  .Q        .         .         .         .
  1.36      0.0504      0.51  .Q        .         .         .         .
  1.50      0.0565      0.51  .Q        .         .         .         .
  1.65      0.0626      0.51  .Q        .         .         .         .
  1.79      0.0687      0.51  .Q        .         .         .         .
  1.94      0.0749      0.52  .Q        .         .         .         .
  2.08      0.0810      0.52  .Q        .         .         .         .
  2.23      0.0873      0.52  .Q        .         .         .         .
  2.37      0.0935      0.52  .Q        .         .         .         .
  2.52      0.0998      0.53  .Q        .         .         .         .
  2.66      0.1061      0.53  .Q        .         .         .         .
  2.81      0.1124      0.53  .Q        .         .         .         .
  2.95      0.1188      0.53  .Q        .         .         .         .
  3.10      0.1252      0.54  .Q        .         .         .         .
  3.24      0.1317      0.54  .Q        .         .         .         .
  3.39      0.1382      0.54  .Q        .         .         .         .
  3.53      0.1447      0.55  .Q        .         .         .         .
  3.68      0.1512      0.55  .Q        .         .         .         .
  3.82      0.1578      0.55  .Q        .         .         .         .
  3.97      0.1645      0.56  .Q        .         .         .         .
  4.11      0.1711      0.56  .Q        .         .         .         .
```

4.26	0.1779	0.56	.Q	.	.	.	.
4.40	0.1846	0.56	.Q	.	.	.	.
4.55	0.1914	0.57	.Q	.	.	.	.
4.69	0.1982	0.57	.Q	.	.	.	.
4.84	0.2051	0.58	.Q	.	.	.	.
4.98	0.2120	0.58	.Q	.	.	.	.
5.12	0.2190	0.58	.Q	.	.	.	.
5.27	0.2260	0.59	.Q	.	.	.	.
5.42	0.2330	0.59	.Q	.	.	.	.
5.56	0.2401	0.59	.Q	.	.	.	.
5.71	0.2473	0.60	.Q	.	.	.	.
5.85	0.2545	0.60	.Q	.	.	.	.
6.00	0.2617	0.61	.Q	.	.	.	.
6.14	0.2690	0.61	.Q	.	.	.	.
6.29	0.2764	0.62	.Q	.	.	.	.
6.43	0.2838	0.62	.Q	.	.	.	.
6.57	0.2912	0.63	.Q	.	.	.	.
6.72	0.2988	0.63	.Q	.	.	.	.
6.87	0.3063	0.63	.Q	.	.	.	.
7.01	0.3140	0.64	.Q	.	.	.	.
7.16	0.3216	0.64	.Q	.	.	.	.
7.30	0.3294	0.65	.Q	.	.	.	.
7.45	0.3372	0.66	.Q	.	.	.	.
7.59	0.3451	0.66	.Q	.	.	.	.
7.74	0.3530	0.67	.Q	.	.	.	.
7.88	0.3610	0.67	.Q	.	.	.	.
8.02	0.3691	0.68	.Q	.	.	.	.
8.17	0.3772	0.68	.Q	.	.	.	.
8.32	0.3854	0.69	.Q	.	.	.	.
8.46	0.3937	0.69	.Q	.	.	.	.
8.60	0.4021	0.70	.Q	.	.	.	.
8.75	0.4106	0.71	.Q	.	.	.	.
8.90	0.4191	0.72	.Q	.	.	.	.
9.04	0.4277	0.72	.Q	.	.	.	.
9.19	0.4364	0.73	.Q	.	.	.	.
9.33	0.4452	0.74	.Q	.	.	.	.
9.48	0.4541	0.75	.Q	.	.	.	.
9.62	0.4631	0.75	.Q	.	.	.	.
9.77	0.4721	0.76	.Q	.	.	.	.
9.91	0.4813	0.77	.Q	.	.	.	.
10.05	0.4906	0.78	.Q	.	.	.	.
10.20	0.5000	0.79	.Q	.	.	.	.
10.35	0.5095	0.80	.Q	.	.	.	.
10.49	0.5191	0.81	.Q	.	.	.	.
10.64	0.5289	0.82	.Q	.	.	.	.
10.78	0.5387	0.83	.Q	.	.	.	.
10.93	0.5487	0.84	.Q	.	.	.	.
11.07	0.5589	0.85	.Q	.	.	.	.
11.22	0.5691	0.87	.Q	.	.	.	.
11.36	0.5796	0.87	.Q	.	.	.	.
11.51	0.5902	0.89	.Q	.	.	.	.
11.65	0.6009	0.90	.Q	.	.	.	.
11.80	0.6118	0.92	.Q	.	.	.	.
11.94	0.6229	0.93	.Q	.	.	.	.
12.09	0.6346	1.02	. Q	.	.	.	.
12.23	0.6476	1.15	. Q	.	.	.	.
12.38	0.6615	1.17	. Q	.	.	.	.
12.52	0.6756	1.18	. Q	.	.	.	.
12.66	0.6899	1.21	. Q	.	.	.	.
12.81	0.7044	1.22	. Q	.	.	.	.
12.95	0.7192	1.25	. Q	.	.	.	.
13.10	0.7343	1.26	. Q	.	.	.	.
13.24	0.7496	1.30	. Q	.	.	.	.
13.39	0.7653	1.31	. Q	.	.	.	.
13.53	0.7812	1.35	. Q	.	.	.	.
13.68	0.7976	1.37	. Q	.	.	.	.
13.82	0.8143	1.42	. Q	.	.	.	.
13.97	0.8314	1.44	. Q	.	.	.	.
14.12	0.8487	1.45	. Q	.	.	.	.
14.26	0.8662	1.46	. Q	.	.	.	.
14.40	0.8841	1.53	. Q	.	.	.	.
14.55	0.9027	1.57	. Q	.	.	.	.
14.70	0.9220	1.65	. Q	.	.	.	.
14.84	0.9421	1.70	. Q	.	.	.	.
14.98	0.9632	1.82	. Q	.	.	.	.
15.13	0.9854	1.89	. Q	.	.	.	.
15.27	1.0092	2.07	. Q	.	.	.	.

15.42	1.0346	2.19	. Q	.	.	.	.
15.57	1.0587	1.83	. Q	.	.	.	.
15.71	1.0820	2.06	. Q	.	.	.	.
15.85	1.1114	2.85	. Q	.	.	.	.
16.00	1.1525	4.00	. Q	.	.	.	.
16.15	1.2550	13.11	.	.	.	Q	.
16.29	1.3477	2.36	. Q	.	.	.	.
16.43	1.3721	1.73	. Q	.	.	.	.
16.58	1.3943	1.97	. Q	.	.	.	.
16.73	1.4166	1.76	. Q	.	.	.	.
16.87	1.4368	1.61	. Q	.	.	.	.
17.02	1.4554	1.49	. Q	.	.	.	.
17.16	1.4731	1.47	. Q	.	.	.	.
17.31	1.4903	1.39	. Q	.	.	.	.
17.45	1.5066	1.33	. Q	.	.	.	.
17.59	1.5223	1.28	. Q	.	.	.	.
17.74	1.5373	1.23	. Q	.	.	.	.
17.89	1.5519	1.19	. Q	.	.	.	.
18.03	1.5660	1.16	. Q	.	.	.	.
18.17	1.5785	0.94	.Q	.	.	.	.
18.32	1.5896	0.91	.Q	.	.	.	.
18.47	1.6004	0.88	.Q	.	.	.	.
18.61	1.6108	0.86	.Q	.	.	.	.
18.76	1.6210	0.83	.Q	.	.	.	.
18.90	1.6308	0.81	.Q	.	.	.	.
19.05	1.6405	0.79	.Q	.	.	.	.
19.19	1.6499	0.77	.Q	.	.	.	.
19.33	1.6590	0.76	.Q	.	.	.	.
19.48	1.6680	0.74	.Q	.	.	.	.
19.62	1.6768	0.73	.Q	.	.	.	.
19.77	1.6854	0.71	.Q	.	.	.	.
19.92	1.6939	0.70	.Q	.	.	.	.
20.06	1.7022	0.69	.Q	.	.	.	.
20.20	1.7103	0.67	.Q	.	.	.	.
20.35	1.7183	0.66	.Q	.	.	.	.
20.49	1.7262	0.65	.Q	.	.	.	.
20.64	1.7339	0.64	.Q	.	.	.	.
20.78	1.7416	0.63	.Q	.	.	.	.
20.93	1.7491	0.62	.Q	.	.	.	.
21.08	1.7565	0.61	.Q	.	.	.	.
21.22	1.7638	0.60	.Q	.	.	.	.
21.36	1.7710	0.60	.Q	.	.	.	.
21.51	1.7781	0.59	.Q	.	.	.	.
21.66	1.7851	0.58	.Q	.	.	.	.
21.80	1.7920	0.57	.Q	.	.	.	.
21.94	1.7988	0.57	.Q	.	.	.	.
22.09	1.8056	0.56	.Q	.	.	.	.
22.23	1.8123	0.55	.Q	.	.	.	.
22.38	1.8189	0.55	.Q	.	.	.	.
22.52	1.8254	0.54	.Q	.	.	.	.
22.67	1.8318	0.54	.Q	.	.	.	.
22.82	1.8382	0.53	.Q	.	.	.	.
22.96	1.8445	0.52	.Q	.	.	.	.
23.11	1.8508	0.52	.Q	.	.	.	.
23.25	1.8569	0.51	.Q	.	.	.	.
23.39	1.8631	0.51	.Q	.	.	.	.
23.54	1.8691	0.50	.Q	.	.	.	.
23.68	1.8751	0.50	Q	.	.	.	.
23.83	1.8811	0.49	Q	.	.	.	.
23.98	1.8870	0.49	Q	.	.	.	.
24.12	1.8928	0.49	Q	.	.	.	.
24.26	1.8957	0.00	Q	.	.	.	.

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:
(Note: 100% of Peak Flow Rate estimate assumed to have
an instantaneous time duration)

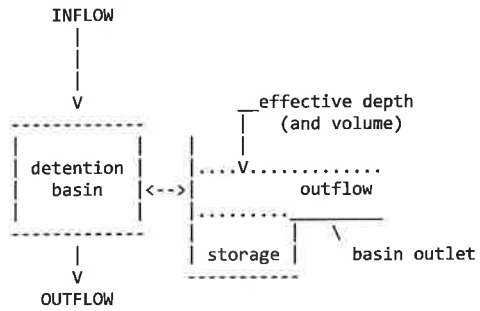
Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1444.2
10%	252.3
20%	26.1
30%	17.4
40%	8.7
50%	8.7

60%	8.7
70%	8.7
80%	8.7
90%	8.7

Problem Descriptions:
JOB #3654 SOUTH ONTARIO LOGISTIC CENTER, ONTARIO
100-YEAR DETENTION
BUILDING 8 TRUCK YARD (NODE 112)

FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 8.700
DEAD STORAGE(AF) = 0.00
SPECIFIED DEAD STORAGE(AF) FILLED = 0.00
ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 7

*BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	**	**BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	*
0.000	0.000	0.000**		0.090	0.001	1.700	*
0.290	0.004	1.900**		0.490	0.020	2.100	*
0.690	0.070	2.200**		0.890	0.140	2.300	*
1.010	0.190	2.400**					

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.09	-0.00919	0.01119
3	0.29	-0.00738	0.01538
4	0.49	0.00742	0.03258
5	0.69	0.05682	0.08318
6	0.89	0.12622	0.15378
7	1.01	0.17562	0.20438

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:
NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES
OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE
AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.050	0.000	0.00	0.00	0.00	0.000
0.195	0.000	0.49	0.05	0.44	0.001
0.340	0.000	0.49	0.05	0.89	0.001
0.485	0.000	0.49	0.05	0.89	0.001
0.630	0.000	0.49	0.05	0.90	0.001
0.775	0.000	0.50	0.05	0.90	0.001
0.920	0.000	0.50	0.05	0.90	0.001
1.065	0.000	0.50	0.05	0.91	0.001
1.210	0.000	0.50	0.05	0.91	0.001
1.355	0.000	0.51	0.05	0.92	0.001

1.500	0.000	0.51	0.05	0.92	0.001
1.645	0.000	0.51	0.05	0.93	0.001
1.790	0.000	0.51	0.05	0.93	0.001
1.935	0.000	0.52	0.05	0.94	0.001
2.080	0.000	0.52	0.05	0.94	0.001
2.225	0.000	0.52	0.05	0.94	0.001
2.370	0.000	0.52	0.05	0.95	0.001
2.515	0.000	0.53	0.05	0.95	0.001
2.660	0.000	0.53	0.05	0.96	0.001
2.805	0.000	0.53	0.05	0.96	0.001
2.950	0.000	0.53	0.05	0.97	0.001
3.095	0.000	0.54	0.05	0.97	0.001
3.240	0.000	0.54	0.05	0.98	0.001
3.385	0.000	0.54	0.05	0.99	0.001
3.530	0.000	0.55	0.05	0.99	0.001
3.675	0.000	0.55	0.05	1.00	0.001
3.820	0.000	0.55	0.05	1.00	0.001
3.965	0.000	0.56	0.05	1.01	0.001
4.110	0.000	0.56	0.05	1.01	0.001
4.255	0.000	0.56	0.05	1.02	0.001
4.400	0.000	0.56	0.05	1.03	0.001
4.545	0.000	0.57	0.05	1.03	0.001
4.690	0.000	0.57	0.06	1.04	0.001
4.835	0.000	0.58	0.06	1.04	0.001
4.980	0.000	0.58	0.06	1.05	0.001
5.125	0.000	0.58	0.06	1.06	0.001
5.270	0.000	0.59	0.06	1.06	0.001
5.415	0.000	0.59	0.06	1.07	0.001
5.560	0.000	0.59	0.06	1.08	0.001
5.705	0.000	0.60	0.06	1.09	0.001
5.850	0.000	0.60	0.06	1.09	0.001
5.995	0.000	0.61	0.06	1.10	0.001
6.140	0.000	0.61	0.06	1.11	0.001
6.285	0.000	0.62	0.06	1.12	0.001
6.430	0.000	0.62	0.06	1.12	0.001
6.575	0.000	0.63	0.06	1.13	0.001
6.720	0.000	0.63	0.06	1.14	0.001
6.865	0.000	0.63	0.06	1.15	0.001
7.010	0.000	0.64	0.06	1.16	0.001
7.155	0.000	0.64	0.06	1.17	0.001
7.300	0.000	0.65	0.06	1.18	0.001
7.445	0.000	0.66	0.06	1.19	0.001
7.590	0.000	0.66	0.06	1.20	0.001
7.735	0.000	0.67	0.06	1.21	0.001
7.880	0.000	0.67	0.06	1.22	0.001
8.025	0.000	0.68	0.07	1.23	0.001
8.170	0.000	0.68	0.07	1.24	0.001
8.315	0.000	0.69	0.07	1.25	0.001
8.460	0.000	0.69	0.07	1.26	0.001
8.605	0.000	0.70	0.07	1.27	0.001
8.750	0.000	0.71	0.07	1.28	0.001
8.895	0.000	0.72	0.07	1.30	0.001
9.040	0.000	0.72	0.07	1.31	0.001
9.185	0.000	0.73	0.07	1.32	0.001
9.330	0.000	0.74	0.07	1.34	0.001
9.475	0.000	0.75	0.07	1.35	0.001
9.620	0.000	0.75	0.07	1.36	0.001
9.765	0.000	0.76	0.07	1.38	0.001
9.910	0.000	0.77	0.07	1.39	0.001
10.055	0.000	0.78	0.08	1.41	0.001
10.200	0.000	0.79	0.08	1.43	0.001
10.345	0.000	0.80	0.08	1.44	0.001
10.490	0.000	0.81	0.08	1.46	0.001
10.635	0.000	0.82	0.08	1.48	0.001
10.780	0.000	0.83	0.08	1.50	0.001
10.925	0.000	0.84	0.08	1.52	0.001
11.070	0.000	0.85	0.08	1.54	0.001
11.215	0.000	0.87	0.08	1.56	0.001
11.360	0.000	0.87	0.08	1.59	0.001
11.505	0.000	0.89	0.09	1.61	0.001
11.650	0.000	0.90	0.09	1.63	0.001
11.795	0.000	0.92	0.09	1.66	0.001
11.940	0.000	0.93	0.09	1.69	0.001
12.085	0.000	1.02	0.14	1.72	0.002
12.230	0.000	1.15	0.21	1.79	0.003
12.375	0.000	1.17	0.22	1.83	0.003
12.520	0.000	1.18	0.23	1.84	0.003

12.665	0.000	1.21	0.25	1.85	0.003
12.810	0.000	1.22	0.25	1.86	0.003
12.955	0.000	1.25	0.27	1.87	0.004
13.100	0.000	1.26	0.28	1.88	0.004
13.245	0.000	1.30	0.29	1.90	0.004
13.390	0.000	1.31	0.29	1.90	0.004
13.535	0.000	1.35	0.30	1.91	0.005
13.680	0.000	1.37	0.30	1.91	0.005
13.825	0.000	1.42	0.31	1.92	0.005
13.970	0.000	1.44	0.31	1.92	0.006
14.115	0.000	1.45	0.31	1.92	0.006
14.260	0.000	1.46	0.31	1.92	0.006
14.405	0.000	1.53	0.32	1.93	0.007
14.550	0.000	1.57	0.33	1.94	0.007
14.695	0.000	1.65	0.34	1.95	0.008
14.840	0.000	1.70	0.35	1.96	0.009
14.985	0.000	1.82	0.36	1.97	0.010
15.130	0.000	1.89	0.37	1.98	0.011
15.275	0.000	2.07	0.40	2.00	0.013
15.420	0.000	2.19	0.42	2.02	0.015
15.565	0.000	1.83	0.40	2.02	0.012
15.710	0.000	2.06	0.40	2.01	0.013
15.855	0.000	2.85	0.50	2.06	0.023
16.000	0.000	4.00	0.59	2.13	0.045
16.145	0.000	13.11	0.97	2.26	0.175
16.290	0.000	2.36	0.97	2.37	0.175
16.435	0.000	1.73	0.96	2.36	0.167
16.580	0.000	1.97	0.94	2.35	0.163
16.725	0.000	1.76	0.93	2.34	0.156
16.870	0.000	1.61	0.91	2.32	0.147
17.015	0.000	1.49	0.88	2.31	0.137
17.160	0.000	1.47	0.85	2.29	0.128
17.305	0.000	1.39	0.82	2.27	0.117
17.450	0.000	1.33	0.79	2.26	0.106
17.595	0.000	1.28	0.76	2.24	0.094
17.740	0.000	1.23	0.73	2.23	0.082
17.885	0.000	1.19	0.69	2.21	0.070
18.030	0.000	1.16	0.64	2.19	0.058
18.175	0.000	0.94	0.58	2.16	0.043
18.320	0.000	0.91	0.52	2.13	0.029
18.465	0.000	0.88	0.42	2.07	0.014
18.610	0.000	0.86	0.16	1.90	0.002
18.755	0.000	0.83	0.08	1.64	0.001
18.900	0.000	0.81	0.08	1.50	0.001
19.045	0.000	0.79	0.08	1.46	0.001
19.190	0.000	0.77	0.07	1.43	0.001
19.335	0.000	0.76	0.07	1.39	0.001
19.480	0.000	0.74	0.07	1.36	0.001
19.625	0.000	0.73	0.07	1.34	0.001
19.770	0.000	0.71	0.07	1.31	0.001
19.915	0.000	0.70	0.07	1.28	0.001
20.060	0.000	0.69	0.07	1.26	0.001
20.205	0.000	0.67	0.06	1.24	0.001
20.350	0.000	0.66	0.06	1.22	0.001
20.495	0.000	0.65	0.06	1.20	0.001
20.640	0.000	0.64	0.06	1.18	0.001
20.785	0.000	0.63	0.06	1.16	0.001
20.930	0.000	0.62	0.06	1.14	0.001
21.075	0.000	0.61	0.06	1.12	0.001
21.220	0.000	0.60	0.06	1.11	0.001
21.365	0.000	0.60	0.06	1.09	0.001
21.510	0.000	0.59	0.06	1.08	0.001
21.655	0.000	0.58	0.06	1.07	0.001
21.800	0.000	0.57	0.06	1.05	0.001
21.945	0.000	0.57	0.05	1.04	0.001
22.090	0.000	0.56	0.05	1.03	0.001
22.235	0.000	0.55	0.05	1.01	0.001
22.380	0.000	0.55	0.05	1.00	0.001
22.525	0.000	0.54	0.05	0.99	0.001
22.670	0.000	0.54	0.05	0.98	0.001
22.815	0.000	0.53	0.05	0.97	0.001
22.960	0.000	0.52	0.05	0.96	0.001
23.105	0.000	0.52	0.05	0.95	0.001
23.250	0.000	0.51	0.05	0.94	0.001
23.395	0.000	0.51	0.05	0.93	0.001
23.540	0.000	0.50	0.05	0.92	0.001
23.685	0.000	0.50	0.05	0.91	0.001

← Q_{100} (DISCHARGE) = 2.4 CFS
PONDING DEPTH = 0.97 FT
VOLUME STORED = 0.175 AC-FT

23.830	0.000	0.49	0.05	0.90	0.001
23.975	0.000	0.49	0.05	0.90	0.001
24.120	0.000	0.49	0.05	0.89	0.001
24.265	0.000	0.00	0.00	0.44	0.000
24.410	0.000	0.00	0.00	0.00	0.000

APPENDIX D

HYDROLOGY MAP

APPENDIX G2

PRELIMINARY WATER QUALITY MANAGEMENT PLAN

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

PRELIMINARY
WATER QUALITY MANAGEMENT PLAN
(WQMP)

FOR:
SOUTH ONTARIO LOGISTICS CENTER
NEC MERRILL AVE. AND BON VIEW AVE.
ONTARIO, CALIFORNIA
APNS: 1054-081-03 // 1054-091-01, -02 // 1054-071-01, -02 // 1054-101-01, -02 // 1054-241-01, -02 // 1054-231-01, -02 // 1054-311-01, -02 // 1054-321-01, -02

ONTARIO LAND DEVELOPMENT FILE NO. XXXXX

PREPARED FOR:
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4450 MACARTHUR BOULEVARD, SUITE 100
NEWPORT BEACH, CA 92660
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CONTACT: JASON KROTTS

DECEMBER 14, 2020

JOB NO. 3654

PREPARED BY:
THIENES ENGINEERING
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PRELIMINARY
WATER QUALITY MANAGEMENT PLAN
(WQMP)

FOR

"SOUTH ONTARIO LOGISTICS CENTER"

PREPARED BY LUIS PRADO
UNDER THE SUPERVISION OF:

12/14/20

REINHARD STENZEL DATE
R.C.E. 56155
EXP. 12/31/2022

Preliminary Water Quality Management Plan (PWQMP)

For compliance with Santa Ana Regional Water Quality Control Board

Order Number R8-2010-0036 (NPDES Permit No. CAS618036)

for

Project Name:	**South Ontario Logistics Center**
Ontario Project #:	**XXXXX**
Project Description:	**Light Industrial**
Applicant Name:	**Real Estate Development Associates**
Applicant Address:	**4450 MacArthur Boulevard, Suite 100 Newport Beach, CA 92660**
Project Address:	**NEC of Merrill Avenue and Bon View Avenue**
Size of Development:	**130.35 acres**

1st Submittal Date: 12/14/2020

Preliminary Water Quality Management Plan (PWQMP)

1. Introduction

The Preliminary Water Quality Management Plan (PWQMP) is a planning tool to improve integration of required water quality elements, stormwater management, water conservation, rainwater harvesting and re-use, and flood management in land use planning and the City's development process. The Preliminary WQMP will assist project applicants and planners in properly designing and laying out project sites so that water quality may be incorporated in the most effective manner and at the lowest cost for the developer.

The San Bernardino County Municipal Separate Storm Sewer System Permit (MS4 Permit) requires project-specific Water Quality Management plans (WQMP) to be prepared for all priority new development and significant redevelopment projects listed in Section 2 of this document. The MS4 Permit stipulates that the City of Ontario require priority project applicants to submit a Preliminary project-specific WQMP, as early as possible, during the environmental review or planning phase of a development project and that the Preliminary WQMP be approved prior to the issuance of land use entitlement.

2. Priority Projects (requiring a Preliminary WQMP)

Land Use entitlement shall not be issued for any of the listed projects, below, until a Preliminary WQMP has been approved by the City's Engineering Department. For construction projects not going through entitlement, a Preliminary and Final project-specific WQMP shall be approved, prior to the issuance of construction permits:

Check the appropriate project category below, for this project:

Check below	**Project Categories**
	1. All significant re-development projects. Significant re-development is defined as the addition or replacement of 5,000 or more square feet of impervious surface on an already developed site subject to discretionary approval of the Permittee. Redevelopment does not include routine maintenance activities that are conducted to maintain original line and grade, hydraulic capacity, original purpose of the facility, or emergency redevelopment activity required to protect public health and safety. Where redevelopment results in an increase of less than fifty percent of the impervious surfaces of a previously existing developed site, and the existing development was not subject to WQMP requirements, the numeric sizing criteria discussed below applies only to the addition or replacement, and not to the entire developed site. Where redevelopment results in an increase of fifty percent or more of the impervious surfaces of a previously existing developed site, the numeric sizing criteria applies to the entire development (new and existing).

Check below	Project Categories
X	2. New development projects that create 10,000 square feet or more of impervious surface (collectively over the entire project site) including commercial, industrial, residential housing subdivisions (i.e., detached single family home subdivisions, multi-family attached subdivisions or townhomes, condominiums, apartments, etc.), mixed-use, and public projects. This category includes development projects on public and private land, which fall under the planning and building authority of the permitting agency.
	3. Automotive repair shops (with SIC codes 5013, 5014, 5541, 7532- 7534, 7536-7539).
	4. Restaurants and Food Service Establishments where the land area of development is 5,000 square feet or more.
	5. Developments of 2,500 square feet of impervious surface or more adjacent to (within 200 feet) or discharging directly into environmentally sensitive areas (ESA's) such as areas designated in the Ocean Plan as areas of special biological significance or waterbodies listed on the CWA Section 303(d) list of impaired waters.
	6. Parking lots of 5,000 square feet or more exposed to storm water. Parking lot is defined as land area or facility for the temporary storage of motor vehicles.
	7. Retail Gasoline Outlets (RGOs) that are either 5,000 sq ft or more, or have a projected average daily traffic of 100 or more vehicles per day.
	8. *This project is not covered under any of the categories listed above.

* If the development is not covered under any of the project categories listed in Section 2, the project is not required to design and install Site Design/LID BMPs or Treatment Control BMPs to treat the design storm event (Design Capture Volume) described in Section 4.

3. Preliminary WQMP Objectives

Through a combination of Site Design/LID BMPs (where feasible), Source Control, and/or Treatment Control BMPs, project-specific WQMPs shall address all identified pollutants and hydrologic conditions of concern from new development and significant re-development projects for the categories of projects (priority projects) listed in Section 2. Under each type of BMP, listed below, please indicate which BMPs are planned to be implemented and included in the Final WQMP for the project:

A. Site Design/LID (Low Impact Design) for Reducing Stormwater Runoff:

The MS4 Permit requires each priority development project to infiltrate, harvest and use, evapotranspire, or bio-treat the runoff from a 2-yr, 24-hour storm event (Design Capture Volume). If site conditions do not permit infiltration, harvest and use, evapotranspiration, and/or bio-treatment of the entire Design Capture Volume, at the project site, Site Design/LID techniques are required to be implemented to the Maximum Extent Practicable, at the project site, and the remainder of the DCV shall be infiltrated, harvested, bio-treated or treated by alternative measures.

Project applicants shall submit a Preliminary WQMP that documents the LID/Site Design BMPs, proposed for the project. Please indicate, in the table below, which Site Design/LID BMPs will be utilized on this project to accomplish this requirement:

Site Design/LID Practice	Planned	Not Planned
Provide at least the minimum effective area required for LID BMPs, to comply with the WQMP (see Table 3-1 below).		**X[1]**
Grade parking lot areas/drive aisles/roof drains to sheet flow runoff into landscaped swales, via curb cuts or zero-face curbs or otherwise disconnect direct drainage from MS4.		**X[1]**
Design landscaped areas as swales and grade to accept runoff from building roofs, parking lots and project roadways.		**X[1]**
Install surface retention basins or infiltration trenches to receive impervious area runoff.		**X[2]**
Install pervious pavement in parking stalls, alleys, driveways, gutters, walkways, trails or patios.		**X[2]**
Install underground stormwater retention chambers where downstream landscaped areas are limited.		**X[2]**
Install approved Stormwater Drywells in detention areas.		**X[2]**
Construct streets, sidewalks, and parking lot stalls to the minimum widths necessary.	**X**	
Install on-site Biotreatment basins/trenches with underdrains, where soil type is poorly draining.	**X**	
Install "Engineered Soil" to increase uptake/soil storage capacity and/or evapotranspiration.		**X[2]**
Install Rainwater Harvesting/Use Equipment.		**X[3]**
Utilize approved off-site retention/infiltration, biotreatment or proprietary treatment, where it is infeasible to install, on-site.		**X[2]**

[1] Project capable of treating the full DCV onsite and not required to demonstrate this site design.
[2]The site will be captured and treated by the proposed Contech underground CMP systems (CMP) and Maxwell Drywells.
[3] Concept not utilized because the impervious area is much greater than landscape.

Table 3-1 Minimum Effective Area[1] Required for LID BMPs (surface + subsurface facilities) for Project WQMP to Demonstrate Infeasibility[2] (% of site)

Project Type	New Development	Re-Development
SF/MF Residential < 7 du/ac	10%	5%
SF/MF Residential < 7 - 18 du/ac	7%	3.5%
SF/MF Residential > 18 du/ac	5%	2.5%
Mixed Use, Commercial/Industrial w/FAR< 1.0	10%	5%
Mixed Use, Commercial/Industrial w/FAR 1.0-2.0	7%	3.5%
Mixed Use, Commercial/Industrial w/FAR> 2.0	5%	2.5%
Podium (parking under > 75% of project)	3%	1.5%
Zoning allowing development to property lines	2%	1%
Transit Oriented Development[3]	5%	2.5%
Parking	5%	2.5%

[1] "Effective area" is defined as land area which 1) is suitable for a retention/infiltration BMP (based on infeasibility criteria) and 2) is located down-gradient from building roof or paved areas, so that it may receive gravity flow runoff.
[2] Criteria only required if the project WQMP seeks to demonstrate that the full DCV cannot be feasibly managed on-site.
[3] Transit oriented development is defined as a project with development center within one half mile of a mass transit center.
Key: du/ac = dwelling units/acre, FAR = Floor Area Ratio = ratio of gross floor area of building to gross lot area, MF = Multi Family, SF = Single Family

B. Source Control BMPs – The following BMPs are designed to control stormwater pollutants and runoff water at the location where it is generated. Please indicate which of the listed BMPs are planned to be implemented for the project:

Source Control BMPs	Planned	Not Planned
Minimize non-stormwater site runoff through efficient irrigation system design and controllers.	**X**	
Minimize trash and debris in storm runoff through a regular parking lot, storage yard and roadway sweeping program.	**X**	
Provide proper covers/roofs and secondary containment for outside material storage & work areas.		**X[1]**
Provide solid roofs over all trash enclosures.	**X**	
Site Owner(s)/Property Manager/HOA or POA will be familiar with the project WQMP and stormwater BMPs.	**X**	
Owner or HOA or POA to provide Education/Training of site occupants and employees on stormwater BMPs.	**X**	
Install stormwater placards/stenciled messages with a "No Dumping" message on all on-site/off-site storm drain inlets.	**X**	
Provide contained equipment/vehicle wash rack areas that discharge to sanitary sewer.		**X[2]**

[1] Not applicable. No outside material storage or work areas. Secondary containment not needed.
[2] Not applicable, no vehicle wash areas.

C. Treatment Control BMPs – The following BMPs are designed to control stormwater pollutants where it is not feasible to install on-site Site Design/LID BMPs, with the requisite capacity to treat the Design Capture Volume for identified Pollutants of Concern or where pretreatment of stormwater runoff is required, ahead of infiltration BMPs. Please indicate which of the listed BMPs are planned to be implemented for the project:

Treatment Control BMP	Planned	Not Planned
Gravity Separator devices for pretreatment of sediment, trash/litter or Oil & Grease	**X**[1]	
Proprietary Biofiltration vaults/devices		**X**
Media Cartridge Filtration Vaults		**X**
Proprietary Filter Inserts for on-site storm drain inlets or retention basin/trench overflow drains		**X**
Regional Treatment facilities are installed or are planned for installation, off-site, and provide a superior level of treatment or clear advantage to on-site treatment BMPs		**X**

[1]The site will be pre-treated by the proposed Bio Clean Hydrodynamic Separators (DSBB).
[2]The site will be captured and treated by the proposed Contech underground CMP systems (CMP) and Maxwell Drywells.

4. Volume-based calculation (approximate) for sizing on-site or off-site Stormwater Retention/Infiltration, Harvest & Re-Use or Biotreatment facilities

1) Calculate the "Watershed Imperviousness Ratio", i, which is equal to the percent of impervious area in the BMP Drainage Area (DA) divided by 100.

2) Calculate the composite runoff coefficient C_{BMP} for the Drainage Area (DA) above using the following equation:

$$\mathbf{C_{BMP} = 0.858i^3 - 0.78i^2 + 0.774i + 0.04}$$

where: $\mathbf{C_{BMP}}$ = composite runoff coefficient; and,

i = watershed imperviousness ratio.

3) Determine the area-averaged "6-hour Mean Storm Rainfall", P_6, for the Drainage Area (DA). This is calculated by multiplying the area averaged 2-year 1-hour value (0.55"-0.6") by the appropriate regression coefficient from Table 1 (1.4807). The 2-yr, 1-hr value for southern Ontario is approximately to 0.5" (P_6 = 0.5*1.4807 = 0.74 and northern Ontario is approximately 0.6" in/hr (P_6 = 0.6*1.4807 = 0.89).

4) Determine the appropriate drawdown time. Use the regression constant a = 1.582 for 24 hours and a = 1.963 for 48 hours. *Note: Regression constants are provided for both 24 hour and 48 hour drawdown times; however, 48 hour drawdown times should be used in most areas of California. Drawdown times in excess of 48 hours should be used with caution as vector breeding can be a problem after water has stood in excess of 72 hours. (Use of the 24 hour drawdown time should be limited to drainage areas with coarse soils (Class 'A' soils, that readily drain.)*

5) Calculate the "Maximized Detention Volume", P_0, using the following equation:

$$\mathbf{P_0 = a \cdot C_{BMP} \cdot P_6}$$

where: **P_0** = Maximized Detention Volume, in inches

a = 1.582 for 24 hour and a = 1.963 for 48 hour drawdown,

C_{BMP} = composite runoff coefficient; and,

P_6 = 6-hour Mean Storm Rainfall, in inches

6) Calculate the "Target Capture Volume", V_0, using the following equation:

$$\mathbf{V_0 = (P_0 \cdot A) / 12}$$

where: **V_0** = Target Capture Volume, in acre-feet

P_0 = Maximized Detention Volume, in inches; and,

A = BMP Drainage Area (DA), in acres

Project Volume-based calculation (approximate) for planned on-site or off-site Stormwater Retention/Infiltration, Harvest & Re-Use or Biotreatment facilities:

Variable	Factor/Formula	**DA 1 DMA A CMP & DRY WELL #1**	**DA 1 DMA B CMP & DRY WELL #2**	**DA 1 DMA C CMP & DRY WELL #3**	**DA 1 DMA D CMP & DRY WELL #4**
Ratio of impervious surface/total site surface	(i)	0.95	0.95	0.95	0.95
C_{BMP}= runoff coefficient	$0.858i^3 - 0.78i^2 + 0.774i + 0.04$ =	0.807	0.807	0.807	0.807
P_6 (inches)	**P_6 = 2-yr,1- hr depth*1.4807 =	0.845	0.845	0.845	0.845
Detention Volume-inches	P_0 = a * C_{BMP} * P_6 =	1.3393	1.3393	1.3393	1.3393
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	1.963	1.963	1.963
Project Total Area (ac)	(A)	4.35	4.10	4.00	3.75
Design Capture Volume, cu. ft. (DCV)	V_0 = [(P_0 * A)/12]*43560 =	21,149	19,933	19,447	18,232
Water Volume infiltrated in first 3 hrs of storm	Vol= in/hr/12 x ft^2 of infiltration area x 3 hrs	N/A	N/A	N/A	N/A
Retention/treatment Volume provided, cu. ft.	*Retention capacity of basins, trenches, underground system or	23,781	22,558	22,150	20,927

	biotreatment proposed				
Variable	Factor/Formula	**DA 1 DMA E CMP & DRY WELL #5**	**DA 2 DMA A CMP & DRY WELL #6**	**DA 2 DMA B CMP & DRY WELL #7**	**DA 2 DMA C CMP & DRY WELL #8**
Ratio of impervious surface/total site surface	(i)	0.95	0.95	0.95	0.95
C_{BMP}= runoff coefficient	$0.858i^3 - 0.78i^2 + 0.774i + 0.04$ =	0.807	0.807	0.807	0.807
P_6 (inches)	**P_6 = 2-yr,1- hr depth*1.4807 =	0.845	0.845	0.845	0.845
Detention Volume-inches	P_0 = a * C_{BMP} * P_6 =	1.3393	1.3393	1.3393	1.3393
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	1.963	1.963	1.963
Project Total Area (ac)	(A)	4.65	23.35	23.40	15.00
Design Capture Volume, cu. ft. (DCV)	$V_0 = [(P_0 * A)/12]*43560$ =	22,607	113,522	113,765	72,926
Water Volume infiltrated in first 3 hrs of storm	Vol= in/hr/12 x ft^2 of infiltration area x 3 hrs	N/A	N/A	N/A	N/A
Retention/treatment Volume provided, cu. ft.	*Retention capacity of basins, trenches, underground system or biotreatment proposed	25,276	123,862	124,207	80,711

Variable	Factor/Formula	**DA 2 DMA D CMP & DRY WELL #9**	**DA 2 DMA E CMP & DRY WELL #10**	**DA 2 DMA F CMP & DRY WELL #11**
Ratio of impervious surface/total site surface	(i)	0.95	0.95	0.95
C_{BMP}= runoff coefficient	$0.858i^3 - 0.78i^2 + 0.774i + 0.04$ =	0.807	0.807	0.807
P_6 (inches)	**P_6 = 2-yr,1- hr depth*1.4807 =	0.845	0.845	0.845
Detention Volume-inches	P_0 = a * C_{BMP} * P_6 =	1.3393	1.3393	1.3393
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	1.963	1.963
Project Total Area (ac)	(A)	15.55	21.45	8.35
Design Capture Volume, cu. ft. (DCV)	$V_0 = [(P_0 * A)/12]*43560$ =	75,600	104,284	40,596
Water Volume infiltrated in first 3 hrs of storm	Vol= in/hr/12 x ft^2 of infiltration area x 3 hrs	N/A	N/A	N/A
Retention/treatment Volume provided, cu. ft.	*Retention capacity of basins, trenches, underground system or biotreatment proposed	83,466	114,583	45,689

*Volume treated utilizing the Contech underground CMP systems (CMP) and Maxwell Drywells. Refer to the DCV Calculations section for calculations.

**For P_6 value, use site coordinates and NOAA website to determine project's average 2-yr, 1-hr rainfall depth, at: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html.

Refer to the DCV Calculations section for onsite flow-based calculations.

5. **Hydrologic Conditions of Concern (HCOC) and use of the on-line San Bernardino County HCOC Map for determining necessary mitigation steps necessary if there are HCOCs downstream of a project:**

Project applicants may access the on-line HCOC Map at: http://sbcounty.permitrack.com/WAP/. The map will indicate any hydrology concerns with downstream waterways that are hydraulically connected to the project and will indicate if there are any approved regional projects downstream that could be utilized for off-site mitigation of HCOCs. Please indicate here if the project will or will not be able to retain/infilter, harvest and use or biotreat and detain the DCV, on-site, as calculated in Section 4 and if there are HCOCs identified downstream of the project:

Retain or Harvest/Use the DCV on site?	Yes	**X**	No	
Biotreat the DCV but not infilter the runoff?	Yes		No	**X**
HCOCs identified downstream of site?	Yes	**X**	No	

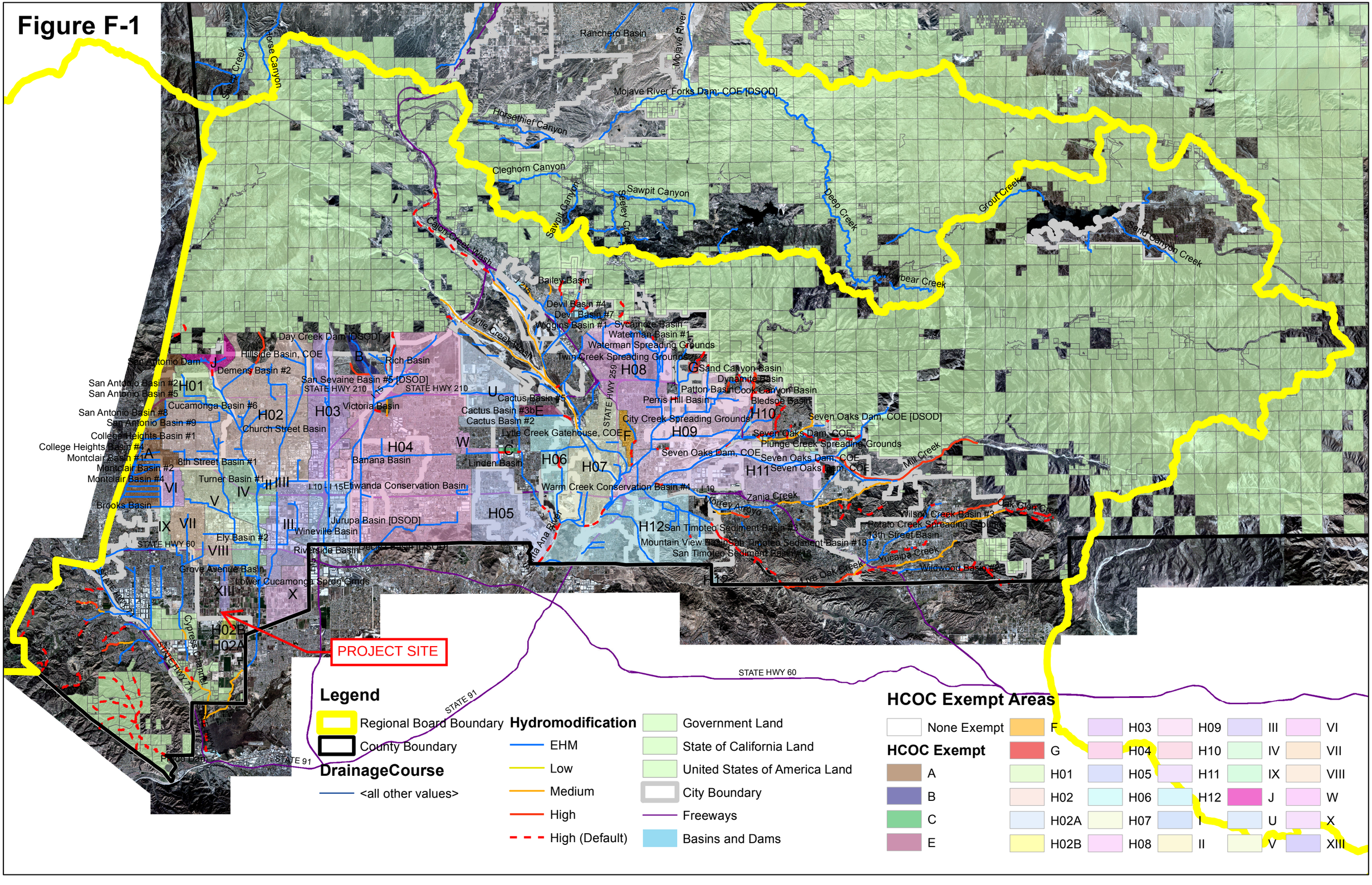
If the entire DCV will not be retained on site, the DCV is biotreated but not infiltered or additional detention capacity is needed to address identified HCOCs, downstream of the site, please list here, what additional mitigation measures will be utilized (on-site or off-site) to address HCOCs (see Section 4.2.1-4.2.3 of the SB County WQMP Technical Guidance):

Additional retention capacity is not required for HCOCs. Refer to HCOC Calculations.

6. **Site Plan and Conceptual Grading/Drainage Plan requirements for submission with the Preliminary WQMP:**

Provide a Site Plan and Conceptual Grading/Drainage Plan along with this Preliminary WQMP, which conceptually shows the proposed locations of buildings, homes, parking lots, parks, new paved roadways, landscaped areas, drainage patterns and drainage sub-areas, methods of conveyance, proposed retention/infiltration, harvest & use or biotreatment facilities that are planned for installation. Where it is determined to be infeasible to capture and detain design storm runoff volumes, on-site, please include other design features, as described in Section 3, above. Include numbered or lettered notes on the Site Plan with a legend detailing other BMPs, as described in Section 3.

Figure F-1



Legend

- Regional Board Boundary
- County Boundary

DrainageCourse

- <all other values>

Hydromodification

- EHM
- Low
- Medium
- High
- High (Default)

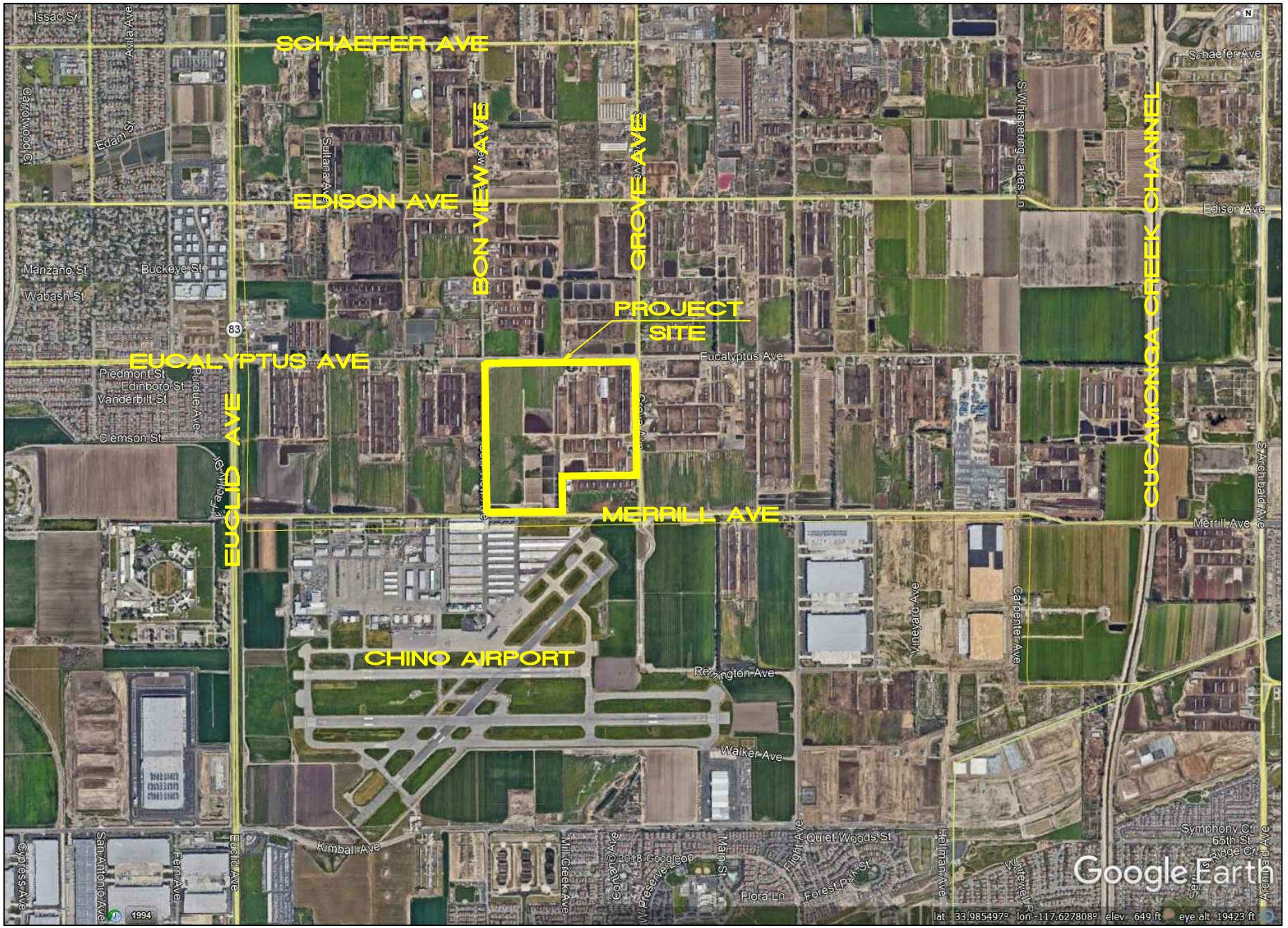
- Government Land
- State of California Land
- United States of America Land
- City Boundary
- Freeways
- Basins and Dams

HCOC Exempt Areas

- None Exempt

HCOC Exempt

A, B, C, E, F, G, H01, H02, H02A, H02B, H03, H04, H05, H06, H07, H08, H09, H10, H11, H12, I, II, III, IV, V, VI, VII, VIII, IX, J, U, W, X, XIII



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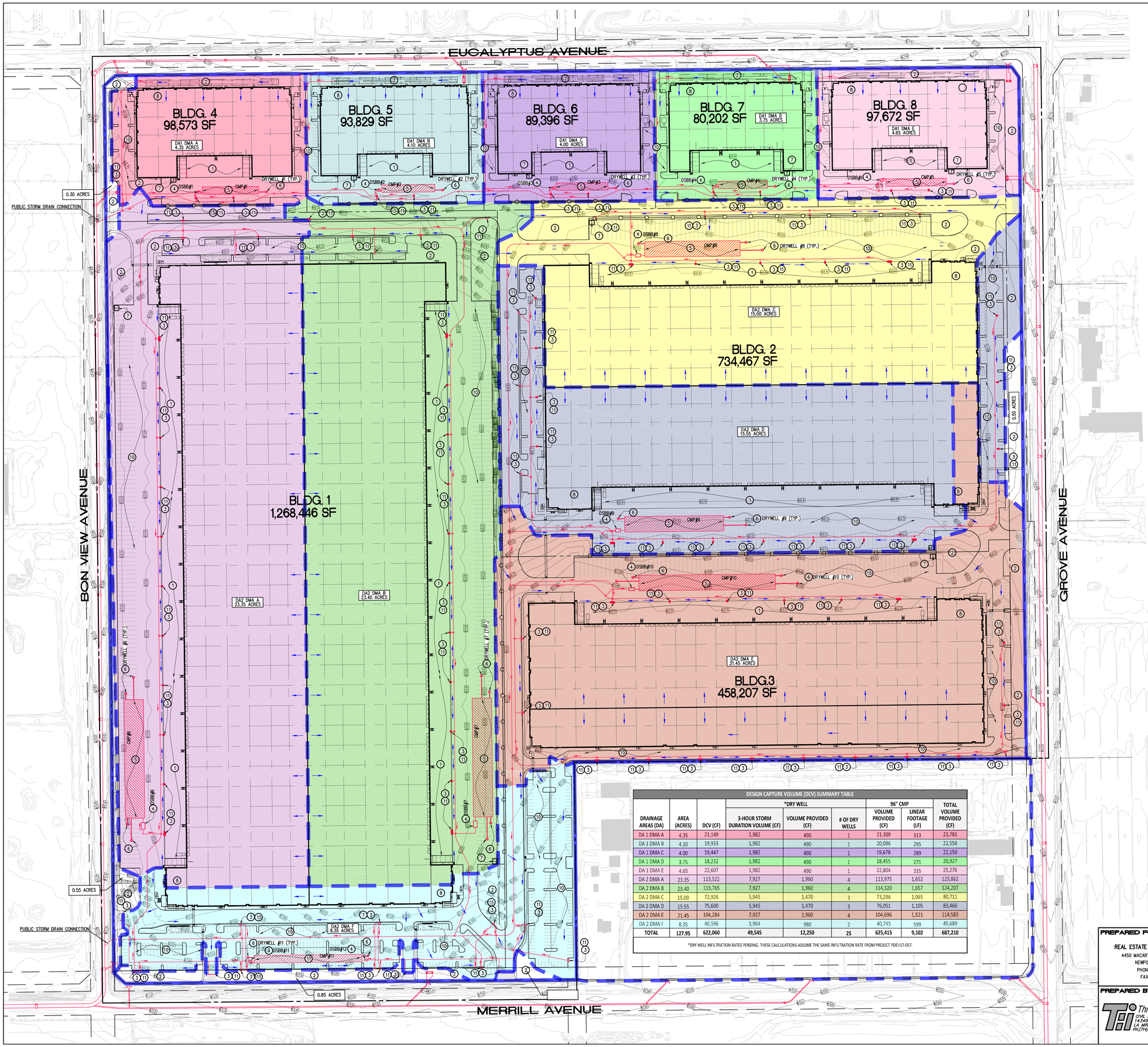
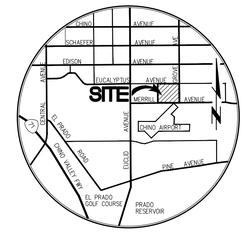
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

VICINITY MAP

FOR

SOUTH ONTARIO LOGISTICS CENTER
NEC OF MERRILL AVE. AND BON VIEW AVE.





LEGEND

1. ABOVEGROUND LOADING DOCK
2. LANDSCAPE/IRRIGATION
3. STORM DRAIN SYSTEM SIGNS "NO DUMPING – DRAINS TO RIVER"
4. BIO CLEAN HYDRODYNAMIC SEPARATOR
5. CONTECH 96" UNDERGROUND CMP SYSTEM (PERFORATED)
6. DRY WELL
7. TRASH ENCLOSURES
8. EDUCATIONAL MATERIAL/EMPLOYEE TRAINING
9. NOT USED
10. VACUUM SWEEPING/LITTER DEBRIS CONTROL
11. CATCH BASIN INSPECTION

NOTES:

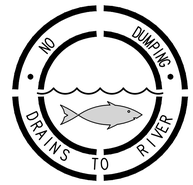
RD	ROOF DRAIN
CMP	UNDERGROUND CMP SYSTEM
DSBB	DEBRIS SEPARATING BAFFLE BOX

BOUNDARY
DRAINAGE AREAS
SURFACE FLOW DIRECTION
SD FLOW DIRECTION

DESIGN CAPTURE VOLUME (DCV) SUMMARY TABLE

DRAINAGE AREAS (DA)	AREA (ACRES)	DCV (CF)	*DRY WELL 3-HOUR STORM DURATION VOLUME (CF)	*DRY WELL VOLUME PROVIDED (CF)	*DRY WELL # OF DRY WELLS	96" CMP VOLUME PROVIDED (CF)	96" CMP LINEAR FOOTAGE (LF)	TOTAL VOLUME PROVIDED (CF)
DA 1 DMA A	4.35	21,149	1,982	490	1	21,309	313	23,781
DA 1 DMA B	4.10	19,933	1,982	490	1	20,086	295	22,558
DA 1 DMA C	4.00	19,447	1,982	490	1	19,678	289	22,150
DA 1 DMA D	3.75	18,232	1,982	490	1	18,455	271	20,927
DA 1 DMA E	4.65	22,607	1,982	490	1	22,804	335	25,276
DA 2 DMA A	23.35	113,522	7,927	1,960	4	113,975	1,652	123,862
DA 2 DMA B	23.40	113,765	7,927	1,960	4	114,320	1,657	124,207
DA 2 DMA C	15.00	72,926	5,945	1,470	3	73,296	1,065	80,711
DA 2 DMA D	15.55	75,600	5,945	1,470	3	76,051	1,105	83,466
DA 2 DMA E	21.45	104,284	7,927	1,960	4	104,696	1,521	114,583
DA 2 DMA F	8.35	40,596	3,964	980	2	40,745	599	45,689
TOTAL	**127.95**	**622,060**	**49,545**	**12,250**	**25**	**625,415**	**9,102**	**687,210**

*DRY WELL INFILTRATION RATES PENDING. THESE CALCULATIONS ASSUME THE SAME INFILTRATION RATE FROM PROJECT PDEV17-057.



SAMPLE STENCIL TO BE USED AT GRATE AND CURB OPENING INLETS
SAMPLE CATCH BASIN STENCIL

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CITY OF ONTARIO
PUBLIC WORKS DEPARTMENT

WQMP SITE MAP
SOUTH ONTARIO LOGISTICS CENTER
NEC MERRILL AVE. AND BON VIEW AVE.
ONTARIO, CA

PREPARED FOR:
REAL ESTATE DEVELOPMENT ASSOCIATES
4450 MACARTHUR BOULEVARD, SUITE 100
NEWPORT BEACH, CA 92660
PHONE: (949) 216-7300
FAX: (949) 724-1433

PREPARED BY:
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____
Approved by _____ Date _____
Public Works Director _____ R.C.E. _____

Sheet 1 of 3 Sheets

3654/1 OF 3 SHEET

DYODS™ Design Your Own Detention System

CONTECH CMP DETENTION SYSTEMS

CONTECH CONSTRUCTION PRODUCTS INC.

For design assistance, drawings, and pricing send completed worksheet to: dyods@contech-cpi.com

Project Summary		
Date:	12/13/2020	
Project Name:	South Ontario Logistics Center (DA 1 DMA A)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering, Inc.	
Telephone:	(714) 521-4811	

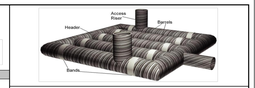
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	21,149	
Limiting Width (ft):	25.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

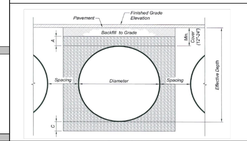
System Sizing			
Pipe Storage:	15,733	cf	
Porous Stone Storage:	5,976	cf	
Total Storage Provided:	21,309	cf	100.8% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	147.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 157. ft		

CONTECH Materials		
Total CMP Footage:	313	ft
Approximate Total Pieces:	15	pcs
Approximate Coupling Bands:	14	bands
Approximate Truckloads:	8	trucks

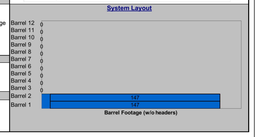
Construction Quantities**		
Total Excavation:	1099	cy
Porous Stone Backfill For Storage:	516	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design





System Layout



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CMP DETAIL (DA1 DMA A)

DYODS™ Design Your Own Detention System

CONTECH CMP DETENTION SYSTEMS

CONTECH CONSTRUCTION PRODUCTS INC.

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Project Summary		
Date:	12/13/2020	
Project Name:	South Ontario Logistics Center (DA 1 DMA B)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering, Inc.	
Telephone:	(714) 521-4811	

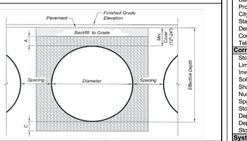
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	19,933	
Limiting Width (ft):	25.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

System Sizing			
Pipe Storage:	14,826	cf	
Porous Stone Storage:	5,257	cf	
Total Storage Provided:	20,083	cf	100.8% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	138.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 148. ft		

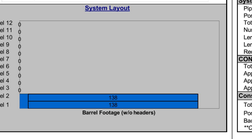
CONTECH Materials		
Total CMP Footage:	295	ft
Approximate Total Pieces:	13	pcs
Approximate Coupling Bands:	12	bands
Approximate Truckloads:	7	trucks

Construction Quantities**		
Total Excavation:	1036	cy
Porous Stone Backfill For Storage:	487	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design



System Layout



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CMP DETAIL (DA1 DMA B)

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CONTECH CMP DETENTION SYSTEMS

CONTECH CONSTRUCTION PRODUCTS INC.

For design assistance, drawings, and pricing send completed worksheet to: dyods@contech-cpi.com

Project Summary		
Date:	12/13/2020	
Project Name:	South Ontario Logistics Center (DA 1 DMA C)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering, Inc.	
Telephone:	(714) 521-4811	

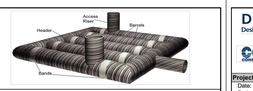
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	19,447	
Limiting Width (ft):	25.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

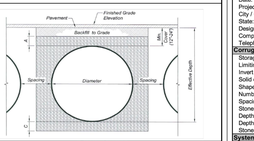
System Sizing			
Pipe Storage:	14,527	cf	
Porous Stone Storage:	5,151	cf	
Total Storage Provided:	19,678	cf	101.2% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	135.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 145. ft		

CONTECH Materials		
Total CMP Footage:	289	ft
Approximate Total Pieces:	13	pcs
Approximate Coupling Bands:	12	bands
Approximate Truckloads:	7	trucks

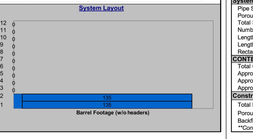
Construction Quantities**		
Total Excavation:	1015	cy
Porous Stone Backfill For Storage:	477	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design





System Layout



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CMP DETAIL (DA1 DMA C)

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CONTECH CMP DETENTION SYSTEMS

CONTECH CONSTRUCTION PRODUCTS INC.

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Project Summary		
Date:	12/13/2020	
Project Name:	South Ontario Logistics Center (DA 1 DMA D)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering, Inc.	
Telephone:	(714) 521-4811	

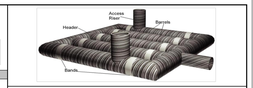
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	18,232	
Limiting Width (ft):	25.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

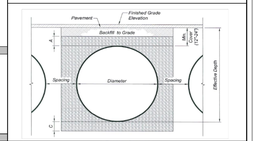
System Sizing			
Pipe Storage:	13,622	cf	
Porous Stone Storage:	4,833	cf	
Total Storage Provided:	18,455	cf	101.2% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	126.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 136. ft		

CONTECH Materials		
Total CMP Footage:	271	ft
Approximate Total Pieces:	13	pcs
Approximate Coupling Bands:	12	bands
Approximate Truckloads:	7	trucks

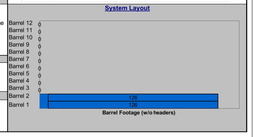
Construction Quantities**		
Total Excavation:	952	cy
Porous Stone Backfill For Storage:	447	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design





System Layout



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CMP DETAIL (DA1 DMA D)

DYODS™ Design Your Own Detention System

CONTECH CMP DETENTION SYSTEMS

CONTECH CONSTRUCTION PRODUCTS INC.

For design assistance, drawings, and pricing send completed worksheet to: dyods@contech-cpi.com

Project Summary		
Date:	12/14/2020	
Project Name:	South Ontario Logistics Center (DA 1 DMA E)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering	
Telephone:	(714) 521-4811	

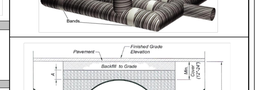
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	22,607	
Limiting Width (ft):	28.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

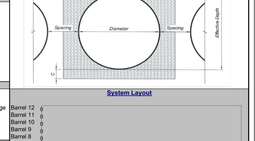
System Sizing			
Pipe Storage:	16,839	cf	
Porous Stone Storage:	5,965	cf	
Total Storage Provided:	22,804	cf	100.9% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	158.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 168. ft		

CONTECH Materials		
Total CMP Footage:	335	ft
Approximate Total Pieces:	15	pcs
Approximate Coupling Bands:	14	bands
Approximate Truckloads:	8	trucks

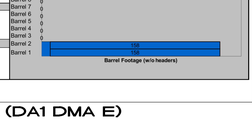
Construction Quantities**		
Total Excavation:	1176	cy
Porous Stone Backfill For Storage:	552	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design





System Layout



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CMP DETAIL (DA1 DMA E)

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Project Summary		
Date:	12/13/2020	
Project Name:	South Ontario Logistics Center (DA 2 DMA A)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering, Inc.	
Telephone:	(714) 521-4811	

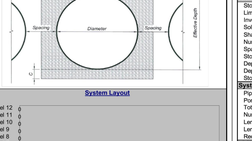
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	113,522	
Limiting Width (ft):	55.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

System Sizing			
Pipe Storage:	83,039	cf	
Porous Stone Storage:	30,937	cf	
Total Storage Provided:	113,975	cf	100.4% Of Required Storage
Number of Barrels:	5	barrels	
Length per Barrel:	320.0	ft	
Length Per Header:	52.0	ft	
Rectangular Footprint (W x L):	54. ft x 330. ft		

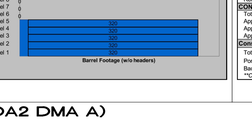
CONTECH Materials		
Total CMP Footage:	1,652	ft
Approximate Total Pieces:	73	pcs
Approximate Coupling Bands:	72	bands
Approximate Truckloads:	37	trucks

Construction Quantities**		
Total Excavation:	5940	cy
Porous Stone Backfill For Storage:	2864	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design



System Layout



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CMP DETAIL (DA2 DMA A)

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CONTECH CMP DETENTION SYSTEMS

CONTECH CONSTRUCTION PRODUCTS INC.

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Project Summary		
Date:	12/13/2020	
Project Name:	South Ontario Logistics Center (DA 2 DMA B)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering, Inc.	
Telephone:	(714) 521-4811	

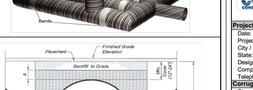
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	113,765	
Limiting Width (ft):	55.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

System Sizing			
Pipe Storage:	83,290	cf	
Porous Stone Storage:	31,030	cf	
Total Storage Provided:	114,320	cf	100.5% Of Required Storage
Number of Barrels:	5	barrels	
Length per Barrel:	321.0	ft	
Length Per Header:	52.0	ft	
Rectangular Footprint (W x L):	54. ft x 331. ft		

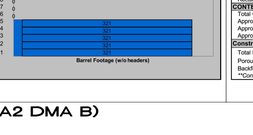
CONTECH Materials		
Total CMP Footage:	1,657	ft
Approximate Total Pieces:	73	pcs
Approximate Coupling Bands:	72	bands
Approximate Truckloads:	37	trucks

Construction Quantities**		
Total Excavation:	5958	cy
Porous Stone Backfill For Storage:	2873	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design



System Layout



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CMP DETAIL (DA2 DMA B)

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Project Summary		
Date:	12/13/2020	
Project Name:	South Ontario Logistics Center (DA 2 DMA C)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering	
Telephone:	(714) 521-4811	

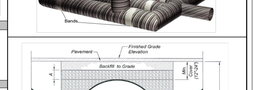
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	72,926	
Limiting Width (ft):	50.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

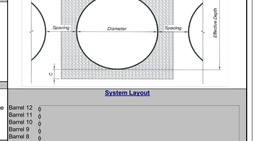
System Sizing			
Pipe Storage:	53,533	cf	
Porous Stone Storage:	19,764	cf	
Total Storage Provided:	73,296	cf	100.5% Of Required Storage
Number of Barrels:	4	barrels	
Length per Barrel:	256.0	ft	
Length Per Header:	41.0	ft	
Rectangular Footprint (W x L):	43. ft x 266. ft		

CONTECH Materials		
Total CMP Footage:	1,065	ft
Approximate Total Pieces:	46	pcs
Approximate Coupling Bands:	45	bands
Approximate Truckloads:	23	trucks

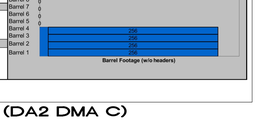
Construction Quantities**		
Total Excavation:	3813	cy
Porous Stone Backfill For Storage:	1830	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design





System Layout



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CMP DETAIL (DA2 DMA C)

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CONTECH CONSTRUCTION PRODUCTS INC.

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Project Summary		
Date:	12/13/2020	
Project Name:	South Ontario Logistics Center (DA 2 DMA D)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering	
Telephone:	(714) 521-4811	

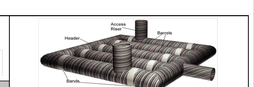
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	40,596	
Limiting Width (ft):	28.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

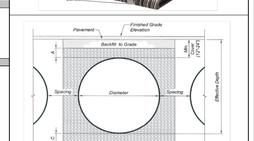
System Sizing			
Pipe Storage:	30,109	cf	
Porous Stone Storage:	10,636	cf	
Total Storage Provided:	40,745	cf	100.4% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	290.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 300. ft		

CONTECH Materials		
Total CMP Footage:	599	ft
Approximate Total Pieces:	27	pcs
Approximate Coupling Bands:	26	bands
Approximate Truckloads:	14	trucks

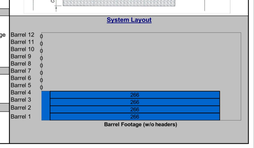
Construction Quantities**		
Total Excavation:	2100	cy
Porous Stone Backfill For Storage:	985	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design





System Layout



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CMP DETAIL (DA2 DMA F)

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CONTECH CMP DETENTION SYSTEMS

CONTECH CONSTRUCTION PRODUCTS INC.

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Project Summary		
Date:	12/13/2020	
Project Name:	South Ontario Logistics Center (DA 2 DMA E)	
City / County:	Ontario, CA	
State:	California	
Designed By:	Luis Prado	Enter Information in Blue Cells
Company:	Thienes Engineering, Inc.	
Telephone:	(714) 521-4811	

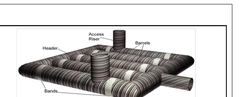
Corrugated Metal Pipe Calculator		
Storage Volume Required (cf):	104,284	
Limiting Width (ft):	50.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft² Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

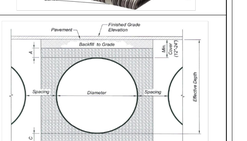
System Sizing			
Pipe Storage:	76,454	cf	
Porous Stone Storage:	28,242	cf	
Total Storage Provided:	104,696	cf	100.4% Of Required Storage
Number of Barrels:	4	barrels	
Length per Barrel:	370.0	ft	
Length Per Header:	41.0	ft	
Rectangular Footprint (W x L):	43. ft x 380. ft		

CONTECH Materials		
Total CMP Footage:	1,521	ft
Approximate Total Pieces:	66	pcs
Approximate Coupling Bands:	65	bands
Approximate Truckloads:	33	trucks

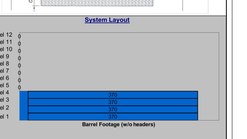
Construction Quantities**		
Total Excavation:	5447	cy
Porous Stone Backfill For Storage:	2615	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

**Construction quantities are approximate and should be verified upon final design





System Layout



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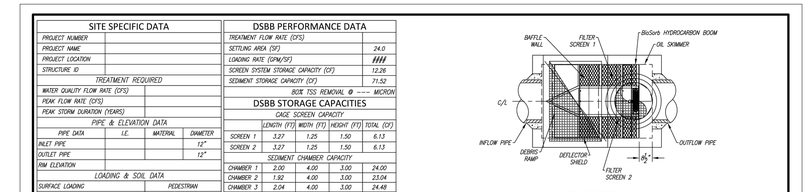
CMP DETAIL (DA2 DMA E)

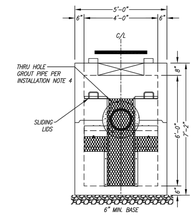
SITE SPECIFIC DATA	
PROJECT NUMBER	
PROJECT NAME	
PROJECT LOCATION	
STRUCTURE ID	
TREATMENT REQUIRED	
WATER QUALITY FLOW RATE (CFS)	
PEAK FLOW RATE (CFS)	
PEAK STORM DURATION (YEARS)	
PIPE & ELEVATION DATA	
INLET PIPE	
OUTLET PIPE	
RIM ELEVATION	
LOADING & SOIL DATA	
SURFACE LOADING	PEDESTRIAN
FRAME & COVER	(1) #24" (1) 2.5' X 4' MATCH
CORROSIVE SOIL CONDITIONS	N/A
GROUNDWATER ELEVATION	N/A

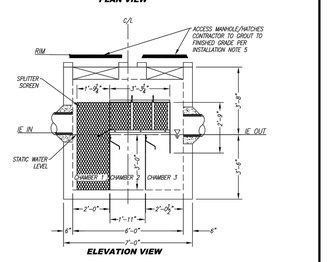
NOTES: PRELIMINARY, NOT FOR CONSTRUCTION.

DSBB PERFORMANCE DATA	
TREATMENT FLOW RATE (CFS)	
SETTLING AREA (SF)	24.0
LOADING RATE (GPM/SF)	####
SCREEN SYSTEM STORAGE CAPACITY (CF)	12.26
SEDIMENT STORAGE CAPACITY (CF)	71.52
BOE TSS REMOVAL @ ~~~ MICRON	

DSBB STORAGE CAPACITIES				
CAGE SCREEN CAPACITY				
	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	TOTAL (CF)
SCREEN 1	3.27	1.25	1.50	6.13
SCREEN 2	3.27	1.25	1.50	6.13
SEDIMENT CHAMBER CAPACITY				
CHAMBER 1	2.00	4.00	3.00	24.00
CHAMBER 2	1.92	4.00	3.00	23.04
CHAMBER 3	2.04	4.00	3.00	24.48







GENERAL NOTES

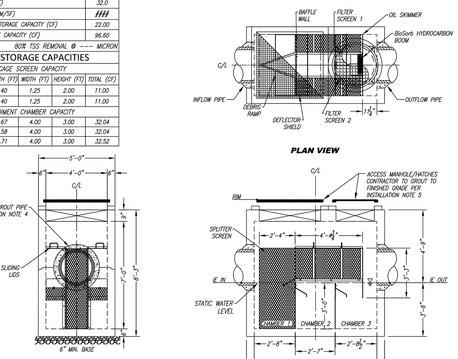
1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.
3. LIDS FOR SCREEN SYSTEM & ALTERNATIVE HATCHES AVAILABLE UPON REQUEST.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE DSBB UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. MANUFACTURER RECOMMENDS A 6"-12" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND H

SITE SPECIFIC DATA			
PROJECT NUMBER			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
TREATMENT REQUIRED			
WATER QUALITY FLOW RATE (CFS)			
PEAK FLOW RATE (CFS)			
PEAK STORM DURATION (YEARS)			
PIPE & ELEVATION DATA			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE			24"
OUTLET PIPE			24"
RIM ELEVATION			
LOADING & SOIL DATA			
SURFACE LOADING		PEDESTRIAN	
FRAME & COVER		(1) #30" (1) 4' X 4' HATCH	
CORROSIVE SOIL CONDITIONS		N/K	
GROUNDWATER ELEVATION		N/K	
NOTES: PRELIMINARY, NOT FOR CONSTRUCTION.			

DSBB PERFORMANCE DATA					
TREATMENT FLOW RATE (CFS)					32.0
SETTLING AREA (SF)					////
LOADING RATE (GPM/SF)					22.00
SCREEN SYSTEM STORAGE CAPACITY (CF)					96.60
SEDIMENT STORAGE CAPACITY (SF)					96.60
BOB TSS REMOVAL @ --- MICRON					
DSBB STORAGE CAPACITIES					
CAGE SCREEN CAPACITY					
	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	TOTAL (CF)	
SCREEN 1	4.40	1.25	2.00	11.00	
SCREEN 2	4.40	1.25	2.00	11.00	
SEDIMENT CHAMBER CAPACITY					
CHAMBER 1	2.67	4.00	3.00	32.04	
CHAMBER 2	2.58	4.00	3.00	32.04	
CHAMBER 3	2.71	4.00	3.00	32.52	



END VIEW

ELEVATION VIEW

PLAN VIEW

GENERAL NOTES

1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.
3. LIDS FOR SCREEN SYSTEM & ALTERNATIVE HATCHES AVAILABLE UPON REQUEST.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE DSBB UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. MANUFACTURER RECOMMENDS A 6"-12" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.

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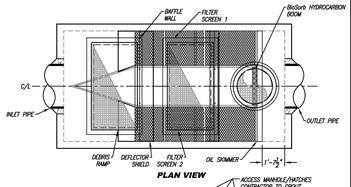
Bio Clean A Forterra Company

DSBB-4-8-84
DUAL STAGE HYDRODYNAMIC SEPARATOR
STANDARD DETAIL

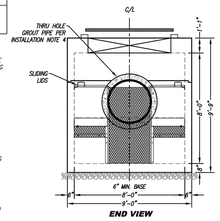
DEBRIS SEPARATING BAFFLE BOX (#1, #5 AND #12)

SITE SPECIFIC DATA			
PROJECT NUMBER			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
TREATMENT REQUIRED			
WATER QUALITY FLOW RATE (CFS)			
FULL CAPTURE TRASH FLOW RATE (CFS)			
PEAK FLOW RATE (CFS)			
PEAK STORM DURATION (YEARS)			
PIPE & ELEVATION DATA			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE			24"
OUTLET PIPE			24"
RIM ELEVATION			
LOADING & SOIL DATA			
SURFACE LOADING		PEDESTRIAN	
FRAME & COVER		(1) #30" (2) 3' X 6' HATCH	
CORROSIVE SOIL CONDITIONS		N/K	
GROUNDWATER ELEVATION		N/K	
NOTES: PRELIMINARY, NOT FOR CONSTRUCTION.			

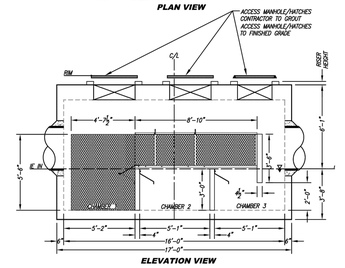
DSBB PERFORMANCE DATA					
TREATMENT FLOW RATE (CFS)					
FULL CAPTURE TRASH FLOW RATE (CFS)					
SETTLING AREA (SF)					128.0
LOADING RATE (GPM/SF)					////
SCREEN SYSTEM STORAGE CAPACITY (CF)					99.34
SEDIMENT STORAGE CAPACITY (CF)					370.08
BOB TSS REMOVAL @ --- MICRON					
DSBB STORAGE CAPACITIES					
CAGE SCREEN CAPACITY					
	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	TOTAL (CF)	
SCREEN 1	8.83	2.50	2.25	49.67	
SCREEN 2	8.83	2.50	2.25	49.67	
SEDIMENT CHAMBER CAPACITY					
CHAMBER 1	5.17	8.00	3.00	124.08	
CHAMBER 2	5.08	8.00	3.00	124.08	
CHAMBER 3	5.08	8.00	3.00	121.92	



PLAN VIEW



END VIEW



ELEVATION VIEW

GENERAL NOTES

1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.
3. MANHOLES AND ALTERNATIVE HATCHES AVAILABLE UPON REQUEST.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE DEBRIS SEPARATING BAFFLE BOX UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. MANUFACTURER RECOMMENDS A 6"-12" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATERTIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.

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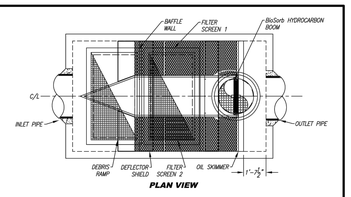
Bio Clean A Forterra Company

DSBB-8-16-96
DUAL STAGE HYDRODYNAMIC SEPARATOR
STANDARD DETAIL

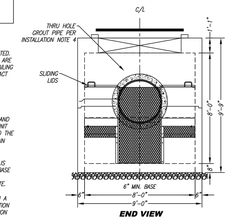
DEBRIS SEPARATING BAFFLE BOX (#10)

SITE SPECIFIC DATA			
PROJECT NUMBER			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
TREATMENT REQUIRED			
WATER QUALITY FLOW RATE (CFS)			
PEAK FLOW RATE (CFS)			
PEAK STORM DURATION (YEARS)			
PIPE & ELEVATION DATA			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE			24"
OUTLET PIPE			24"
RIM ELEVATION			
LOADING & SOIL DATA			
SURFACE LOADING		PEDESTRIAN	
FRAME & COVER		(1) #30" (2) 3' X 6' HATCH	
CORROSIVE SOIL CONDITIONS		N/K	
GROUNDWATER ELEVATION		N/K	
NOTES: PRELIMINARY, NOT FOR CONSTRUCTION.			

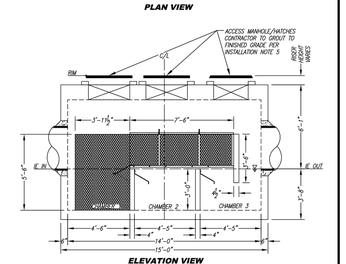
DSBB PERFORMANCE DATA					
TREATMENT FLOW RATE (CFS)					96.0
SETTLING AREA (SF)					////
LOADING RATE (GPM/SF)					84.38
SCREEN SYSTEM STORAGE CAPACITY (CF)					324.00
SEDIMENT STORAGE CAPACITY (CF)					324.00
BOB TSS REMOVAL @ --- MICRON					
DSBB STORAGE CAPACITIES					
CAGE SCREEN CAPACITY					
	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	TOTAL (CF)	
SCREEN 1	7.50	2.50	2.25	42.19	
SCREEN 2	7.50	2.50	2.25	42.19	
SEDIMENT CHAMBER CAPACITY					
CHAMBER 1	4.50	8.00	3.00	108.00	
CHAMBER 2	4.42	8.00	3.00	106.00	
CHAMBER 3	4.50	8.00	3.00	108.00	



PLAN VIEW



END VIEW



ELEVATION VIEW

GENERAL NOTES

1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.
3. LIDS FOR SCREEN SYSTEM & ALTERNATIVE HATCHES AVAILABLE UPON REQUEST.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE DSBB UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. MANUFACTURER RECOMMENDS A 6"-12" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.

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Bio Clean A Forterra Company

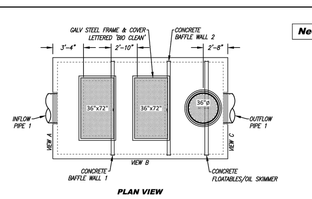
DSBB-8-14-96
DUAL STAGE HYDRODYNAMIC SEPARATOR
STANDARD DETAIL

DEBRIS SEPARATING BAFFLE BOX (#8 AND #9)

SITE SPECIFIC DATA*			
PROJECT NUMBER		–	
PROJECT NAME		–	
PROJECT LOCATION		–	
STRUCTURE ID		–	
WATER QUALITY FLOW RATE (CFS)			
FULL CAPTURE TRASH FLOW RATE (CFS)			
PEAK FLOW RATE (CFS)			
PEAK STORM DURATION (YEARS)			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INFLOW PIPE 1	–	TBD	36
OUTFLOW PIPE 1	–	TBD	36
RIM ELEVATION		–	
SURFACE LOADING REQUIREMENT			H-20
FRAME AND COVER		(2) 36"x72" (1) 36"ø	
CORROSIVE SOIL CONDITIONS			NA
KNOWN GROUNDWATER ELEVATION			NA
NOTES:			

*PER ENGINEER OF RECORD

DSBB PERFORMANCE DATA					
TREATMENT FLOW RATE (CFS)					0.00
FULL CAPTURE TRASH FLOW RATE (CFS)					0.00
SETTLING AREA (SF)					180.00
LOADING RATE (GPM/SF)					0.00
SCREEN SYSTEM STORAGE CAPACITY (CF)					144.88
SEDIMENT STORAGE CAPACITY (CF)					520.00
BOB TSS REMOVAL @ --- MICRON					
DSBB STORAGE CAPACITIES					
CAGE SCREEN CAPACITY					
	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	TOTAL (CF)	
SCREEN 1	10.17	3.17	2.25	72.44	
SCREEN 2	10.17	3.17	2.25	72.44	
SEDIMENT CHAMBER CAPACITY					
CHAMBER 1	5.83	10.00	3.00	175.00	
CHAMBER 2	5.75	10.00	3.00	172.50	
CHAMBER 3	5.75	10.00	3.00	172.50	



PLAN VIEW

Need Cage linework

GENERAL NOTES

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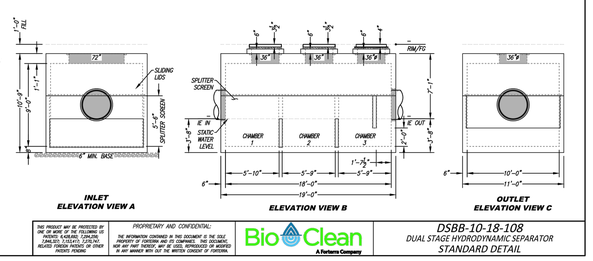
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS, AND ACCESSORIES PLEASE CONTACT BIO CLEAN.

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE DEBRIS SEPARATING BAFFLE BOX AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. MANUFACTURER RECOMMENDS A 4" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
4. ALL GAPS AROUND PIPES SHALL BE SEALED WATERTIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES, RISERS AND COVERS. ALL COVERS SHALL BE SHIPPED LOOSE. CONTRACTOR TO GROUT ALL MANHOLES AND COVERS TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.

1:60 SCALE



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Bio Clean A Fortera Company

DSBB-10-18-108
DUAL STAGE HYDRODYNAMIC SEPARATOR
STANDARD DETAIL

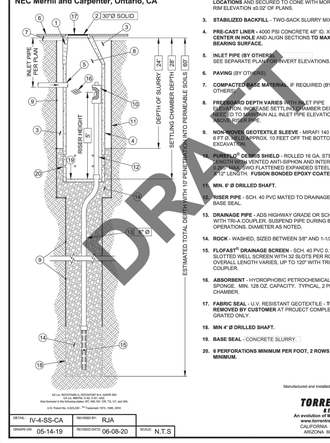
DEBRIS SEPARATING BAFFLE BOX (#6 AND #7)

The MaxWell® IV

DRAINAGE SYSTEM DETAILS AND SPECIFICATIONS

Ontario Ranch Logistics Center

NEC Merrill and Carpenter, Ontario, CA



ITEM NUMBERS

1. **MANHOLE CONE** - MODIFIED FLAT BOTTOM.
2. **BOLTED RING & GRATE/COVER** - DIAMETER & TYPE AS SHOWN. CLEAN CAST IRON WITH WORDING **"STORM DRAIN"** CAST IN TOP. **MIN. (4) BOLTS. BOLTED IN 2 LOCATIONS** AND SECURED TO CONE WITH MORTAR. RIM ELEVATION ±0.02' OF PLANS.
3. **STABILIZED BACKFILL** - TWO-SACK SLURRY MIX.
4. **PRE-CAST LINER** - 4000 PSI CONCRETE 48" ID, X 54" OD. **CENTER IN HOLE** AND ALIGN SECTIONS **TO MAXIMIZE BEARING SURFACE.**
5. **INLET PIPE (BY OTHERS)** - SEE SEPARATE PLAN FOR INVERT ELEVATIONS.
6. **PAVING** (BY OTHERS)
7. **COMPACTED BASE MATERIAL** - IF REQUIRED (BY OTHERS)
8. **FREEBOARD DEPTH VARIES** AND INLET PIPE ELEVATIONS DUE TO CRUSHED RELEASE SETTLING CHAMBER DEPTH AS REQUIRED TO ACCOMMODATE ALL INLET PIPE ELEVATIONS AND OUTLET PIPE.
9. **NON-WOVEN GEOTEXTILE SLEEVE** - MIRAFI 140 NL. MIN. 6 FT LAP ON ALL SIDES. PROVIDE 10 FEET OFF THE BOTTOM OF EXCAVATION.
10. **PERMANENT DEBRIS SHIELD** - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL SUPPORTING FLATTENED EXPANDED STEEL SCREEN 12" LENGTH. **FUSION BONDED EPOXY COATED.**
11. **MIN. 6' Ø DRILLED SHAFT.**
12. **RISER PIPE** - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
13. **DRAINAGE PIPE** - ADS HIGHWAY GRADE OR SCH. 40 PVC WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS. DIAMETER AS NOTED.
14. **ROCK** - WASHED, SIZED BETWEEN 3/8" AND 1-1/2".
15. **FLOFAST® DRAINAGE SCREEN** - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. COUPLES LENGTH-VARIES, UP TO 120" WITH TRI-B COUPLER.
16. **ABSORBENT** - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY. TYPICAL, 2 PER CHAMBER.
17. **FABRIC SEAL** - U.V. RESISTANT GEOTEXTILE - **TO BE REMOVED BY CUSTOMER** AT PROJECT COMPLETION. GRATED ONLY.
18. **MIN 4' Ø DRILLED SHAFT.**
19. **BASE SEAL** - CONCRETE SLURRY.
20. **6 PERFORATIONS MINIMUM PER FOOT, 2 ROWS MINIMUM.**

Manufactured and Installed by

TORRENT RESOURCES
An evolution in stormwater
www.torrentresources.com
CALIFORNIA 909-629-0740
ARIZONA 602-295-5795

DETAIL: IV-4-SS-CA	REVISED BY: RJA	
DRAWN ON: 05-14-19	REVISED DATE: 06-08-20	SCALE: N.T.S

DRY WELL DETAIL

Last Update:12/14/20
O:\3600--3699\3654\36548MPSITEMAP.dwg

CITY OF ONTARIO

PUBLIC WORKS DEPARTMENT

PREPARED FOR:

REAL ESTATE DEVELOPMENT ASSOCIATES
4450 MACARTHUR BOULEVARD, SUITE 100
NEWPORT BEACH, CA 92660
PHONE: (949) 216-7300
FAX: (949) 724-1433

PREPARED BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

WQMP SITE MAP

SOUTH ONTARIO LOGISTICS CENTER
NEC MERRILL AVE. AND BON VIEW AVE.
ONTARIO, CA

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

Public Works Director _____ R.C.E. XXXXX

Sheet 3 of 3 Sheets

3654/3 OF 3 SHEET

DCV CALCULATIONS

FLOW-BASED BMP DESIGN (ONSITE)

DA 1 DMA A – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #1

Region		Valley	
Drainage Area (acres)		4.35	acres
Drainage Area (sq-ft)		189,486	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.81	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	1.12	

Use DSBB-4-8
80% @ 75 Micron treats 1.42 cfs

DA 1 DMA B – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #2

Region		Valley	
Drainage Area (acres)		4.10	acres
Drainage Area (sq-ft)		178,596	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.81	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	1.05	

Use DSBB-4-6
80% @ 75 Micron treats 1.06 cfs

DA 1 DMA C – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #3

Region		Valley	
Drainage Area (acres)		4.00	acres
Drainage Area (sq-ft)		174,240	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.81	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		0.2787	
Intensity BMP (in/hr)		0.318	
Flow (cfs)	Q =	1.03	

Use DSBB-4-6
80% @ 75 Micron treats 1.06 cfs

DA 1 DMA D – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #4

Region		Valley	
Drainage Area (acres)		3.75	acres
Drainage Area (sq-ft)		163,350	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.81**	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		**0.2787**	
Intensity BMP (in/hr)		**0.318**	
Flow (cfs)	Q =	**0.96**	

Use DSBB-4-6
80% @ 75 Micron treats 1.06 cfs

DA 1 DMA E – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #5

Region		Valley	
Drainage Area (acres)		4.65	acres
Drainage Area (sq-ft)		202,554	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.81**	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		**0.2787**	
Intensity BMP (in/hr)		**0.318**	
Flow (cfs)	Q =	**1.19**	

Use DSBB-4-8
80% @ 75 Micron treats 1.42 cfs

DA 2 DMA A – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #6

Region		Valley	
Drainage Area (acres)		23.35	acres
Drainage Area (sq-ft)		1,017,126	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.81**	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		**0.2787**	
Intensity BMP (in/hr)		**0.318**	
Flow (cfs)	Q =	**6.00**	

Use DSBB-10-18
80% @ 75 Micron treats 7.98 cfs

DA 2 DMA B – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #7

Region		Valley	
Drainage Area (acres)		23.40	acres
Drainage Area (sq-ft)		1,019,304	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.81**	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		**0.2787**	
Intensity BMP (in/hr)		**0.318**	
Flow (cfs)	Q =	**6.01**	

Use DSBB-10-18
80% @ 75 Micron treats 7.98 cfs

DA 2 DMA C – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #8

Region		Valley	
Drainage Area (acres)		15.00	acres
Drainage Area (sq-ft)		**653,400**	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.81**	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		**0.2787**	
Intensity BMP (in/hr)		**0.318**	
Flow (cfs)	Q =	**3.85**	

Use DSBB-8-14
80% @ 75 Micron treats 4.96 cfs

DA 2 DMA D – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #9

Region		Valley	
Drainage Area (acres)		15.55	acres
Drainage Area (sq-ft)		**677,358**	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.81**	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		**0.2787**	
Intensity BMP (in/hr)		**0.318**	
Flow (cfs)	Q =	**3.99**	

Use DSBB-8-14
80% @ 75 Micron treats 4.96 cfs

DA 2 DMA E – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #10

Region		Valley	
Drainage Area (acres)		21.45	acres
Drainage Area (sq-ft)		934,362	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.81**	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		**0.2787**	
Intensity BMP (in/hr)		**0.318**	
Flow (cfs)	Q =	**5.51**	

Use DSBB-8-16
80% @ 75 Micron treats 5.67 cfs

DA 2 DMA F1 – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #11

Region		Valley	
Drainage Area (acres)		3.00	acres
Drainage Area (sq-ft)		130,680	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.81**	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		**0.2787**	
Intensity BMP (in/hr)		**0.318**	
Flow (cfs)	Q =	**0.77**	

Use DSBB-4-6
80% @ 75 Micron treats 1.06 cfs

DA 2 DMA F2 – BIOCLEAN DEBRIS SEPARATING BAFFLE BOX #12

Region		Valley	
Drainage Area (acres)		5.35	acres
Drainage Area (sq-ft)		233,046	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.81**	
1-hr 2-yr from NOAA		0.571	
Itensity Coeff		**0.2787**	
Intensity BMP (in/hr)		**0.318**	
Flow (cfs)	Q =	**1.37**	

Use DSBB-4-8
80% @ 75 Micron treats 1.42 cfs

VOLUME-BASED BMP DESIGN (ONSITE)

DA 1 DMA A – CMP #1 AND DRY WELL #1

Region		Valley	
Drainage Area (acres)		4.35	acres
Drainage Area (sq-ft)		**189,486**	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.807**	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		**1.4807**	
Mean 6-hr (P6)		**0.845**	
Drawdown Rate (a)		1.963	
DCV		**21,149**	cu-ft
DCV		**0.486**	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA A)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	21,149	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	**490**	ft^3
Total Volume Infiltrated in 48 hours =	**31,709**	ft^3
Total Volume Infiltrated in 3 hours =	**1,982**	ft^3
Total Infiltration Flowrate =	**0.1835**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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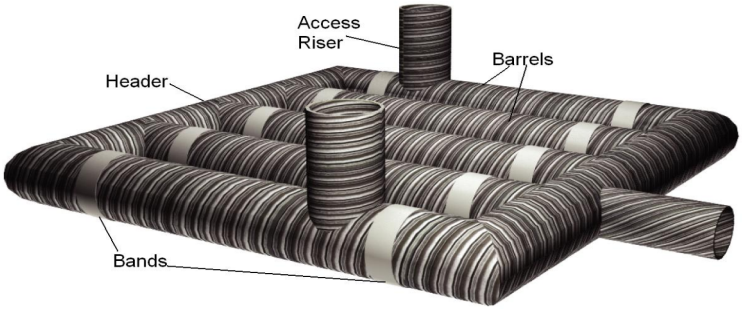


Project Summary

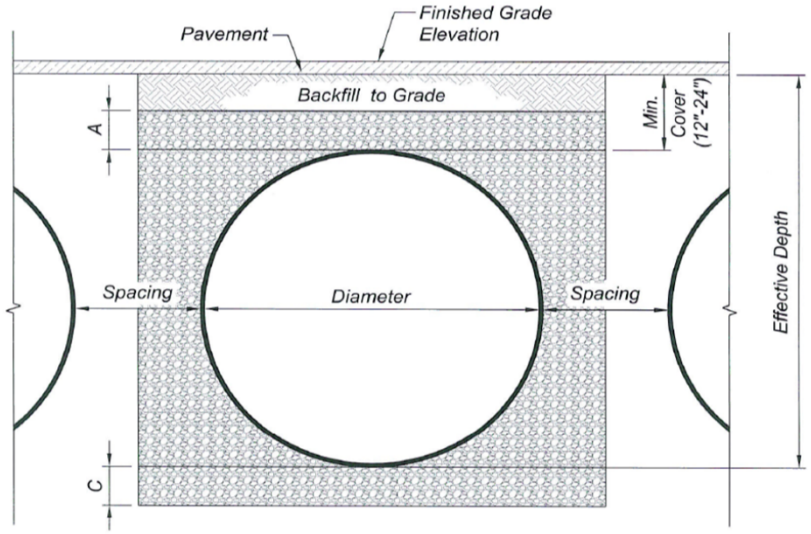
Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 1 DMA A)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	21,149
Limiting Width (ft):	25.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

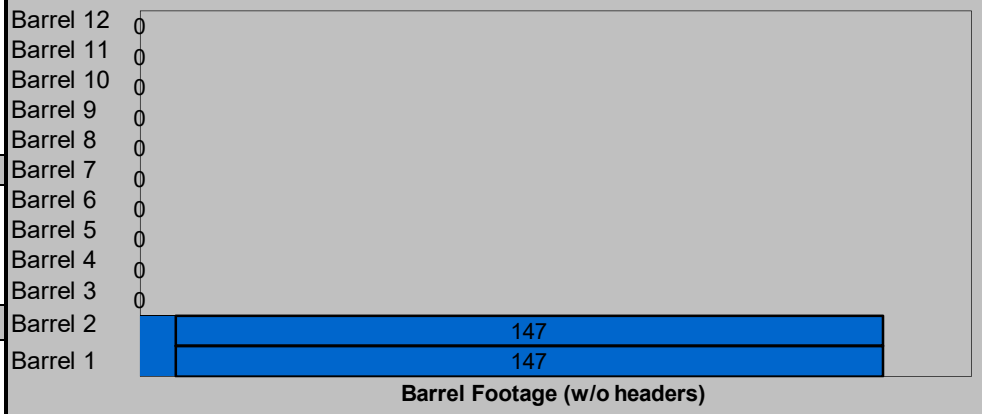
50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	15,733	cf	
Porous Stone Storage:	5,576	cf	
Total Storage Provided:	21,309	cf	100.8% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	147.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 157. ft		

System Layout



CONTECH Materials

Total CMP Footage:	313	ft
Approximate Total Pieces:	15	pcs
Approximate Coupling Bands:	14	bands
Approximate Truckloads:	8	trucks

Construction Quantities**

Total Excavation:	1099	cy
Porous Stone Backfill For Storage:	516	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

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DA 1 DMA B – CMP #2 AND DRY WELL #2

Region		Valley	
Drainage Area (acres)		4.10	acres
Drainage Area (sq-ft)		178,596	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		19,933	cu-ft
DCV		0.458	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA B)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	19,933	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	**490**	ft^3
Total Volume Infiltrated in 48 hours =	**31,709**	ft^3
Total Volume Infiltrated in 3 hours =	**1,982**	ft^3
Total Infiltration Flowrate =	**0.1835**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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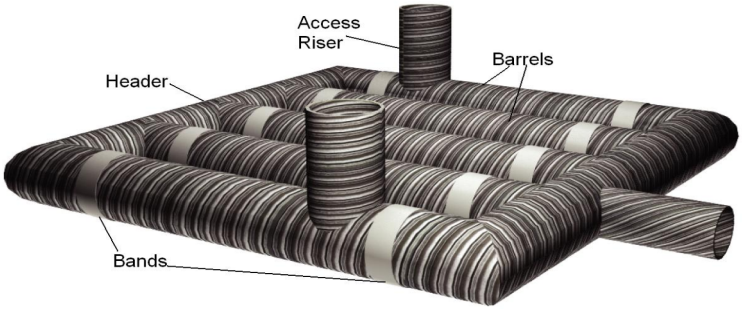


Project Summary

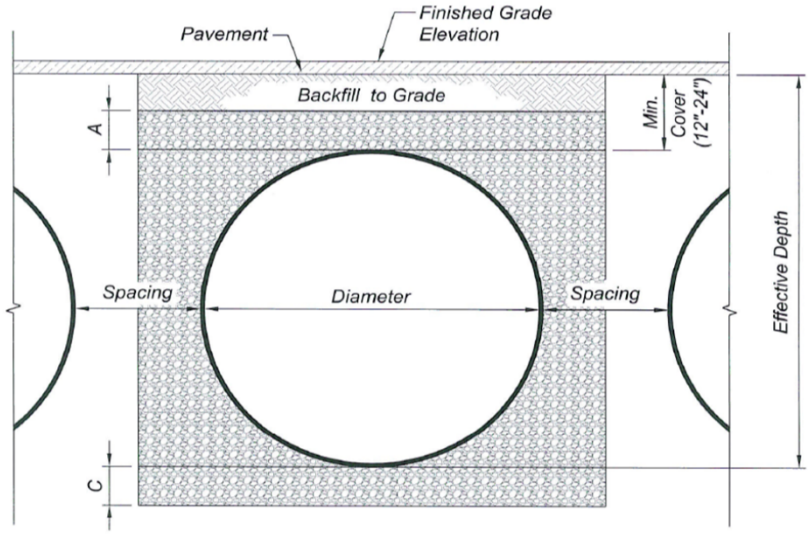
Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 1 DMA B)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	19,933
Limiting Width (ft):	25.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	14,828	cf	
Porous Stone Storage:	5,257	cf	
Total Storage Provided:	20,086	cf	100.8% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	138.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 148. ft		

CONTECH Materials

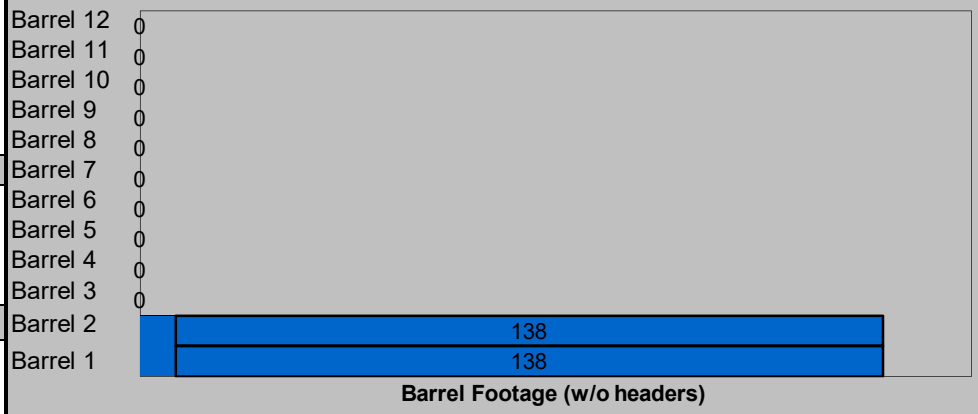
Total CMP Footage:	295	ft
Approximate Total Pieces:	13	pcs
Approximate Coupling Bands:	12	bands
Approximate Truckloads:	7	trucks

Construction Quantities**

Total Excavation:	1036	cy
Porous Stone Backfill For Storage:	487	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

System Layout



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DA 1 DMA C – CMP #3 AND DRY WELL #3

Region		Valley	
Drainage Area (acres)		4.00	acres
Drainage Area (sq-ft)		174,240	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		19,447	cu-ft
DCV		0.446	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA C)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	19,447	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	**490**	ft^3
Total Volume Infiltrated in 48 hours =	**31,709**	ft^3
Total Volume Infiltrated in 3 hours =	**1,982**	ft^3
Total Infiltration Flowrate =	**0.1835**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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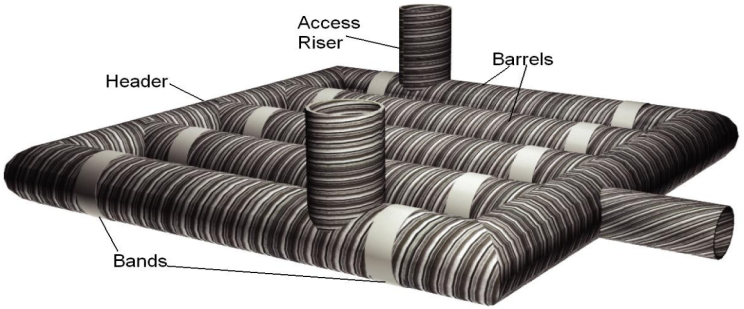


Project Summary

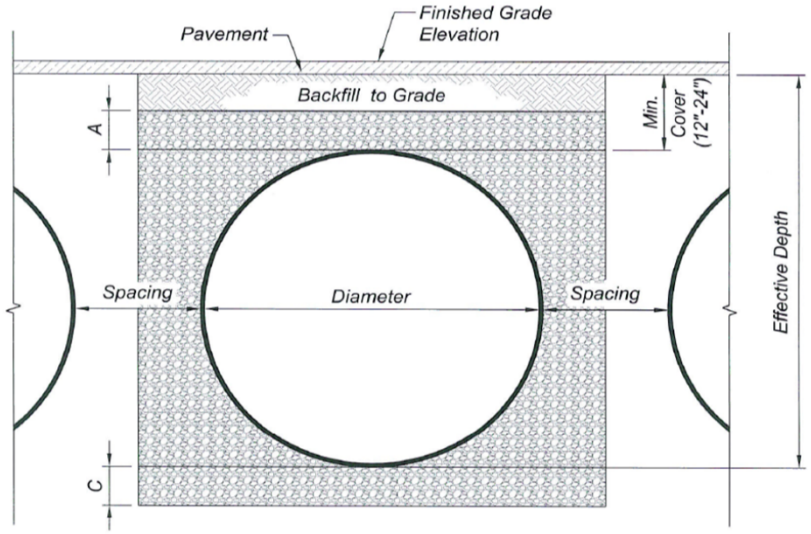
Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 1 DMA C)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	19,447
Limiting Width (ft):	25.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

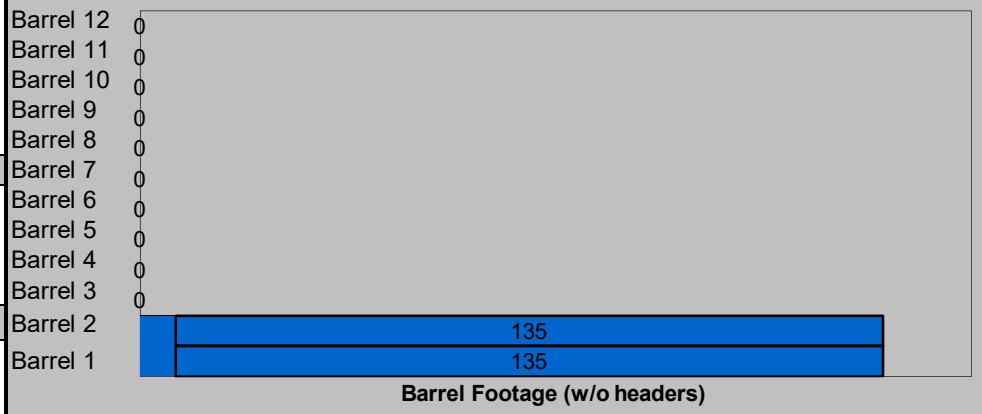
50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	14,527	cf	
Porous Stone Storage:	5,151	cf	
Total Storage Provided:	19,678	cf	101.2% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	135.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 145. ft		

System Layout



CONTECH Materials

Total CMP Footage:	289	ft
Approximate Total Pieces:	13	pcs
Approximate Coupling Bands:	12	bands
Approximate Truckloads:	7	trucks

Construction Quantities**

Total Excavation:	1015	cy
Porous Stone Backfill For Storage:	477	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

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DA 1 DMA D – CMP #4 AND DRY WELL #4

Region		Valley	
Drainage Area (acres)		3.75	acres
Drainage Area (sq-ft)		163,350	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		18,232	cu-ft
DCV		0.419	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA D)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	18,232	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	**490**	ft^3
Total Volume Infiltrated in 48 hours =	**31,709**	ft^3
Total Volume Infiltrated in 3 hours =	**1,982**	ft^3
Total Infiltration Flowrate =	**0.1835**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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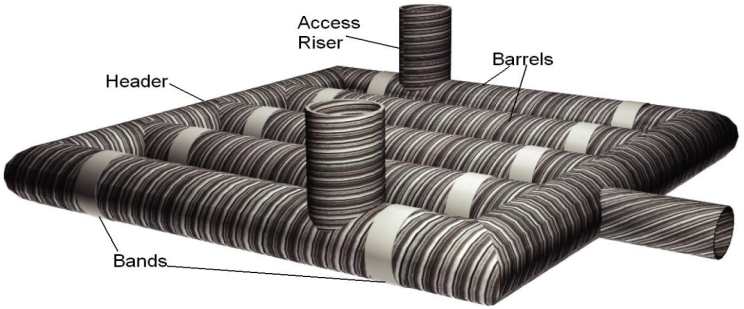
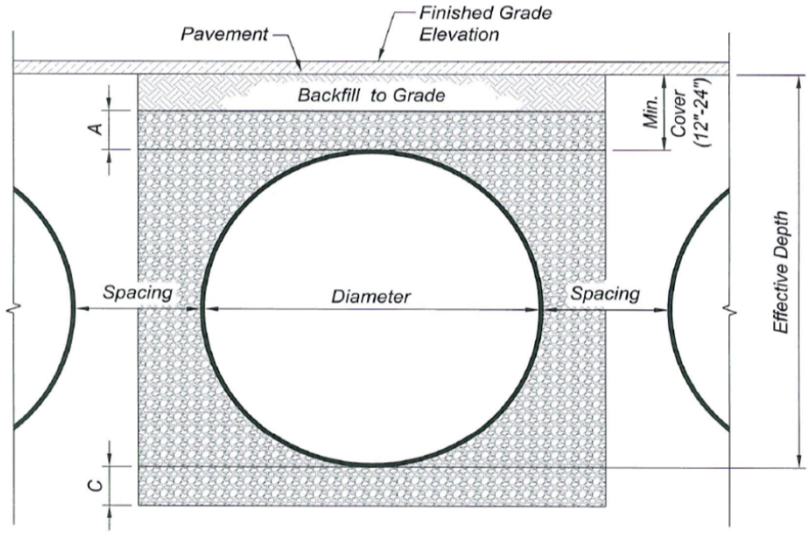




Project Summary

Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 1 DMA D)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	18,232	
Limiting Width (ft):	25.00	
Invert Depth Below Asphalt (ft):	9.00	
Solid or Perforated Pipe:	Perforated	
Shape Or Diameter (in):	96	50.27 ft^2 Pipe Area
Number Of Headers:	1	
Spacing between Barrels (ft):	3.00	
Stone Width Around Perimeter of System (ft):	1	
Depth A: Porous Stone Above Pipe (in):	6	
Depth C: Porous Stone Below Pipe (in):	6	
Stone Porosity (0 to 40%):	40	

System Sizing

Pipe Storage:	13,622	cf	
Porous Stone Storage:	4,833	cf	
Total Storage Provided:	18,455	cf	101.2% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	126.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 136. ft		

CONTECH Materials

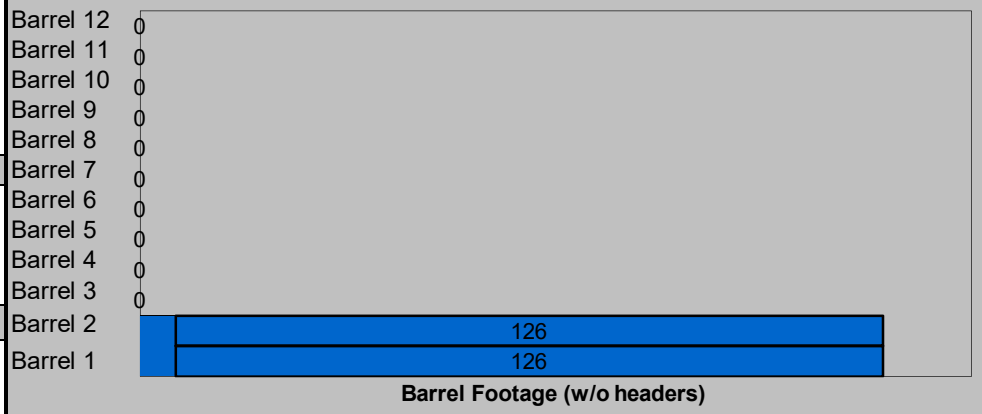
Total CMP Footage:	271	ft
Approximate Total Pieces:	13	pcs
Approximate Coupling Bands:	12	bands
Approximate Truckloads:	7	trucks

Construction Quantities**

Total Excavation:	952	cy
Porous Stone Backfill For Storage:	447	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

System Layout



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DA 1 DMA E – CMP #5 AND DRY WELL #5

Region		Valley	
Drainage Area (acres)		4.65	acres
Drainage Area (sq-ft)		202,554	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		22,607	cu-ft
DCV		0.519	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 1 DMA E)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	22,607	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	1	
Total Volume Provided in Drywells =	**490**	ft^3
Total Volume Infiltrated in 48 hours =	**31,709**	ft^3
Total Volume Infiltrated in 3 hours =	**1,982**	ft^3
Total Infiltration Flowrate =	**0.1835**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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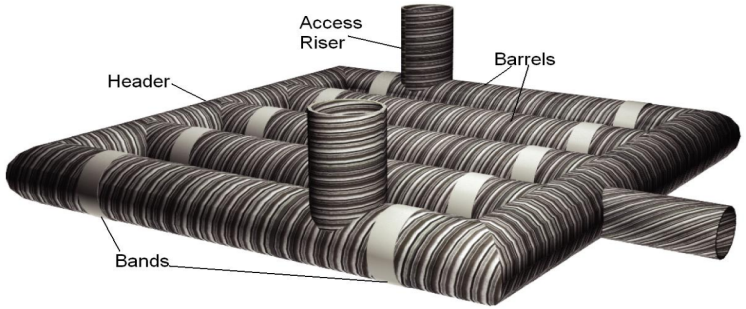


Project Summary

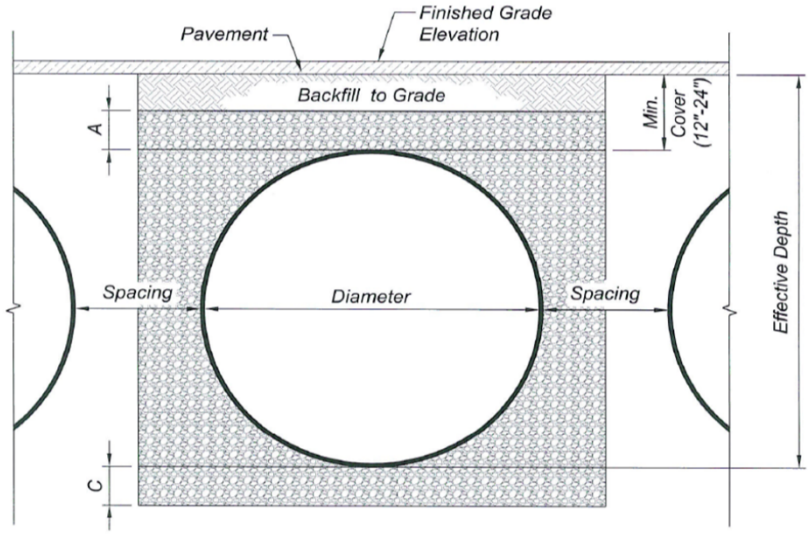
Date:	12/14/2020
Project Name:	South Ontario Logistics Center (DA 1 DM/
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	22,607
Limiting Width (ft):	26.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	16,839	cf	
Porous Stone Storage:	5,965	cf	
Total Storage Provided:	22,804	cf	100.9% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	158.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 168. ft		

CONTECH Materials

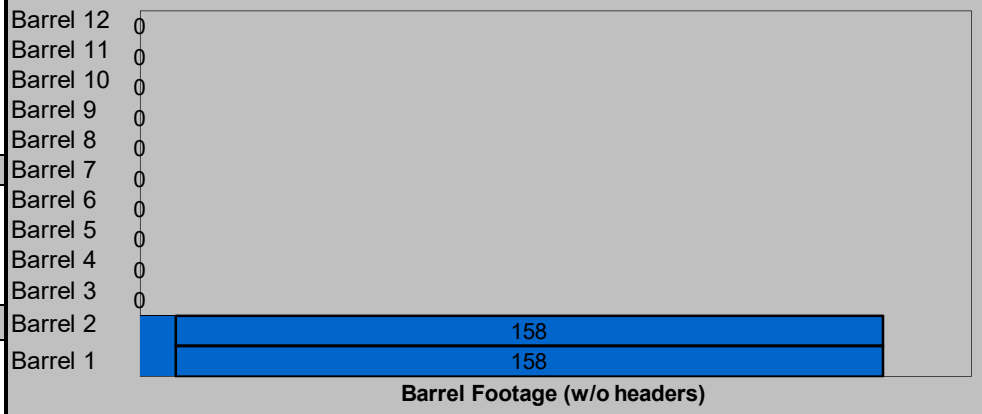
Total CMP Footage:	335	ft
Approximate Total Pieces:	15	pcs
Approximate Coupling Bands:	14	bands
Approximate Truckloads:	8	trucks

Construction Quantities**

Total Excavation:	1176	cy
Porous Stone Backfill For Storage:	552	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

System Layout



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DA 2 DMA A – CMP #6 AND DRY WELL #6

Region		Valley	
Drainage Area (acres)		23.35	acres
Drainage Area (sq-ft)		1,017,126	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		113,522	cu-ft
DCV		2.606	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA A)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	113,522	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	4	
Total Volume Provided in Drywells =	**1,960**	ft^3
Total Volume Infiltrated in 48 hours =	**126,835**	ft^3
Total Volume Infiltrated in 3 hours =	**7,927**	ft^3
Total Infiltration Flowrate =	**0.7340**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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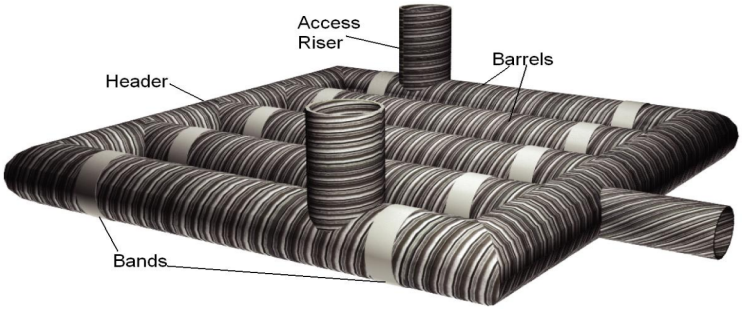


Project Summary

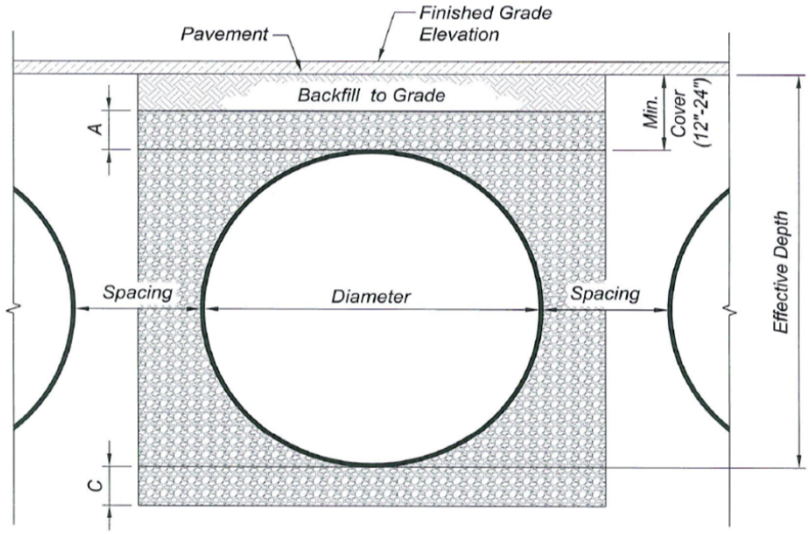
Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA A)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	113,522
Limiting Width (ft):	55.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	83,039	cf	
Porous Stone Storage:	30,937	cf	
Total Storage Provided:	113,975	cf	100.4% Of Required Storage
Number of Barrels:	5	barrels	
Length per Barrel:	320.0	ft	
Length Per Header:	52.0	ft	
Rectangular Footprint (W x L):	54. ft x 330. ft		

CONTECH Materials

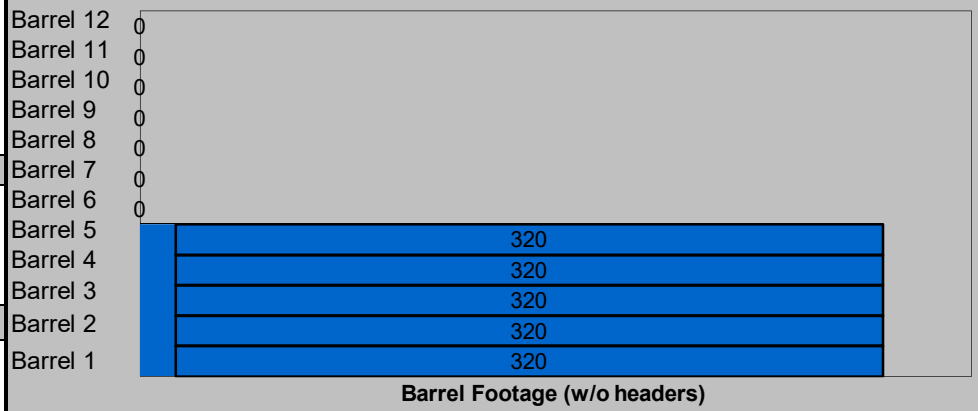
Total CMP Footage:	1,652	ft
Approximate Total Pieces:	73	pcs
Approximate Coupling Bands:	72	bands
Approximate Truckloads:	37	trucks

Construction Quantities**

Total Excavation:	5940	cy
Porous Stone Backfill For Storage:	2864	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

System Layout



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DA 2 DMA B – CMP #7 AND DRY WELL #7

Region		Valley	
Drainage Area (acres)		23.40	acres
Drainage Area (sq-ft)		1,019,304	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		113,765	cu-ft
DCV		2.612	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA B)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	113,765	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	4	
Total Volume Provided in Drywells =	**1,960**	ft^3
Total Volume Infiltrated in 48 hours =	**126,835**	ft^3
Total Volume Infiltrated in 3 hours =	**7,927**	ft^3
Total Infiltration Flowrate =	**0.7340**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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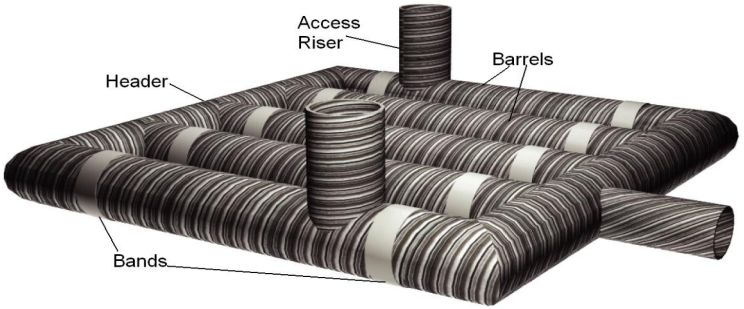


Project Summary

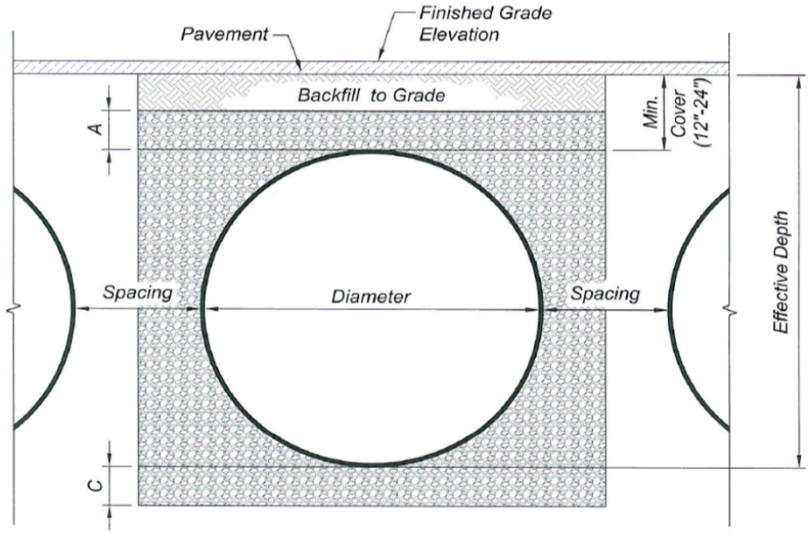
Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA B)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	113,765
Limiting Width (ft):	55.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	83,290	cf	
Porous Stone Storage:	31,030	cf	
Total Storage Provided:	114,320	cf	100.5% Of Required Storage
Number of Barrels:	5	barrels	
Length per Barrel:	321.0	ft	
Length Per Header:	52.0	ft	
Rectangular Footprint (W x L):	54. ft x 331. ft		

CONTECH Materials

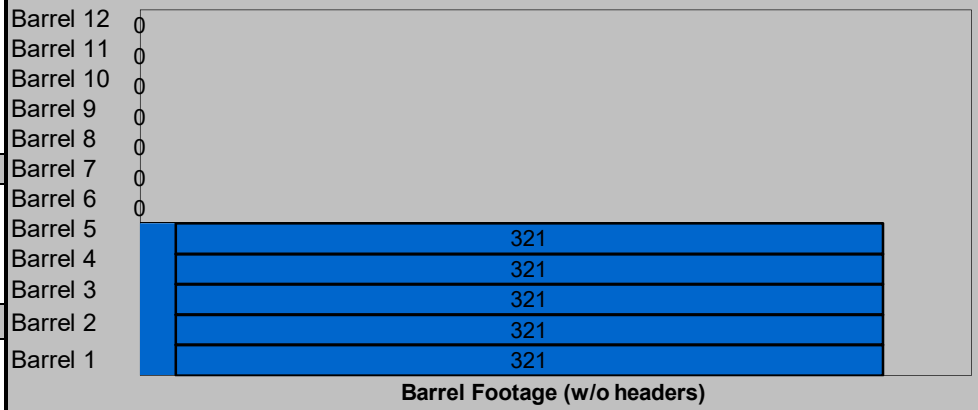
Total CMP Footage:	1,657	ft
Approximate Total Pieces:	73	pcs
Approximate Coupling Bands:	72	bands
Approximate Truckloads:	37	trucks

Construction Quantities**

Total Excavation:	5958	cy
Porous Stone Backfill For Storage:	2873	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

System Layout



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DA 2 DMA C – CMP #8 AND DRY WELL #8

Region		Valley	
Drainage Area (acres)		15.00	acres
Drainage Area (sq-ft)		653,400	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		72,926	cu-ft
DCV		1.674	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA C)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	72,926	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	3	
Total Volume Provided in Drywells =	**1,470**	ft^3
Total Volume Infiltrated in 48 hours =	**95,126**	ft^3
Total Volume Infiltrated in 3 hours =	**5,945**	ft^3
Total Infiltration Flowrate =	**0.5505**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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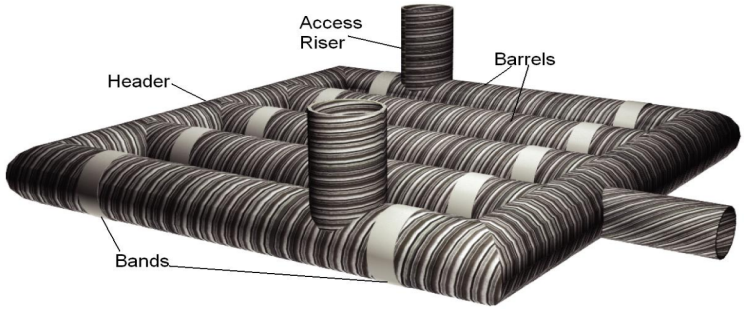


Project Summary

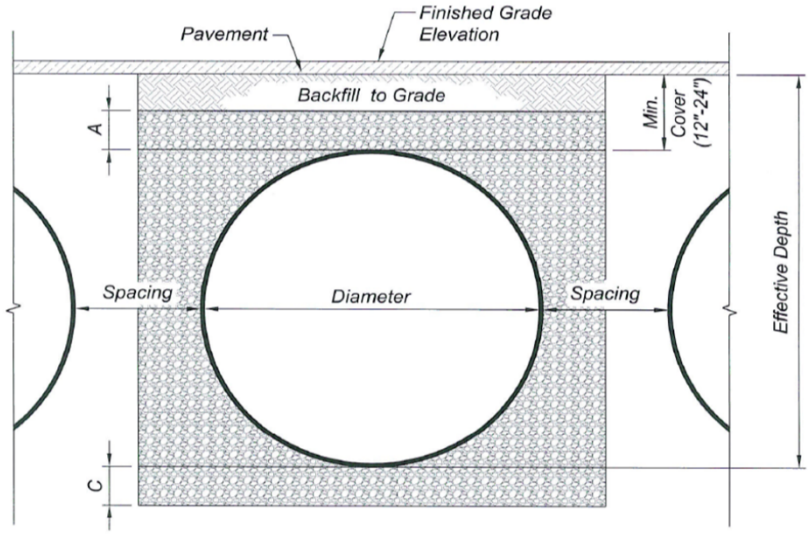
Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	72,926
Limiting Width (ft):	50.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	53,533	cf	
Porous Stone Storage:	19,764	cf	
Total Storage Provided:	73,296	cf	100.5% Of Required Storage
Number of Barrels:	4	barrels	
Length per Barrel:	256.0	ft	
Length Per Header:	41.0	ft	
Rectangular Footprint (W x L):	43. ft x 266. ft		

CONTECH Materials

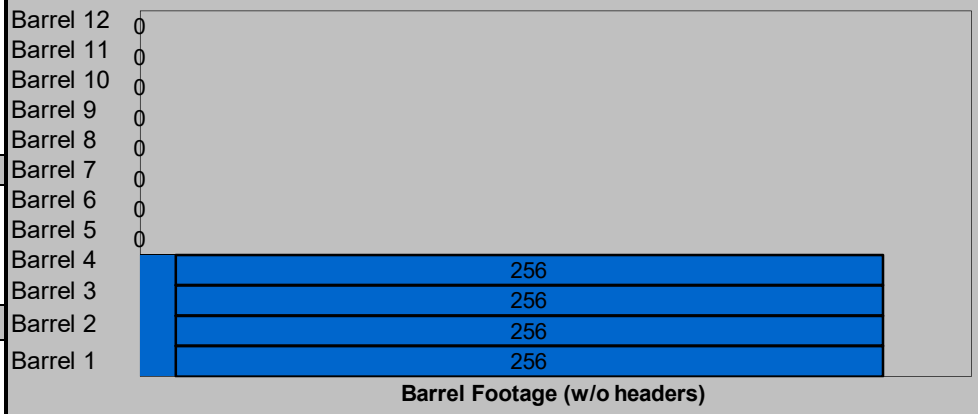
Total CMP Footage:	1,065	ft
Approximate Total Pieces:	46	pcs
Approximate Coupling Bands:	45	bands
Approximate Truckloads:	23	trucks

Construction Quantities**

Total Excavation:	3813	cy
Porous Stone Backfill For Storage:	1830	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

System Layout



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DA 2 DMA D – CMP #9 AND DRY WELL #9

Region		Valley	
Drainage Area (acres)		15.55	acres
Drainage Area (sq-ft)		**677,358**	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.807**	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		**1.4807**	
Mean 6-hr (P6)		**0.845**	
Drawdown Rate (a)		1.963	
DCV		**75,600**	cu-ft
DCV		**1.736**	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA D)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	75,600	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	3	
Total Volume Provided in Drywells =	**1,470**	ft^3
Total Volume Infiltrated in 48 hours =	**95,126**	ft^3
Total Volume Infiltrated in 3 hours =	**5,945**	ft^3
Total Infiltration Flowrate =	**0.5505**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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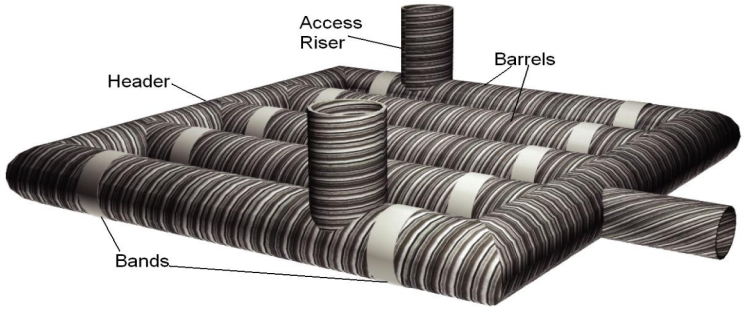
and pricing send completed worksheet to:
dyods@contech-cpi.com



Project Summary

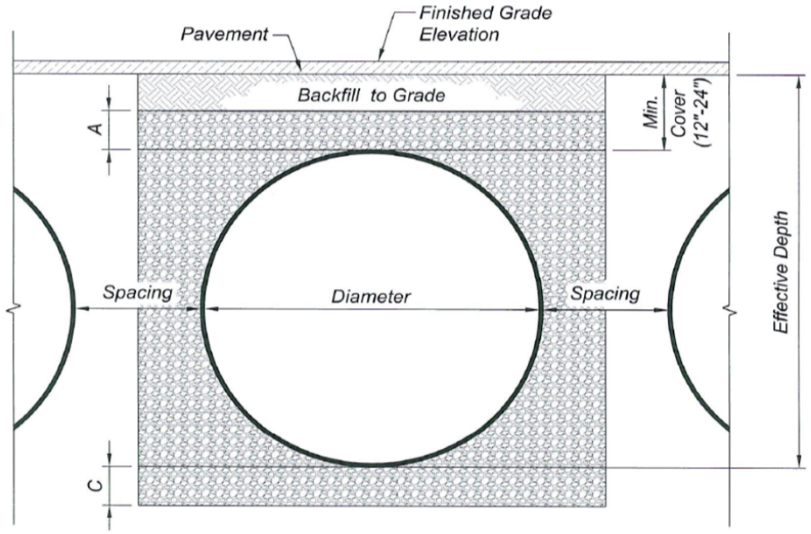
Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DM/
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	75,600
Limiting Width (ft):	50.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	55,543	cf	
Porous Stone Storage:	20,507	cf	
Total Storage Provided:	76,051	cf	100.6% Of Required Storage
Number of Barrels:	4	barrels	
Length per Barrel:	266.0	ft	
Length Per Header:	41.0	ft	
Rectangular Footprint (W x L):	43. ft x 276. ft		

CONTECH Materials

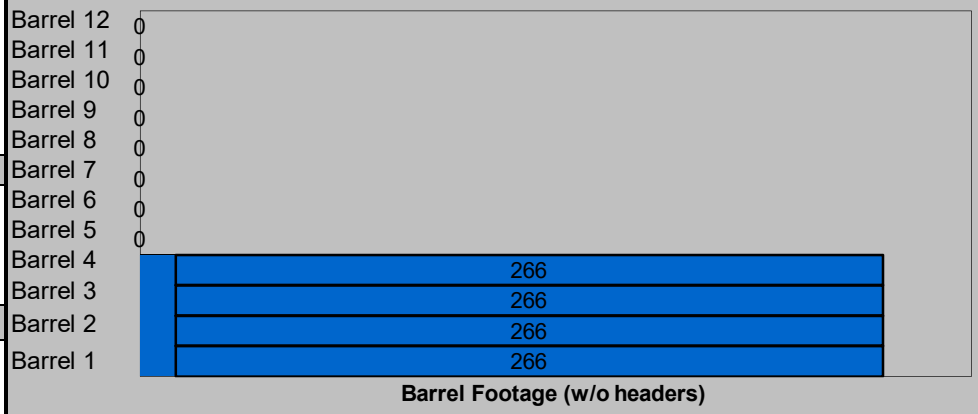
Total CMP Footage:	1,105	ft
Approximate Total Pieces:	50	pcs
Approximate Coupling Bands:	49	bands
Approximate Truckloads:	25	trucks

Construction Quantities**

Total Excavation:	3956	cy
Porous Stone Backfill For Storage:	1899	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

System Layout



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DA 2 DMA E – CMP #10 AND DRY WELL #10

Region		Valley	
Drainage Area (acres)		21.45	acres
Drainage Area (sq-ft)		934,362	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	0.807	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.845	
Drawdown Rate (a)		1.963	
DCV		104,284	cu-ft
DCV		2.394	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA E)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	104,284	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	4	
Total Volume Provided in Drywells =	**1,960**	ft^3
Total Volume Infiltrated in 48 hours =	**126,835**	ft^3
Total Volume Infiltrated in 3 hours =	**7,927**	ft^3
Total Infiltration Flowrate =	**0.7340**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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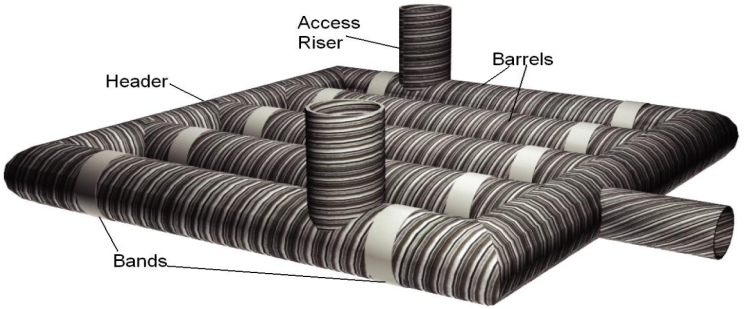
CONTECH CONSTRUCTION PRODUCTS INC.

For design assistance, drawings,
and pricing send completed worksheet to:
dyods@contech-cpi.com



Project Summary

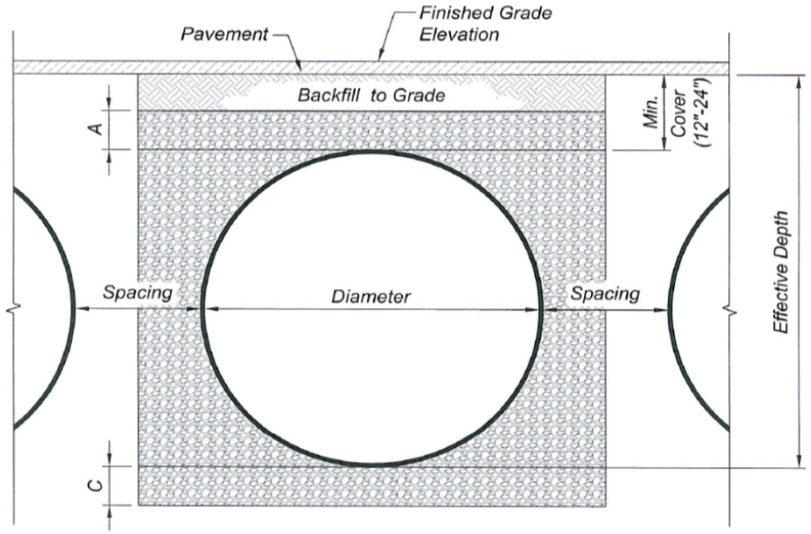
Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA E)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	104,284
Limiting Width (ft):	50.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	76,454	cf	
Porous Stone Storage:	28,242	cf	
Total Storage Provided:	104,696	cf	100.4% Of Required Storage
Number of Barrels:	4	barrels	
Length per Barrel:	370.0	ft	
Length Per Header:	41.0	ft	
Rectangular Footprint (W x L):	43. ft x 380. ft		

CONTECH Materials

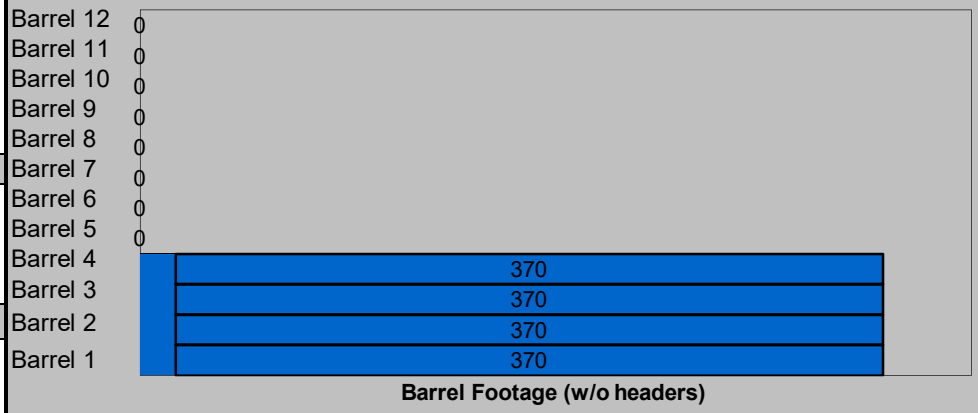
Total CMP Footage:	1,521	ft
Approximate Total Pieces:	66	pcs
Approximate Coupling Bands:	65	bands
Approximate Truckloads:	33	trucks

Construction Quantities**

Total Excavation:	5447	cy
Porous Stone Backfill For Storage:	2615	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

System Layout



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DA 2 DMA F – CMP #11 AND DRY WELL #11

Region		Valley	
Drainage Area (acres)		8.35	acres
Drainage Area (sq-ft)		**363,726**	sq-ft
Impervious Coeff	i =	0.95	< 1.0
Runoff Coeff	**C =**	**0.807**	
1-hr 2-yr from NOAA		0.571	
P6 Coeff		**1.4807**	
Mean 6-hr (P6)		**0.845**	
Drawdown Rate (a)		1.963	
DCV		**40,596**	cu-ft
DCV		**0.932**	acre-ft

MAXWELL IV DRAINAGE SYSTEM CALCULATIONS (DA 2 DMA F)

Given:

Measured Percolation Rate =	0.3670	cfs
Safety Factor =	2	
Design Percolation Rate =	**0.1835**	cfs
Design Capture Volume (DCV) =	40,596	ft^3
Required Drawdown Time =	48	hours
Mininum Depth to Infiltration =	10	ft
Groundwater Depth for Design =	100+	ft
Rock Porosity =	40%	
Duration of Storm When Infiltrating is Occuring as Basin is Filling =	3	hours
Drywell Chamber Diameter =	4	ft
Drywell Chamber Area =	**12.57**	ft^2
Drywell Chamber Depth =	25	ft
Drywell Rock Shaft Diameter =	4	ft
Drywell Rock Shaft Area =	**12.57**	ft^2
Drywell Rock Shaft Depth =	35	ft

Volume of disposal for each drywell based on various time frames are included below.

48 hours =	**31,709**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*
3 hours =	**1,982**	ft^3	*Design Percolation Rate x Drawdown Time x (3600 sec/1 hour)*

Volume provided in each drywell

Volume Provided =	**490**	ft^3	*(Drywell Chamber Depth x Drywell Chamber Area) + (Drywell Rock Shaft Depth x Drywell Rock Shaft Area x Rock Porosity)*

Maxwell System Design

# of Drywells Provided =	2	
Total Volume Provided in Drywells =	**980**	ft^3
Total Volume Infiltrated in 48 hours =	**63,418**	ft^3
Total Volume Infiltrated in 3 hours =	**3,964**	ft^3
Total Infiltration Flowrate =	**0.3670**	cfs

The DCV will be stored in an underground system while the DCV infiltrates via drywells.

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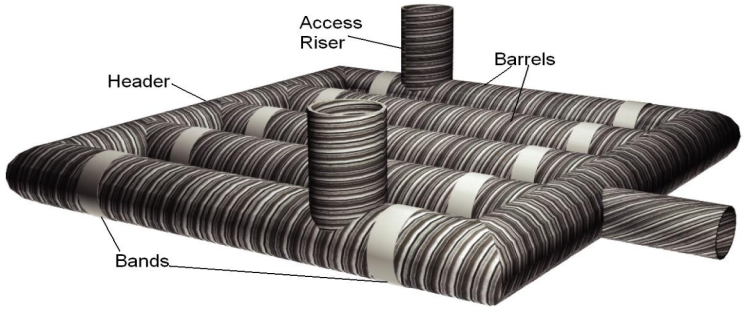


Project Summary

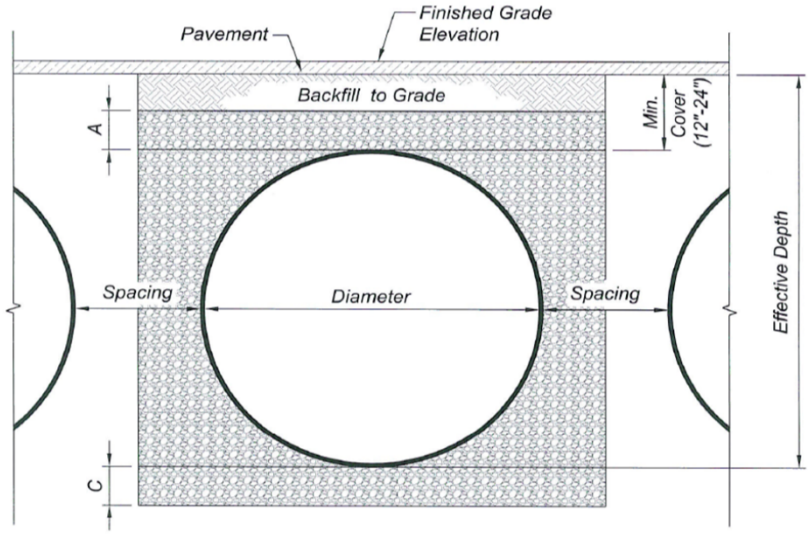
Date:	12/13/2020
Project Name:	South Ontario Logistics Center (DA 2 DMA F)
City / County:	Ontario, CA
State:	California
Designed By:	Luis Prado
Company:	Thienes Engineering, Inc.
Telephone:	(714) 521-4811

Enter Information in Blue Cells

Corrugated Metal Pipe Calculator

Storage Volume Required (cf):	40,596
Limiting Width (ft):	26.00
Invert Depth Below Asphalt (ft):	9.00
Solid or Perforated Pipe:	Perforated
Shape Or Diameter (in):	96
Number Of Headers:	1
Spacing between Barrels (ft):	3.00
Stone Width Around Perimeter of System (ft):	1
Depth A: Porous Stone Above Pipe (in):	6
Depth C: Porous Stone Below Pipe (in):	6
Stone Porosity (0 to 40%):	40

50.27 ft^2 Pipe Area



System Sizing

Pipe Storage:	30,109	cf	
Porous Stone Storage:	10,636	cf	
Total Storage Provided:	40,745	cf	100.4% Of Required Storage
Number of Barrels:	2	barrels	
Length per Barrel:	290.0	ft	
Length Per Header:	19.0	ft	
Rectangular Footprint (W x L):	21. ft x 300. ft		

CONTECH Materials

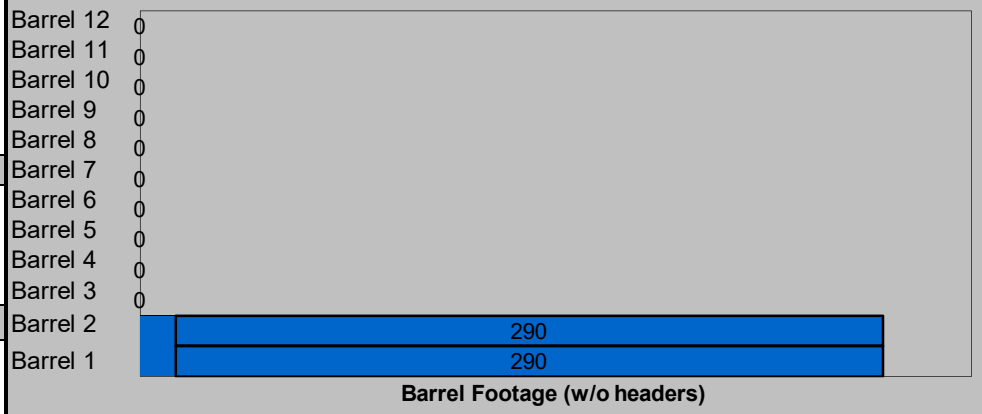
Total CMP Footage:	599	ft
Approximate Total Pieces:	27	pcs
Approximate Coupling Bands:	26	bands
Approximate Truckloads:	14	trucks

Construction Quantities**

Total Excavation:	2100	cy
Porous Stone Backfill For Storage:	985	cy stone
Backfill to Grade Excluding Stone:	0	cy fill

***Construction quantities are approximate and should be verified upon final design*

System Layout



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HCOC CALCULATIONS

Form 4.2-2 of HCOC Assessment

Does project have the potential to cause or contribute to an HCOC in a downstream channel: ☒Yes ☐No

Go to: http://sbcounty.permitrack.com/WAP/

If "Yes", then complete HCOC assessment of site hydrology for 2yr storm event using Forms 4.2-3 through 4.2-5 and insert results below (Forms 4.2-3 through 4.2-5 may be replaced by computer software analysis based on the San Bernardino County Hydrology Manual)

If "No," then proceed to Section 4.3 Project Conformance Analysis

Condition	Runoff Volume (ft^3)	Time of Concentration (min)	Peak Runoff (cfs)
Pre-developed	[1] 531,965 *Form 4.2-3 Item 12*	[2] TBD *Form 4.2-4 Item 13*	[3] TBD *Form 4.2-5 Item 10*
Post-developed	[4] 1,017,027 *Form 4.2-3 Item 13*	[5] TBD *Form 4.2-4 Item 14*	[6] TBD *Form 4.2-5 Item 14*
Difference	[7] 485,062 *Item 4 – Item 1*	[8] TBD *Item 5 – Item 2*	[9] TBD *Item 6 – Item 3*
Difference (as % of pre-developed)	[10] 91% *Item 7 / Item 1*	[11] TBD *Item 8 / Item 2*	[12] TBD *Item 9 / Item 3*

To meet HCOC requirements, a mitigation volume must be achieved by using LID and/or hydromodification mitigation BMPs. The mitigation volume is approximately 434,211 cu-ft ((0.95 * 1,017,027) – 531,965). The total volume being retained is 687,210 cu-ft which is greater than the mitigation volume needed. As a result, the mitigation volume has been contained by the proposed BMPs. Since the mitigation volume has been met, it is physically impossible for the project to avoid increasing the time of concentration and reducing peak runoff by more than five percent of pre-development conditions (see Section 5.6.1 of the Technical Guidance Document for more information).

Form 4.2-3 HCOC Assessment for Runoff Volume

Compute weighted curve number for pre and post developed conditions	**Pre-developed DA** *Add more columns if more than 4 DMA*						**Post-developed DA** *Add more columns if more than 4 DMA*					
	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F
[1] Land Cover type	Row Crops (Poor)	Imper. Cover	Row Crops (Poor)	Imper. Cover	Row Crops (Poor)	Imper. Cover	Urban Cover Comm. Landscape	Roof, Asphalt & Concrete	Urban Cover Comm. Landscape	Roof, Asphalt & Concrete	Urban Cover Comm. Landscape	Roof, Asphalt & Concrete
[2] Hydrologic Soil Group (HSG)	A	A	B	B	C	C	A	A	B	B	C	C
[3] DMA Area, ft² *sum of areas of DMA should equal area of DA*	529,254	121,968	3,351,942	15,246	1,544,202	115,434	32,670	618,552	167,706	3,199,482	82,764	1,576,872
[4] Curve Number (CN) *Use Items 1 and 2 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*	72	98	81	98	88	98	32	98	56	98	69	98
	[5] Pre-Developed area-weighted CN: 83						**[6] Post-Developed area-weighted CN: 96**					
	[7] Pre-developed soil storage capacity, S (in): 2.05 *S = (1000 / Item 5) – 10*						**[8] Post-developed soil storage capacity, S (in): 0.42** *S = (1000 / Item 6) - 10*					
	[9] Initial abstraction, I_a (in): 0.41 *I_a = 0.2 * Item 7*						**[10] Initial abstraction, I_a (in): 0.08** *I_a = 0.2 * Item 8*					
[11] Precipitation for 2 yr, 24 hr storm (in): 2.59 *Go to: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html*												
[12] Pre-developed Volume (ft³): 531,965 *V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 9)^2 / ((Item 11 – Item 9 + Item 7)*												
[13] Post-developed Volume (ft³): 1,017,027 *V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 10)^2 / ((Item 11 – Item 10 + Item 8)*												
[14] Volume Reduction needed to meet HCOC Requirement, (ft³): 434,211 *V_{HCOC} = (Item 13 * 0.95) – Item 12*												

DESIGN CAPTURE VOLUME (DCV) SUMMARY TABLE								
			*DRY WELL			96" CMP		TOTAL VOLUME PROVIDED (CF)
DRAINAGE AREAS (DA)	AREA (ACRES)	DCV (CF)	3-HOUR STORM DURATION VOLUME (CF)	VOLUME PROVIDED (CF)	# OF DRY WELLS	VOLUME PROVIDED (CF)	LINEAR FOOTAGE (LF)	
DA 1 DMA A	4.35	21,149	1,982	490	1	21,309	313	23,781
DA 1 DMA B	4.10	19,933	1,982	490	1	20,086	295	22,558
DA 1 DMA C	4.00	19,447	1,982	490	1	19,678	289	22,150
DA 1 DMA D	3.75	18,232	1,982	490	1	18,455	271	20,927
DA 1 DMA E	4.65	22,607	1,982	490	1	22,804	335	25,276
DA 2 DMA A	23.35	113,522	7,927	1,960	4	113,975	1,652	123,862
DA 2 DMA B	23.40	113,765	7,927	1,960	4	114,320	1,657	124,207
DA 2 DMA C	15.00	72,926	5,945	1,470	3	73,296	1,065	80,711
DA 2 DMA D	15.55	75,600	5,945	1,470	3	76,051	1,105	83,466
DA 2 DMA E	21.45	104,284	7,927	1,960	4	104,696	1,521	114,583
DA 2 DMA F	8.35	40,596	3,964	980	2	40,745	599	45,689
TOTAL	**127.95**	**622,060**	**49,545**	**12,250**	**25**	**625,415**	**9,102**	**687,210**

*DRY WELL INFILTRATION RATES PENDING. THESE CALCULATIONS ASSUME THE SAME INFILTRATION RATE FROM PROJECT PDEV17-057.

INFILTRATION FEASIBILITY (NEARBY SITE)

The watermark for drainage solutions.®

TORRENT RESOURCES

REDA, LLC
4450 MacArthur Blvd., Suite 100
Newport Beach, CA 92660
Attn: Jeff Johnston

Re: Ontario Ranch Logistics Center
NEC of Merrill and Carpenter
Ontario, CA 91762
Job #: 1910-316
Percolation Test Results for Drywell #1

Dear Mr. Johnston,

Pursuant to your request, we have performed a constant head percolation test on the Drainage System at the above referenced location.

The test on Drywell No. 1 commenced on 11/05/2019 at 12:08 PM and was completed at 1:53 PM the same day with a total volume flow of 19,578 GAL. The average percolation rate for the well over the last fifteen minutes of the test is 0.367 cubic feet per second.

If you have any questions or require additional information, please do not hesitate to contact me.

Very truly yours,

Kevin White
VP of California Operations
Torrent Resources (CA), Inc.

KCW/la

Torrent Resources (CA) Incorprated
9950 Alder Avenue
Bloomington California 92316

phone 661-947-9636

www.TorrentResources.com

CA Lic. 886759 A, C-42

An Employee-Owned Company

Percolation Test Results

Project Name:	Ontario Ranch Logistics Center	Client:	REDA, LLC
Location:	NEC of Merrill and Carpenter	Date:	11/5/2019
City:	Ontario, CA 91762	Project Number:	1910-316
Well Number:	1	Supervisor:	DL

Time	Gallons Cumulative Reading	Actual Rate (CFS)	Water Level Below Rim (FT)
12:08 PM	5368192		24.20
12:13 PM	5369370	0.525	20.70
12:18 PM	5370440	0.477	19.80
12:23 PM	5371520	0.481	19.30
12:28 PM	5372575	0.470	19.10
12:33 PM	5373675	0.490	16.60
12:38 PM	5374740	0.475	14.00
12:43 PM	5375700	0.428	13.85
12:48 PM	5376875	0.524	11.35
12:53 PM	5377370	0.221	14.10
12:58 PM	5378250	0.392	14.50
1:03 PM	5379190	0.419	13.10
1:08 PM	5380120	0.414	12.40
1:13 PM	5381030	0.406	11.80
1:18 PM	5381905	0.390	11.50
1:23 PM	5382785	0.392	11.20
1:28 PM	5383640	0.381	11.20
1:33 PM	5384485	0.377	11.05
1:38 PM	5385298	0.362	11.20
1:43 PM	5386125	0.369	11.30
1:48 PM	5386950	0.368	11.10
1:53 PM	5387770	0.365	11.10

TOTAL GALLONS USED: 19,578

1st Hose Run:	2nd Hose Run:	Total Gallons:	19,578
City Meter #:	Used Job Meter:	Used Chandler Hydrant Meter:	
City Meter Start:		City Meter End:	0

APPENDIX H
NOISE DATA

APPENDIX H1

TRAFFIC NOISE MODELING RESULTS

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: South Ontario Logistics Center
Project Number: 195242001
Scenario: Existing
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

								Vehicle Mix		Distance from Centerline of Roadway			
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	32,508	45	0	4.6%	12.3%	73.7	235	745	2,355	7,447
2	Edison Ave	between Ramona Ave and Central Ave	4	14	27,271	45	0	4.6%	12.3%	72.8	190	601	1,899	6,007
3	Edison Ave	between Central Ave and Mountain Ave	5	15	21,446	45	0	4.6%	12.3%	71.8	152	482	1,524	4,819
4	Edison Ave	between Mountain Ave and San Antonio Ave	4	10	25,129	45	0	4.6%	12.3%	72.4	174	551	1,741	5,507
5	Edison Ave	between San Antonio Ave and Euclid Ave	4	13	20,675	45	0	4.6%	12.3%	71.6	144	455	1,438	4,548
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	17,782	50	0	4.6%	12.3%	71.4	139	441	1,394	4,407
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	12,499	50	0	4.6%	12.3%	69.9	98	310	980	3,098
8	Edison Ave	between Grove Ave and Walker Ave	2	0	13,701	50	0	4.6%	12.3%	70.3	107	340	1,074	3,396
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	12,251	50	0	4.6%	12.3%	69.8	96	304	960	3,036
10	Edison Ave	between Vineyard Ave and Archibald Ave	2	0	18,110	50	0	4.6%	12.3%	71.5	142	449	1,419	4,488
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	17,985	50	0	4.6%	12.3%	71.6	143	453	1,432	4,528
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	20,212	50	0	4.6%	12.3%	72.1	163	516	1,631	5,158
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	7,833	50	0	4.6%	12.3%	67.9	61	194	614	1,941
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	4,454	50	0	4.6%	12.3%	65.4	35	110	349	1,104
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	12,659	50	0	4.6%	12.3%	70.0	99	314	992	3,137
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	7,545	45	0	4.6%	12.3%	67.1	51	161	510	1,612
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	3,579	45	0	4.6%	12.3%	63.8	-	76	242	765
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	11,206	50	0	4.6%	12.3%	63.8	-	76	242	765
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	12,133	50	0	4.6%	12.3%	69.8	95	301	951	3,007
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	12,081	50	0	4.6%	12.3%	69.8	96	304	961	3,038
23	Merrill Ave	between Vineyard Ave and Carpenter Ave	3	12	13,217	50	0	4.6%	12.3%	70.2	105	332	1,051	3,324
24	Merrill Ave	between Carpenter Ave and Archibald Ave	2	0	11,885	50	0	4.6%	12.3%	69.7	93	295	931	2,946
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	32,913	45	0	4.6%	12.3%	63.8	-	-	242	765
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	31,777	45	0	4.6%	12.3%	74.3	268	847	2,679	8,472
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	28,828	45	0	4.6%	12.3%	73.5	222	701	2,216	7,008
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	29,467	45	0	4.6%	12.3%	73.2	209	660	2,087	6,599
29	Euclid Ave	beteen Schaefer Ave and Edison Ave	4	25	31,494	55	0	4.6%	12.3%	74.7	298	942	2,978	9,418
30	Euclid Ave	between Edison Ave and Eucalyptus Ave	4	25	31,251	55	0	4.6%	12.3%	74.7	296	935	2,955	9,345
31	Euclid Ave	between Eucalyptus Ave and Merrill Ave	4	25	32,600	55	0	4.6%	12.3%	74.7	298	944	2,985	9,438
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	21,360	55	0	4.6%	12.3%	72.8	193	609	1,927	6,094
33	Bon View Ave	between Edison Ave and Eucalyptus Ave	2	0	3,657	45	0	4.6%	12.3%	63.8	-	76	242	765
34	Bon View Ave	between Eucalyptus Ave and Merrill Ave	2	0	2,508	45	0	4.6%	12.3%	62.3	-	54	169	536
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	25,965	45	0	4.6%	12.3%	63.8	-	76	242	765
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	20,649	45	0	4.6%	12.3%	71.6	143	454	1,434	4,536
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	13,831	50	0	4.6%	12.3%	70.4	108	343	1,084	3,428
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	9,090	50	0	4.6%	12.3%	68.5	71	225	712	2,253
39	Grove Ave	beteen Schaefer Ave and Edison Ave	2	0	8,672	50	0	4.6%	12.3%	68.3	68	215	680	2,149
40	Grove Ave	between Edison Ave and Eucalyptus Ave	2	0	7,980	50	0	4.6%	12.3%	68.0	63	198	625	1,978
41	Grove Ave	between Eucalyptus Ave and Merrill Ave	2	0	7,967	50	0	4.6%	12.3%	68.0	62	197	624	1,975
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	27,284	50	0	4.6%	12.3%	63.8	-	76	242	765
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	27,585	50	0	4.6%	12.3%	73.7	235	745	2,355	7,447
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	24,458	55	0	4.6%	12.3%	73.8	240	760	2,403	7,600
45	Archibald Ave	beteen Schaefer Ave and Edison Ave	4	20	25,058	55	0	4.6%	12.3%	73.7	235	743	2,351	7,434
46	Archibald Ave	between Edison Ave and Eucalyptus Ave	4	25	24,863	55	0	4.6%	12.3%	73.7	235	743	2,351	7,435
47	Archibald Ave	between Eucalyptus Ave and Merrill Ave	4	30	26,427	55	0	4.6%	12.3%	74.0	252	797	2,521	7,973
48	Archibald Ave	between Merril Ave and Limonite Ave	4	30	25,110	55	0	4.6%	12.3%	73.8	240	758	2,396	7,575

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: South Ontario Logistics Center
Project Number: 195242001
Scenario: Opening Year
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

									Vehicle Mix		Distance from Centerline of Roadway			
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	35594	45	0	4.6%	12.3%	74.1	258	815	2,578	8,154
2	Edison Ave	between Ramona Ave and Central Ave	4	14	30069	45	0	4.6%	12.3%	73.2	209	662	2,094	6,623
3	Edison Ave	between Central Ave and Mountain Ave	5	15	24267	45	0	4.6%	12.3%	72.4	172	545	1,724	5,453
4	Edison Ave	between Mountain Ave and San Antoni	4	10	28077	45	0	4.6%	12.3%	72.9	195	615	1,946	6,153
5	Edison Ave	between San Antonio Ave and Euclid A	4	13	23518	45	0	4.6%	12.3%	72.1	164	517	1,636	5,173
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	20537	50	0	4.6%	12.3%	72.1	161	509	1,610	5,090
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	13541	50	0	4.6%	12.3%	70.3	106	336	1,061	3,356
8	Edison Ave	between Grove Ave and Walker Ave	2	0	17254	50	0	4.6%	12.3%	71.3	135	428	1,352	4,276
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	13278	50	0	4.6%	12.3%	70.2	104	329	1,041	3,291
10	Edison Ave	between Vineyard Ave and Archibald A	2	0	22724	50	0	4.6%	12.3%	72.5	178	563	1,781	5,632
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	19225	50	0	4.6%	12.3%	71.8	153	484	1,530	4,840
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	21689	50	0	4.6%	12.3%	72.4	175	553	1,750	5,535
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	8463	50	0	4.6%	12.3%	68.2	66	210	663	2,097
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	4726	50	0	4.6%	12.3%	65.7	37	117	370	1,171
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	13606	50	0	4.6%	12.3%	70.3	107	337	1,066	3,372
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	8241	45	0	4.6%	12.3%	67.5	56	176	557	1,761
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	5062	45	0	4.6%	12.3%	65.3	34	108	342	1,081
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	15993	50	0	4.6%	12.3%	71.0	125	396	1,253	3,964
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	17267	50	0	4.6%	12.3%	71.3	135	428	1,353	4,279
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	17850	50	0	4.6%	12.3%	71.5	142	449	1,420	4,489
23	Merrill Ave	between Vineyard Ave and Carpenter A	3	12	19794	50	0	4.6%	12.3%	72.0	157	498	1,574	4,978
24	Merrill Ave	between Carpenter Ave and Archibald A	2	0	17643	50	0	4.6%	12.3%	71.4	138	437	1,383	4,373
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	37092	45	0	4.6%	12.3%	74.8	300	947	2,996	9,473
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	37825	45	0	4.6%	12.3%	75.0	319	1,008	3,189	10,085
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	35369	45	0	4.6%	12.3%	74.3	272	860	2,719	8,598
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	36157	45	0	4.6%	12.3%	74.1	256	810	2,560	8,097
29	Euclid Ave	beteen Schaefer Ave and Edison Ave	4	25	38238	55	0	4.6%	12.3%	75.6	362	1,143	3,616	11,435
30	Euclid Ave	between Edison Ave and Eucalyptus A	4	25	38050	55	0	4.6%	12.3%	75.6	360	1,138	3,598	11,378
31	Euclid Ave	between Eucalyptus Ave and Merrill Av	4	25	38452	55	0	4.6%	12.3%	75.5	352	1,113	3,520	11,132
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	26636	55	0	4.6%	12.3%	73.8	240	760	2,403	7,599
33	Bon View Ave	between Edison Ave and Eucalyptus A	2	0	4542	45	0	4.6%	12.3%	64.9	-	97	307	970
34	Bon View Ave	between Eucalyptus Ave and Merrill Av	2	0	3322	45	0	4.6%	12.3%	63.5	-	71	224	710
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	28138	45	0	4.6%	12.3%	72.9	195	618	1,955	6,181
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	22726	45	0	4.6%	12.3%	72.0	158	499	1,579	4,992
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	15533	50	0	4.6%	12.3%	70.9	122	385	1,217	3,850
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	10733	50	0	4.6%	12.3%	69.2	84	266	841	2,660
39	Grove Ave	beteen Schaefer Ave and Edison Ave	2	0	10290	50	0	4.6%	12.3%	69.1	81	255	806	2,550
40	Grove Ave	between Edison Ave and Eucalyptus A	2	0	9621	50	0	4.6%	12.3%	68.8	75	238	754	2,384
41	Grove Ave	between Eucalyptus Ave and Merrill Av	2	0	11667	50	0	4.6%	12.3%	69.6	91	289	914	2,892
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	31490	50	0	4.6%	12.3%	74.4	276	872	2,759	8,724
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	31837	50	0	4.6%	12.3%	74.3	272	859	2,718	8,594
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	28878	55	0	4.6%	12.3%	74.5	284	897	2,838	8,974
45	Archibald Ave	beteen Schaefer Ave and Edison Ave	4	20	30431	55	0	4.6%	12.3%	74.6	285	903	2,855	9,027
46	Archibald Ave	between Edison Ave and Eucalyptus A	4	25	30225	55	0	4.6%	12.3%	74.6	286	904	2,858	9,038
47	Archibald Ave	between Eucalyptus Ave and Merrill Av	4	30	31590	55	0	4.6%	12.3%	74.8	301	953	3,014	9,530
48	Archibald Ave	between Merril Ave and Limonite Ave	4	30	30123	55	0	4.6%	12.3%	74.6	287	909	2,874	9,088

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: South Ontario Logistics Center
Project Number: 195242001
Scenario: Opening Year + Project Phase 1
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

								Vehicle Mix		Distance from Centerline of Roadway				
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	37060	45	0	4.6%	12.3%	74.3	268	849	2,685	8,490
2	Edison Ave	between Ramona Ave and Central Ave	4	14	31535	45	0	4.6%	12.3%	73.4	220	695	2,196	6,946
3	Edison Ave	between Central Ave and Mountain Ave	5	15	25849	45	0	4.6%	12.3%	72.6	184	581	1,837	5,808
4	Edison Ave	between Mountain Ave and San Antoni	4	10	29601	45	0	4.6%	12.3%	73.1	205	649	2,051	6,487
5	Edison Ave	between San Antonio Ave and Euclid A	4	13	25100	45	0	4.6%	12.3%	72.4	175	552	1,746	5,521
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	22119	50	0	4.6%	12.3%	72.4	173	548	1,734	5,482
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	16361	50	0	4.6%	12.3%	71.1	128	405	1,282	4,055
8	Edison Ave	between Grove Ave and Walker Ave	2	0	20680	50	0	4.6%	12.3%	72.1	162	513	1,621	5,125
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	14896	50	0	4.6%	12.3%	70.7	117	369	1,167	3,692
10	Edison Ave	between Vineyard Ave and Archibald A	2	0	25112	50	0	4.6%	12.3%	72.9	197	622	1,968	6,224
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	20829	50	0	4.6%	12.3%	72.2	166	524	1,658	5,244
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	21805	50	0	4.6%	12.3%	72.5	176	556	1,760	5,564
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	8741	50	0	4.6%	12.3%	68.4	69	217	685	2,166
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	5756	50	0	4.6%	12.3%	66.5	45	143	451	1,427
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	13664	50	0	4.6%	12.3%	70.3	107	339	1,071	3,386
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	8373	45	0	4.6%	12.3%	67.5	57	179	566	1,789
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	5885	45	0	4.6%	12.3%	66.0	40	126	398	1,257
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	17127	50	0	4.6%	12.3%	71.3	134	424	1,342	4,245
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	19604	50	0	4.6%	12.3%	71.9	154	486	1,536	4,859
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	19660	50	0	4.6%	12.3%	71.9	156	494	1,564	4,945
23	Merrill Ave	between Vineyard Ave and Carpenter A	3	12	21604	50	0	4.6%	12.3%	72.4	172	543	1,718	5,433
24	Merrill Ave	between Carpenter Ave and Archibald A	2	0	19453	50	0	4.6%	12.3%	71.8	152	482	1,525	4,821
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	37755	45	0	4.6%	12.3%	74.8	305	964	3,049	9,642
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	38873	45	0	4.6%	12.3%	75.2	328	1,036	3,277	10,364
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	36563	45	0	4.6%	12.3%	74.5	281	889	2,811	8,889
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	37335	45	0	4.6%	12.3%	74.2	264	836	2,644	8,360
29	Euclid Ave	beteen Schaefer Ave and Edison Ave	4	25	40290	55	0	4.6%	12.3%	75.8	381	1,205	3,810	12,048
30	Euclid Ave	between Edison Ave and Eucalyptus A	4	25	39228	55	0	4.6%	12.3%	75.7	371	1,173	3,710	11,731
31	Euclid Ave	between Eucalyptus Ave and Merrill Av	4	25	40876	55	0	4.6%	12.3%	75.7	374	1,183	3,742	11,834
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	28706	55	0	4.6%	12.3%	74.1	259	819	2,590	8,190
33	Bon View Ave	between Edison Ave and Eucalyptus A	2	0	4600	45	0	4.6%	12.3%	64.9	-	98	311	983
34	Bon View Ave	between Eucalyptus Ave and Merrill Av	2	0	3380	45	0	4.6%	12.3%	63.6	-	72	228	722
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	29158	45	0	4.6%	12.3%	73.1	203	641	2,026	6,405
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	24368	45	0	4.6%	12.3%	72.3	169	535	1,693	5,353
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	17323	50	0	4.6%	12.3%	71.3	136	429	1,358	4,293
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	14551	50	0	4.6%	12.3%	70.6	114	361	1,140	3,606
39	Grove Ave	beteen Schaefer Ave and Edison Ave	2	0	14036	50	0	4.6%	12.3%	70.4	110	348	1,100	3,479
40	Grove Ave	between Edison Ave and Eucalyptus A	2	0	13661	50	0	4.6%	12.3%	70.3	107	339	1,071	3,386
41	Grove Ave	between Eucalyptus Ave and Merrill Av	2	0	14063	50	0	4.6%	12.3%	70.4	110	349	1,102	3,485
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	32484	50	0	4.6%	12.3%	74.5	285	900	2,846	9,000
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	33025	50	0	4.6%	12.3%	74.5	282	892	2,819	8,915
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	29874	55	0	4.6%	12.3%	74.7	294	928	2,936	9,283
45	Archibald Ave	beteen Schaefer Ave and Edison Ave	4	20	31845	55	0	4.6%	12.3%	74.8	299	945	2,987	9,447
46	Archibald Ave	between Edison Ave and Eucalyptus A	4	25	31639	55	0	4.6%	12.3%	74.8	299	946	2,992	9,461
47	Archibald Ave	between Eucalyptus Ave and Merrill Av	4	30	33400	55	0	4.6%	12.3%	75.0	319	1,008	3,186	10,076
48	Archibald Ave	between Merril Ave and Limonite Ave	4	30	31537	55	0	4.6%	12.3%	74.8	301	951	3,009	9,514

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: South Ontario Logistics Center
Project Number: 195242001
Scenario: Opening Year + Project Phase 2
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

								Vehicle Mix		Distance from Centerline of Roadway				
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	36,010	45	0	4.6%	12.3%	74.2	261	825	2,609	8,249
2	Edison Ave	between Ramona Ave and Central Ave	4	14	30,485	45	0	4.6%	12.3%	73.3	212	671	2,123	6,714
3	Edison Ave	between Central Ave and Mountain Ave	5	15	24,767	45	0	4.6%	12.3%	72.5	176	557	1,760	5,565
4	Edison Ave	between Mountain Ave and San Antoni	4	10	28,535	45	0	4.6%	12.3%	73.0	198	625	1,977	6,253
5	Edison Ave	between San Antonio Ave and Euclid A	4	13	24,018	45	0	4.6%	12.3%	72.2	167	528	1,671	5,283
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	21,037	50	0	4.6%	12.3%	72.2	165	521	1,649	5,214
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	14,419	50	0	4.6%	12.3%	70.5	113	357	1,130	3,574
8	Edison Ave	between Grove Ave and Walker Ave	2	0	18,548	50	0	4.6%	12.3%	71.6	145	460	1,454	4,597
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	13,278	50	0	4.6%	12.3%	70.2	104	329	1,041	3,291
10	Edison Ave	between Vineyard Ave and Archibald A	2	0	23,806	50	0	4.6%	12.3%	72.7	187	590	1,866	5,900
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	19,267	50	0	4.6%	12.3%	71.9	153	485	1,534	4,850
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	21,773	50	0	4.6%	12.3%	72.4	176	556	1,757	5,556
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	8,505	50	0	4.6%	12.3%	68.2	67	211	667	2,108
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	4,726	50	0	4.6%	12.3%	65.7	37	117	370	1,171
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	13,648	50	0	4.6%	12.3%	70.3	107	338	1,070	3,383
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	8,283	45	0	4.6%	12.3%	67.5	56	177	560	1,770
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	6,358	45	0	4.6%	12.3%	66.3	43	136	430	1,358
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	16,900	50	0	4.6%	12.3%	71.2	132	419	1,325	4,188
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	18,744	50	0	4.6%	12.3%	71.7	147	465	1,469	4,645
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	19,160	50	0	4.6%	12.3%	71.8	152	482	1,524	4,819
23	Merrill Ave	between Vineyard Ave and Carpenter A	3	12	21,104	50	0	4.6%	12.3%	72.2	168	531	1,678	5,308
24	Merrill Ave	between Carpenter Ave and Archibald A	2	0	18,953	50	0	4.6%	12.3%	71.7	149	470	1,485	4,697
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	37,415	45	0	4.6%	12.3%	74.8	302	956	3,022	9,555
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	38,399	45	0	4.6%	12.3%	75.1	324	1,024	3,237	10,238
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	36,181	45	0	4.6%	12.3%	74.4	278	880	2,781	8,796
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	37,011	45	0	4.6%	12.3%	74.2	262	829	2,621	8,288
29	Euclid Ave	beteen Schaefer Ave and Edison Ave	4	25	38,716	55	0	4.6%	12.3%	75.6	366	1,158	3,661	11,578
30	Euclid Ave	between Edison Ave and Eucalyptus A	4	25	38,906	55	0	4.6%	12.3%	75.7	368	1,163	3,679	11,634
31	Euclid Ave	between Eucalyptus Ave and Merrill Av	4	25	39,034	55	0	4.6%	12.3%	75.5	357	1,130	3,574	11,301
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	27,178	55	0	4.6%	12.3%	73.9	245	775	2,452	7,754
33	Bon View Ave	between Edison Ave and Eucalyptus A	2	0	4,584	45	0	4.6%	12.3%	64.9	-	98	310	979
34	Bon View Ave	between Eucalyptus Ave and Merrill Av	2	0	3,364	45	0	4.6%	12.3%	63.6	-	72	227	719
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	28,367	45	0	4.6%	12.3%	72.9	197	623	1,971	6,232
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	23,060	45	0	4.6%	12.3%	72.0	160	507	1,602	5,066
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	15,867	50	0	4.6%	12.3%	70.9	124	393	1,244	3,932
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	11,151	50	0	4.6%	12.3%	69.4	87	276	874	2,764
39	Grove Ave	beteen Schaefer Ave and Edison Ave	2	0	10,708	50	0	4.6%	12.3%	69.2	84	265	839	2,654
40	Grove Ave	between Edison Ave and Eucalyptus A	2	0	10,039	50	0	4.6%	12.3%	69.0	79	249	787	2,488
41	Grove Ave	between Eucalyptus Ave and Merrill Av	2	0	12,961	50	0	4.6%	12.3%	70.1	102	321	1,016	3,212
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	32,158	50	0	4.6%	12.3%	74.5	282	891	2,817	8,910
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	32,379	50	0	4.6%	12.3%	74.4	276	874	2,764	8,741
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	29,544	55	0	4.6%	12.3%	74.6	290	918	2,903	9,181
45	Archibald Ave	beteen Schaefer Ave and Edison Ave	4	20	30,929	55	0	4.6%	12.3%	74.6	290	918	2,901	9,175
46	Archibald Ave	between Edison Ave and Eucalyptus A	4	25	30,723	55	0	4.6%	12.3%	74.6	291	919	2,905	9,187
47	Archibald Ave	between Eucalyptus Ave and Merrill Av	4	30	32,362	55	0	4.6%	12.3%	74.9	309	976	3,087	9,763
48	Archibald Ave	between Merril Ave and Limonite Ave	4	30	30,621	55	0	4.6%	12.3%	74.7	292	924	2,921	9,238

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: South Ontario Logistics Center
Project Number: 195242001
Scenario: Opening Year + Project Phase 1 and Phase 2
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

								Vehicle Mix		Distance from Centerline of Roadway				
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	37,476	45	0	4.6%	12.3%	74.3	271	858	2,715	8,585
2	Edison Ave	between Ramona Ave and Central Ave	4	14	31,951	45	0	4.6%	12.3%	73.5	223	704	2,225	7,037
3	Edison Ave	between Central Ave and Mountain Ave	5	15	26,349	45	0	4.6%	12.3%	72.7	187	592	1,872	5,921
4	Edison Ave	between Mountain Ave and San Antoni	4	10	30,059	45	0	4.6%	12.3%	73.2	208	659	2,083	6,587
5	Edison Ave	between San Antonio Ave and Euclid A	4	13	25,600	45	0	4.6%	12.3%	72.5	178	563	1,781	5,631
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	22,619	50	0	4.6%	12.3%	72.5	177	561	1,773	5,606
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	17,239	50	0	4.6%	12.3%	71.3	135	427	1,351	4,272
8	Edison Ave	between Grove Ave and Walker Ave	2	0	21,974	50	0	4.6%	12.3%	72.4	172	545	1,722	5,446
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	14,896	50	0	4.6%	12.3%	70.7	117	369	1,167	3,692
10	Edison Ave	between Vineyard Ave and Archibald A	2	0	26,194	50	0	4.6%	12.3%	73.1	205	649	2,053	6,492
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	20,871	50	0	4.6%	12.3%	72.2	166	525	1,661	5,254
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	21,889	50	0	4.6%	12.3%	72.5	177	559	1,766	5,586
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	8,783	50	0	4.6%	12.3%	68.4	69	218	688	2,177
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	5,756	50	0	4.6%	12.3%	66.5	45	143	451	1,427
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	13,706	50	0	4.6%	12.3%	70.3	107	340	1,074	3,397
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	8,415	45	0	4.6%	12.3%	67.5	57	180	569	1,798
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	7,181	45	0	4.6%	12.3%	66.9	49	153	485	1,534
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	18,034	50	0	4.6%	12.3%	71.5	141	447	1,413	4,470
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	21,081	50	0	4.6%	12.3%	72.2	165	522	1,652	5,225
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	20,970	50	0	4.6%	12.3%	72.2	167	527	1,668	5,274
23	Merrill Ave	between Vineyard Ave and Carpenter A	3	12	22,914	50	0	4.6%	12.3%	72.6	182	576	1,822	5,763
24	Merrill Ave	between Carpenter Ave and Archibald A	2	0	20,763	50	0	4.6%	12.3%	72.1	163	515	1,627	5,146
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	38,078	45	0	4.6%	12.3%	74.9	308	972	3,075	9,724
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	39,447	45	0	4.6%	12.3%	75.2	333	1,052	3,326	10,517
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	37,375	45	0	4.6%	12.3%	74.6	287	909	2,873	9,086
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	38,189	45	0	4.6%	12.3%	74.3	270	855	2,704	8,552
29	Euclid Ave	beteen Schaefer Ave and Edison Ave	4	25	40,768	55	0	4.6%	12.3%	75.9	386	1,219	3,855	12,191
30	Euclid Ave	between Edison Ave and Eucalyptus A	4	25	40,084	55	0	4.6%	12.3%	75.8	379	1,199	3,790	11,987
31	Euclid Ave	between Eucalyptus Ave and Merrill Av	4	25	41,458	55	0	4.6%	12.3%	75.8	380	1,200	3,796	12,003
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	29,248	55	0	4.6%	12.3%	74.2	264	834	2,639	8,344
33	Bon View Ave	between Edison Ave and Eucalyptus A	2	0	4,642	45	0	4.6%	12.3%	65.0	-	99	314	992
34	Bon View Ave	between Eucalyptus Ave and Merrill Av	2	0	3,422	45	0	4.6%	12.3%	63.6	-	73	231	731
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	29,387	45	0	4.6%	12.3%	73.1	204	646	2,041	6,456
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	24,702	45	0	4.6%	12.3%	72.3	172	543	1,716	5,427
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	17,657	50	0	4.6%	12.3%	71.4	138	438	1,384	4,376
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	14,969	50	0	4.6%	12.3%	70.7	117	371	1,173	3,710
39	Grove Ave	beteen Schaefer Ave and Edison Ave	2	0	14,454	50	0	4.6%	12.3%	70.5	113	358	1,133	3,582
40	Grove Ave	between Edison Ave and Eucalyptus A	2	0	14,079	50	0	4.6%	12.3%	70.4	110	349	1,103	3,489
41	Grove Ave	between Eucalyptus Ave and Merrill Av	2	0	15,357	50	0	4.6%	12.3%	70.8	120	381	1,204	3,806
42	Archibald Ave	between SR 60 Ramp and Riverside D	6	30	33,152	50	0	4.6%	12.3%	74.6	290	918	2,905	9,185
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	33,567	50	0	4.6%	12.3%	74.6	287	906	2,865	9,061
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	30,540	55	0	4.6%	12.3%	74.8	300	949	3,001	9,490
45	Archibald Ave	beteen Schaefer Ave and Edison Ave	4	20	32,343	55	0	4.6%	12.3%	74.8	303	959	3,034	9,595
46	Archibald Ave	between Edison Ave and Eucalyptus A	4	25	32,137	55	0	4.6%	12.3%	74.8	304	961	3,039	9,610
47	Archibald Ave	between Eucalyptus Ave and Merrill Av	4	30	34,172	55	0	4.6%	12.3%	75.1	326	1,031	3,260	10,309
48	Archibald Ave	between Merril Ave and Limonite Ave	4	30	32,035	55	0	4.6%	12.3%	74.9	306	966	3,056	9,665

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: South Ontario Logistics Center
Project Number: 195242001
Scenario: Horizon Year
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

								Vehicle Mix		Distance from Centerline of Roadway				
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	49,354	45	0	4.6%	12.3%	75.5	358	1,131	3,575	11,306
2	Edison Ave	between Ramona Ave and Central Ave	4	14	48,026	45	0	4.6%	12.3%	75.2	335	1,058	3,345	10,578
3	Edison Ave	between Central Ave and Mountain Ave	5	15	42,952	45	0	4.6%	12.3%	74.8	305	965	3,052	9,652
4	Edison Ave	between Mountain Ave and San Antoni	4	10	46,728	45	0	4.6%	12.3%	75.1	324	1,024	3,238	10,240
5	Edison Ave	between San Antonio Ave and Euclid A	4	13	53,494	45	0	4.6%	12.3%	75.7	372	1,177	3,721	11,767
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	49,497	50	0	4.6%	12.3%	75.9	388	1,227	3,879	12,267
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	55,604	50	0	4.6%	12.3%	76.4	436	1,378	4,358	13,781
8	Edison Ave	between Grove Ave and Walker Ave	2	0	57,324	50	0	4.6%	12.3%	76.5	449	1,421	4,493	14,207
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	48,849	50	0	4.6%	12.3%	75.8	383	1,211	3,828	12,107
10	Edison Ave	between Vineyard Ave and Archibald A	2	0	47,700	50	0	4.6%	12.3%	75.7	374	1,182	3,738	11,822
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	24,660	50	0	4.6%	12.3%	72.9	196	621	1,963	6,208
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	25,634	50	0	4.6%	12.3%	73.2	207	654	2,069	6,541
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	10,428	50	0	4.6%	12.3%	69.1	82	258	817	2,584
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	9,608	50	0	4.6%	12.3%	68.8	75	238	753	2,381
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	18,991	50	0	4.6%	12.3%	71.7	149	471	1,488	4,707
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	9,697	45	0	4.6%	12.3%	68.2	66	207	655	2,072
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	10,278	45	0	4.6%	12.3%	68.4	69	220	694	2,196
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	23,937	50	0	4.6%	12.3%	72.7	188	593	1,876	5,933
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	25,530	50	0	4.6%	12.3%	73.0	200	633	2,001	6,327
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	27,221	50	0	4.6%	12.3%	73.4	216	685	2,165	6,846
23	Merrill Ave	between Vineyard Ave and Carpenter A	3	12	28,557	50	0	4.6%	12.3%	73.6	227	718	2,271	7,182
24	Merrill Ave	between Carpenter Ave and Archibald A	2	0	25,876	50	0	4.6%	12.3%	73.1	203	641	2,028	6,413
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	51,413	45	0	4.6%	12.3%	76.2	415	1,313	4,152	13,130
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	54,125	45	0	4.6%	12.3%	76.6	456	1,443	4,563	14,431
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	50,328	45	0	4.6%	12.3%	75.9	387	1,224	3,869	12,235
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	50,228	45	0	4.6%	12.3%	75.5	356	1,125	3,557	11,248
29	Euclid Ave	beteen Schaefer Ave and Edison Ave	4	25	54,305	55	0	4.6%	12.3%	77.1	514	1,624	5,135	16,239
30	Euclid Ave	between Edison Ave and Eucalyptus A	4	25	52,903	55	0	4.6%	12.3%	77.0	500	1,582	5,003	15,820
31	Euclid Ave	between Eucalyptus Ave and Merrill Av	4	25	52,683	55	0	4.6%	12.3%	76.8	482	1,525	4,823	15,252
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	40,249	55	0	4.6%	12.3%	75.6	363	1,148	3,631	11,483
33	Bon View Ave	between Edison Ave and Eucalyptus A	2	0	4,878	45	0	4.6%	12.3%	65.2	33	104	330	1,042
34	Bon View Ave	between Eucalyptus Ave and Merrill Av	2	0	4,636	45	0	4.6%	12.3%	65.0	-	99	313	990
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	45,317	45	0	4.6%	12.3%	75.0	315	996	3,148	9,955
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	35,012	45	0	4.6%	12.3%	73.9	243	769	2,432	7,691
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	25,255	50	0	4.6%	12.3%	73.0	198	626	1,979	6,259
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	18,495	50	0	4.6%	12.3%	71.6	145	458	1,450	4,584
39	Grove Ave	beteen Schaefer Ave and Edison Ave	2	0	17,170	50	0	4.6%	12.3%	71.3	135	426	1,346	4,255
40	Grove Ave	between Edison Ave and Eucalyptus A	2	0	22,105	50	0	4.6%	12.3%	72.4	173	548	1,732	5,478
41	Grove Ave	between Eucalyptus Ave and Merrill Av	2	0	16,193	50	0	4.6%	12.3%	71.0	127	401	1,269	4,013
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	40,797	50	0	4.6%	12.3%	75.5	357	1,130	3,574	11,303
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	41,146	50	0	4.6%	12.3%	75.5	351	1,111	3,512	11,107
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	37,780	55	0	4.6%	12.3%	75.7	371	1,174	3,713	11,740
45	Archibald Ave	beteen Schaefer Ave and Edison Ave	4	20	41,785	55	0	4.6%	12.3%	75.9	392	1,240	3,920	12,396
46	Archibald Ave	between Edison Ave and Eucalyptus A	4	25	41,536	55	0	4.6%	12.3%	75.9	393	1,242	3,928	12,421
47	Archibald Ave	between Eucalyptus Ave and Merrill Av	4	30	42,155	55	0	4.6%	12.3%	76.0	402	1,272	4,022	12,718
48	Archibald Ave	between Merril Ave and Limonite Ave	4	30	41,536	55	0	4.6%	12.3%	76.0	396	1,253	3,963	12,531

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: South Ontario Logistics Center
Project Number: 195242001
Scenario: Horizon Year + Project Phase 1 and Phase 2
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

								Vehicle Mix		Distance from Centerline of Roadway				
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Edison Ave	between Pipeline Ave and Ramona Ave	6	13	50,354	45	0	4.6%	12.3%	75.6	365	1,153	3,648	11,535
2	Edison Ave	between Ramona Ave and Central Ave	4	14	49,126	45	0	4.6%	12.3%	75.3	342	1,082	3,422	10,820
3	Edison Ave	between Central Ave and Mountain Ave	5	15	44,152	45	0	4.6%	12.3%	75.0	314	992	3,137	9,921
4	Edison Ave	between Mountain Ave and San Antoni	4	10	47,828	45	0	4.6%	12.3%	75.2	331	1,048	3,314	10,481
5	Edison Ave	between San Antonio Ave and Euclid A	4	13	55,594	45	0	4.6%	12.3%	75.9	387	1,223	3,867	12,229
6	Edison Ave	between Euclid Ave and Bon View Ave	2	0	51,599	50	0	4.6%	12.3%	76.1	404	1,279	4,044	12,788
7	Edison Ave	between Bon View Ave and Grove Ave	2	0	57,706	50	0	4.6%	12.3%	76.6	452	1,430	4,523	14,302
8	Edison Ave	between Grove Ave and Walker Ave	2	0	59,426	50	0	4.6%	12.3%	76.7	466	1,473	4,657	14,728
9	Edison Ave	between Walker Ave and Vineyard Ave	2	0	51,451	50	0	4.6%	12.3%	76.1	403	1,275	4,032	12,752
10	Edison Ave	between Vineyard Ave and Archibald A	2	0	48,801	50	0	4.6%	12.3%	75.8	382	1,209	3,825	12,095
11	Riverside Dr	between Euclid Ave and Grove Ave	3	13	24,660	50	0	4.6%	12.3%	72.9	196	621	1,963	6,208
12	Riverside Dr	between Grove Ave and Archibald Ave	4	13	25,834	50	0	4.6%	12.3%	73.2	208	659	2,085	6,592
13	Chino Ave	between Euclid Ave and Grove Ave	2	0	10,528	50	0	4.6%	12.3%	69.2	83	261	825	2,609
14	Chino Ave	between Grove Ave and Archibald Ave	2	0	9,608	50	0	4.6%	12.3%	68.8	75	238	753	2,381
15	Schaefer Ave	between Euclid Ave and Grove Ave	2	0	19,091	50	0	4.6%	12.3%	71.7	150	473	1,496	4,731
17	Eucalyptus Ave	between Euclid Ave and Bon View Ave	2	0	9,797	45	0	4.6%	12.3%	68.2	66	209	662	2,093
18	Eucalyptus Ave	between Bon View Ave and Grove Ave	2	0	13,382	45	0	4.6%	12.3%	69.6	90	286	904	2,859
20	Merrill Ave	between Euclid Ave and Bon View Ave	2	0	26,541	50	0	4.6%	12.3%	73.2	208	658	2,080	6,578
21	Merrill Ave	between Bon View Ave and Grove Ave	2	0	27,284	50	0	4.6%	12.3%	73.3	214	676	2,138	6,762
22	Merrill Ave	between Grove Ave and Vineyard Ave	3	12	29,641	50	0	4.6%	12.3%	73.7	236	745	2,357	7,455
23	Merrill Ave	between Vineyard Ave and Carpenter A	3	12	30,977	50	0	4.6%	12.3%	73.9	246	779	2,464	7,791
24	Merrill Ave	between Carpenter Ave and Archibald A	2	0	28,296	50	0	4.6%	12.3%	73.5	222	701	2,218	7,013
25	Euclid Ave	between SR 60 Ramps and Walnut Ave	6	50	52,745	45	0	4.6%	12.3%	76.3	426	1,347	4,260	13,470
26	Euclid Ave	between Walnut Ave and Riverside Dr	6	60	55,357	45	0	4.6%	12.3%	76.7	467	1,476	4,667	14,759
27	Euclid Ave	between Riverside Dr and Chino Ave	4	60	52,060	45	0	4.6%	12.3%	76.0	400	1,266	4,002	12,656
28	Euclid Ave	between Chino Ave and Schaefer Ave	4	25	52,060	45	0	4.6%	12.3%	75.7	369	1,166	3,687	11,658
29	Euclid Ave	beteen Schaefer Ave and Edison Ave	4	25	55,237	55	0	4.6%	12.3%	77.2	522	1,652	5,223	16,518
30	Euclid Ave	between Edison Ave and Eucalyptus A	4	25	54,735	55	0	4.6%	12.3%	77.1	518	1,637	5,176	16,368
31	Euclid Ave	between Eucalyptus Ave and Merrill Av	4	25	540,701	55	0	4.6%	12.3%	86.9	4,950	15,654	49,502	156,538
32	Euclid Ave	between Merrill Ave and Kimball Ave	4	25	41,537	55	0	4.6%	12.3%	75.7	375	1,185	3,747	11,850
33	Bon View Ave	between Edison Ave and Eucalyptus A	2	0	4,978	45	0	4.6%	12.3%	65.3	34	106	336	1,063
34	Bon View Ave	between Eucalyptus Ave and Merrill Av	2	0	4,736	45	0	4.6%	12.3%	65.1	-	101	320	1,012
35	Grove Ave	between SR 60 Ramps and Walnut Ave	4	12	46,017	45	0	4.6%	12.3%	75.0	320	1,011	3,197	10,109
36	Grove Ave	between Walnut Ave and Riverside Dr	4	12	36,112	45	0	4.6%	12.3%	74.0	251	793	2,509	7,933
37	Grove Ave	between Riverside Dr and Chino Ave	2	0	26,355	50	0	4.6%	12.3%	73.2	207	653	2,066	6,532
38	Grove Ave	between Chino Ave and Schaefer Ave	2	0	19,595	50	0	4.6%	12.3%	71.9	154	486	1,536	4,856
39	Grove Ave	beteen Schaefer Ave and Edison Ave	2	0	18,270	50	0	4.6%	12.3%	71.6	143	453	1,432	4,528
40	Grove Ave	between Edison Ave and Eucalyptus A	2	0	25,183	50	0	4.6%	12.3%	73.0	197	624	1,974	6,241
41	Grove Ave	between Eucalyptus Ave and Merrill Av	2	0	19,396	50	0	4.6%	12.3%	71.8	152	481	1,520	4,807
42	Archibald Ave	between SR 60 Ramp and Riverside Dr	6	30	41,752	50	0	4.6%	12.3%	75.6	366	1,157	3,658	11,568
43	Archibald Ave	between Riverside Dr and Chino Ave	6	20	42,134	50	0	4.6%	12.3%	75.6	360	1,137	3,597	11,374
44	Archibald Ave	between Chino Ave and Schaefer Ave	6	20	38,968	55	0	4.6%	12.3%	75.8	383	1,211	3,829	12,109
45	Archibald Ave	beteen Schaefer Ave and Edison Ave	4	20	42,861	55	0	4.6%	12.3%	76.0	402	1,271	4,021	12,715
46	Archibald Ave	between Edison Ave and Eucalyptus A	4	25	42,612	55	0	4.6%	12.3%	76.1	403	1,274	4,030	12,743
47	Archibald Ave	between Eucalyptus Ave and Merrill Av	4	30	43,199	55	0	4.6%	12.3%	76.2	412	1,303	4,121	13,033
48	Archibald Ave	between Merril Ave and Limonite Ave	4	30	42,612	55	0	4.6%	12.3%	76.1	407	1,286	4,065	12,856

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

APPENDIX I
TRANSPORATION REPORTS

APPENDIX I1

TRAFFIC ANALYSIS

South Ontario Logistics Center Specific Plan

TRAFFIC ANALYSIS

CITY OF ONTARIO

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AUGUST 17, 2021

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LIST OF ABBREVIATED TERMS

(1)	Reference
ADT	Average Daily Traffic
CAMUTCD	California Manual on Uniform Traffic Control Devices
Caltrans	California Department of Transportation
CCI	Construction Cost Index
CMP	Congestion Management Program
DIF	Development Impact Fee
E+P	Existing Plus Project
HCM	Highway Capacity Manual
ITE	Institute of Transportation Engineers
LOS	Level of Service
NCHRP	National Cooperative Highway Research Program
PA	Planning Area
PAs	Planning Areas
PCE	Passenger Car Equivalents
PHF	Peak Hour Factor
Project	South Ontario Logistics Center Specific Plan
RivTAM	Riverside Transportation Analysis Model
RTA	Riverside Transport Authority
RTP	Regional Transportation Plan
SBCTA	San Bernardino County Transportation Authority
SBTAM	San Bernardino Transportation Analysis Model
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SHS	State Highway System
SR	State Route
TA	Traffic Analysis
TUMF	Transportation Uniform Mitigation Fee
v/c	Volume to Capacity
vphgpl	Vehicles per Hour Green per Lane
WRCOG	Western Riverside Council of Governments

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1 SUMMARY OF FINDINGS

This report presents the results of the traffic analysis (TA) for the proposed South Ontario Logistics Center Specific Plan ("Project"), which is located north of Merrill Avenue between Campus Avenue and Grove Avenue in the City of Ontario, as shown on Exhibit 1-1.

The purpose of this TA is to evaluate the potential circulation system deficiencies that may result from the development of the proposed Project, and where necessary recommend improvements to achieve acceptable operations consistent with General Plan level of service goals and policies. This traffic study has been prepared in accordance with the San Bernardino County Congestion Management Program (CMP) Guidelines for CMP Traffic Impact Analysis Reports (Appendix B, 2016 Update) and consultation with City staff during the traffic study scoping process. (1) (2) The City approved Project Traffic Study Scoping agreement is provided in Appendix 1.1 of this TA.

1.1 PROJECT OVERVIEW

Exhibit 1-1 illustrates the preliminary Project land use plan and proposed phasing. The Project anticipates development over two phases and is expected to be fully built and operational by 2024. Phase 1 of the proposed Project is anticipated to be developed by Year 2024 and includes the development of Planning Areas (PAs) 1 and 2. Phase 2 of the proposed Project is also anticipated to be developed by Year 2024 and includes the development of PAs 3, 4, and 5. Phase 1 and Phase 2 have been evaluated separately in order to identify the improvement needs for each phase of the development.

Phase 1 (PAs 1 and 2) of the proposed Project includes the development for the following uses:

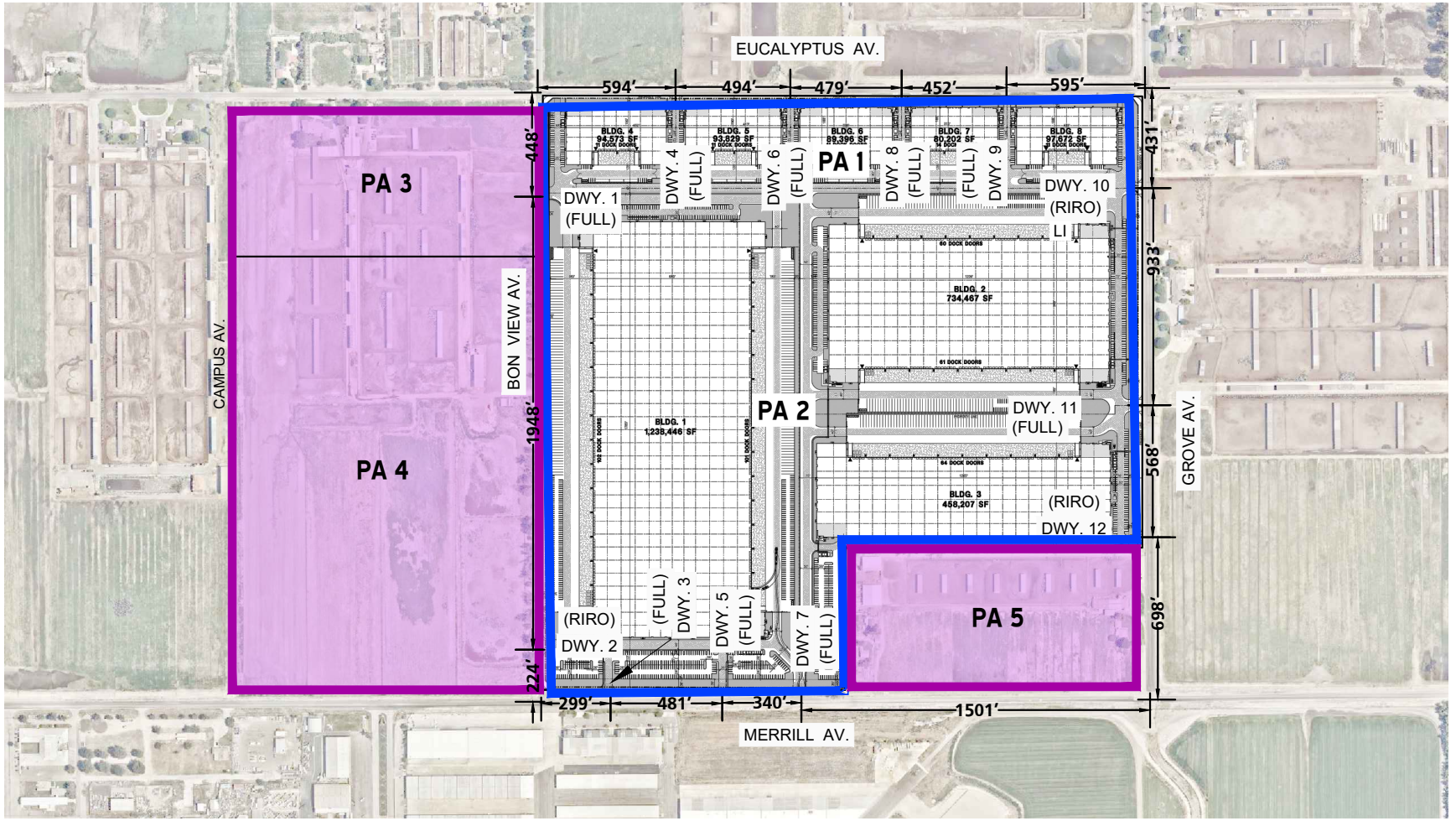
- Industrial: 1,671,574 square feet of high-cube fulfillment center warehouse use, 334,315 square feet of high-cube cold storage warehouse, and 565,763 square feet of general warehousing use
- Business Park: 601,128 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under Institute Transportation Engineer's Land Use Code 130).

For purposes of this analysis, the following mix of land uses are assumed for Phase 2 (PAs 3, 4, and 5), which represent a reasonable mix of industrial and business park uses that would be permitted by the Project:

- Industrial: 1,147,708 square feet of high-cube fulfillment center warehouse use, 229,542 square feet of high-cube cold storage warehouse, and 388,455 square feet of general warehousing use
- Business Park: 474,107 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under ITE Land Use Code 130).

For the purposes of the operations analysis, Project buildout includes both Phase 1 and Phase 2.

EXHIBIT 1-1: PRELIMINARY SITE PLAN



LEGEND:

- **RIRO** = RIGHT-IN/RIGHT-OUT ONLY ACCESS
- **LI** = LEFT IN
- **FULL** = FULL ACCESS
- = PHASE 1 (2022)
- = PHASE 2 (2024)

N

In an effort to conduct a conservative analysis, high-cube fulfillment center warehouse use and high-cube cold storage warehouse use were selected to capture the range of allowable uses within the Industrial areas of the Specific Plan. Similarly, the industrial park rate was selected to capture the range of allowable uses within the Business Park areas of the Specific Plan. From a trip generation perspective, these land use assumptions are conservative in that trip generation would likely be overstated as opposed to understated. Lastly, since the time this Project has been scoped with the lead agency and following the commencement of the operations analysis contained within this TA, the site plan square footages have been modified. The latest site plan is reflected in Exhibit 1-1, however the old site plan/square footage assumptions, which are more conservative, have been utilized for the purposes of the analysis.

Trips generated by the Project's proposed land uses have been estimated based on trip generation rates collected by the ITE Trip Generation Manual, 10th Edition, 2017 and the High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019). (3) (4) The proposed Project is anticipated to generate a total of 12,446 actual trip-ends per day, 991 AM peak hour trips and 1,136 PM peak hour trips (actual vehicles). The assumptions and methods used to estimate the Project's trip generation characteristics are discussed in greater detail in Section 4.1 *Project Trip Generation* of this report.

1.2 ANALYSIS SCENARIOS

For the purposes of this traffic study, potential deficiencies to traffic and circulation have been assessed for each of the following conditions:

- Existing (2021)
- Existing plus Project (E+P), with analysis broken down for:
    - Phase 1
    - Phase 1 + Phase 2 (Project Buildout)
- Opening Year Cumulative (2024) Without Project
- Opening Year Cumulative (2024) With Project (Phase 1)
- Opening Year Cumulative (2024) With Project (Phase 1 + Phase 2)
- Horizon Year (2040) Without Project
- Horizon Year (2040) With Project (Project Buildout)

1.2.1 EXISTING (2021) CONDITIONS

Information for Existing (2021) conditions is disclosed to represent the baseline traffic conditions as they existed at the time this report was prepared. An ambient growth rate of 2% per year has been utilized for the 2019 traffic counts to reflect 2021 traffic conditions. See Section 3.7 *Existing Traffic Counts* for a detailed discussion on the methodology.

1.2.2 EXISTING PLUS PROJECT CONDITIONS

The Existing plus Project (E+P) analysis determines traffic deficiencies that would occur on the existing roadway system with the addition of Project traffic. E+P traffic conditions have been evaluated for each development phase in order to determine any potential off-site improvements, by phase.

1.2.3 OPENING YEAR CUMULATIVE (2024) CONDITIONS

The Opening Year Cumulative conditions analysis determines the potential near-term cumulative circulation system deficiencies. To account for background traffic growth, traffic associated with other known cumulative development projects in conjunction with an ambient growth factor from Existing conditions of 2% per year (compounded annually) are included for Opening Year Cumulative (2024) traffic conditions. Opening Year Cumulative traffic conditions have been evaluated for each phase of the proposed Project. This comprehensive list was compiled from information provided by the City of Ontario and other near-by agencies.

1.2.4 HORIZON YEAR (2040) CONDITIONS

Traffic projections for Horizon Year (2040) with Project conditions were derived from the San Bernardino Transportation Analysis Model (SBTAM) modified to represent buildout of the City of Ontario. Horizon Year traffic conditions evaluates only the Project Buildout (Phase 1 + Phase 2). The Horizon Year (2040) conditions analysis will be utilized to determine if improvements funded through regional transportation mitigation fee programs, such as the City's Development Impact Fee (DIF) program, or other approved funding mechanisms can accommodate the long-range cumulative traffic at the target level of service (LOS) identified by the City of Ontario (lead agency). It should be noted that the City of Ontario has updated their DIF program to also include appropriate contributions towards regionally significant improvements that have been identified via the San Bernardino County CMP regional fee program study. If the planned and funded improvements can provide the target LOS, then the Project's payment into established fee programs will be considered as an improvement to address deficiencies. Other improvements needed beyond the "funded" improvements (such as localized improvements to non-DIF facilities) are identified as such.

1.3 STUDY AREA

To ensure that this TA satisfies the City of Ontario's traffic study requirements, Urban Crossroads, Inc. prepared a project traffic study scoping package for review by City staff prior to the preparation of this report. The Agreement provides an outline of the Project study area, trip generation, trip distribution, and analysis methodology.

1.3.1 INTERSECTIONS

The following 75 study area intersections shown on Exhibit 1-2 and listed on Table 1-1 were selected for this TIA based on consultation with City of Ontario staff. The "50 peak hour trip" criterion utilized by the City of Ontario is consistent with the methodology employed by the County of San Bernardino, and generally represents a minimum number of trips at which a typical intersection would have the potential to be affected by a given development proposal. Although each intersection may have unique operating characteristics, this traffic engineering rule of thumb is a widely utilized tool for estimating a potential area of influence (i.e., study area). The "50 peak hour trip" criterion is also utilized by the City of Eastvale. Other analysis intersections, within the adjacent cities were not selected for evaluation as the Project is anticipated to contribute less than 50 peak hour trips.

TABLE 1-1: INTERSECTION ANALYSIS LOCATIONS

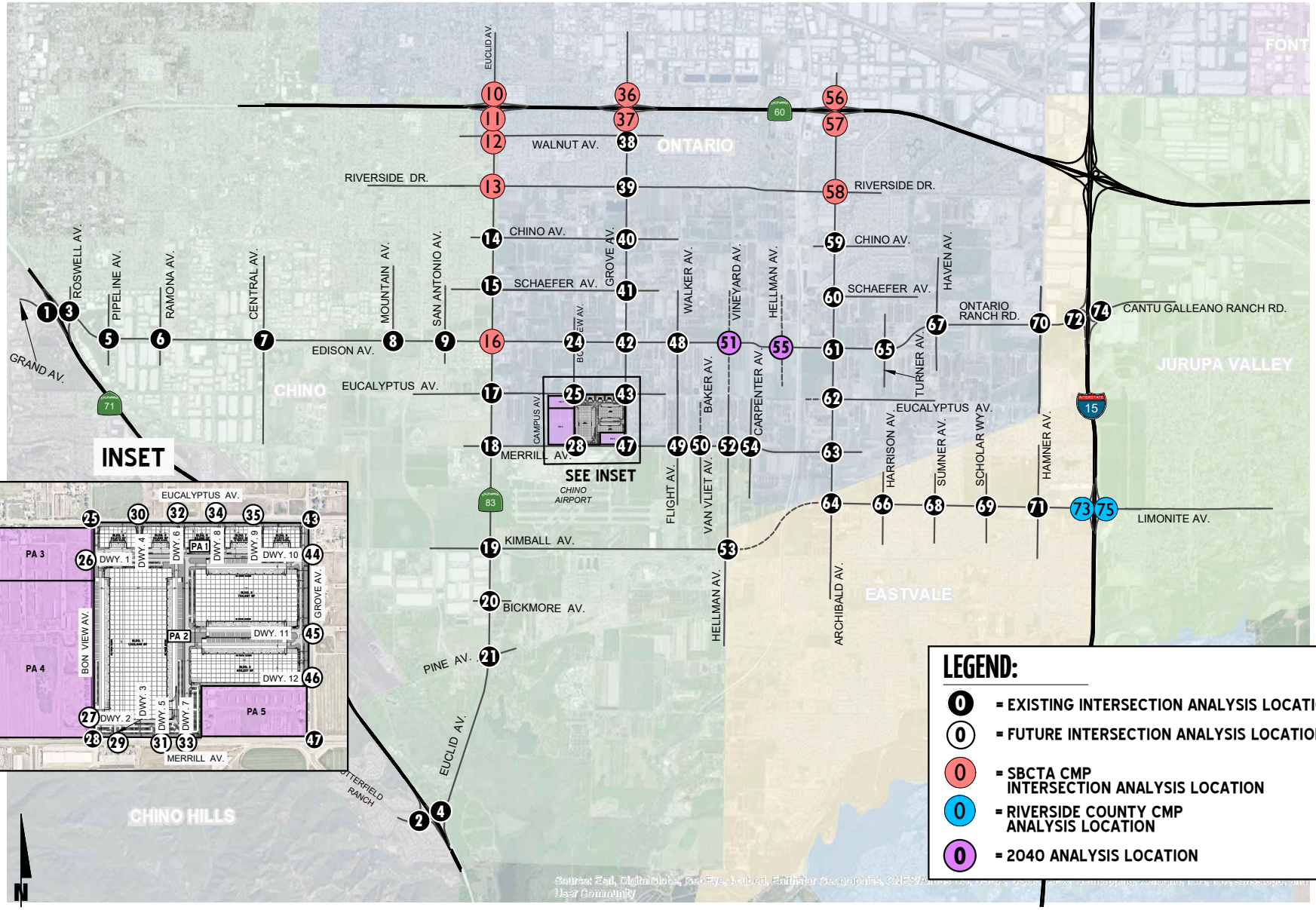
ID	Intersection Location	Jurisdiction	SBCTA CMP?
1	SR-71 SB Ramps & Grand Av.	Chino Hills, Caltrans	No
2	SR-71 SB Ramps & Butterfield Ranch Rd.	Chino Hills, Caltrans	No
3	SR-71 NB Ramps & Edison Av.	Chino, Caltrans	No
4	SR-71 NB Ramps & Euclid Av. (SR-83)	Chino, Caltrans	No
5	Pipeline Av. & Edison Av.	Chino	No
6	Ramona Av. & Edison Av.	Chino	No
7	Central Av. & Edison Av.	Chino	No
8	Mountain Av. & Edison Av.	Chino	No
9	San Antonio Av. & Edison Av.	Chino	No
10	Euclid Av. (SR-83) & SR-60 WB Ramps	Ontario, Caltrans	Yes
11	Euclid Av. (SR-83) & SR-60 EB Ramps	Ontario, Caltrans	Yes
12	Euclid Av. (SR-83) & Walnut Av.	Ontario, Caltrans	Yes
13	Euclid Av. (SR-83) & Riverside Dr.	Chino, Ontario, Caltrans	Yes
14	Euclid Av. (SR-83) & Chino Av.	Chino, Ontario, Caltrans	No
15	Euclid Av. (SR-83) & Schaefer Av.	Chino, Ontario, Caltrans	No
16	Euclid Av. (SR-83) & Edison Av.	Chino, Ontario, Caltrans	Yes
17	Euclid Av. (SR-83) & Eucalyptus Av.	Chino, Ontario, Caltrans	No
18	Euclid Av. (SR-83) & Merrill Av.	Chino, Ontario, Caltrans	No
19	Euclid Av. (SR-83) & Kimball Av.	Chino, Caltrans	No
20	Euclid Av. (SR-83) & Bickmore Av.	Chino, Caltrans	No
21	Euclid Av. (SR-83) & Pine Av.	Chino, Caltrans	No

ID	Intersection Location	Jurisdiction	SBCTA CMP?
22	Campus Av. & Eucalyptus Av.	Chino, Caltrans	No
23	Campus Av. & Merrill Av.	Chino, Caltrans	No
24	Bon View Av. & Edison Av.	Ontario	No
25	Bon View Av. & Eucalyptus Av.	Ontario	No
26	Bon View Av. & Driveway 1 – Future Intersection	Ontario	No
27	Bon View Av. & Driveway 2 – Future Intersection	Ontario	No
28	Bon View Av. & Merrill Av.	Chino, Ontario	No
29	Driveway 3 & Merrill Av. – Future Intersection	Ontario	No
30	Driveway 4 & Eucalyptus Av. – Future Intersection	Ontario	No
31	Driveway 5 & Merrill Av. – Future Intersection	Ontario	No
32	Driveway 6 & Eucalyptus Av. – Future Intersection	Ontario	No
33	Driveway 7 & Merrill Av. – Future Intersection	Ontario	No
34	Driveway 8 & Eucalyptus Av. – Future Intersection	Ontario	No
35	Driveway 9 & Eucalyptus Av. – Future Intersection	Ontario	No
36	Grove Av. & SR-60 WB Ramps	Ontario, Caltrans	Yes
37	Grove Av. & SR-60 EB Ramps	Ontario, Caltrans	Yes
38	Grove Av. & Walnut Av.	Ontario	No
39	Grove Av. & Riverside Dr.	Ontario	No
40	Grove Av. & Chino Av.	Ontario	No
41	Grove Av. & Schaefer Av.	Ontario	No
42	Grove Av. & Edison Av.	Ontario	No
43	Grove Av. & Eucalyptus Av.	Ontario	No
44	Grove Av. & Driveway 10 – Future Intersection	Ontario	No
45	Grove Av. & Driveway 11 – Future Intersection	Ontario	No
46	Grove Av. & Driveway 12 – Future Intersection	Ontario	No
47	Grove Av. & Merrill Av.	Chino, Ontario	No
48	Walker Av. & Edison Av.	Ontario	No
49	Walker Av./Flight Av. & Merrill Av.	Chino, Ontario	No
50	Van Vliet Av./Baker Av. & Merrill Av.	Ontario	No
51	Vineyard Av. & Edison Av.	Ontario	No
52	Vineyard Av./Hellman Av. & Merrill Av.	Chino, Ontario	No
53	Hellman Av. & Kimball Av.	Chino, Eastvale	No
54	Carpenter Av. & Merrill Av.	Chino, Ontario	No
55	Hellman Av. & Edison Av.	Ontario	No
56	Archibald Av. & SR-60 WB Ramps	Ontario, Caltrans	Yes
57	Archibald Av. & SR-60 EB Ramps	Ontario, Caltrans	Yes
58	Archibald Av. & Riverside Dr.	Ontario	Yes
59	Archibald Av. & Chino Av.	Ontario	No
60	Archibald Av. & Schaefer Av.	Ontario	No

ID	Intersection Location	Jurisdiction	SBCTA CMP?
61	Archibald Av. & Ontario Ranch Rd.	Ontario	No
62	Archibald Av. & Eucalyptus Av.	Ontario	No
63	Archibald Av. & Merrill Av.	Ontario	No
64	Archibald Av. & Limonite Av.	Eastvale	No
65	Turner Av. & Ontario Ranch Rd.	Ontario	No
66	Harrison Av. & Limonite Av.	Eastvale	No
67	Haven Av. & Ontario Ranch Rd.	Ontario	No
68	Sumner Av. & Limonite Av.	Eastvale	No
69	Scholar Way & Limonite Av.	Eastvale	No
70	Hamner Av. & Ontario Ranch Rd.	Eastvale, Ontario	No
71	Hamner Av. & Limonite Av.	Eastvale	No
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	Eastvale, Caltrans	No
73	I-15 SB Ramps & Limonite Av.	Eastvale, Caltrans	Yes
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	Jurupa Valley, Caltrans	No
75	I-15 NB Ramps & Limonite Av.	Jurupa Valley, Caltrans	Yes

The intent of a CMP is to more directly link land use, transportation, and air quality, thereby prompting reasonable growth management programs that will effectively utilize new transportation funds, alleviate traffic congestion and related deficiencies, and improve air quality. Counties within California have developed CMPs with varying methods and strategies to meet the intent of the CMP legislation. Study area intersections that are identified as CMP facilities in the County of San Bernardino per the San Bernardino County Transportation Authority (SBCTA) CMP are indicated on Table 1-1. (1)

EXHIBIT 1-2: LOCATION MAP



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1.4 PROJECT DEFICIENCIES

This section provides a summary of Project deficiencies. Section 2 *Methodologies* provides information on the methodologies used in the analysis and Section 5 *E+P Traffic Analysis*, Section 6 *Opening Year Cumulative (2024)*, and Section 7 *Horizon Year (2040) Traffic Analysis* includes the detailed analysis. A summary of LOS results for all analysis scenarios is presented on Exhibit 1-3.

1.4.1 EXISTING (2021) CONDITIONS

The existing study area intersections are currently operating at acceptable LOS during the peak hours with the exception of the following intersections:

- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS E PM peak hour only
- Grove Avenue & SR-60 Eastbound Ramps (#37) – LOS E AM peak hour only
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F PM peak hour only
- Grove Avenue & Merrill Avenue (#47) – LOS F AM peak hour; LOS E PM peak hour
- Walker Avenue & Edison Avenue (#36) – LOS F PM peak hour only
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Archibald Avenue & SR-60 WB Ramps (#56) – LOS F PM peak hour only
- Archibald Avenue & Limonite Avenue (#64) – LOS E AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#70) – LOS F PM peak hour only

1.4.2 E+P (PHASE 1) CONDITIONS

The following additional study area intersections are anticipated to operate at an unacceptable LOS, in addition to those identified for Existing traffic conditions:

- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E PM peak hour only
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS E AM and PM peak hours

EXHIBIT 1-3 (1OF3): SUMMARY OF DEFICIENT INTERSECTIONS BY ANALYSIS SCENARIO

#	Intersection	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	Opening Year Cumulative(2024) Without Project	Opening Year Cumulative(2024) With Project (Phase 1)	Opening Year Cumulative(2024) With Project (Project Buildout)	Horizon Year (2040) Without Project	Horizon Year (2040) With Project
1	SR-71 SB Ramps & Grand Av.								
2	SR-71 SB Ramps & Butterfield Ranch Rd.								
3	SR-71 NB Ramps & Edison Av.								
4	SR-71 NB Ramps & Euclid Av. (SR-83)								
5	Pipeline Av. & Edison Av.								
6	Ramona Av. & Edison Av.								
7	Central Av. & Edison Av.								
8	Mountain Av. & Edison Av.								
9	San Antonio Av. & Edison Av.								
10	Euclid Av. (SR-83) & SR-60 WB Ramps								
11	Euclid Av. (SR-83) & SR-60 EB Ramps								
12	Euclid Av. (SR-83) & Walnut Av.								
13	Euclid Av. (SR-83) & Riverside Dr.								
14	Euclid Av. (SR-83) & Chino Av.								
15	Euclid Av. (SR-83) & Schaefer Av.								
16	Euclid Av. (SR-83) & Edison Av.								
17	Euclid Av. (SR-83) & Eucalyptus Av.								
18	Euclid Av. (SR-83) & Merrill Av.								
19	Euclid Av. (SR-83) & Kimball Av.								
20	Euclid Av. (SR-83) & Bickmore Av.								
21	Euclid Av. (SR-83) & Pine Av.								
22	Campus Av. & Eucalyptus Av.	NA	NA		NA	NA		NA	
23	Campus Av. & Merrill Av.	NA	NA		NA	NA		NA	
24	Bon View Av. & Edison Av.								
25	Bon View Av. & Eucalyptus Av.								

LEGEND:

= AM PEAK HOUR
= PM PEAK HOUR
= ACCEPTABLE LOS A-E
= DEFICIENT LOS E
= DEFICIENT LOS F
NA = NOT AN ANALYSIS LOCATION FOR THIS SCENARIO

EXHIBIT 1-3 (2OF3): SUMMARY OF DEFICIENT INTERSECTIONS BY ANALYSIS SCENARIO

		Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	Opening Year Cumulative(2024) Without Project	Opening Year Cumulative(2024) With Project (Phase 1)	Opening Year Cumulative(2024) With Project (Project Buildout)	Horizon Year (2040) Without Project	Horizon Year (2040) With Project
26	Bon View Av. & Dwy. 1	NA			NA			NA	
27	Bon View Av. & Dwy. 2	NA			NA			NA	
28	Bon View Av. & Merrill Av.								
29	Dwy. 3 & Merrill Av.	NA			NA			NA	
30	Dwy. 4 & Eucalyptus Av.	NA			NA			NA	
31	Dwy. 5 & Merrill Av.	NA			NA			NA	
32	Dwy. 6 & Eucalyptus Av.	NA			NA			NA	
33	Dwy. 7 & Merrill Av.	NA			NA			NA	
34	Dwy. 8 & Eucalyptus Av.	NA			NA			NA	
35	Dwy. 9 & Eucalyptus Av.	NA			NA			NA	
36	Grove Av. & SR-60 WB Ramps								
37	Grove Av. & SR-60 EB Ramps								
38	Grove Av. & Walnut Av.								
39	Grove Av. & Riverside Dr.								
40	Grove Av. & Chino Av.								
41	Grove Av. & Schaefer Av.								
42	Grove Av. & Edison Av.								
43	Grove Av. & Eucalyptus Av.								
44	Grove Av. & Dwy. 10	NA			NA			NA	
45	Grove Av. & Dwy. 11	NA			NA			NA	
46	Grove Av. & Dwy. 12	NA			NA			NA	
47	Grove Av. & Merrill Av.								
48	Walker Av. & Edison Av.								
49	Walker Av./Flight Av. & Merrill Av.								
50	Baker Av./Van Vliet Av. & Merrill Av.								

LEGEND:

= AM PEAK HOUR
= PM PEAK HOUR
= ACCEPTABLE LOS A-E
= DEFICIENT LOS E
= DEFICIENT LOS F
NA = NOT AN ANALYSIS LOCATION FOR THIS SCENARIO

EXHIBIT 1-3 (3OF3): SUMMARY OF DEFICIENT INTERSECTIONS BY ANALYSIS SCENARIO

#	Intersection	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	Opening Year Cumulative(2024) Without Project	Opening Year Cumulative(2024) With Project (Phase 1)	Opening Year Cumulative(2024) With Project (Project Buildout)	Horizon Year (2040) Without Project	Horizon Year (2040) With Project
51	Vineyard Av. & Edison Av.	NA	NA	NA	NA	NA	NA		
52	Vineyard Av./Hellman Av. & Merrill Av.								
53	Hellman Av. & Kimball Av.								
54	Carpenter Av. & Merrill Av.								
55	Hellman Av. & Edison Av.	NA	NA	NA	NA	NA	NA		
56	Archibald Av. & SR-60 WB Ramps								
57	Archibald Av. & SR-60 EB Ramps								
58	Archibald Av. & Riverside Dr.								
59	Archibald Av. & Chino Av.								
60	Archibald Av. & Schaefer Av.								
61	Archibald Av. & Ontario Ranch Rd.								
62	Archibald Av. & Eucalyptus Av.								
63	Archibald Av. & Merrill Av.								
64	Archibald Av. & Limonite Av.								
65	Turner Av. & Ontario Ranch Rd.								
66	Harrison Av. & Limonite Av.								
67	Haven Av. & Ontario Ranch Rd.								
68	Sumner Av. & Limonite Av.								
69	Scholar Wy. & Limonite Av.								
70	Hamner Av. & Ontario Ranch Rd.								
71	Hamner Av. & Limonite Av.								
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.								
73	I-15 SB Ramps & Limonite Av.								
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.								
75	I-15 NB Ramps & Limonite Av.								

LEGEND:

= AM PEAK HOUR
= PM PEAK HOUR
= ACCEPTABLE LOS A-E
= DEFICIENT LOS E
= DEFICIENT LOS F
NA = NOT AN ANALYSIS LOCATION FOR THIS SCENARIO

1.4.3 E+P (PROJECT BUILDOUT) CONDITIONS

The following additional study area intersections are anticipated to operate at an unacceptable LOS, in addition to those identified for Existing traffic conditions:

- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS E PM peak hour only
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E PM peak hour only
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Merrill Avenue (#28) – LOS F PM peak hour only
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours

1.4.4 OPENING YEAR CUMULATIVE (2024) CONDITIONS

The following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) Without Project traffic conditions:

- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Kimball Avenue (#19) – LOS E PM peak hour only
- Euclid Avenue (SR-83) & Pine Avenue (#21) – LOS F PM peak hour only
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Merrill Avenue (#28) – LOS F PM peak hour only
- Grove Avenue & SR-60 EB Ramps (#37) – LOS E AM peak hour only
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F PM peak hour only
- Grove Avenue & Merrill Avenue (#47) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#48) – LOS F AM and PM peak hours
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Archibald Avenue & Ontario Ranch Road (#61) – LOS F AM peak hour only
- Archibald Avenue & Merrill Avenue (#63) — LOS F PM peak hour only
- Archibald Avenue & Limonite Avenue (#56) – LOS F AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#63) – LOS E AM peak hour; LOS F PM peak hour

The following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) With Project traffic conditions with the addition of Phase 1 Project traffic, in addition to the locations identified above for Opening Year Cumulative (2024) Without Project traffic conditions.

- Grove Avenue & Riverside Drive (#39) – LOS F PM peak hour only
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours

The following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) With Project (Project Buildout) traffic conditions with the addition of Project Buildout traffic, in addition to the locations identified above for Opening Year Cumulative (2024) Without Project traffic conditions.

- Campus Avenue & Merrill Avenue (#23) – LOS F PM peak hour only
- Grove Avenue & Riverside Drive (#39) – LOS F PM peak hour only
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours

1.4.5 HORIZON YEAR (2040) CONDITIONS

The following additional study area intersections are anticipated to operate at an unacceptable LOS under Horizon Year (2040) Without Project traffic conditions:

- SR-71 Southbound Ramps & Grand Avenue (#1) – LOS E PM peak hour only
- SR-71 Southbound Ramps & Butterfield Ranch Road (#2) – LOS E AM and PM peak hours
- SR-71 Northbound Ramps & Edison Avenue (#3) – LOS F AM peak hour only
- Central Avenue & Edison Avenue (#7) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & SR-60 Westbound Ramps (#10) –LOS E AM and PM peak hours
- Euclid Avenue (SR-83) & SR-60 Eastbound Ramps (#11) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Chino Avenue (#14) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Schaefer Avenue (#15) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Eucalyptus Avenue (#17) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Kimball Avenue (#19) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Bickmore Avenue (#20) – LOS E AM and PM peak hours
- Euclid Avenue (SR-83) & Pine Avenue (#21) – LOS F AM and PM peak hours
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Eucalyptus Avenue (#25) – LOS F PM peak hour only
- Bon View Avenue & Merrill Avenue (#28) – LOS F AM and PM peak hours

- Grove Avenue & SR-60 Westbound Ramps (#36) – LOS E AM peak hour only
- Grove Avenue & SR-60 Eastbound Ramps (#37) – LOS F AM and PM peak hours
- Grove Avenue & Riverside Drive (#39) – LOS F AM and PM peak hours
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F AM and PM peak hours
- Grove Avenue & Merrill Avenue (#47) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#48) – LOS F AM and PM peak hours
- Walker Avenue & Eucalyptus Avenue (#37) – LOS F AM and PM peak hours
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours
- Van Vliet Avenue/Baker Avenue & Merrill Avenue (#50) – LOS F PM peak hour only
- Vineyard Avenue & Edison Avenue (#51) – LOS F PM peak hour only
- Vineyard Avenue/Hellman Avenue & Merrill Avenue (#52) – LOS F AM and PM peak hours
- Hellman Avenue & Kimball Avenue (#53) – LOS F PM peak hour only
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Hellman Avenue & Edison Avenue (#55) – LOS F PM peak hour only
- Archibald Avenue & Riverside Drive (#58) – LOS F AM and PM peak hours
- Archibald Avenue & Schaefer Avenue (#60) – LOS F PM peak hour only
- Archibald Avenue & Ontario Ranch Road (#61) – LOS F AM and PM peak hours
- Archibald Avenue & Eucalyptus Avenue (#62) – LOS F AM and PM peak hours
- Archibald Avenue & Merrill Avenue (#63) – LOS F AM and PM peak hours
- Archibald Avenue & Limonite Avenue (#64) – LOS F AM and PM peak hours
- Turner Avenue & Ontario Ranch Road (#65) – LOS F AM and PM peak hours
- Haven Avenue & Ontario Ranch Road (#67) – LOS F AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#70) – LOS F AM and PM peak hours

The following study area intersection is anticipated to operate at a deficient LOS during one or both peak hours for Horizon Year (2040) With Project traffic conditions with the addition of Project traffic, in addition to the locations identified above for Horizon Year (2040) Without Project traffic conditions.

- Campus Avenue & Eucalyptus Avenue (#22) – LOS F PM peak hour only
- Campus Avenue & Merrill Avenue (#23) – LOS F AM and PM peak hours

1.5 RECOMMENDATIONS

1.5.1 SITE ACCESS AND SITE ADJACENT ROADWAY RECOMMENDATIONS

The following recommendations are based on the improvements needed to accommodate site access. Exhibit 1-4 shows the site adjacent recommendations for Phase 1 and Exhibit 1-5 shows the Phase 2 off-site improvement recommendations.

Phase 1 Conditions:

Recommendation 1 – ***Bon View Avenue & Driveway 1 (#26)*** – The following improvement is necessary to accommodate site access:

- Project to install a stop control on the westbound approach and a shared left-right turn lane.

Recommendation 2 – ***Bon View Avenue & Driveway 2 (#27)*** – The following improvement is necessary to accommodate site access:

- Project to install a stop control on the westbound approach and a right turn lane.

Recommendation 3 – ***Bon View Avenue & Merrill Avenue (#28)*** – The following improvement is necessary to accommodate site access:

- Project to construct a westbound right turn lane.

Recommendation 4 – ***Driveway 3 & Merrill Avenue (#29)*** – The following improvement is necessary to accommodate site access:

- Project to install a stop control on the southbound approach and a right turn lane.
- Project to construct a westbound shared through-right turn lane.

Recommendation 5 – ***Driveway 4 & Eucalyptus Avenue (#30)*** – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the northbound approach and a shared left-right turn lane.
- Project to construct an eastbound shared through-right turn lane.

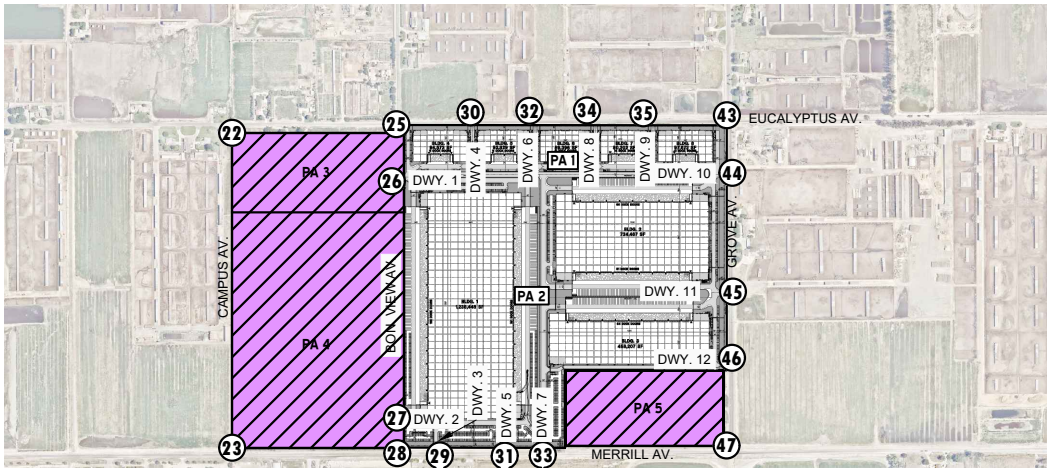
Recommendation 6 – ***Driveway 5 & Merrill Avenue (#31)*** – The following improvement is necessary to accommodate site access:

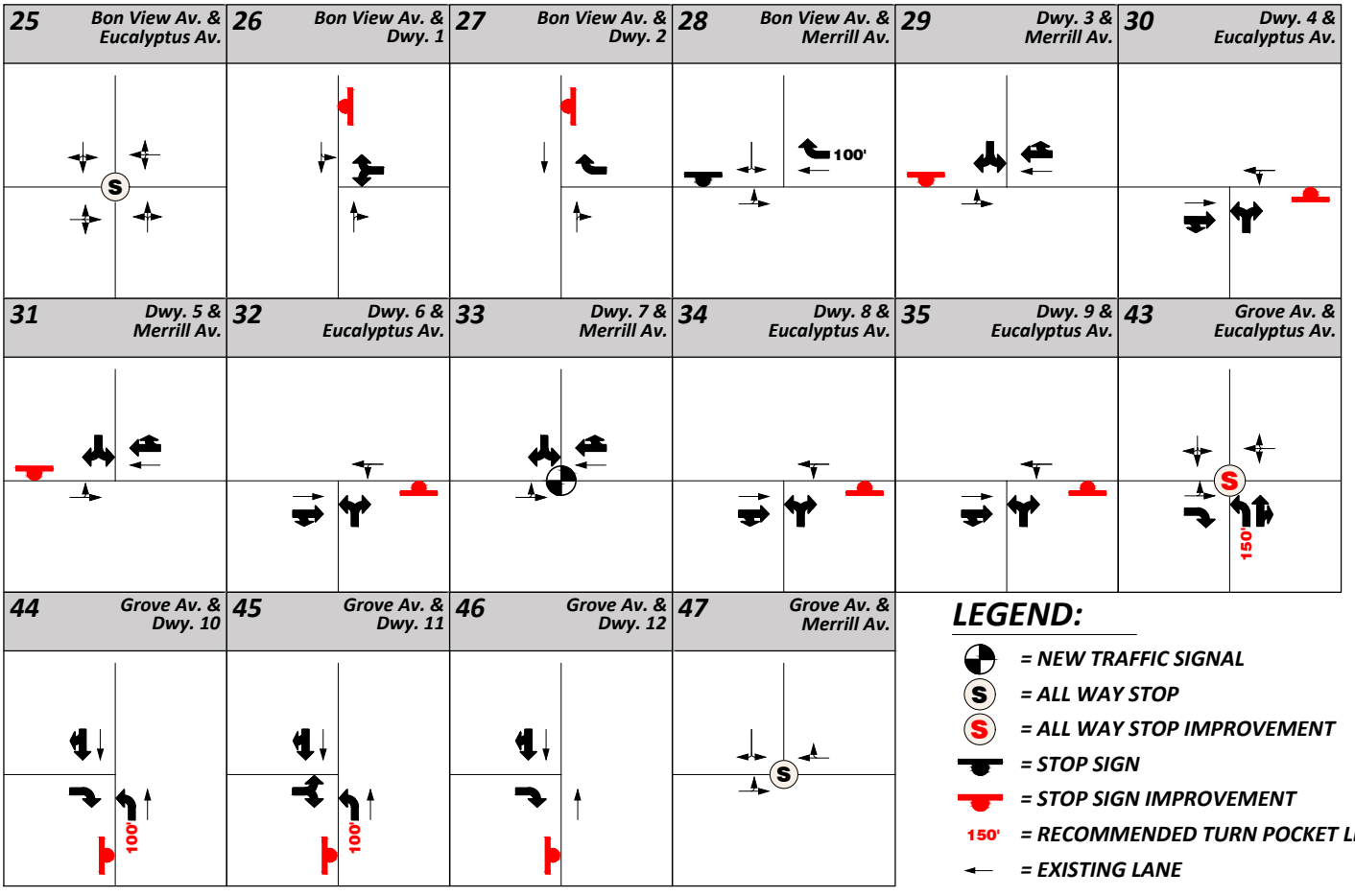
- Project to install a stop control on the southbound approach and a right turn lane.
- Project to construct a westbound shared through-right turn lane.

Recommendation 7 – ***Driveway 6 & Eucalyptus Avenue (#32)*** – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the northbound approach and a right turn lane.
- Project to construct an eastbound shared through-right turn lane.

EXHIBIT 1-4: SITE ADJACENT ROADWAY AND SITE ACCESS RECOMMENDATIONS (PHASE 1)





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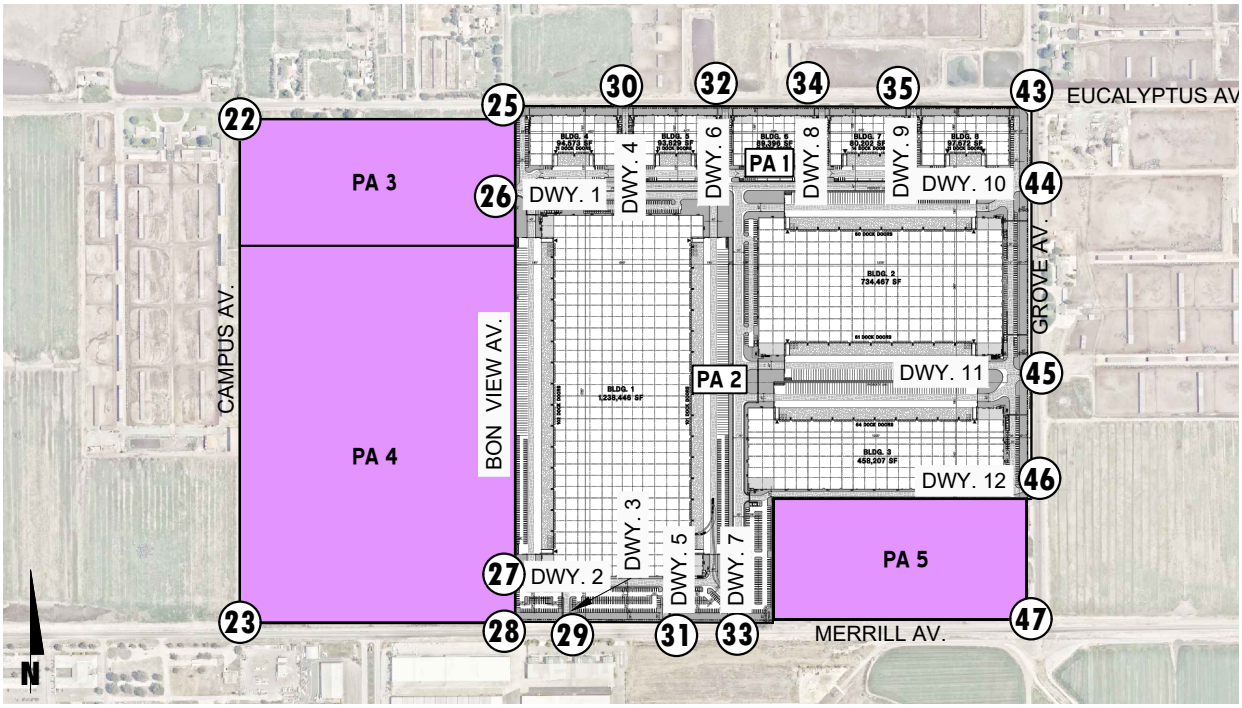
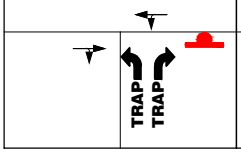
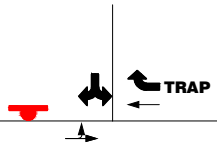
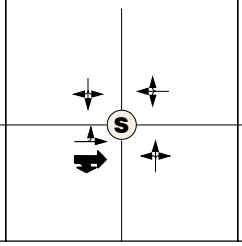
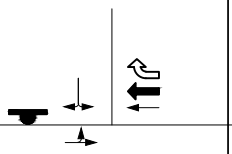
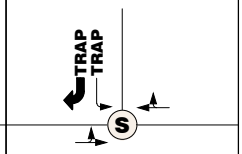
URBAN CROSSROADS

EXHIBIT 1-5: SITE ADJACENT ROADWAY AND SITE ACCESS RECOMMENDATIONS (PHASE 2)



22 Campus Av. & Eucalyptus Av.	23 Campus Av. & Merrill Av.	25 Bon View Av. & Eucalyptus Av.	28 Bon View Av. & Merrill Av.	47 Grove Av. & Merrill Av.
				

LEGEND:

- (S) = *ALL WAY STOP*
- = *STOP SIGN*
- = *STOP SIGN IMPROVEMENT*
- **TRAP** = *TRAP LANE*
- = *EXISTING LANE*
- = *LANE IMPROVEMENT*
- = *PREVIOUS PHASE IMPROVEMENT*

Recommendation 8 – ***Driveway 7 & Merrill Avenue (#33)*** – The following improvement is necessary to accommodate site access:

- Project to install a stop control on the southbound approach and a shared left-right turn lane.
- Project to construct a westbound shared through-right turn lane.

Recommendation 9 – ***Driveway 8 & Eucalyptus Avenue (#34)*** – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the northbound approach and a right turn lane.
- Project to construct an eastbound shared through-right turn lane.

Recommendation 10 – ***Driveway 9 & Eucalyptus Avenue (#35)*** – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the northbound approach and a shared left-right lane.
- Project to construct an eastbound shared through-right turn lane.

Recommendation 11 – ***Grove Avenue & Eucalyptus Avenue (#43)*** – The following improvements are recommended:

- Project to install stop signs on the northbound and southbound approaches, converting the intersection to an all-way stop controlled intersection.
- Project to construct an eastbound right turn lane.

Recommendation 12 – ***Grove Avenue & Driveway 10 (#44)*** – The following improvements are necessary to accommodate site access:

- Project to construct a southbound shared through-right turn lane.
- Project to install a stop control on the eastbound approach and a right turn lane.

Recommendation 13 – ***Grove Avenue & Driveway 11 (#45)*** – The following improvements are necessary to accommodate site access:

- Project to construct a southbound shared through-right turn lane.
- Project to install a stop control on the eastbound approach and a shared left-right turn lane.

Recommendation 14 – ***Grove Avenue & Driveway 12 (#46)*** – The following improvements are necessary to accommodate site access:

- Project to construct a southbound shared through-right turn lane.
- Project to install a stop control on the eastbound approach and a right turn lane.

There are no recommended improvements to the intersections of Bon View Avenue & Eucalyptus Avenue (#25) and Grove Avenue & Merrill Avenue (#47) for Phase 1.

Recommendation 15 – ***Merrill Avenue*** – Merrill Avenue is an east-west oriented roadway located along the Project's southern boundary. Project to construct Merrill Avenue from Bon View Avenue to the western boundary of PA5 at its ultimate half-section width as a 4-lane collector (108-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

Recommendation 16 – ***Eucalyptus Avenue*** – Eucalyptus Avenue is an east-west oriented roadway located along the Project's northern boundary. Project to construct Eucalyptus Avenue from Bon View Avenue to Grove Avenue at its ultimate half-section width as a 4-lane collector (108-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

Recommendation 17 – ***Grove Avenue*** – Grove Avenue is a north-south oriented roadway located along the Project's eastern boundary. Project to construct Grove Avenue from the northern boundary of PA5 to Eucalyptus Avenue at its ultimate half-section width as a 4-lane other principal arterial (124-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

Recommendation 18 – ***Bon View Avenue*** – Bon View Avenue is a north-south oriented roadway that bisects the Project. Project to construct Eucalyptus Avenue from Merrill Avenue to Eucalyptus Avenue at its ultimate half-section (east side) width as a 4-lane collector (66-foot ultimate right-of-way, 40-foot curb-to-curb with 13-foot parkway) plus one lane (southbound) in compliance with the circulation recommendations found in City of Ontario General Plan.

Phase 2 Conditions:

Recommendation 19 – Campus Avenue & Eucalyptus Avenue (#22) – The following improvements are recommended to accommodate site access:

- Project to install a stop control on the northbound approach, a left turn lane, and a right turn lane.

Recommendation 20 – ***Campus Avenue & Merrill Avenue (#23)*** – The following improvements are recommended to accommodate site access:

- Project to install a stop control on the southbound approach and a shared left-right turn lane.
- Project to construct a westbound right turn lane.

Recommendation 21 – Bon View Avenue & Eucalyptus Avenue (#25) – The following improvement is recommended to accommodate site access:

- Project to construct an eastbound shared through-right turn lane.

Recommendation 22 – ***Grove Avenue & Merrill Avenue (#47)*** – The following improvement is recommended to accommodate site access:

- Project to construct a southbound right turn lane.

Recommendation 23 – ***Merrill Avenue*** – Merrill Avenue is an east-west oriented roadway located along the Project's southern boundary. Project to construct Merrill Avenue from Campus Avenue to Bon View Avenue and from the western boundary of PA5 to Grove Avenue at its ultimate half-section width as a 4-lane collector (108-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

Recommendation 24 – ***Eucalyptus Avenue*** – Eucalyptus Avenue is an east-west oriented roadway located along the Project's northern boundary. Project to construct Eucalyptus Avenue from Bon View Avenue to Campus Avenue at its ultimate half-section width as a 4-lane collector (108-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

Recommendation 25 – ***Bon View Avenue*** – Bon View Avenue is a north-south oriented roadway that bisects the Project. Project to construct Bon View Avenue from Merrill Avenue to Eucalyptus Avenue at its ultimate half-section (west side) width as a 4-lane collector (66-foot ultimate right-of-way, 40-foot curb-to-curb with 13-foot parkway) in compliance with the circulation recommendations found in City of Ontario General Plan.

Recommendation 26 – ***Campus Avenue*** – Campus Avenue is a north-south oriented roadway located on the Project's western boundary. Project to construct Campus Avenue from Merrill Avenue to Eucalyptus Avenue at its ultimate half-section width as a 4-lane minor arterial (108-foot ultimate right-of-way) plus one lane (southbound) in compliance with the circulation recommendations found in City of Ontario General Plan.

Recommendation 27 – ***Grove Avenue*** – Grove Avenue is a north-south oriented roadway located along the Project's eastern boundary. Project to construct Grove Avenue from Merrill Avenue to the northern boundary of PA5 at its ultimate half-section width as a 4-lane other principal arterial (124-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

On-site traffic signing and striping should be implemented agreeable with the provisions of the California Department of Transportation (Caltrans) California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed construction plans for the Project site.

Sight distance at each project access point should be reviewed with respect to standard Caltrans and City of Ontario sight distance standards at the time of preparation of final grading, landscape, and street improvement plans.

1.5.2 OFF-SITE RECOMMENDATIONS

The recommended improvements needed to address the cumulative deficiencies identified under Existing (2021), Opening Year Cumulative (2024), and Horizon Year (2040) traffic conditions are summarized in Table 1-2. For those improvements listed in Table 1-2 and not constructed as part of the Project, the Project Applicant's responsibility for the Project's contributions towards deficient intersections is fulfilled through payment of fees (e.g., DIF) or fair share that would be assigned to construction of the identified recommended improvements. Please refer to Section 8 *Local and Regional Funding Mechanisms*.

Table 1-2 also summarizes the applicable cost associated with each of the recommended improvements based on the preliminary construction cost estimates found in Appendix G of the San Bernardino County CMP in conjunction with a cost escalation factor of 1.568 to reflect current (2021) costs. A rough order of magnitude cost has been prepared to determine the appropriate contribution value based upon the Project's fair share of traffic as part of the project approval process. Based on the Project fair share percentages, the Project's fair share cost is estimated at $1,869,943. These estimates are a rough order of magnitude only as they are intended only for disclosure purposes and do not imply any legal responsibility or formula for contributions or mitigation.

Recommendation 28 – Prior to the issuance of building permits, the Project Applicant shall pay the Project's fair share amount of $1,869,943 for the improvements identified in Table 1-2 at intersections located within the City of Ontario, or as agreed to by the City and Project Applicant.

1.6 TRUCK ACCESS

Due to the typical wide turning radius of large trucks, a truck turning template has been overlaid on the site plan at each applicable Project driveway anticipated to be utilized by heavy trucks in order to determine appropriate curb radii and to verify that trucks will have sufficient space to execute turning maneuvers (see Exhibit 1-6). A WB-67 (53-foot trailer) has been utilized for the purposes of this analysis. As shown on Exhibit 1-6, the following change is necessary in order to accommodate the wide turning radius of the heavy trucks:

- Driveway 1 should be modified to provide a 50-foot curb radius on the northeast and southeast corners and to widen the drive aisle to 60-feet.

Table 1-2

Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?[1]	DIF Project #	Project Responsibility[6]	Total Cost[2,3,4]	Fair Share %[4]	Fair Share Cost[5]
1	SR-71 SB Ramps & Grand Av.	Chino Hills, Caltrans	None	None	None	None	None	None	Modify the traffic signal to accommodate a 120-second cycle length	Same	No		Fair Share	$11,760	4.9%	$574
													Total	**$11,760**		**$574**
2	SR-71 SB Ramps & Butterfield Ranch Rd.	Chino Hills, Caltrans	None	None	None	None	None	None	Widen the SB approach to provide dual left turn lanes, one through/right turn lane, and one right turn lane	Same	No		Fair Share	$548,800	1.5%	$8,018
													Total	**$548,800**		**$8,018**
3	SR-71 NB Ramps & Edison Av.	Chino, Caltrans	None	None	None	None	None	None	Modify the traffic signal to accommodate a 120-second cycle length	Same	No		Fair Share	$11,760	5.2%	$612
													Total	**$11,760**		**$612**
7	Central Av. & Edison Av.	Chino	None	None	None	None	None	None	Stripe the 2nd EB left turn lane	Same	No		Fair Share	$39,200	5.0%	$1,961
									Add EB right turn lane	Same	No		Fair Share	$78,400		$3,922
									Modify the traffic signal to implement overlap phasing for the NB right turn lane	Same	No		Fair Share	$117,600		$5,883
													Total	**$235,200**		**$11,765**
10	Euclid Av. (SR-83) & SR-60 WB Ramps	Ontario, Caltrans	None	None	None	None	None	None	Add 2nd NB left turn lane	Same	Yes	ST-107	Fees	$0	--	$0
													Total	**$0**		**$0**
11	Euclid Av. (SR-83) & SR-60 EB Ramps	Ontario, Caltrans	None	None	None	None	None	None	Add EB right turn lane	Same	Yes	ST-107	Fees	$0	--	$0
									Add 2nd SB left turn lane	Same	Yes	ST-107	Fees	$0		$0
													Total	**$0**		**$0**
13	Euclid Av. (SR-83) & Riverside Dr.	Caltrans, Chino, Ontario	EB right turn lane	Same	Same	Same		Same	Same	Same	No		Fair Share	$78,400	5.1%	$3,967
					Restripe the northbound approach to provide a left turn lane, two through lanes, and one shared through-right turn lane	Same		Same	Same	Same	Yes	ST-012	Construct	$0		$0
						Add 3rd SB through lane	Same	Same	Same	Same	No		Fair Share	$282,240		$14,281
						Add 2nd EB through lane	Same	Same	Same	Same	No		Fair Share	$282,240		$14,281
									Add 2nd NB left turn lane	Same	No		Fair Share	$78,400		$3,967
									Add 2nd SB left turn lane	Same	No		Fair Share	$78,400		$3,967
									Add NB right turn lane	Same	No		Fair Share	$78,400		$3,967
													Total	**$878,080**		**$44,430**
14	Euclid Av. (SR-83) & Chino Av.	Caltrans, Chino, Ontario	None	None	None	None	None	None	Add 3rd NB through lane	Same	Yes	ST-012	Fees	$0	6.2%	$0
									Add 3rd SB through lane	Same	Yes	ST-012	Fees	$0		$0
									Add WB left turn lane	Same	No		Fair Share	$78,400		$4,848
													Total	**$78,400**		**$4,848**
15	Euclid Av. (SR-83) & Schaefer Av.	Caltrans, Chino, Ontario	None	None	None	None	None	None	Add 3rd NB through lane	Same	Yes	ST-012	Fees	$0	5.3%	$0
									Add 3rd SB through lane	Same	Yes	ST-012	Fees	$0		$0
									Add 2nd NB left turn lane	Same	No		Fair Share	$78,400		$4,175
									Add 2nd SB left turn lane	Same	No		Fair Share	$78,400		$4,175
									Add 2nd EB left turn lane	Same	No		Fair Share	$78,400		$4,175
												Total	**Total**	**$235,200**		**$12,524**

Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?[1]	DIF Project #	Project Responsibility[6]	Total Cost[2,3,4]	Fair Share %[4]	Fair Share Cost[5]
16	Euclid Av. (SR-83) & Edison Av.	Caltrans, Chino, Ontario	None	None	Add WB right turn lane	Same	Same	Same	Same	Same	No		Construct	$0	6.2%	$0
						Add 3rd NB through lane	Same	Same	Same	Same	Yes	ST-012	Fees	$0		$0
						Add 3rd SB through lane	Same	Same	Same	Same	Yes	ST-012	Fees	$0		$0
									Add 2nd NB left turn lane	Same	No		Fair Share	$78,400		$4,867
									Add 2nd SB left turn lane	Same	No		Fair Share	$78,400		$4,867
									Add 2nd EB left turn lane	Same	No		Fair Share	$78,400		$4,867
									Add 2nd EB through lane	Same	No		Fair Share	$282,240		$17,523
									Add 3rd EB through lane	Same	No		Fair Share	$282,240		$17,523
									Add 2nd WB left turn lane	Same	No		Fair Share	$78,400		$4,867
									Add 2nd WB through lane	Same	Yes	ST-007	Fees	$0		$0
									Modify the traffic signal to protect the eastbound and westbound left turns, and implement overlap phasing for the southbound and westbound right turn lanes	Same	No		Fair Share	$117,600		$7,301
													Total	**$995,680**		**$61,817**
17	Euclid Av. (SR-83) & Eucalyptus Av.	Caltrans, Chino, Ontario	None	None	None	None	None	None	Add 3rd NB through lane	Same	Yes	ST-012	Fees	$0	2.7%	$0
									Add 3rd SB through lane	Same	Yes	ST-012	Fees	$0		$0
									Add 2nd WB left turn lane	Same	No		Fair Share	$78,400		$2,141
									Add WB right turn lane	Same	No		Fair Share	$78,400		$2,141
												Total	**Total**	**$156,800**		**$4,283**
18	Euclid Av. (SR-83) & Merrill Av.	Caltrans, Chino, Ontario	None	Add WB left turn lane	Same	Same	Same	Same	Same	Same	No		Construct	$0	5.5%	$0
				Add WB right turn lane	Same	Same	Same	Same	Same	Same	No		Construct	$0		$0
				Modify the traffic signal to implement overlap phasing for the WB right turn lane	Same	Same	Same	Same	Same	Same	No		Construct	$0		$0
						Add 3rd NB through lane	Same	Same	Same	Same	No		Fair Share	$282,240		$15,449
						Add 3rd SB through lane	Same	Same	Same	Same	Yes	ST-012	Fees	$0		$0
									Add EB left turn lane	Same	No		Fair Share	$78,400		$4,291
									Add 2nd WB left turn lane	Same	No		Fair Share	$78,400		$4,291
									Modify the traffic signal to implement overlap phasing for the NB right turn lane	Same	No		Fair Share	$117,600		$6,437
													Total	**$556,640**		**$30,469**
19	Euclid Av. (SR-83) & Kimball Av.	Caltrans, Chino	None	None	None	Add 3rd NB through lane	Same	Same	Same	Same	No		Fair Share	$282,240	4.0%	$11,150
						Add 3rd SB through lane	Same	Same	Same	Same	No		Fair Share	$282,240		$11,150
									Add 2nd WB left turn lane	Same	No		Fair Share	$78,400		$3,097
									Add EB right turn lane	Same	No		Fair Share	$78,400		$3,097
									Add WB right turn lane	Same	No		Fair Share	$78,400		$3,097
									Modify the traffic signal to implement overlap phasing for the WB right turn lane	Same	No		Fair Share	$117,600		$4,646
													Total	**$917,280**		**$36,237**
20	Euclid Av. (SR-83) & Bickmore Av.	Caltrans, Chino	None	None	None	None	None	None	Add 3rd NB through lane	Same	No		Fair Share	$282,240	4.7%	$13,256
									Add 3rd SB through lane	Same	No		Fair Share	$282,240		$13,256
													Total	**$564,480**		**$26,512**

Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?[1]	DIF Project #	Project Responsibility[6]	Total Cost[2,3,4]	Fair Share %[4]	Fair Share Cost[5]
21	Euclid Av. (SR-83) & Pine Av.	Caltrans, Chino	None	None	None	Add NB free right turn lane	Same	Same	Same	Same	No		Fair Share	$117,600	4.5%	$5,293
						Add 3rd NB through lane	Same	Same	Same	Same	No		Fair Share	$282,240		$12,703
						Add 3rd SB through lane	Same	Same	Same	Same	No		Fair Share	$282,240		$12,703
						Add 2nd EB through lane	Same	Same	Same	Same	No		Fair Share	$282,240		$12,703
									Add 2nd NB left turn lane	Same	No		Fair Share	$78,400		$3,529
									Add 2nd SB left turn lane	Same	No		Fair Share	$78,400		$3,529
									Add SB right turn lane	Same	No		Fair Share	$78,400		$3,529
									Add 2nd WB through lane	Same	No		Fair Share	$282,240		$12,703
									Add WB right turn lane	Same	No		Fair Share	$78,400		$3,529
													Total	**$1,560,160**		**$70,218**
22	Campus Av. & Eucalyptus Av.	Ontario	None	None	None	None	None	Install Stop Control on NB Approach	Install a Traffic Signal	Same	No		Fair Share	$250,000	**9.6%**	$24,010
								Add NB left turn lane	Same	Same	No		Fair Share	$78,400		$7,529
								Add NB right turn lane	Same	Same	No		Fair Share	$78,400		$7,529
								Add WB left turn lane	Same	Same	No		Fair Share	$78,400		$7,529
									Add 2nd EB through lane	Same	Yes	ST-011	Fees	$0		$0
									Add 2nd WB through lane	Same	Yes	ST-011	Fees	$0		$0
													Total	**$485,200**		**$46,598**
23	Campus Av. & Merrill Av.	Ontario, Chino	None	None	None	None	None	Install a Traffic Signal	Same	Same	No		Fair Share	$250,000	**12.3%**	$30,681
								Add SB left-right turn lane	Same	Same	No		Fair Share	$78,400		$9,622
								Add EB left turn lane	Same	Same	No		Fair Share	$78,400		$9,622
									Add SB left turn lane	Same	No		Fair Share	$78,400		$9,622
									Add 2nd WB through lane	Same	Yes	ST-015	Fees	$0		$0
									Add 2nd EB through lane	Same	No		Fair Share	$282,240		$34,638
													Total	**$767,440**		**$94,183**
24	Bon View Av. & Edison Av.	Ontario	None	None	Install a Traffic Signal	Same	Same	Same	Same	Same	No		Construct	$0	4.6%	$0
									Add NB left turn lane	Same	No		Fair Share	$78,400		$78,400
									Add SB left turn lane	Same	No		Fair Share	$78,400		$3,627
									Add EB left turn lane	Same	No		Fair Share	$78,400		$3,627
									Add 2nd EB through lane	Same	Yes	ST-007	Fees	$0		$0
									Add 3rd EB through lane	Same	Yes	ST-007	Fees	$0		$0
									Add WB left turn lane	Same	No		Fair Share	$78,400		$3,627
									Add 2nd WB through lane	Same	Yes	ST-007	Fees	$0		$0
									Add 3rd WB through lane	Same	Yes	ST-007	Fees	$0		$0
													Total	**$313,600**		**$89,280**
25	Bon View Av. & Eucalyptus Av.	Ontario	None	None	None	None	None	None	Install a Traffic Signal	Same	No		Fair Share	$250,000	23.6%	$59,022
									Add EB left turn lane	Same	No		Fair Share	$78,400		$18,509
									Add WB left turn lane	Same	No		Fair Share	$78,400		$18,509
									Add 2nd EB through lane	Same	No		Fair Share	$282,240		$66,633
													Total	**$689,040**		**$162,673**
28	Bon View Av. & Merrill Av.	Ontario, Chino	None	None	Install a Traffic Signal	Same	Same	Same	Same	Same	No		Construct	$0	16.4%	$0
					Add EB left turn lane	Same	Same	Same	Same	Same	No		Fair Share	$78,400		$12,878
					WB right turn lane	Same	Same	Same	Same	Same	No		Construct	$0		$0
						Add 2nd WB through lane	Same	Same	Same	Same	Yes	ST-015	Construct	$0		$0
									Add 2nd EB through lane	Same	No		Fair Share	$282,240		$46,362
													Total	**$360,640**		**$59,240**

Table 1-2
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Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?[1]	DIF Project #	Project Responsibility[6]	Total Cost[2,3,4]	Fair Share %[4]	Fair Share Cost[5]
36	Grove Av. & SR-60 WB Ramps	Ontario, Caltrans	None	None	None	None	None	None	Add 2nd NB left turn lane	Same	No		Fair Share	$627,200	4.4%	$27,526
													Total	**$627,200**		**$27,526**
37	Grove Av. & SR-60 EB Ramps	Ontario, Caltrans	Add EB left turn lane	Same	Same	Same	Same	Same	Same	Same	No		Fair Share	$548,800	6.9%	$37,920
									Add 2nd SB left turn lane	Same	No		Fair Share	$627,200		$43,337
													Total	**$1,176,000**		**$81,256**
39	Grove Av. & Riverside Dr.	Ontario	None	None	None	None	Add 2nd NB through lane	Same	Add 2nd NB through lane	Same	Yes	ST-013	Fees	$0	6.1%	$0
							Restripe the SB approach to provide one left turn lane, one through lane, one shared through-right turn lane	Same	Same	Same	No		Fees	$0		$0
									Add 2nd EB through lane	Same	Yes	ST-019	Fair Share	$282,240		$17,153
									Add 2nd NB through lane	Same	Yes		Fair Share	$282,240		$17,153
													Total	**$564,480**		**$34,305**
40	Grove Av. & Chino Av.	Ontario	None	None	None	None	Install a Traffic Signal	Same	Install a Traffic Signal	Same	No		Fair Share	$250,000	7.0%	$17,405
									Add NB left turn lane	Same	No		Fair Share	$78,400		$5,458
									Add 2nd NB through lane	Same	Yes	ST-013	Fees	$0		$0
									Add SB left turn lane	Same	No		Fair Share	$78,400		$5,458
									Add 2nd SB through lane	Same	Yes	ST-013	Fees	$0		$0
									Add EB left turn lane	Same	No		Fair Share	$78,400		$5,458
									Add WB left turn lane	Same	No		Fair Share	$78,400		$5,458
													Total	**$563,600**		**$39,238**
41	Grove Av. & Schaefer Av.	Ontario	None	None	None	None	Install a Traffic Signal	Same	Install a Traffic Signal	Same	No		Fair Share	$250,000	7.3%	$18,224
									Add NB left turn lane	Same	No		Fair Share	$78,400		$5,715
									Add 2nd NB through lane	Same	Yes	ST-013	Fees	$0		$0
									Add SB left turn lane	Same	No		Fair Share	$78,400		$5,715
									Add 2nd SB through lane	Same	Yes	ST-013	Fees	$0		$0
									Add EB left turn lane	Same	No		Fair Share	$78,400		$5,715
									Add 2nd EB through lane	Same	Yes	ST-020	Fees	$0		$0
									Add WB left turn lane	Same	No		Fair Share	$78,400		$5,715
									Add 2nd WB through lane	Same	Yes	ST-020	Fees	$0		$0
													Total	**$563,600**		**$41,084**
42	Grove Av. & Edison Av.	Ontario	Install a Traffic Signal	Same	Same	Install a Traffic Signal	Same	Same	Same	Same	No		Fair Share	$250,000	8.0%	$20,085
						Add NB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$6,299
						Add 2nd NB through lane	Same	Same	Same	Same	Yes	ST-013	Fees	$0		$0
						Add SB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$6,299
						Add 2nd SB through lane	Same	Same	Same	Same	Yes	ST-013	Fees	$0		$0
						Add EB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$6,299
						Add WB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$6,299
									Add 2nd EB through lane	Same	Yes	ST-007	Fees	$0		$0
									Add 3rd EB through lane	Same	Yes	ST-007	Fees	$0		$0
									Add 2nd WB through lane	Same	Yes	ST-007	Fees	$0		$0
									Add 3rd WB through lane	Same	Yes	ST-007	Fees	$0		$0
									Add WB right turn lane	Same	No		Fair Share	$78,400		$6,299
													Total	**$642,000**		**$51,579**

Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?[1]	DIF Project #	Project Responsibility[6]	Total Cost[2,3,4]	Fair Share %[4]	Fair Share Cost[5]
43	Grove Av. & Eucalyptus Av.	Ontario	Install a Traffic Signal	Same	Same	Same	Same	Same	Same	Same	No		Fair Share	$250,000	25.7%	$64,202
				Add NB left turn lane	Same	Same	Same	Same	Same	Same	No		Fair Share	$78,400		$20,134
				Add 2nd NB through lane	Same	Same	Same	Same	Same	Same	Yes	ST-013	Construct	$0		$0
				Add SB left turn lane	Same	Same	Same	Same	Same	Same	No		Fair Share	$78,400		$20,134
					Add EB left turn lane	Same	Same	Same	Same	Same	No		Fair Share	$78,400		$20,134
						Add 2nd SB through lane	Same	Same	Same	Same	Yes	ST-013	Fees	$0		$0
						Add WB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$20,134
								Add 2nd WB through lane	Same	Same	Yes	ST-011	Fees	$0		$0
								Add 2nd EB through lane	Same	Same	Yes	ST-011	Fees	$0		$0
													Total	**$563,600**		**$144,737**
44	Grove Av. & Merrill Av.	Ontario, Chino	Install a Traffic Signal	Same	Same	Same	Same	Same	Same	Same	No		Fair Share	$250,000	20.0%	$50,061
					Add EB left turn lane	Same	Same	Same	Same	Same	No		Construct	$78,400		$15,699
						Add 2nd WB through lane	Same	Same	Same	Same	Yes	ST-015	Construct	$0		$0
						Add SB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$15,699
									Add 2nd EB through lane	Same	Yes	ST-015	Fees	$0		$0
													Total	**$406,800**		**$81,459**
48	Walker Av. & Edison Av.	Ontario	None	None	Install a Traffic Signal	Same	Same	Same	Same	Same	No		Fair Share	$250,000	3.6%	$8,919
									Add NB left turn lane	Same	No		Fair Share	$78,400		$2,797
									Add SB left turn lane	Same	No		Fair Share	$78,400		$2,797
									Add EB left turn lane	Same	No		Fair Share	$78,400		$2,797
									Add 2nd EB through lane	Same	Yes	ST-007	Fees	$0		$0
									Add WB left turn lane	Same	No		Fair Share	$78,400		$2,797
									Add 2nd WB through lane	Same	Yes	ST-008	Fees	$0		$0
									Add 3rd EB through lane	Same	No		Fair Share	$282,240		$10,070
									Add 3rd WB through lane	Same	No		Fair Share	$282,240		$10,070
													Total	**$1,128,080**		**$40,247**
49	Walker Av./Flight Av. & Merrill Av.	Ontario, Chino	None	Install a Traffic Signal	Same	Same	Same	Same	Same	Same	No		Construct	$0	15.4%	$0
						Add NB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$12,049
						Add SB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$12,049
						Add EB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$12,049
						Add 2nd WB through lane	Same	Same	Same	Same	Yes	ST-015	Fees	$0		$0
						Add 2nd EB through lane	Same	Same	Same	Same	No		Fair Share	$282,240		$43,377
													Total	**$235,200**		**$36,147**
50	Van Vliet Av./Baker Av. & Merrill Av.	Ontario, Chino	None	None	None	None	None	None	Add SB shared left-through-right turn lane	Same	No		Fair Share	$78,400	16.7%	$13,114
									Add EB left turn lane	Same	No		Fair Share	$78,400		$13,114
									Add 2nd WB through lane	Same	Yes	ST-015	Fees	$0		$0
									Install a Traffic Signal	Same	No		Fair Share	$250,000		$41,817
													Total	**$406,800**		**$68,045**
51	Vineyard Av. & Edison Av.	Ontario	None	None	None	None	None	None	Add 2nd EB through lane	Same	Yes	ST-008	Fees	$0	4.8%	$0
									Add 3rd EB through lane	Same	Yes	ST-009	Fees	$0		$0
									Add 2nd WB through lane	Same	Yes	ST-009	Fees	$0		$0
									Add 3rd WB through lane	Same	Yes	ST-009	Fees	$0		$0
									Add NB left turn lane	Same	No		Fair Share	$78,400		$3,792
									Add SB left turn lane	Same	No		Fair Share	$0		$0
									Install a Traffic Signal	Same	No		Fair Share	$0		$0
													Total	**$78,400**		**$3,792**

Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?[1]	DIF Project #	Project Responsibility[6]	Total Cost[2,3,4]	Fair Share %[4]	Fair Share Cost[5]
52	Vineyard Av./Hellman Av. & Merrill Av.	Ontario, Chino	None	None	None	None	None	None	Add NB through lane	Same	No		Fair Share	$282,240	30.8%	$86,951
									Add SB left turn lane	Same	No		Fair Share	$78,400		$24,153
									Add SB through lane	Same	Yes	ST-022	Fees	$0		$0
									Add SB right turn lane	Same	No		Fair Share	$78,400		$24,153
									Add EB left turn lane	Same	No		Fair Share	$78,400		$24,153
									Add 2nd WB through lane	Same	Yes	ST-015	Fees	$0		$0
									Install a Traffic Signal	Same	No		Fair Share	$250,000		$77,019
									Add WB right turn lane	Same	No		Fair Share	$78,400		$24,153
													Total	**$845,840**		**$260,582**
53	Hellman Av. & Kimball Av.	Chino, Eastvale	None	None	None	None	None	None	Add 2nd NB left turn lane	Same	No		Fair Share	$78,400	3.8%	$2,959
									Add SB left turn lane	Same	No		Fair Share	$78,400		$2,959
									Add 2nd EB through lane	Same	No		Fair Share	$282,240		$10,653
													Total	**$439,040**		**$16,572**
54	Carpenter Av. & Merrill Av.	Ontario, Chino	Install a Traffic Signal	Same	Same	Same	Same	Same	Same	Same	No		Fair Share	$250,000	9.8%	$24,597
									Add 2nd EB through lane	Same	Yes	ST-015	Fees	$0		$0
									Add 2nd WB through lane	Same	Yes	ST-015	Fees	$0		$0
									Add NB left turn lane	Same	No		Fair Share	$78,400		$7,713
									Add SB left turn lane	Same	No		Fair Share	$78,400		$7,713
													Total	**$406,800**		**$40,024**
55	Hellman Av. & Edison Av.	Ontario	None	None	None	None	None	None	Add 2nd EB through lane	Same	Yes	ST-009	Fees	$0	4.5%	$0
									Add 3rd EB through lane	Same	Yes	ST-009	Fees	$0		$0
									Add 2nd WB through lane	Same	Yes	ST-009	Fees	$0		$0
									Add 3rd WB through lane	Same	Yes	ST-009	Fees	$0		$0
									Add NB left turn lane	Same	No		Fair Share	$78,400		$3,534
									Add NB shared through-right lane	Same	No		Fair Share	$282,240		$12,722
									Add SB left turn lane	Same	No		Fair Share	$78,400		$3,534
									Add SB shared through-right lane	Same	No		Fair Share	$282,240		$12,722
									Add EB left turn lane	Same	No		Fair Share	$78,400		$3,534
									Add WB left turn lane	Same	No		Fair Share	$78,400		$3,534
													Total	**$878,080**		**$39,580**
56	Archibald Av. & SR-60 WB Ramps	Ontario, Caltrans	Add 2nd NB left turn lane	Same	Same	None[7]	None[7]	None[7]	None[7]	None[7]	Yes	ST-106	Fees	$0	--	$0
			Add 3rd SB through lane	Same	Same						Yes	ST-106	Fees	$0		$0
			Add SB right turn lane	Same	Same						Yes	ST-106	Fees	$0		$0
			Add WB left turn lane	Same	Same						Yes	ST-106	Fees	$0		$0
													Total	**$0**		**$0**
58	Archibald Av. & Riverside Dr.	Ontario	None	None	None	None	None	None	Add 2nd NB left turn lane	Same	No		Fair Share	$78,400	4.6%	$3,628
									Add 2nd SB left turn lane	Same	No		Fair Share	$78,400		$3,628
													Total	**$156,800**		**$7,256**
60	Archibald Av. & Schaefer Av.	Ontario	None	None	None	None	None	None	Install a Traffic Signal	Same	No		Fair Share	$250,000	5.1%	$12,719
									Stripe the NB left turn lane	Same	No		Fair Share	$39,200		$1,994
									Add EB left turn lane	Same	No		Fair Share	$78,400		$3,989
									Add EB shared through-right turn lane	Same	Yes	ST-011	Fees	$0		$0
									Stripe the WB left turn, through, and right turn lane	Same	Yes	ST-011	Fees	$0		$0
									Add SB left turn lane	Same	No		Fair Share	$78,400		$3,989
									Add 3rd SB through lane	Same	No		Fair Share	$282,240		$14,359
													Total	**$728,240**		**$37,049**

Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?[1]	DIF Project #	Project Responsibility[6]	Total Cost[2,3,4]	Fair Share %[4]	Fair Share Cost[5]
61	Archibald Av. & Ontario Ranch Rd.	Ontario	None	None	None	Add 2nd WB through lane	Same	Same	Same	Same	Yes	ST-010	Fees	$0	5.5%	$0
									Add 2nd NB left turn lane	Same	No		Fair Share	$78,400		$4,307
									Add 3rd NB through lane	Same	Yes	ST-002	Fees	$0		$0
									Add 3rd SB through lane	Same	Yes	ST-001	Fees	$0		$0
									Add 3rd EB through lane	Same	Yes	ST-010	Fees	$0		$0
									Add 4th EB through lane	Same	Yes	ST-010	Fees	$0		$0
									Add 3rd WB through lane	Same	Yes	ST-010	Fees	$0		$0
									Add 4th WB through lane	Same	Yes	ST-010	Fees	$0		$0
									Add 2nd SB left turn lane	Same	No		Fair Share	$78,400		$4,307
									Modify the traffic signal to implement overlap phasing for the SB right turn lane	Same	No		Fair Share	$117,600		$6,461
													Total	**$274,400**		**$15,076**
62	Archibald Av. & Eucalyptus Av.	Ontario	None	None	None	None	None	None	NB left turn lane	Same	No		Fair Share	$78,400	2.9%	$2,236
									Add 3rd NB through lane	Same	Yes	ST-002	Fees	$0		$0
									Add 3rd SB through lane	Same	Yes	ST-002	Fees	$0		$0
									Add EB left turn lane	Same	No		Fair Share	$78,400		$2,236
									Add 2 EB through lanes	Same	Yes	ST-011	Fees	$0		$0
									Restripe the WB to accommodate left, 2 throughs and 1 right turn lane	Same	Yes	ST-011	Fees	$0		$0
													Total	**$156,800**		**$4,473**
63	Archibald Av. & Merrill Av.	Ontario	None	None	None	Stripe SB right turn lane (in place of defacto)	Same	Same	Same	Same	No		Construct	$39,200	6.6%	$2,572
						Modify the traffic signal to implement overlap phasing for the SB right turn lane	Same	Same	Same	Same	No		Construct	$117,600		$7,716
						Add 2nd EB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$5,144
						Add 2nd NB left turn lane	Same	Same	Same	Same						
									Add EB free right turn lane	Same	No		Fair Share	$282,240		$0
									Add 3rd SB through lane	Same	Yes	ST-002	Fees	$0		$0
													Total	**$517,440**		**$15,433**
64	Archibald Av. & Limonite Av.	Eastvale	None	None	Add 2nd WB right turn lane	Same	Same	Same	No Longer Needed	No Longer Needed	No		Construct	$78,400	4.5%	$3,552
						Add 2nd SB left turn lane	Same	Same	Same	Same	No		Fair Share	$78,400		$3,552
									Add 2nd WB left turn lane	Same	No		Fair Share	$78,400		$3,552
									Add 2nd NB through lane	Same	No		Fair Share	$282,240		$12,788
									Add 3rd NB through lane	Same	No		Fair Share	$282,240		$12,788
									Add 2nd SB through lane	Same	No		Fair Share	$282,240		$12,788
									Add 3rd SB through lane	Same	No		Fair Share	$282,240		$12,788
									Add 2nd EB left turn lane	Same	No		Fair Share	$78,400		$3,552
									Add 2nd EB through lane	Same	No		Fair Share	$282,240		$12,788
									Add 2nd WB through lane	Same	No		Fair Share	$282,240		$12,788
													Total	**$2,007,040**		**$90,938**
65	Turner Av. & Ontario Ranch Rd.	Ontario	None	None	None	None	None	None	Add 3rd EB through lane	Same	Yes	ST-010	Fees	$0	--	$0
									Add 3rd WB through lane	same	Yes	ST-010	Fees	$0		$0
													Total	**$0**		**$0**
67	Haven Av. & Ontario Ranch Rd.	Ontario	None	None	None	None	None	None	Add 2nd NB through lane	Same	Yes	ST-014	Fees	$0	--	$0
									Add 2nd SB through lane	Same	Yes	ST-014	Fees	$0		$0
													Total	**$0**		**$0**

Summary of Improvements Recommended to Meet City of Ontario or Surrounding Agency LOS Requirements

#	Intersection Location	Jurisdiction	Existing (2021)	E+P (Phase 1)	E+P (Project Buildout)	2024 Without Project	2024 With Project (Phase 1)	2024 With Project (Project Buildout)	2040 Without Project	2040 With Project	Improvements in City DIF?[1]	DIF Project #	Project Responsibility[6]	Total Cost[2,3,4]	Fair Share %[4]	Fair Share Cost[5]
70	Hamner Av. & Ontario Ranch Rd.	Ontario, Eastvale	Modify the traffic signal to extend the cycle length to 130 seconds	Same	Same	Same	Same	Same	Same	Same	No		Fair Share	$117,600	5.0%	$5,898
			Restripe the SB approach to provide two left turn lanes, two through lanes, and one shared through-right turn lane	Same	Same	Same	Same	Same	Same	Same	No		Fair Share	$39,200		$1,966
						Add 3rd WB through lane	Same	Same	Same	Same	No		Fair Share	$282,240		$14,156
									Add EB right turn lane	Same	No		Fair Share	$78,400		$3,932
									Modify the traffic signal to implement overlap phasing for the NB and EB right turn lanes	Same	No		Fair Share	$117,600		$5,898
													Total	**$635,040**		**$31,850**
													Total Costs for Horizon Year (2040) Improvements	**$22,254,160**		**$1,937,999**
													Total Project Fair Share Contribution to the City of Ontario (non-DIF/other)[6]	**$1,408,135**		

[1] Improvements included in City of Ontario DIF program for local, regional and specific plan components.

[2] Costs have been estimated using the data provided in Appendix "G" of the CMP (2003 Update) for preliminary construction costs.

[3] Appendix "G" costs escalated by a factor of 1.568 per City direction except Traffic Signals.

[4] Program improvements constructed by project may be eligible for fee credit, at discretion of City. See Table 8-2 for Fair Share Calculations.

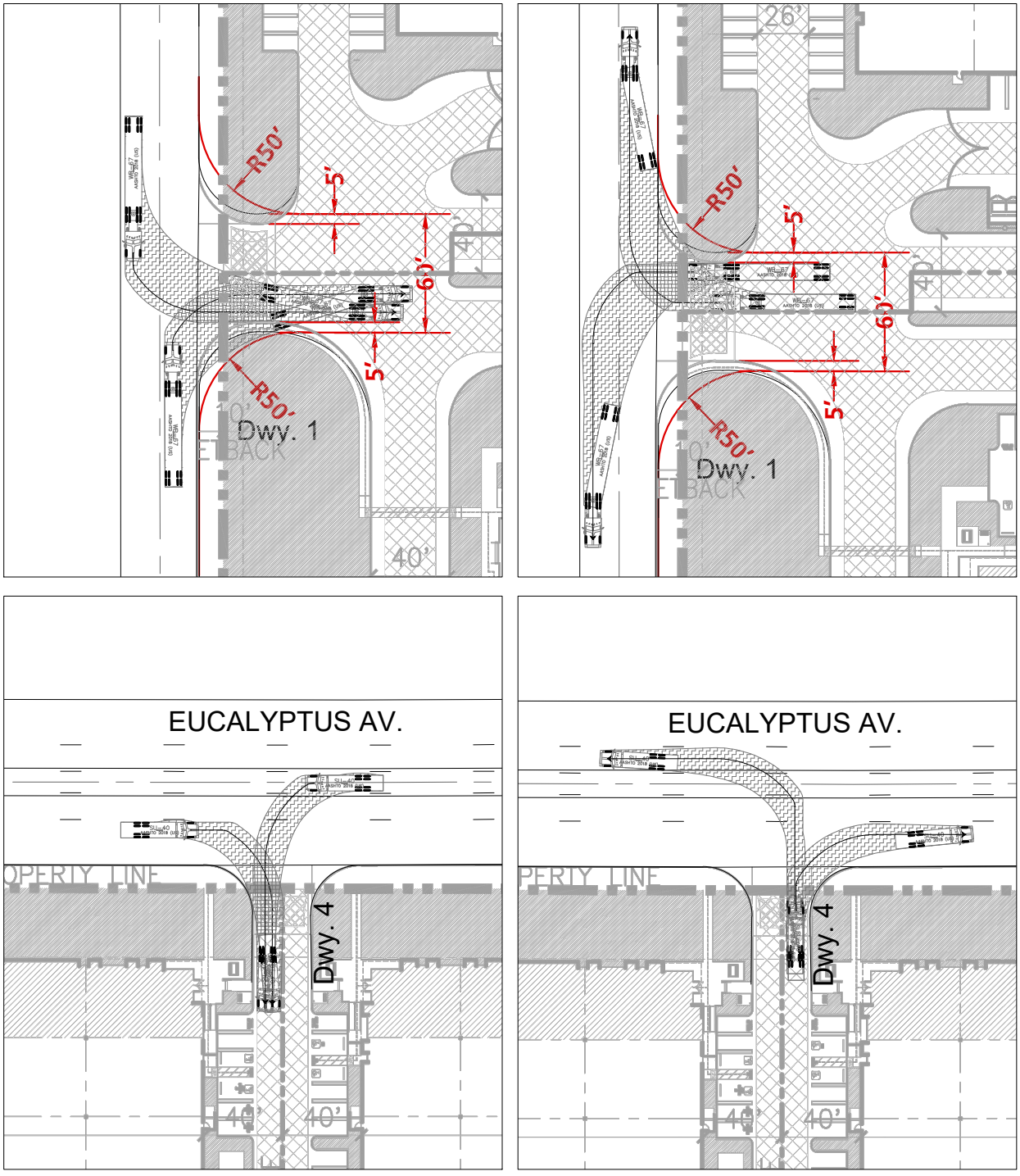
[5] Rough order of magnitude cost estimate.

[6] Total project fair share contribution consists of the improvements which are not already included in the City-wide DIF for those intersections wholly or partially within the City of Ontario.

[7] Improvements are anticipated to be constructed as part of the SR-60 Freeway/Archibald Avenue interchange improvements.

[8] Improvement includes modifying the traffic signal to run the northbound and southbound left turns as lead-lag, with the northbound left turn running as lag.

EXHIBIT 1-6 (1OF4): TRUCK ACCESS



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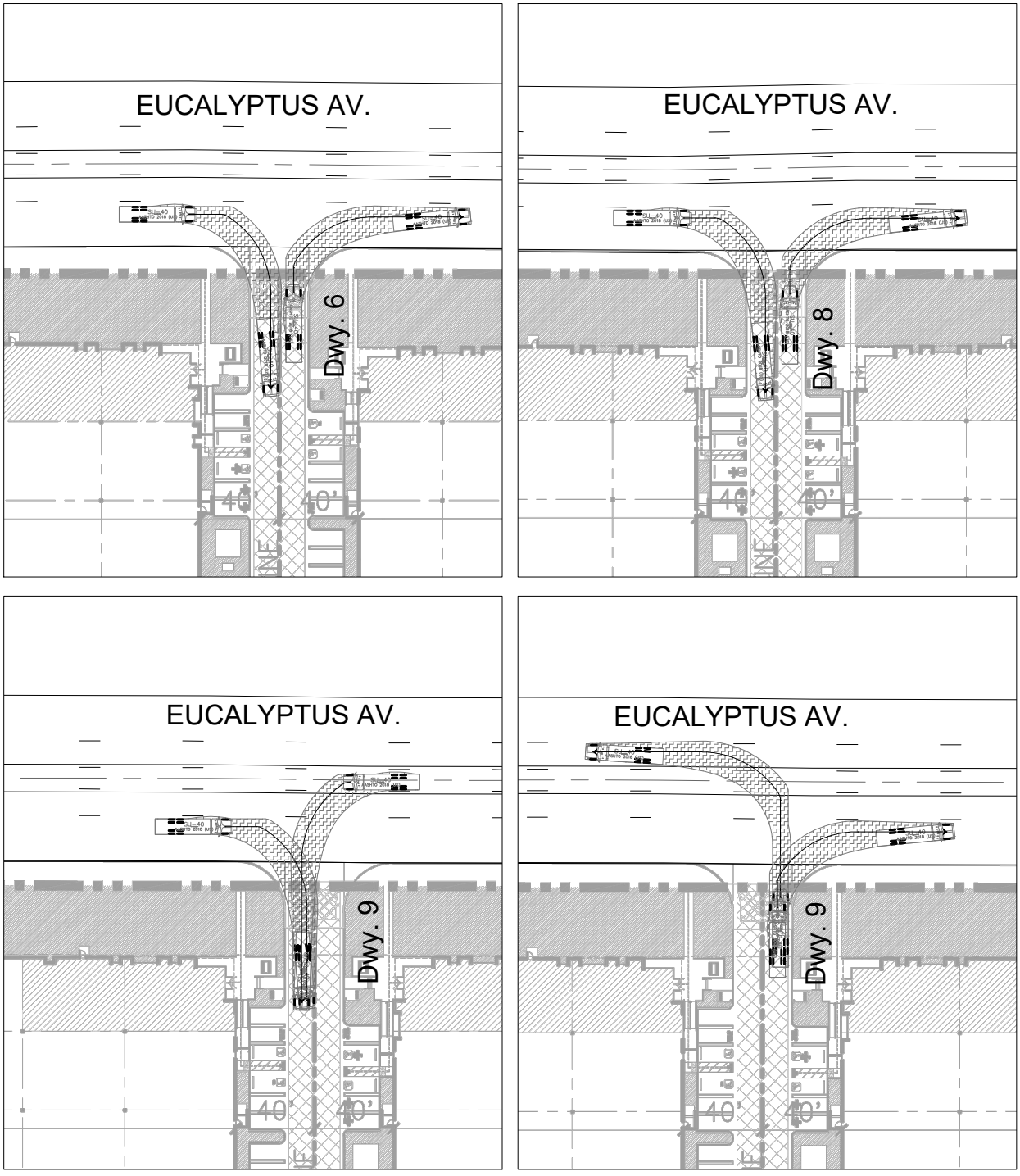

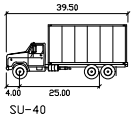

SU-40

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Track	8.00
Lock to Lock Time	6.0
Steering Angle	31.8

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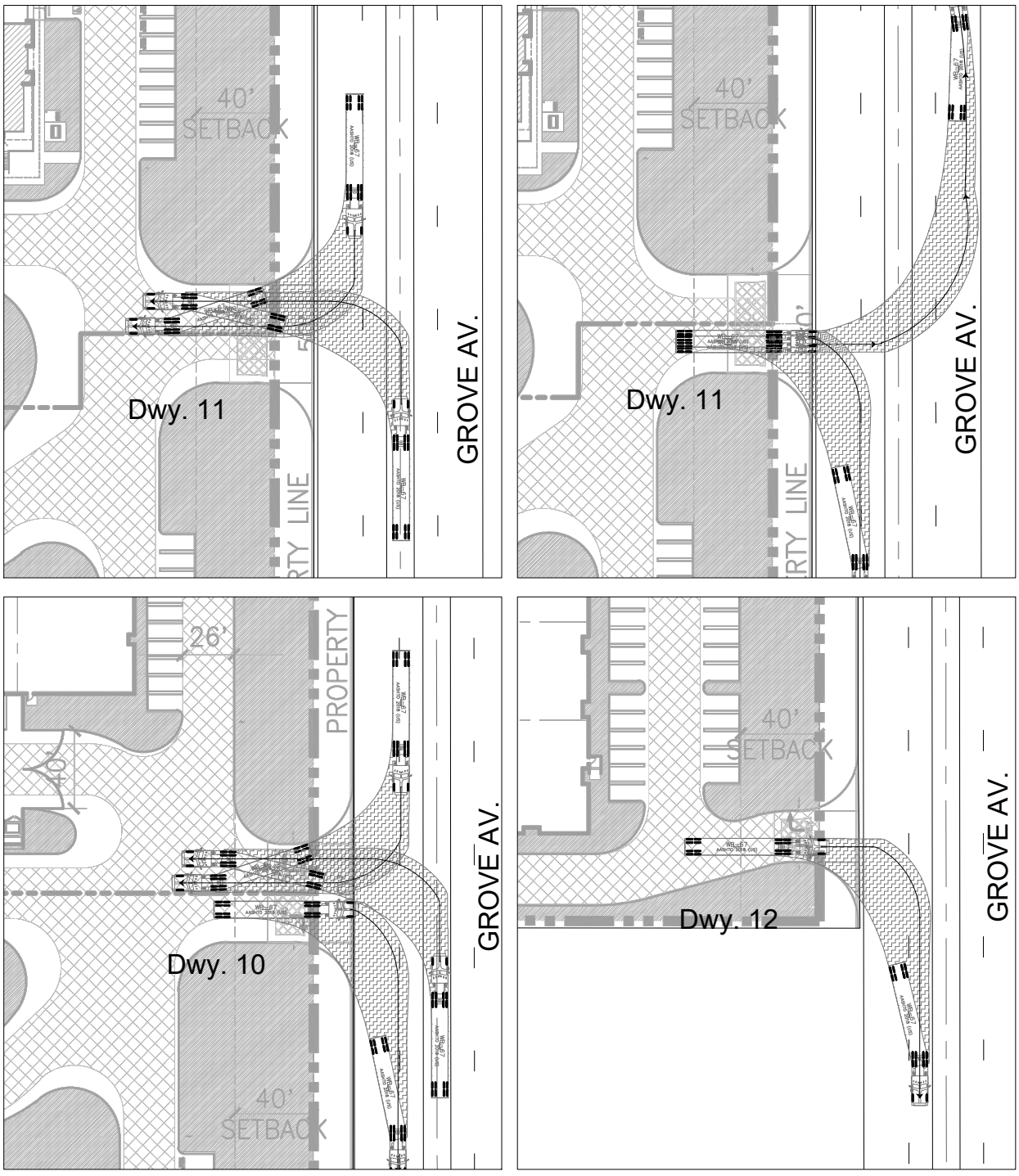
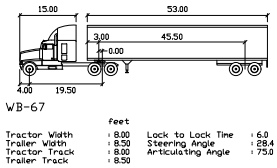
EXHIBIT 1-6 (3OF4): TRUCK ACCESS





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13862 - aturn-a2.dwg

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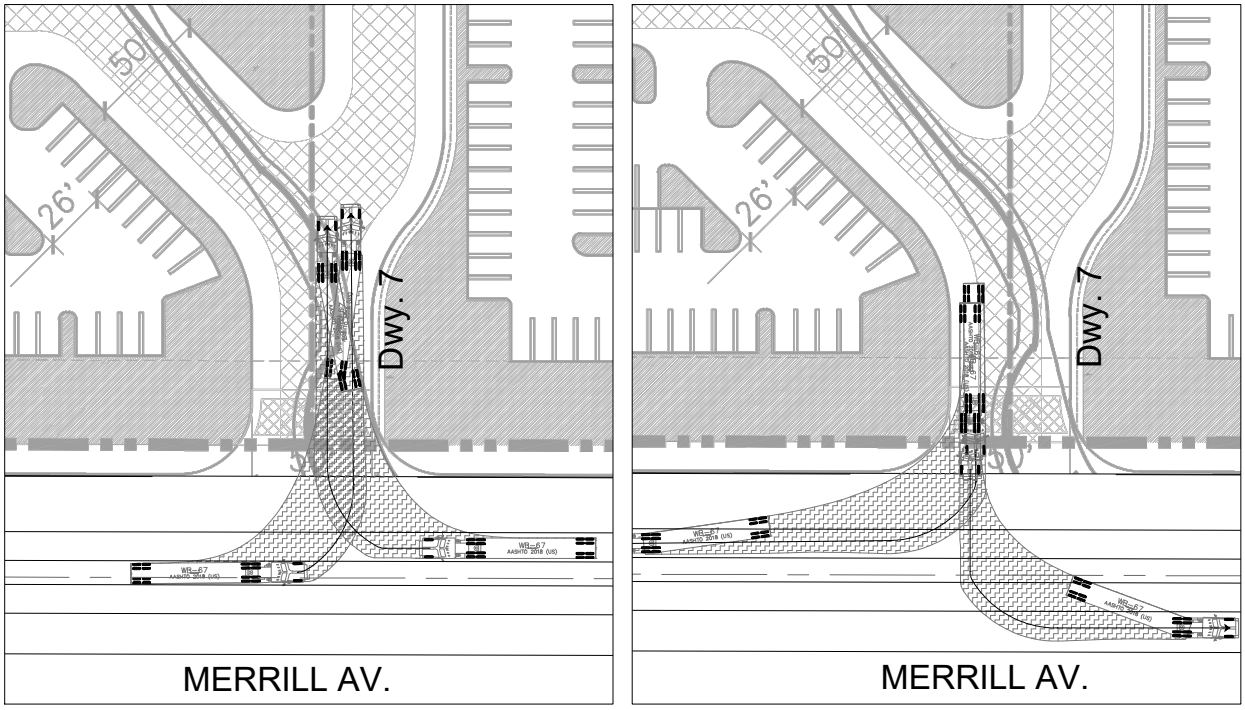

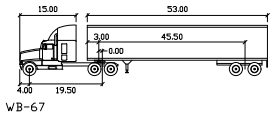

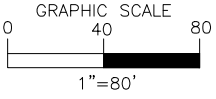

2 METHODOLOGIES

This section of the report presents the methodologies used to perform the traffic analyses summarized in this report. The methodologies described are consistent with City of Ontario's Traffic Study Guidelines.

2.1 LEVEL OF SERVICE

Traffic operations of roadway facilities are described using the term "Level of Service" (LOS). LOS is a qualitative description of traffic flow based on several factors such as speed, travel time, delay, and freedom to maneuver. Six levels are typically defined ranging from LOS A, representing completely free-flow conditions, to LOS F, representing breakdown in flow resulting in stop-and-go conditions. LOS E represents operations at or near capacity, an unstable level where vehicles are operating with the minimum spacing for maintaining uniform flow.

2.2 INTERSECTION CAPACITY ANALYSIS

The definitions of LOS for interrupted traffic flow (flow restrained by the existence of traffic signals and other traffic control devices) differ slightly depending on the type of traffic control. The LOS is typically dependent on the quality of traffic flow at the intersections along a roadway. The 6th Edition Highway Capacity Manual (HCM) methodology expresses the LOS at an intersection in terms of delay time for the various intersection approaches. (5) The HCM uses different procedures depending on the type of intersection control.

2.2.1 SIGNALIZED INTERSECTIONS

City of Ontario, City of Chino, City of Chino Hills, City of Eastvale, City of Jurupa Valley

The City of Ontario, City of Chino, City of Chino Hills, City of Eastvale, and City of Jurupa Valley require signalized intersection operations analysis based on the methodology described in the HCM. (5) Intersection LOS operations are based on an intersection's average control delay. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. For signalized intersections LOS is directly related to the average control delay per vehicle and is correlated to a LOS designation as described on Table 2-1.

TABLE 2-1: SIGNALIZED INTERSECTION LOS THRESHOLDS

Description	Average Control Delay (Seconds), V/C ≤ 1.0	Level of Service, V/C ≤ 1.0	Level of Service, V/C > 1.0
Operations with very low delay occurring with favorable progression and/or short cycle length.	0 to 10.00	A	F
Operations with low delay occurring with good progression and/or short cycle lengths.	10.01 to 20.00	B	F
Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	20.01 to 35.00	C	F
Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop and individual cycle failures are noticeable.	35.01 to 55.00	D	F
Operations with high delay values indicating poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences. This is considered to be the limit of acceptable delay.	55.01 to 80.00	E	F
Operation with delays unacceptable to most drivers occurring due to over saturation, poor progression, or very long cycle lengths.	80.01 and up	F	F

Source: HCM (6th Edition)

Consistent with Appendix B of the San Bernardino County CMP, the following saturation flow rates, in vehicles per hour green per lane (vphgpl), will be utilized in the traffic analysis for signalized intersections:

Existing and Opening Year Cumulative Traffic Conditions:

- Exclusive through: 1800 vphgpl
- Exclusive left: 1700 vphgpl
- Exclusive right: 1800 vphgpl
- Exclusive dual left: 1600 vphgpl
- Exclusive triple left: 1500 vphgpl

Horizon Year (2040) Traffic Conditions:

- Exclusive through: 1900 vphgpl
- Exclusive left: 1800 vphgpl
- Exclusive dual left: 1700 vphgpl
- Exclusive right: 1900 vphgpl
- Exclusive dual right: 1800 vphgpl
- Exclusive triple left: 1600 vphgpl or less

The traffic modeling and signal timing optimization software package Synchro (Version 10) has been utilized to analyze signalized intersections within the City of Ontario, City of Chino, City of

Chino Hills, City of Eastvale, and City of Jurupa Valley. Synchro is a macroscopic traffic software program that is based on the signalized intersection capacity analysis as specified in the HCM. Macroscopic level models represent traffic in terms of aggregate measures for each movement at the study intersections. Equations are used to determine measures of effectiveness such as delay and queue length. The level of service and capacity analysis performed by Synchro takes into consideration optimization and coordination of signalized intersections within a network.

The peak hour traffic volumes have been adjusted using a peak hour factor (PHF) to reflect peak 15-minute volumes. Common practice for LOS analysis is to use a peak 15-minute rate of flow. However, flow rates are typically expressed in vehicles per hour. The PHF is the relationship between the peak 15-minute flow rate and the full hourly volume (e.g. PHF = [Hourly Volume] / [4 x Peak 15-minute Flow Rate]). The use of a 15-minute PHF produces a more detailed analysis as compared to analyzing vehicles per hour. Existing PHFs have been used for all analysis scenarios. Per the HCM, PHF values over 0.95 often are indicative of high traffic volumes with capacity constraints on peak hour flows while lower PHF values are indicative of greater variability of flow during the peak hour. (5)

California Department of Transportation (Caltrans)

The traffic modeling and signal timing optimization software package Synchro (Version 10) has also been utilized to analyze signalized intersections under Caltrans' jurisdiction, which include interchange to arterial ramps (i.e., SR-60 Freeway ramps at Euclid Avenue (SR-83), Grove Avenue, and Archibald Avenue, SR-71 Freeway ramps at Edison Avenue, I-15 Freeway ramps at Cantu Galleano Ranch Road and Limonite Avenue, etc.). (2) Euclid Avenue (SR-83) is also under Caltrans jurisdiction and intersections along Euclid Avenue (SR-83) have been evaluated per Caltrans' guidelines. Signal timing for the freeway arterial-to-ramp intersections and intersections along Euclid Avenue (SR-83) have been obtained from Caltrans District 8 and were utilized for the purposes of this analysis.

2.2.2 UNSIGNALIZED INTERSECTIONS

The City of Ontario, City of Chino, City of Chino Hills, City of Eastvale, and City of Jurupa Valley require the operations of unsignalized intersections be evaluated using the methodology described in the HCM. (5) The LOS rating is based on the weighted average control delay expressed in seconds per vehicle (see Table 2-2).

TABLE 2-2: UNSIGNALIZED INTERSECTION LOS THRESHOLDS

Description	Average Control Delay Per Vehicle (Seconds)	Level of Service, V/C ≤ 1.0	Level of Service, V/C > 1.0
Little or no delays.	0 to 10.00	A	F
Short traffic delays.	10.01 to 15.00	B	F
Average traffic delays.	15.01 to 25.00	C	F
Long traffic delays.	25.01 to 35.00	D	F
Very long traffic delays.	35.01 to 50.00	E	F
Extreme traffic delays with intersection capacity exceeded.	> 50.00	F	F

Source: HCM (6th Edition)

At two-way or side-street stop-controlled intersections, LOS is calculated for each controlled movement and for the left turn movement from the major street, as well as for the intersection as a whole. For approaches composed of a single lane, the delay is computed as the average of all movements in that lane. Per HCM, the worst individual turning movement (typically on the side-street) is reported for the overall intersection's delay at cross-street stop-controlled intersections. For all-way stop controlled intersections, LOS is computed for the intersection as a whole.

2.3 TRAFFIC SIGNAL WARRANT ANALYSIS METHODOLOGY

The term "signal warrants" refers to the list of established criteria used by Caltrans and other public agencies to quantitatively justify or ascertain the potential need for installation of a traffic signal at an otherwise unsignalized intersection. This TIA uses the signal warrant criteria presented in the latest edition of the Caltrans California Manual on Uniform Traffic Control Devices (CA MUTCD). (6)

The signal warrant criteria for Existing study area intersections are based upon several factors, including volume of vehicular and pedestrian traffic, frequency of accidents, and location of school areas. The CA MUTCD indicates that the installation of a traffic signal should be considered if one or more of the signal warrants are met. (6) Specifically, this TA utilizes the Peak Hour Volume-based Warrant 3 as the appropriate representative traffic signal warrant analysis for existing traffic conditions. Warrant 3 is appropriate to use for this TIA because it provides specialized warrant criteria for intersections with rural characteristics (e.g. located in communities with populations of less than 10,000 persons or with adjacent major streets operating above 40 miles per hour). For the purposes of this study, the speed limit was the basis for determining whether Urban or Rural warrants were used for a given intersection.

Future intersections that do not currently exist have been assessed regarding the potential need for new traffic signals based on future average daily traffic (ADT) volumes, using the Caltrans planning level ADT-based signal warrant analysis worksheets.

Traffic signal warrant analyses were performed for the following study area intersection shown on Table 2-3:

TABLE 2-3: TRAFFIC SIGNAL WARRANT ANALYSIS LOCATIONS

ID	Intersection Location	Jurisdiction	SBCTA CMP?
22	Campus Av. & Eucalyptus	Chino, Caltrans	No
23	Campus Av. & Merrill Av.	Chino, Caltrans	No
24	Bon View Av. & Edison Av.	Ontario	No
25	Bon View Av. & Eucalyptus Av.	Ontario	No
26	Bon View Av. & Driveway 1 – Future Intersection	Ontario	No
28	Bon View Av. & Merrill Av.	Chino, Ontario	No
30	Driveway 4 & Eucalyptus Av. – Future Intersection	Ontario	No

ID	Intersection Location	Jurisdiction	SBCTA CMP?
33	Driveway 7 & Merrill Av. – Future Intersection	Ontario	No
35	Driveway 9 & Eucalyptus Av. – Future Intersection	Ontario	No
40	Grove Av. & Chino Av.	Ontario	No
41	Grove Av. & Schaefer Av.	Ontario	No
42	Grove Av. & Edison Av.	Ontario	No
43	Grove Av. & Eucalyptus Av.	Ontario	No
45	Grove Av. & Driveway 11 – Future Intersection	Ontario	No
47	Grove Av. & Merrill Av.	Chino, Ontario	No
48	Walker Av. & Edison Av.	Ontario	No
49	Walker Av./Flight Av. & Merrill Av.	Chino, Ontario	No
50	Baker Av./Van Vliet Av. & Merrill Av.	Ontario	No
52	Vineyard Av./Hellman Av. & Merrill Av.	Chino, Ontario	No
54	Carpenter Av. & Merrill Av.	Chino, Ontario	No

Although unsignalized, traffic signal warrants have not been evaluated at the intersections of Driveway 2 on Bon View Avenue, Driveway 3 and Driveway 5 on Merrill Avenue, Driveway 6 and Driveway 8 on Eucalyptus Avenue, and Driveway 10 and Driveway 12 on Grove Avenue since these intersections are anticipated to have restricted access (right-in/right-out only) and would therefore not be suitable locations for installing a traffic signal.

The Existing conditions traffic signal warrant analysis is presented in the subsequent section, Section 3 *Area Conditions* of this report. The traffic signal warrant analyses for future conditions are presented in Section 5 *E+P Traffic Analysis,* Section 6 *Opening Year Cumulative (2024) Traffic Analysis,* and Section 7 *Horizon Year (2040) Traffic Analysis* of this report. It is important to note that a signal warrant defines the minimum condition under which the installation of a traffic signal might be warranted. Meeting this threshold condition does not require that a traffic control signal be installed at a particular location, but rather, that other traffic factors and conditions be evaluated in order to determine whether the signal is truly justified. It should also be noted that signal warrants do not necessarily correlate with LOS. An intersection may satisfy a signal warrant condition and operate at or above acceptable LOS or operate below acceptable LOS and not meet a signal warrant.

2.4 FREEWAY OFF-RAMP QUEUING ANALYSIS

The study area for this TA includes the following freeway-to-arterial interchanges:

- SR-71 Freeway & Grand Avenue/Edison Avenue
- SR-71 Freeway & Euclid Avenue (SR-83)
- Euclid Avenue (SR-83) & SR-60 Freeway
- Grove Avenue & SR-60 Freeway
- Archibald Avenue & SR-60 Freeway
- I-15 Freeway & Cantu Galleano Ranch Road
- I-15 Freeway & Limonite Avenue

The 95th percentile queuing of vehicles has been assessed at the off-ramps to determine potential queuing deficiencies at the freeway ramp intersections at the interchanges identified above. Specifically, the queuing analysis is utilized to identify any potential queuing and "spill back" onto the SR-71, SR-60, or I-15 Freeway mainline from the off-ramps.

The traffic progression analysis tool and HCM intersection analysis program, Synchro, has been used to assess the potential deficiencies/needs of the intersections with traffic added from the proposed Project. Storage (turn-pocket) length recommendations at the ramps have been based upon the 95th percentile queue resulting from the Synchro progression analysis. There are two footnotes which appear on the Synchro outputs. One footnote indicates if the 95th percentile cycle exceeds capacity. Traffic is simulated for two complete cycles of the 95th percentile traffic in Synchro in order to account for the effects of spillover between cycles. In practice, the 95th percentile queue shown will rarely be exceeded and the queues shown with the footnote are acceptable for the design of storage bays. The other footnote indicates whether or not the volume for the 95th percentile queue is metered by an upstream signal. In many cases, the 95th percentile queue will not be experienced and may potentially be less than the 50th percentile queue due to upstream metering. If the upstream intersection is at or near capacity, the 50th percentile queue represents the maximum queue experienced.

A vehicle is considered queued whenever it is traveling at less than 10 feet/second. A vehicle will only become queued when it is either at the stop bar or behind another queued vehicle. The 95th percentile queue is the maximum back of queue with 95th percentile traffic volumes during the peak hour and is derived from the average queue plus 1.65 standard deviations. The queue length reported is for the lane with the highest queue in the lane group. The 95th percentile queue is not necessarily ever observed it is simply based on statistical calculations.

2.5 MINIMUM ACCEPTABLE LEVELS OF SERVICE (LOS)

Minimum Acceptable LOS and associated definitions of intersection deficiencies has been obtained from each of the applicable surrounding jurisdictions.

2.5.1 CITY OF ONTARIO

Per the Ontario Plan's Policy M-1, the City of Ontario utilizes a minimum acceptable LOS of LOS E, where feasible. (7)

2.5.2 CITY OF CHINO HILLS

The Traffic Impact Study Guidelines for Development Projects in the City of Chino Hills (dated October 15, 2001) indicates LOS D shall be the minimum acceptable LOS to be used for all City of Chino Hills roadways and intersections. Therefore, any intersection operating at LOS E or LOS F will be considered deficient. (8)

2.5.3 CITY OF CHINO

According to the City of Chino's General Plan Objective TRA-1.2/Policy P1, LOS D is the minimum acceptable condition that should be maintained during the peak commute hours, where feasible. (9)

2.5.4 CITY OF EASTVALE

The City of Eastvale General Plan Policy C-10 sets a standard of LOS C with LOS D as acceptable in commercial and employment areas and at intersections of any combination of major highways, urban arterials, secondary highways, or freeway ramps. (10) Based on this criterion, where feasible, LOS D is the minimum acceptable LOS at each of the study intersections within the City of Eastvale.

2.5.5 CITY OF JURUPA VALLEY

Per the City of Jurupa Valley's General Plan Policy ME 1.1, the City of Jurupa Valley utilizes a minimum acceptable LOS of LOS D at all intersections, except where flexibility is warranted based on a multi-modal LOS evaluation, or where LOS E is deemed appropriate to accommodate complete streets/multi-modal facilities. (11)

2.5.6 CMP

The CMP definition of deficiency is based on maintaining a level of service standard of LOS E or better, where feasible, except where an existing LOS F condition is identified in the CMP document. However, in an effort to overstate as opposed to understate potential deficiencies, LOS D has been utilized for the CMP intersections for the purposes of this analysis, unless the intersection is located in the City of Ontario (which uses LOS E). (1)

2.5.7 CALTRANS

Caltrans endeavors to maintain a target LOS at the transition between LOS C and LOS D on State Highway System (SHS) facilities, however, Caltrans acknowledges that this may not always be feasible and recommends that the lead agency consult with Caltrans to determine the appropriate target LOS. (2) If an existing State highway facility is operating at less than this target LOS, the existing LOS should be maintained. In general, the region-wide goal for an acceptable LOS on all freeways and intersections is LOS D. Consistent with the City of Ontario LOS threshold of LOS D and in excess of the City of Ontario stated LOS threshold of LOS E, LOS D will be used as the target LOS.

2.6 DEFICIENCY CRITERIA

To determine whether the addition of project traffic at a study intersection would result in a traffic deficiency, the following will be utilized:

- When the Without Project condition is at or better than LOS D (or LOS E for CMP intersections and intersections located in the City of Ontario) (i.e., acceptable LOS), and project-generated traffic causes deterioration below LOS D/LOS E (i.e., unacceptable LOS), a deficiency is deemed to occur.

When the Without Project condition is already below LOS D/LOS E (i.e., unacceptable LOS), the Project will be responsible for improving its deficiency to acceptable levels of service. Thus, for intersections operating at unacceptable LOS during either the AM and/or PM peak hour, improvements have been identified to improve the deficiencies of the Project to an intersection LOS that is equal to or better than Without Project conditions (see Table 2-6).

The Project's contribution to a deficiency can be reduced if the Project is required to implement or fund its fair share of improvements designed to alleviate its contribution to the deficient condition.

TABLE 2-6: DEFICIENCY CRITERIA

Without Project Level of Service	Level of Service	Deficient?	Improvement Required?
City of Ontario			
A	A-D	No	No
B	B-D	No	No
C	C-D	No	No
D	D-E	No	No
E	E	No	No
A-E	F	Yes	Yes, bring LOS to E or better
F	F	Yes	Yes, bring LOS to E or better
City of Chino, City of Eastvale, City of Chino Hills, City of Jurupa Valley			
A	A-D	No	No
B	B-D	No	No
C	C-D	No	No
D	D	No	No
A-D	E or F	Yes	Yes, bring LOS to D or better
E	E	Yes	Yes, bring LOS to D or better
E	F	Yes	Yes, bring LOS to D or better
F	F	Yes	Yes, bring LOS to D or better

In the event that an intersection is operating at or is forecast to operate at a deficient LOS, the CMP guidelines have defined a series of steps to be completed to determine the Project's contribution to the deficiency of intersections, which has been applied to both CMP and non-CMP study area intersections. The steps are as follows:

- Determine the improvements necessary to achieve an acceptable service level,
- Calculate the Project's share in the future traffic volume projections for the peak hours,
- Estimate the cost to implement recommended improvements, and
- Calculate the Project's fair-share contribution to improve the Project's traffic deficiencies

2.7 PROJECT FAIR SHARE CALCULATION METHODOLOGY

In cases where this TA identifies that the Project would contribute additional traffic volumes to traffic deficiencies, Project fair share costs of improvements necessary to address deficiencies have been identified. The Project's fair share cost of improvements is determined based on the following equation, which is the ratio of Project traffic to new traffic, and new traffic is total future (Horizon Year) traffic less existing baseline traffic:

Project Fair Share % = Project (2040) AM/PM Traffic / (2040 With Project AM/PM Total Traffic – Existing AM/PM Traffic)

The project fair share percentage has been calculated for both the AM peak hour and PM peak hour and the highest of the two has been selected. The Project fair share contribution calculations are presented in Section 8 *Local and Regional Funding Mechanisms* of this TIA. The cost of implementing the improvements shown on Table 1-2 have been estimated based on the preliminary construction cost estimates found in Appendix G of the San Bernardino County CMP in conjunction with a total cost escalation factor of 1.568 to more closely approximate current (2021) costs. These cost estimates have been utilized in conjunction with the Project fair share percentages to determine the Project's fair share cost of the recommended improvements (see Table 8-2). These estimates are a rough order of magnitude only as they are intended only for discussion purposes and do not imply any legal responsibility or formula for contributions or physical improvements.

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3 AREA CONDITIONS

This section provides a summary of the existing circulation network, the City of Ontario General Plan Circulation Network, and a review of existing peak hour intersection operations, off-ramp queueing, and traffic signal warrant analyses.

3.1 EXISTING CIRCULATION NETWORK

Pursuant to the agreement with City of Ontario staff (Appendix 1.1), the study area includes a total of 75 existing and future intersections as shown previously on Exhibit 1-2. Exhibit 3-1 illustrates the study area intersections located near the proposed Project and identifies the number of through traffic lanes for existing roadways and intersection traffic controls.

3.2 CITY OF ONTARIO GENERAL PLAN CIRCULATION ELEMENT

As noted previously, the Project site is located within the City of Ontario. The roadway classifications and planned (ultimate) roadway cross-sections of the major roadways within the study area, as identified on the City of Ontario General Plan Circulation Element, are described subsequently. Exhibit 3-2 shows the City of Ontario General Plan Circulation Element and Exhibit 3-3 illustrates the City of Ontario General Plan roadway cross-sections.

The study area roadways that are classified as 8-lane Other Principal Arterials are identified as having four lanes of travel in each direction. The following study area roadways within the City of Ontario are classified as 8-lane Other Principal Arterials:

- Euclid Avenue (SR-83) from the SR-60 Freeway to Merrill Avenue
- Edison Avenue/Ontario Ranch Road from Euclid Avenue (SR-83) to Hamner Avenue
- Hamner Avenue from the SR-60 Freeway to Bellegrave Avenue

The study area roadways that are classified as 6-lane Other Principal Arterials are identified as having three lanes of travel in each direction and a 14-foot curbed or painted median. The following study area roadways within the City of Ontario are classified as 6-lane Other Principal Arterials:

- Grove Avenue north of Riverside Drive
- Vineyard Avenue from the SR-60 Freeway to Merrill Avenue
- Archibald Avenue north of Bellegrave Avenue

The study area roadways that are classified as 4-lane Other Principal Arterials are identified as having two lanes of travel in each direction. The following study area roadways within the City of Ontario are classified as 4-lane Other Principal Arterials:

- Grove Avenue north of Merrill Avenue
- Haven Avenue from Riverside Drive to Bellegrave Avenue

EXHIBIT 3-1 (1OF4): EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS

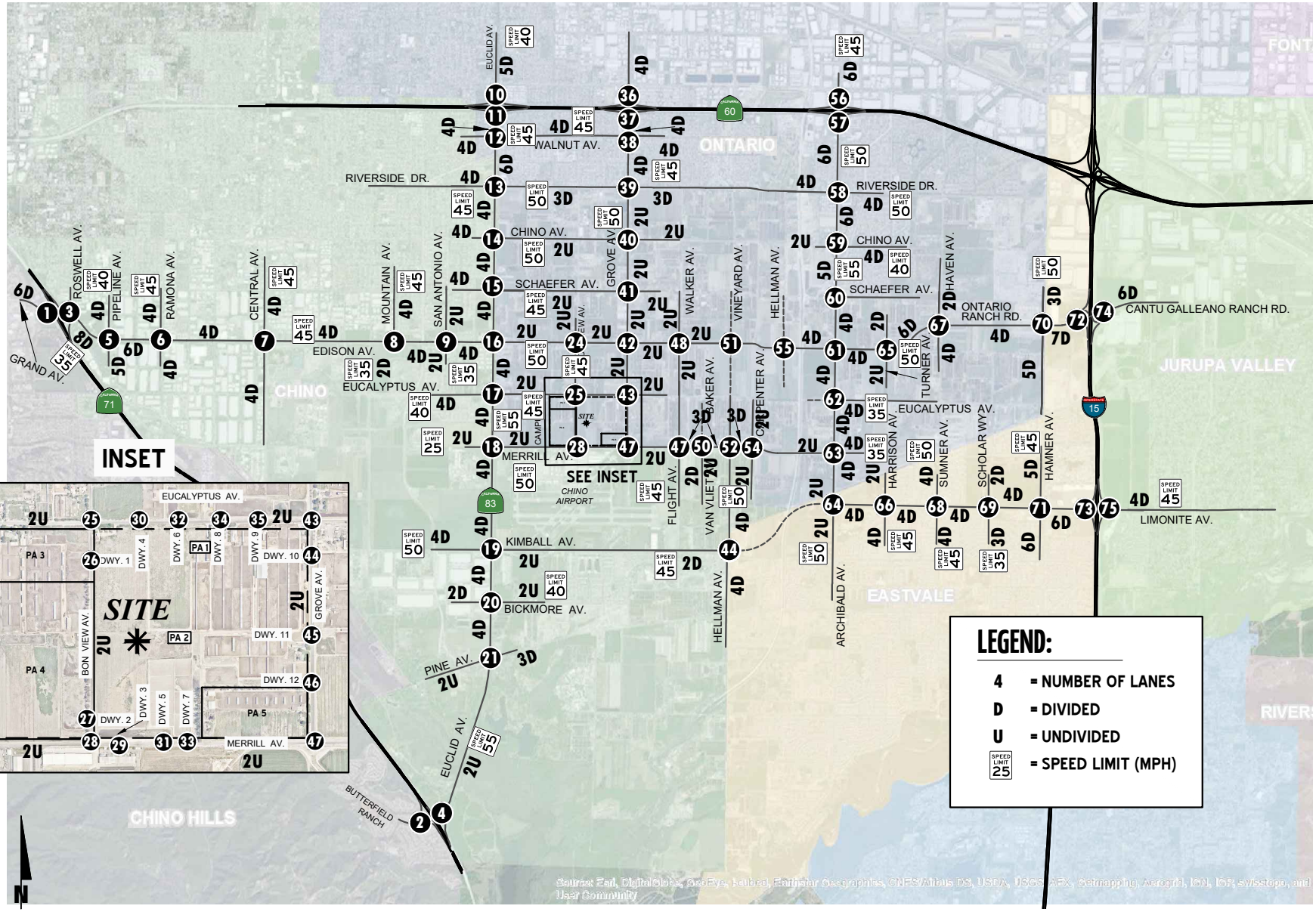

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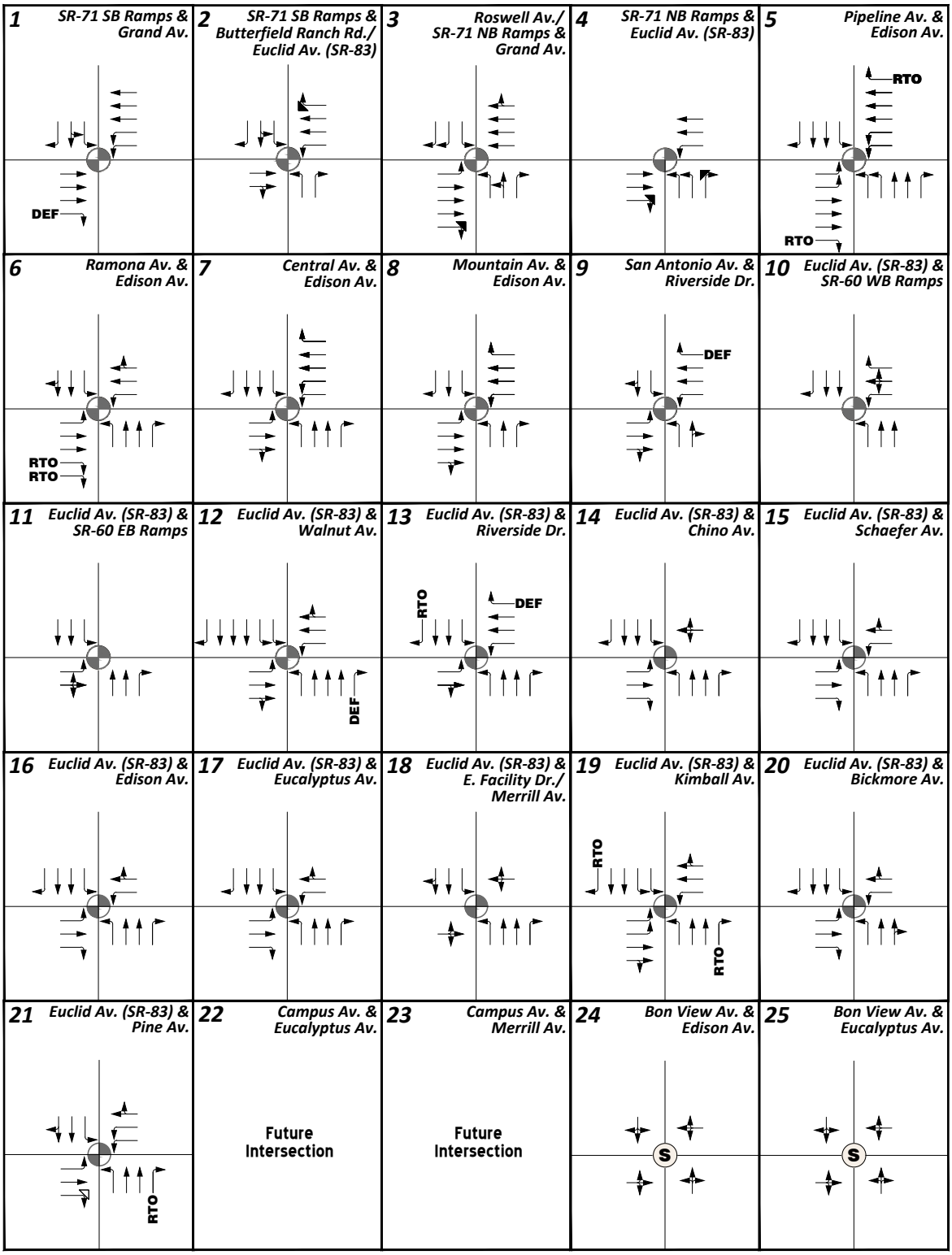
EXHIBIT 3-1 (2OF4): EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS



LEGEND:

- = TRAFFIC SIGNAL
- = ALL WAY STOP
- = FREE RIGHT TURN
- = CHANNELIZED YIELD
- RTO = RIGHT TURN OVERLAP
- DEF = DEFACTO RIGHT TURN

N

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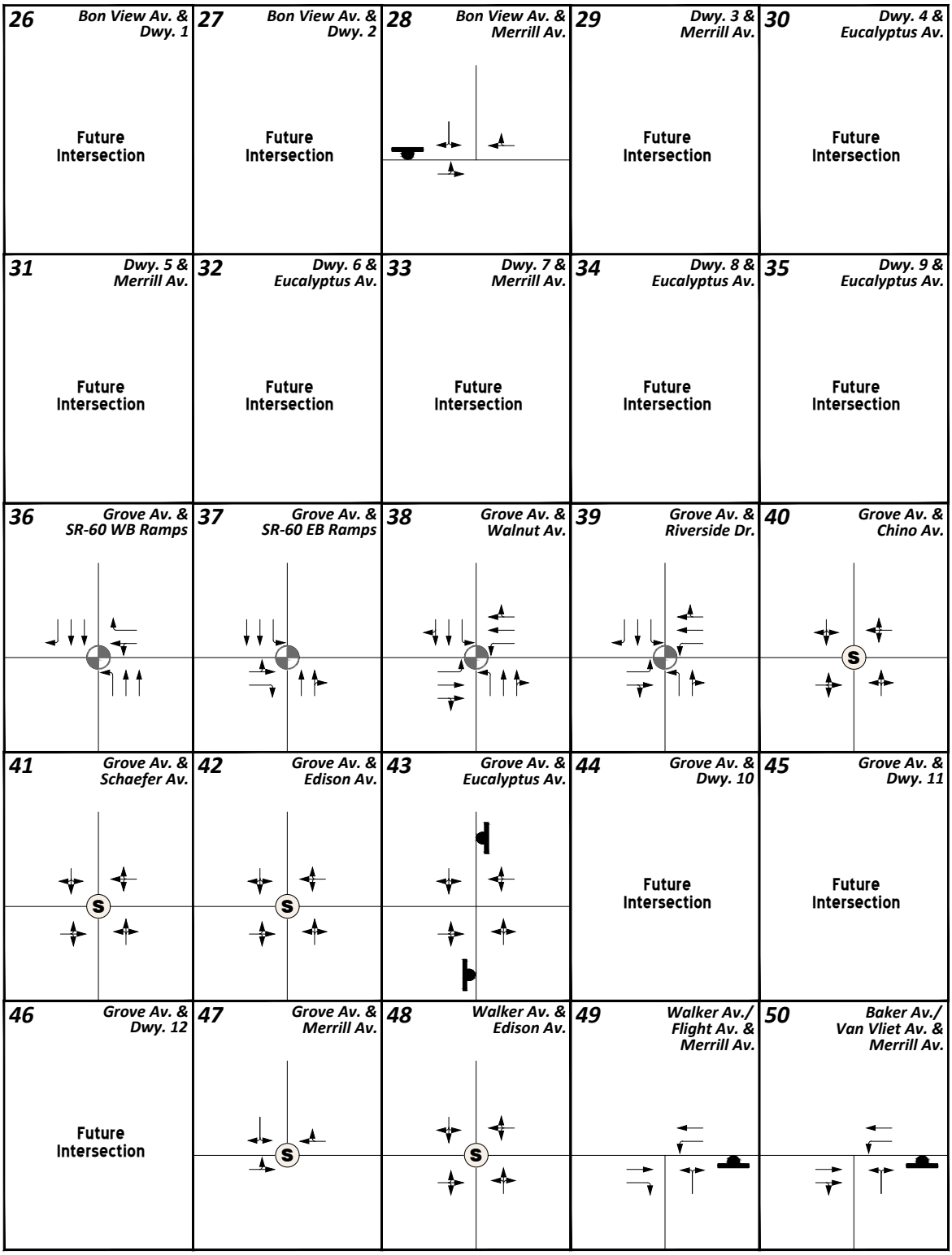
EXHIBIT 3-1 (3OF4): EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS



LEGEND:

= TRAFFIC SIGNAL

= ALL WAY STOP

= STOP SIGN

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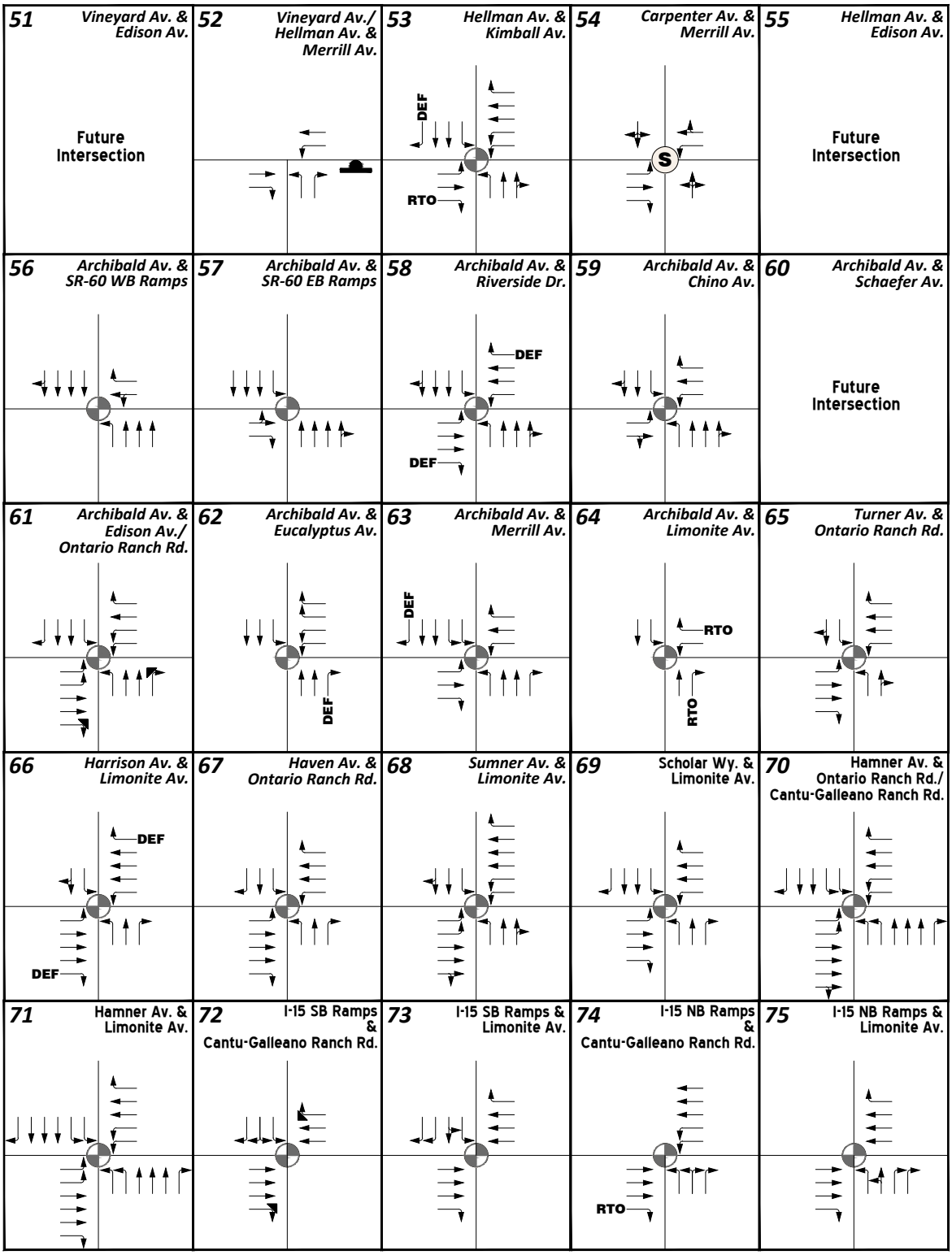
URBAN CROSSROADS

EXHIBIT 3-1 (4OF4): EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS



LEGEND:

= TRAFFIC SIGNAL DEF = DEFACTO RIGHT TURN

= FREE RIGHT TURN = STOP SIGN

RTO = RIGHT TURN OVERLAP

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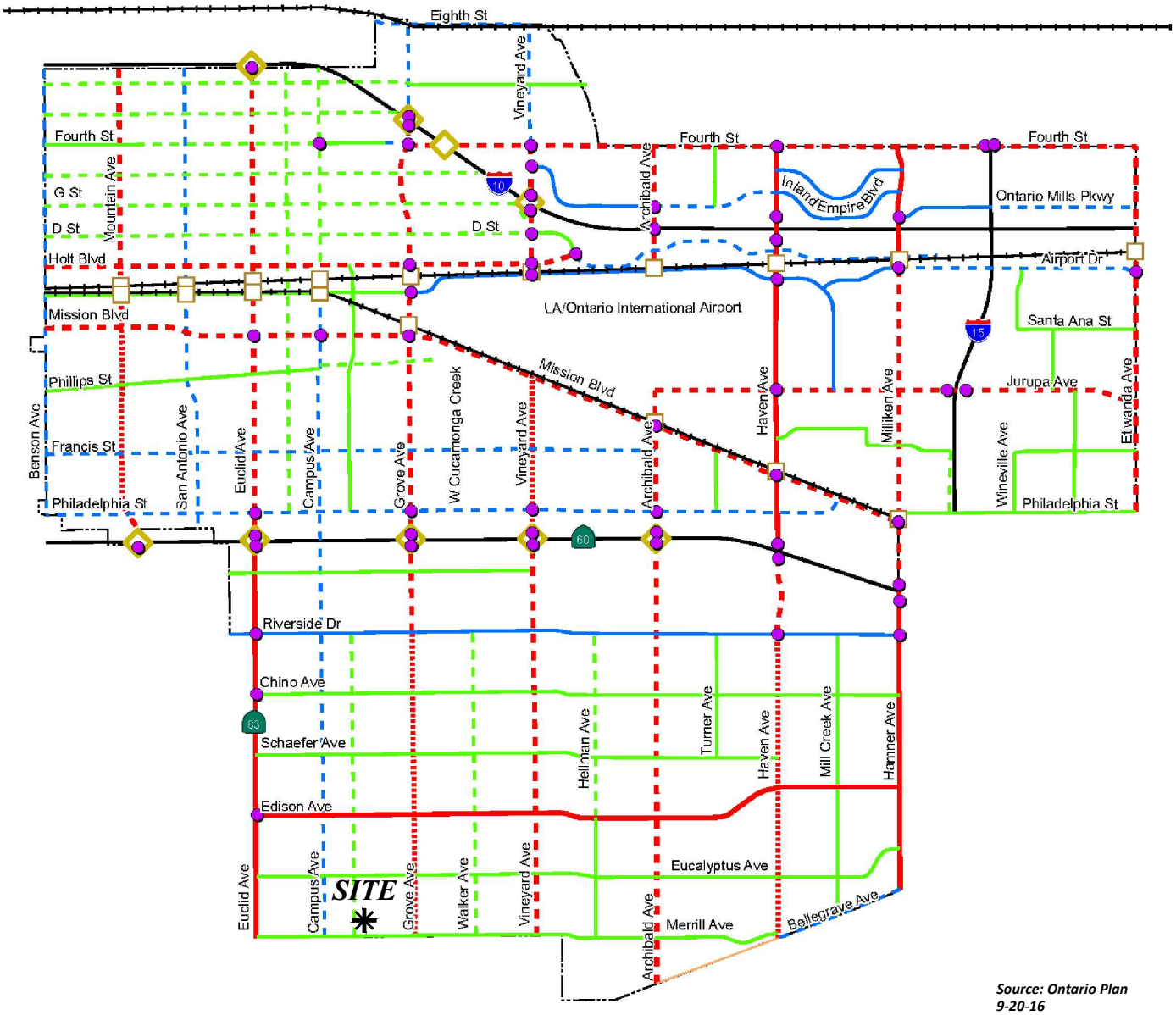
EXHIBIT 3-2: CITY OF ONTARIO GENERAL PLAN CIRCULATION ELEMENT



Source: Ontario Plan 9-20-16

Other Principal Arterial
- 8 Lanes
- 6 Lanes
- 4 Lanes

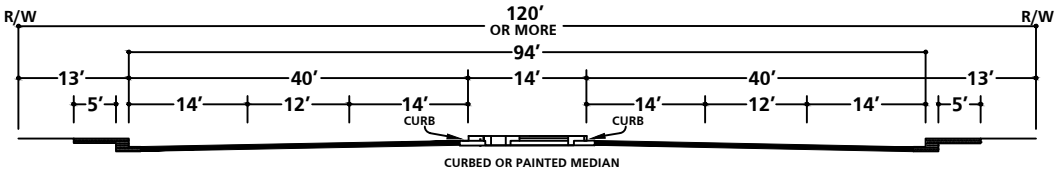
Minor Arterial
- 6 Lanes
- 4 Lanes

Collector Street
- 4 Lanes
- 2 Lanes

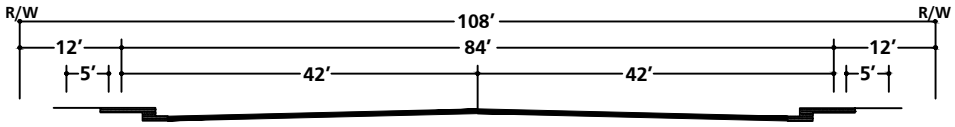
Freeways
Railroads
Freeway Interchange
Grade-Separated Rail Crossings
Enhanced Intersections

N

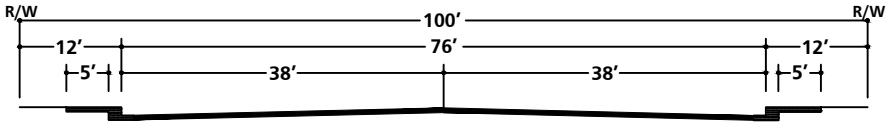
EXHIBIT 3-3: CITY OF ONTARIO GENERAL PLAN ROADWAY CROSS-SECTIONS



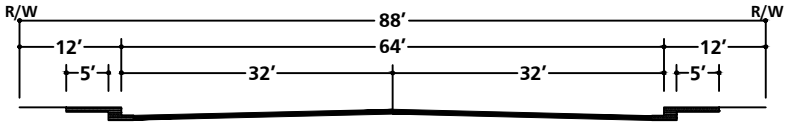
PRINCIPAL ARTERIAL



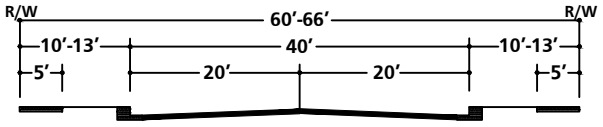
MINOR ARTERIAL



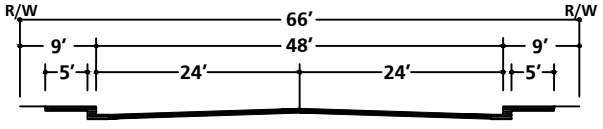
OTHER PRINCIPAL ARTERIAL



COLLECTOR STREET



LOCAL STREET



LOCAL INDUSTRIAL STREET

SOURCE: CITY OF ONTARIO

The study area roadway that is classified as a 6-lane Minor Arterial is identified as having three lanes of travel in each direction. The following study area roadway within the City of Ontario is classified as a 6-lane Minor Arterial:

- Riverside Drive

The study area roadway that is classified as a 4-lane Minor Arterial is identified as having two lanes of travel in each direction and a 14-foot median. The following study area roadway within the City of Ontario is classified as a 4-lane Minor Arterial:

- Bellegrave Avenue from Haven Avenue to Hamner Avenue

The study area roadways that are classified as Collector Streets are identified as having two to four lanes of travel in each direction. The following study area roadways within the City of Ontario are classified as Collector Streets:

- Walnut Street
- Chino Avenue
- Schaefer Avenue
- Eucalyptus Avenue
- Merrill Avenue
- Bon View Avenue
- Walker Avenue
- Hellman Avenue
- Turner Avenue

3.3 CITY OF CHINO, CITY OF CHINO HILLS, CITY OF EASTVALE, CITY OF JURUPA VALLEY GENERAL PLAN CIRCULATION ELEMENT

Exhibits 3-4 and 3-5 show the City of Chino General Plan Circulation Element and roadway cross-sections, respectively. Exhibits 3-6 and 3-7 show the City of Chino Hills General Plan Circulation Element and roadway cross-sections, respectively. Exhibits 3-8 and 3-9 show the City of Eastvale General Plan Circulation Element and roadway cross-sections, respectively. Lastly, Exhibits 3-10 and 3-11 show the City of Jurupa Valley General Plan Circulation Element and roadway cross-sections, respectively.

3.4 TRUCK ROUTES

The City of Ontario designated truck route map is shown on Exhibit 3-12. Euclid Avenue (SR-83), Edison Avenue/Ontario Ranch Road, Merrill Avenue, Archibald Avenue, and Hamner Avenue/Milliken Avenue are designated as Truck Routes in the City of Ontario. The designated truck route map has been utilized to route truck traffic for the proposed Project and cumulative development projects throughout the study area.

EXHIBIT 3-4: CITY OF CHINO GENERAL PLAN CIRCULATION ELEMENT

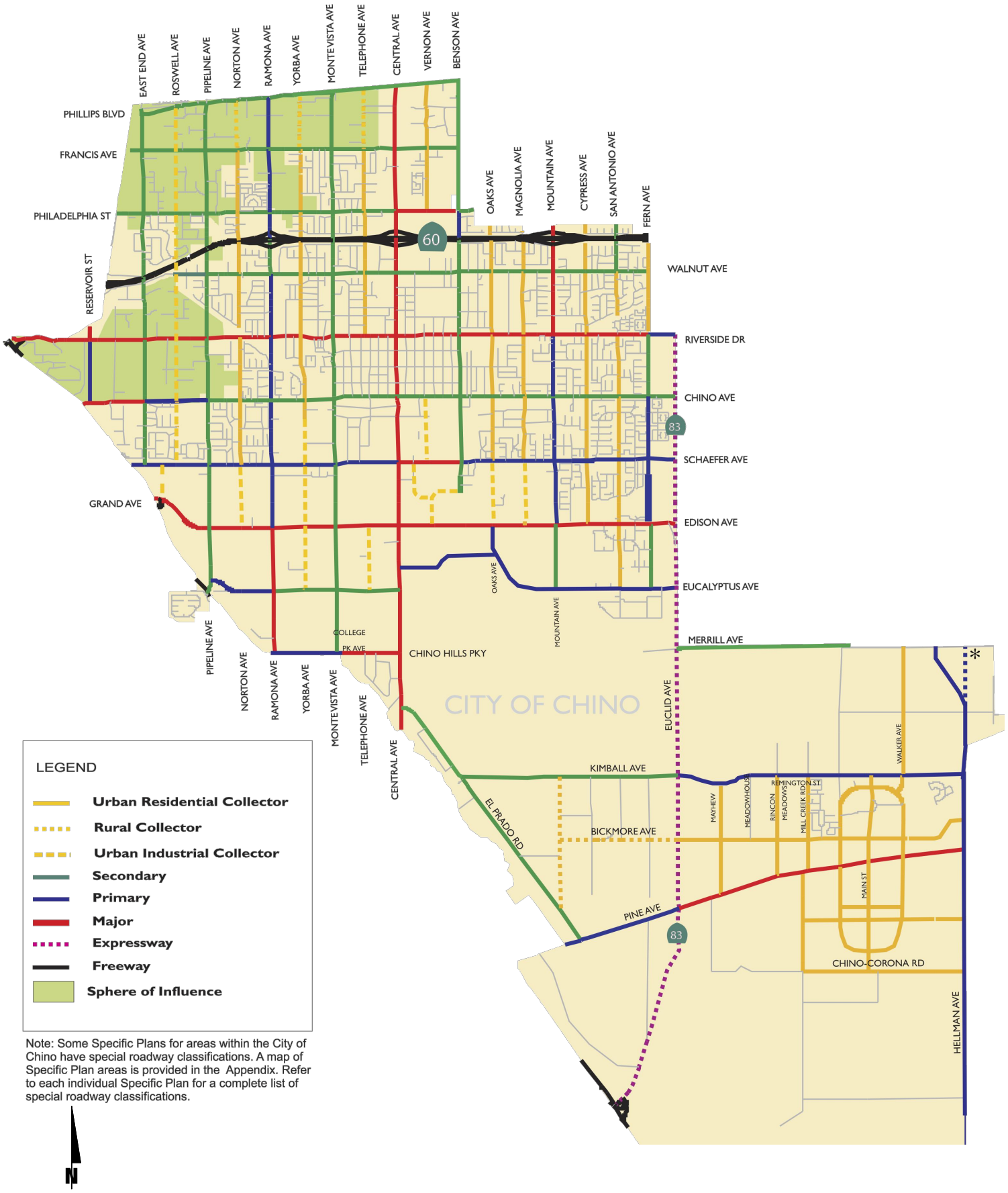
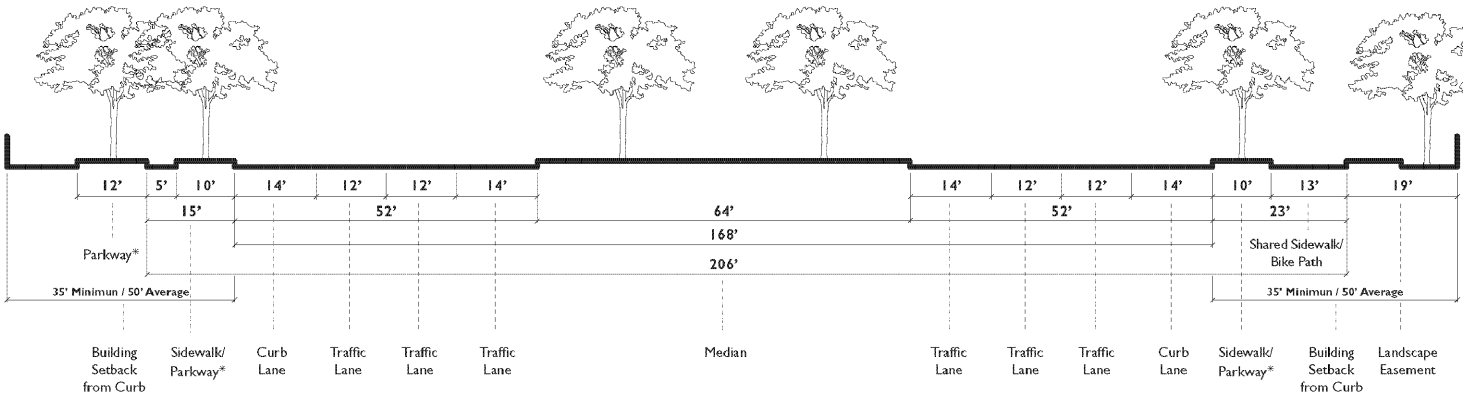
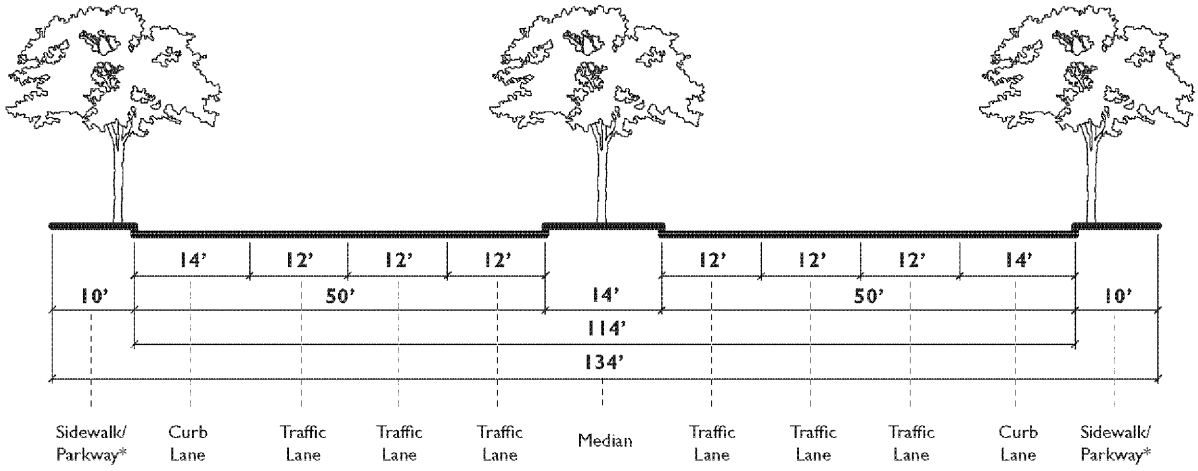


EXHIBIT 3-5 (1 of 2): CITY OF CHINO GENERAL PLAN ROADWAY CROSS-SECTIONS

Major Arterial (Expressway): Typical 8 Lane
Provides 8 traffic lanes and a wide median without parking



Major Arterial: Minimum 8 Lane
Provides 8 traffic lanes and 2 bicycle lanes separated by a median without parking



Major Arterial: Minimum 6 Lane
Provides 6 traffic lanes and 2 bicycle lanes separated by a median without parking

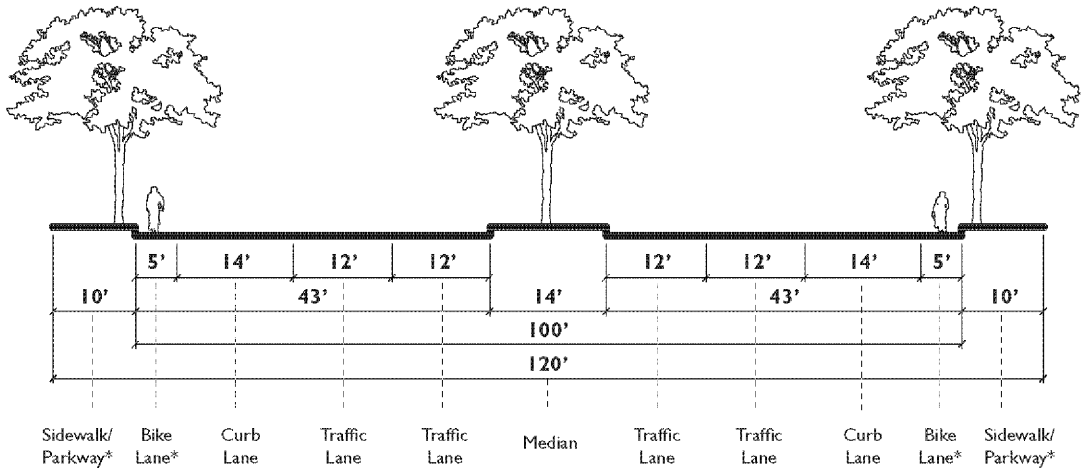
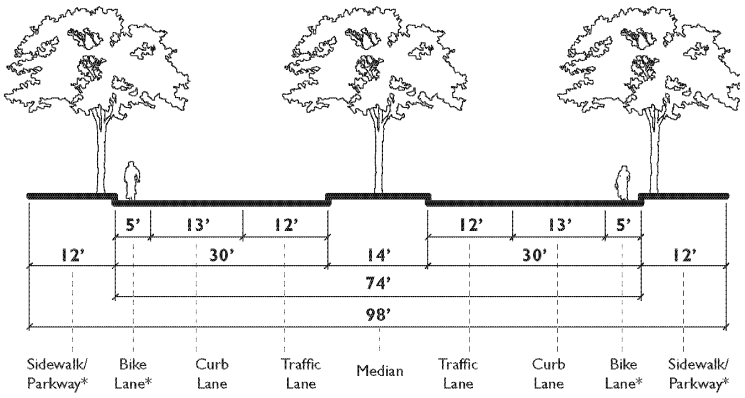
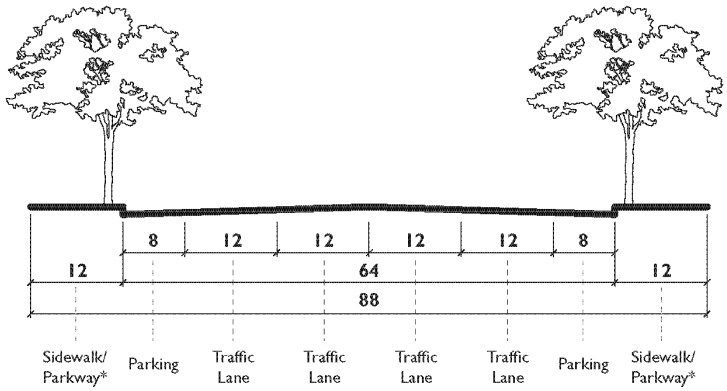


EXHIBIT 3-5 (2 of 2): CITY OF CHINO GENERAL PLAN ROADWAY CROSS-SECTIONS

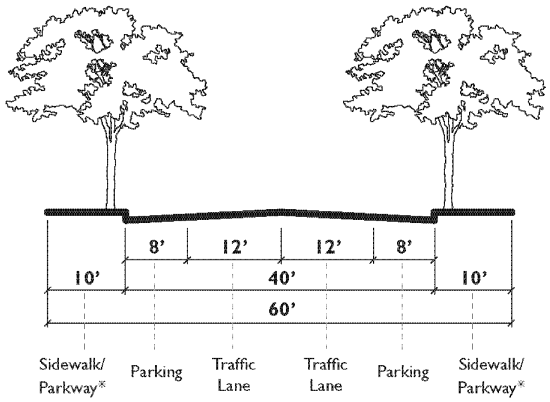
Primary Arterial: Typical 4 Lane
Provides 4 traffic lanes and 2 bicycle lanes separated by a median without parking



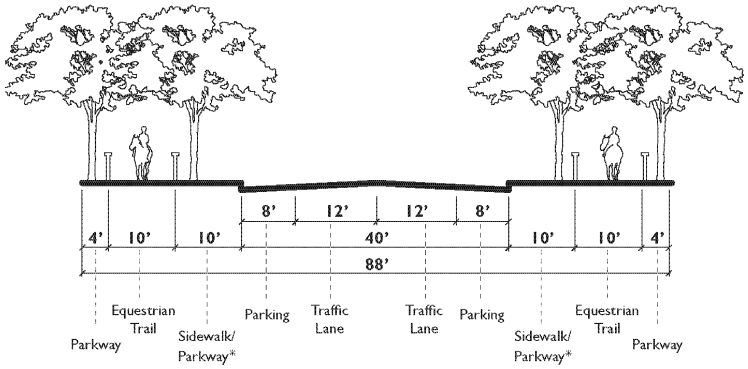
Secondary Arterial
Provides 4 traffic lanes with parking



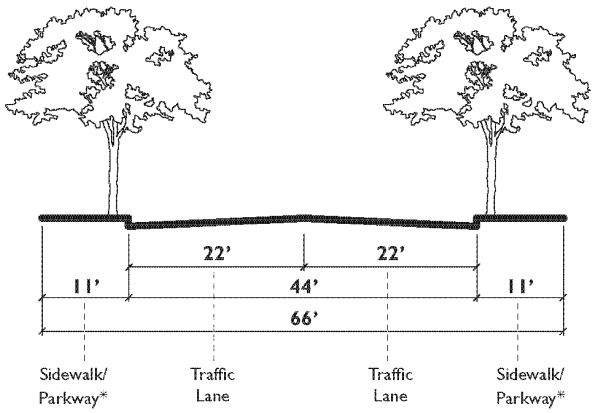
Urban Residential/Rural Collector
Provides 2 traffic lanes with parking and shared bicycle access



Urban Residential/Rural Collector with Equestrian Trails
Provides 2 traffic lanes and 2 equestrian trails with parking and shared bicycle access



Urban Industrial Collector
Provides 2 traffic lanes



Local Street
Provides 2 traffic lanes

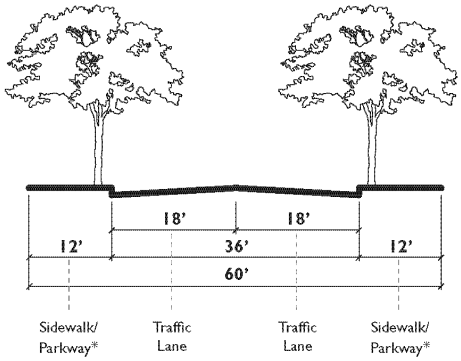


EXHIBIT 3-6: CITY OF CHINO HILLS GENERAL PLAN ROADWAY SEGMENTS

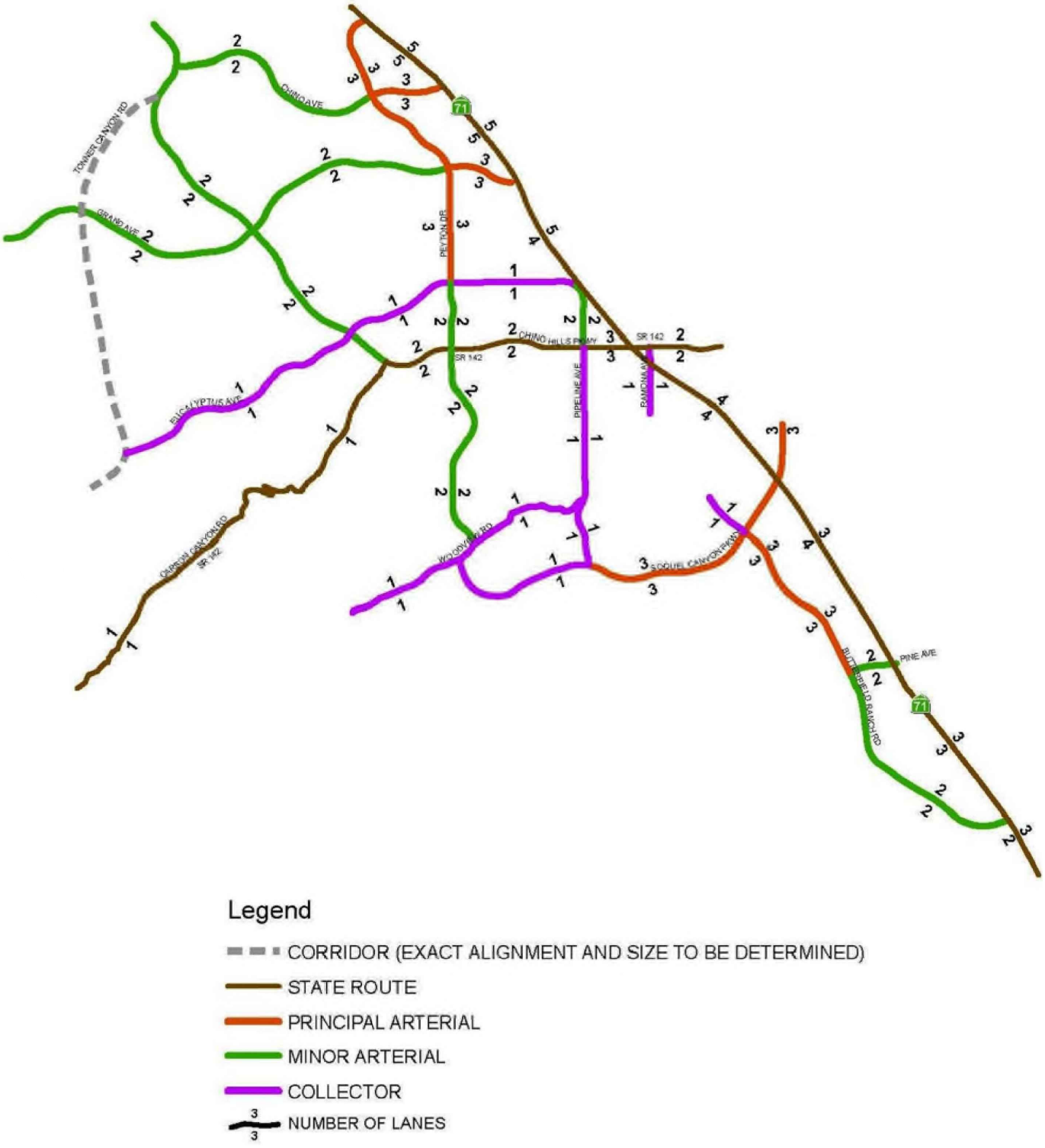
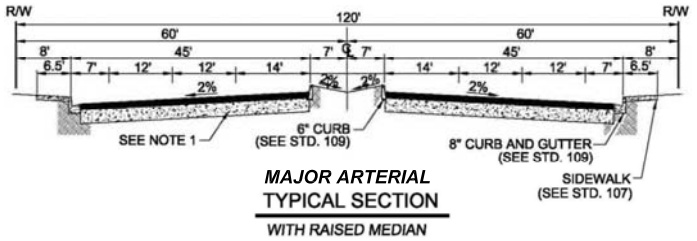
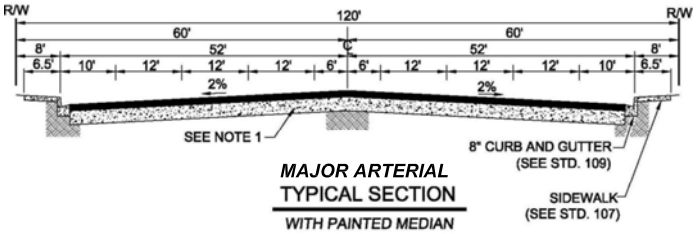
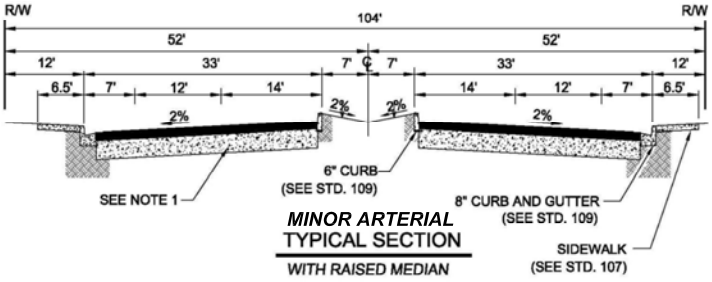
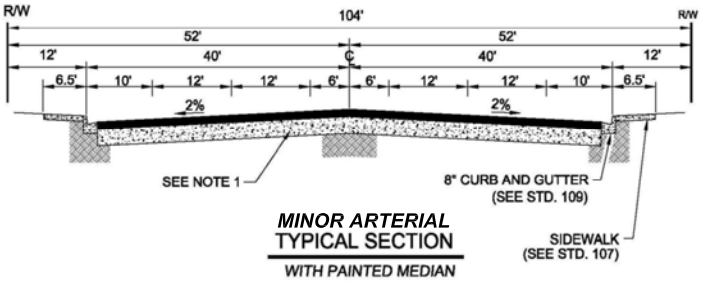


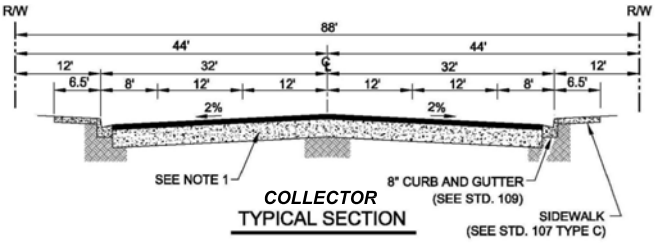
EXHIBIT 3-7: CITY OF CHINO HILLS GENERAL PLAN ROADWAY CROSS-SECTIONS











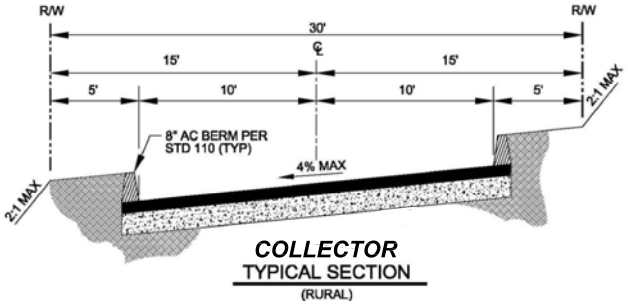
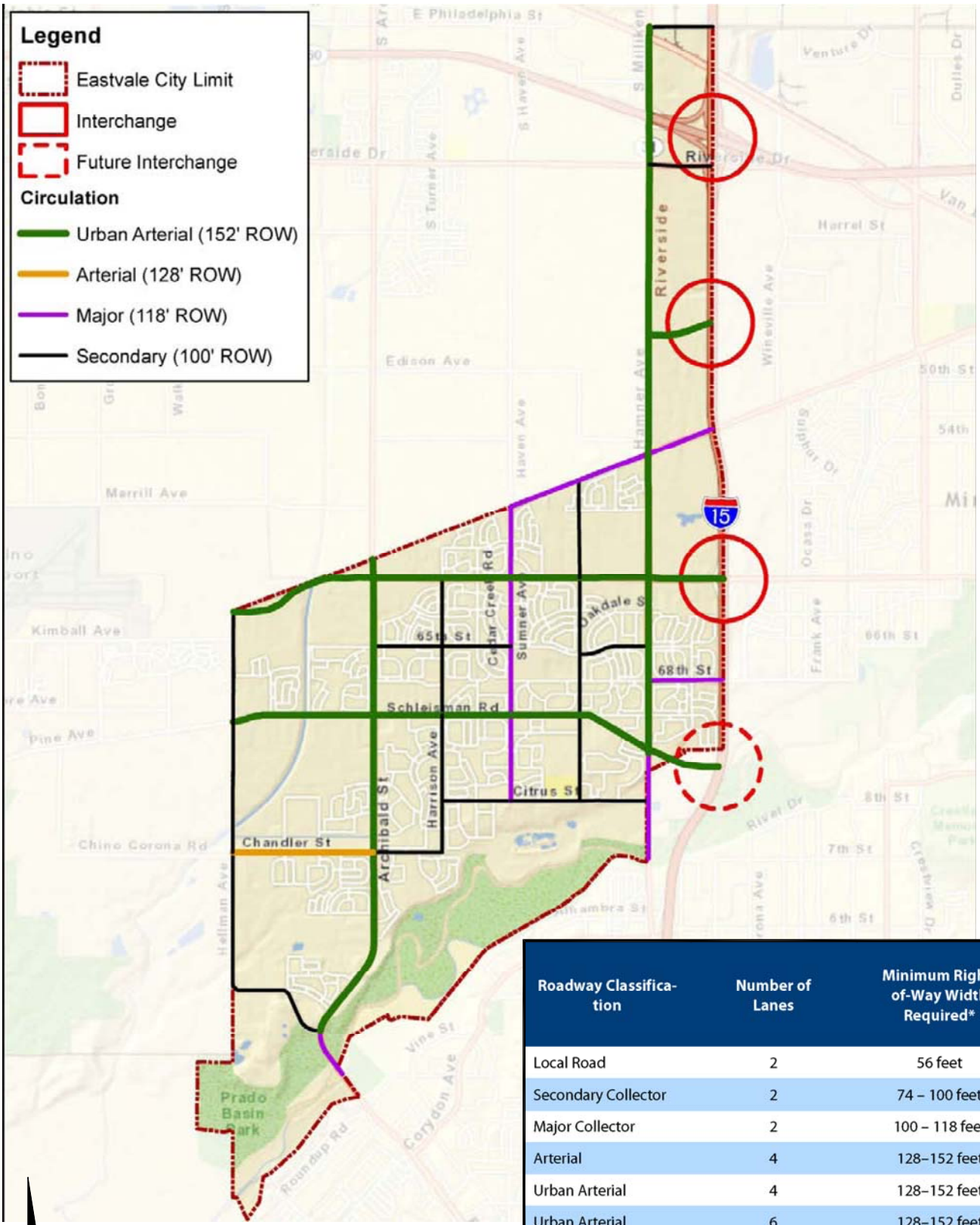


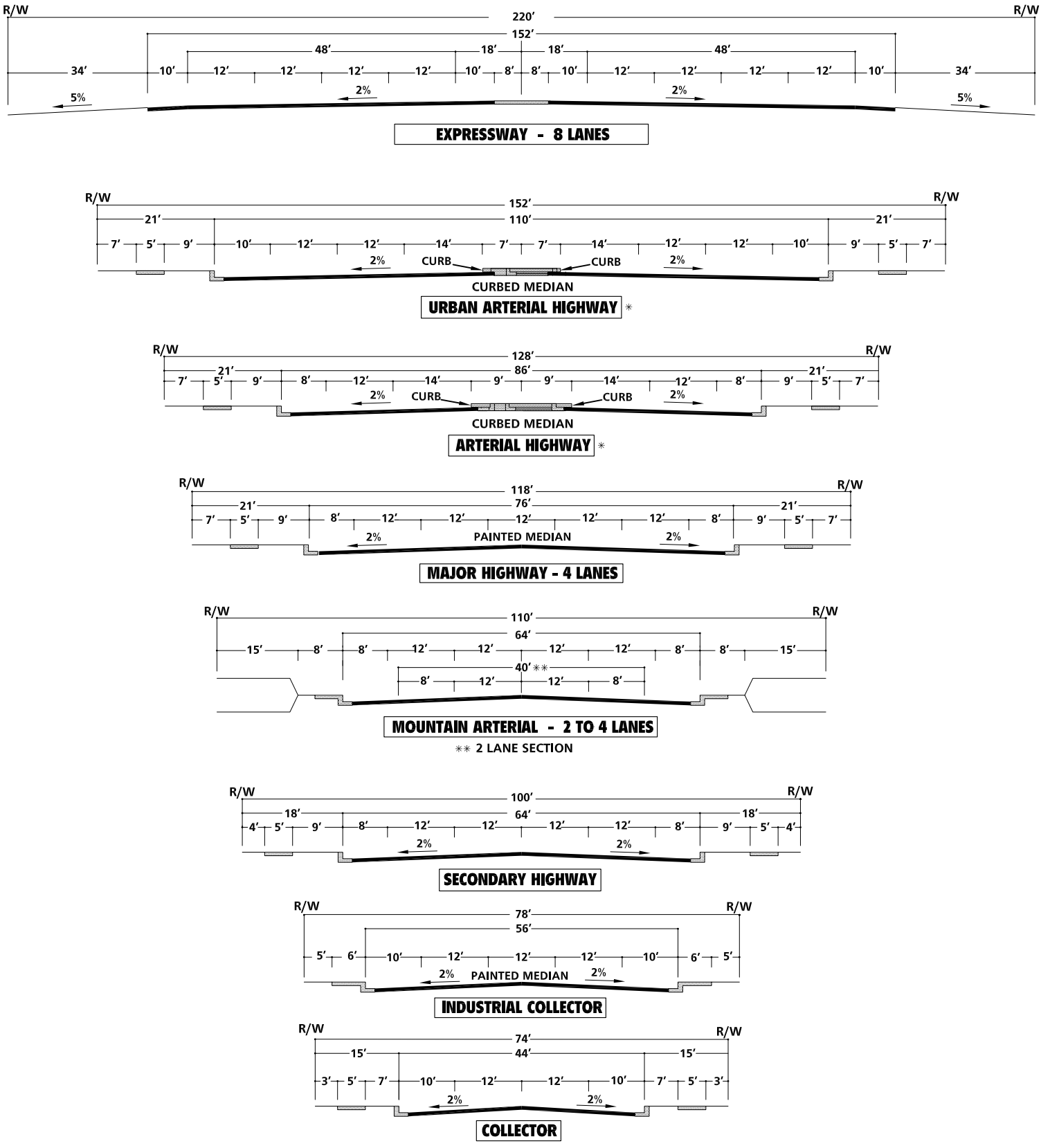
EXHIBIT 3-8: CITY OF EASTVALE GENERAL PLAN CIRCULATION ELEMENT



Roadway Classification	Number of Lanes	Minimum Right-of-Way Width Required*
Local Road	2	56 feet
Secondary Collector	2	74 – 100 feet
Major Collector	2	100 – 118 feet
Arterial	4	128–152 feet
Urban Arterial	4	128–152 feet
Urban Arterial	6	128–152 feet

SOURCE: CITY OF EASTVALE GENERAL PLAN
ADOPTED: JUNE 13, 2012

EXHIBIT 3-9: CITY OF EASTVALE GENERAL PLAN ROADWAY CROSS-SECTIONS



* *IMPROVEMENTS MAY BE RECONFIGURED TO ACCOMMODATE EXCLUSIVE TRANSIT LANES OR ALTERNATIVE LANE ARRANGEMENTS ADDITIONAL RIGHT OF WAY MAY BE REQUIRED AT INTERSECTIONS TO ACCOMMODATE ULTIMATE IMPROVEMENTS FOR STATE HIGHWAYS SHALL CONFORM TO CALTRANS DESIGN STANDARDS.*

NOT TO SCALE

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EXHIBIT 3-10: CITY OF JURUPA VALLEY CIRCULATION ELEMENT

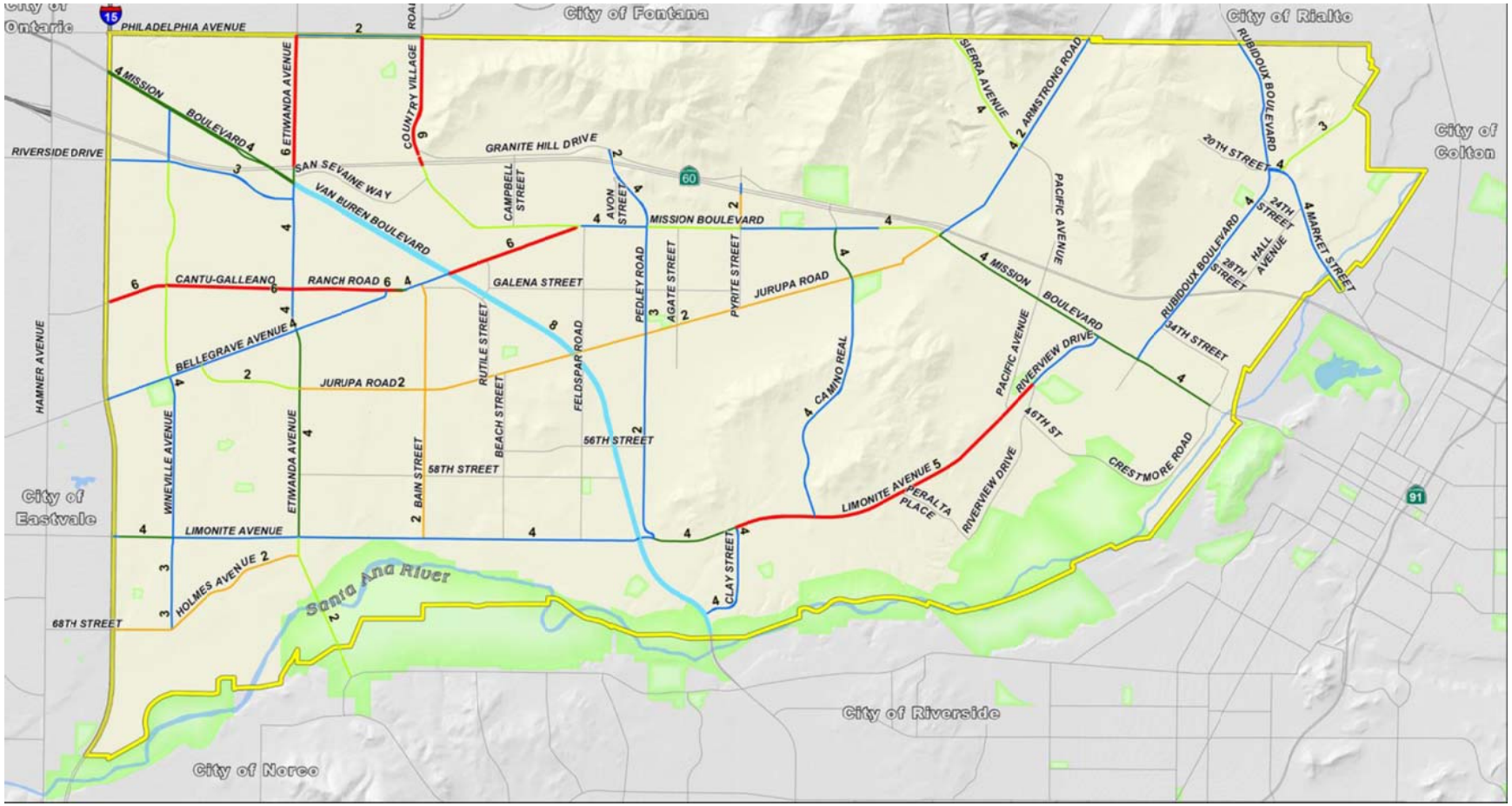


EXHIBIT 3-11: CITY OF JURUPA VALLEY GENERAL PLAN ROADWAY CROSS-SECTIONS

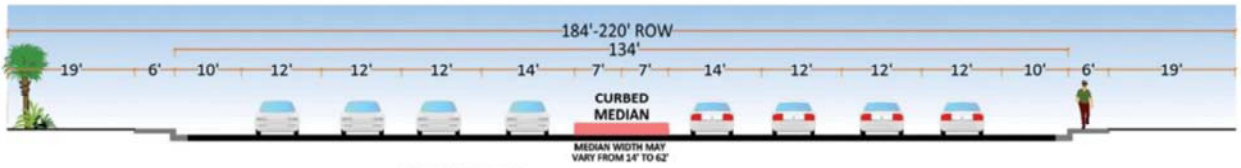


EXHIBIT 1: EXPRESSWAY- 6 TO 8 LANES

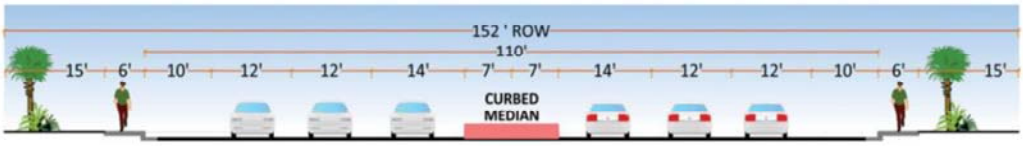


EXHIBIT 2: URBAN ARTERIAL

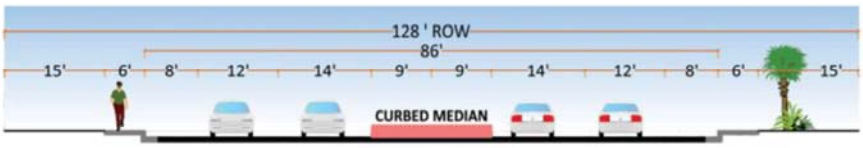


EXHIBIT 3: ARTERIAL

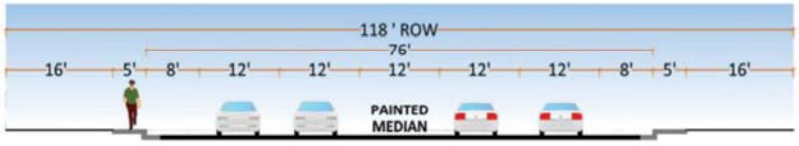


EXHIBIT 4: MAJOR - 4 LANES

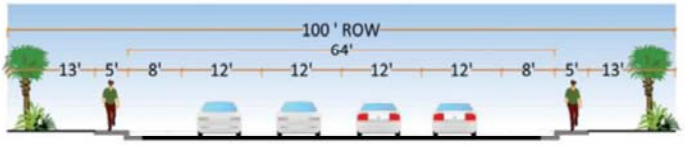


EXHIBIT 5: SECONDARY

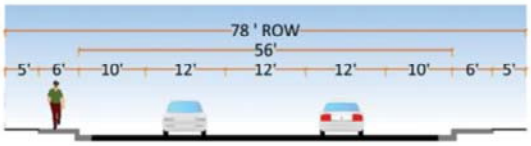


EXHIBIT 6: INDUSTRIAL COLLECTOR

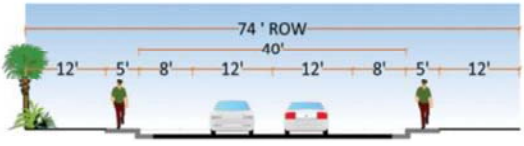
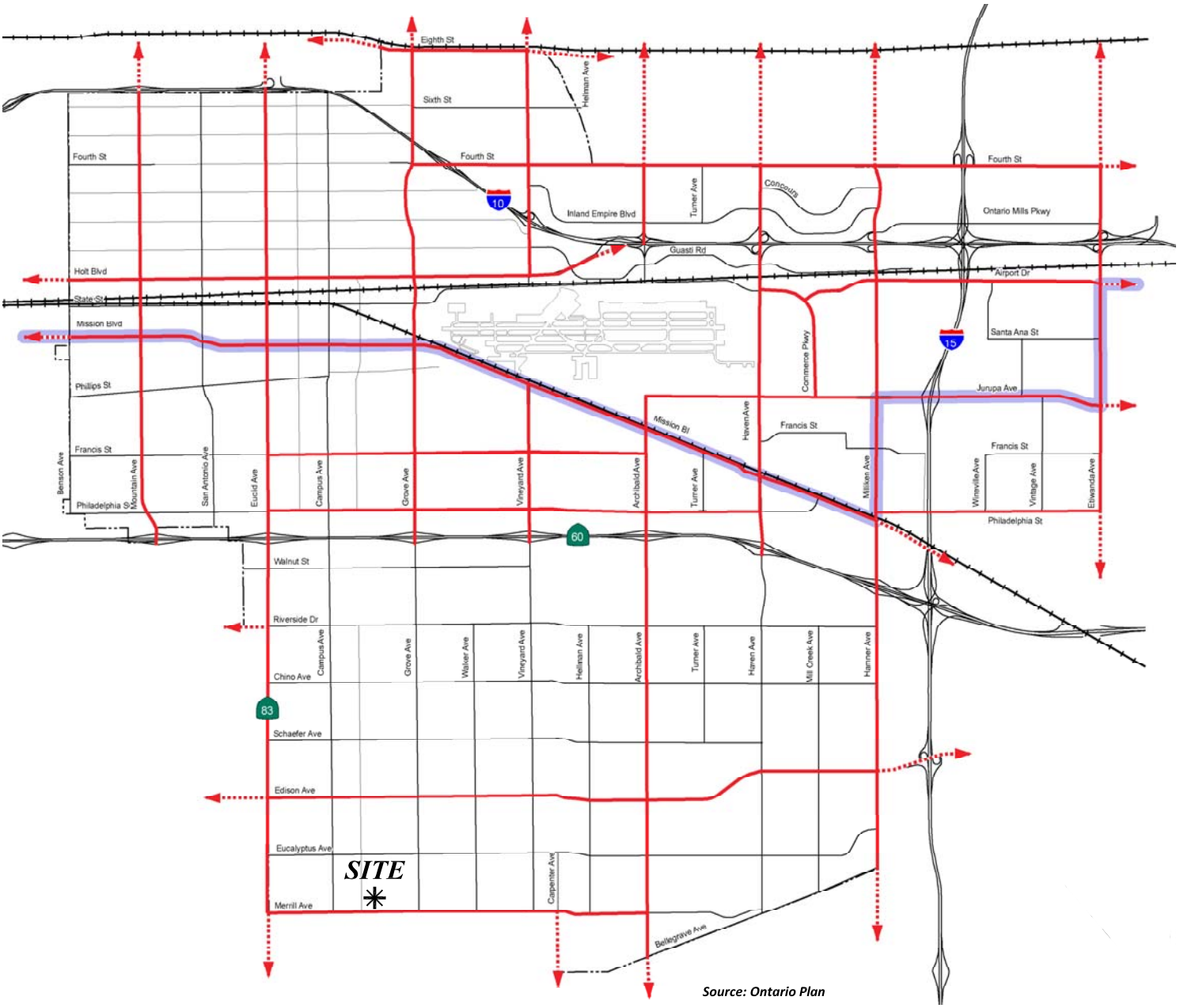


EXHIBIT 7: COLLECTOR

EXHIBIT 3-12: CITY OF ONTARIO TRUCK ROUTES



Source: Ontario Plan

LEGEND:

- Truck Routes
- State of California DOT Extralegal Load Network
- Railroad
- Adjacent Agency Truck Route
- Exisitng Streets

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URBAN CROSSROADS

The City of Chino designated truck route map is shown on Exhibit 3-13. Riverside Drive, Central Avenue, Edison Avenue, Merrill Avenue, Kimball Avenue, Pine Avenue, Flight Avenue, and Hellman Avenue are some of the designated City of Chino truck routes within the study area while Euclid Avenue (SR-83) is designated as a State Truck Route. The designated truck route map has been utilized to route study area truck traffic.

3.5 BICYCLE, EQUESTRIAN, & PEDESTRIAN FACILITIES

Field observations indicate nominal pedestrian and bicycle activity within the study area. Exhibit 3-14 illustrates the City of Ontario future planned bicycle facilities, which proposes Class II and Multipurpose Trails along Merrill Avenue and Campus Avenue adjacent to the Project and the Cucamonga Creek Multipurpose Trail located east of the Project. A Multipurpose Trail is also proposed along Grove Avenue. Exhibit 3-15 illustrates City of Chino future bicycle facilities, which proposes Class I bicycle facilities along Hellman Avenue and Kimball Avenue near the vicinity of the site and Class II or II bicycle facilities along Euclid Avenue (SR-83). Exhibit 3-16 illustrates the City of Eastvale trails and bikeway systems. Existing pedestrian facilities within the study area are shown on Exhibit 3-17.

3.6 TRANSIT SERVICE

The study area within the City of Ontario is currently served by Omnitrans, a public transit agency serving various jurisdictions within San Bernardino County. Based on a review of the existing transit routes within the vicinity of the proposed Project, Omnitrans Route 81 operates on Riverside Drive north of the site. However, there are no existing bus routes near the vicinity of the Project. The Riverside Transit Authority (RTA) serves the City of Eastvale (and other areas of Riverside County). Transit service is reviewed and updated by Omnitrans periodically to address ridership, budget and community demand needs. Changes in land use can affect these periodic adjustments which may lead to either enhanced or reduced service where appropriate. As such, it is recommended that the applicant work in conjunction with Omnitrans to potentially provide additional bus service to the site. Existing transit routes in the vicinity of the study area are illustrated on Exhibit 3-18.

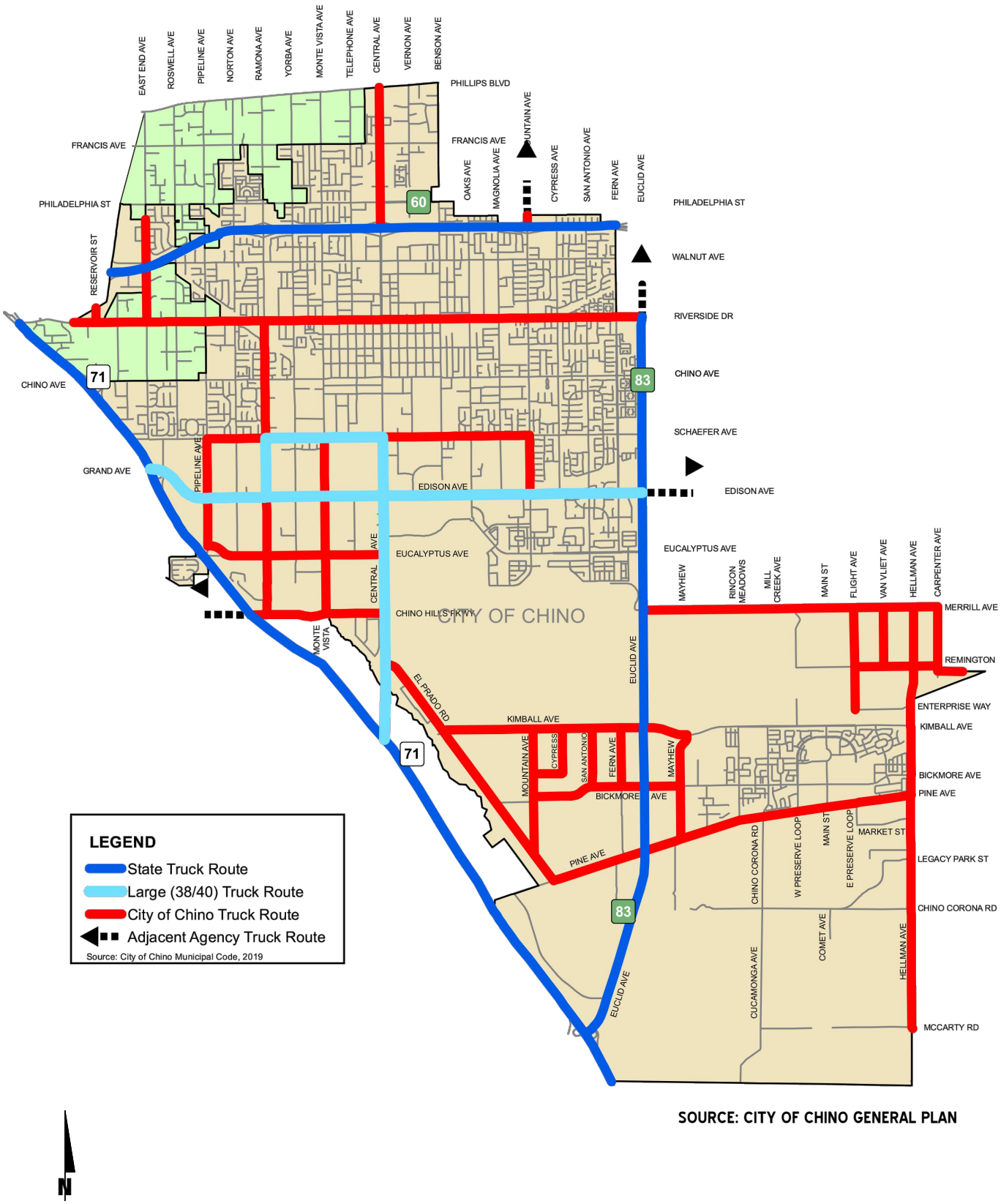
3.7 EXISTING TRAFFIC COUNTS

The intersection LOS analysis is based on the traffic volumes observed during the peak hour conditions using traffic count data collected in January 2019. The following peak hours were selected for analysis:

- Weekday AM Peak Hour (peak hour between 7:00 AM and 9:00 AM)
- Weekday PM Peak Hour (peak hour between 4:00 PM and 6:00 PM)

The weekday AM and weekday PM peak hour count data is representative of typical weekday peak hour traffic conditions in the study area. There were no observations made in the field that would indicate atypical traffic conditions on the count dates, such as construction activity or detour routes and near-by schools were in session and operating on normal schedules. The raw manual peak hour turning movement traffic count data sheets are included in Appendix 3.1.

EXHIBIT 3-13: CITY OF CHINO TRUCK ROUTES



SOURCE: CITY OF CHINO GENERAL PLAN

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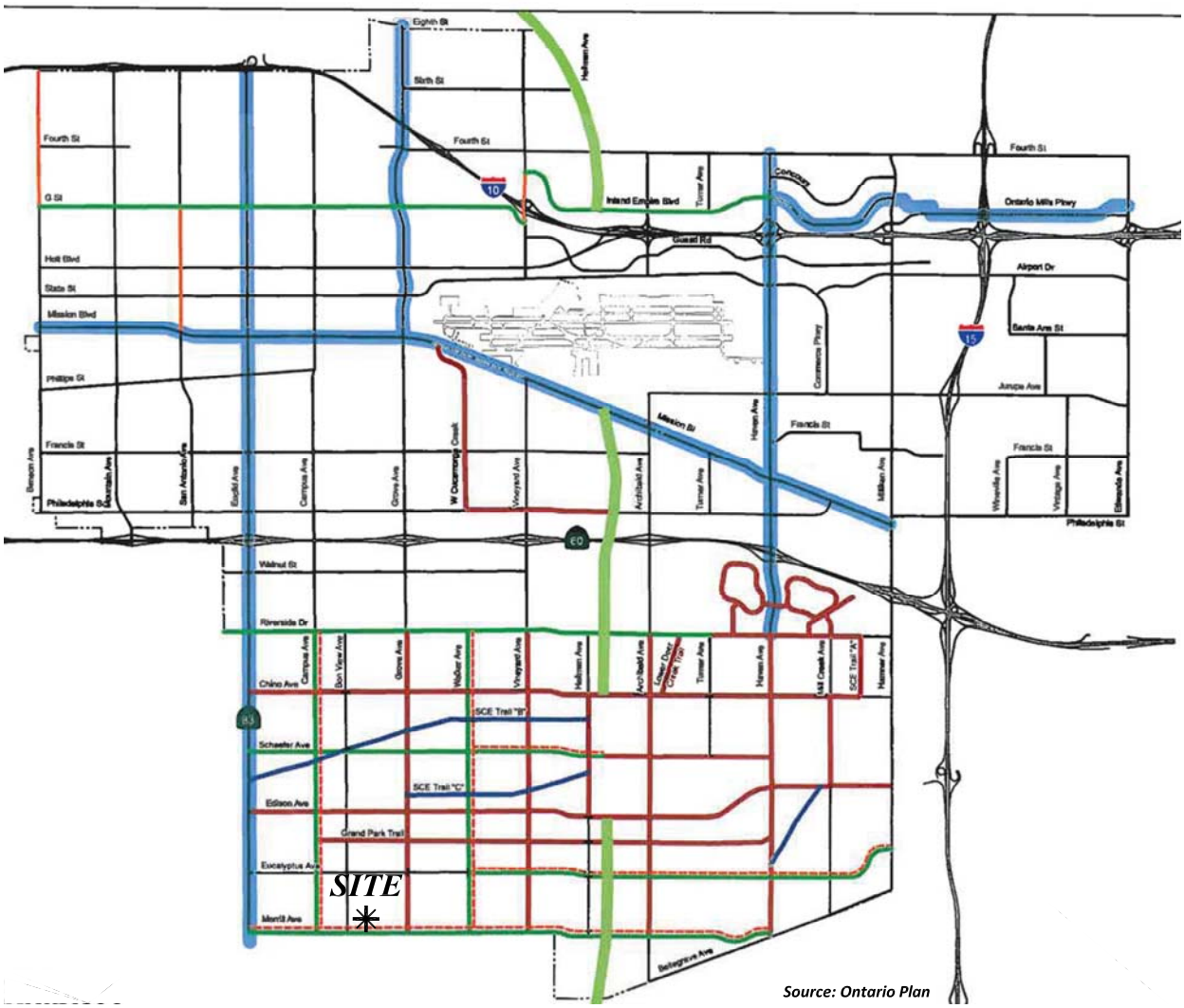
EXHIBIT 3-14: CITY OF ONTARIO GENERAL PLAN TRAILS AND BIKEWAY SYSTEMS



Source: Ontario Plan

LEGEND:

- Freeways
- Backbone Street System
- Multipurpose Trail
- Class II & Multipurpose Trail
- Class II
- Class III
- SCE Trails
- Cucamonga Creek Multipurpose Trail
- Bicycle Corridors

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EXHIBIT 3-15: CITY OF CHINO FUTURE BICYCLE FACILITIES

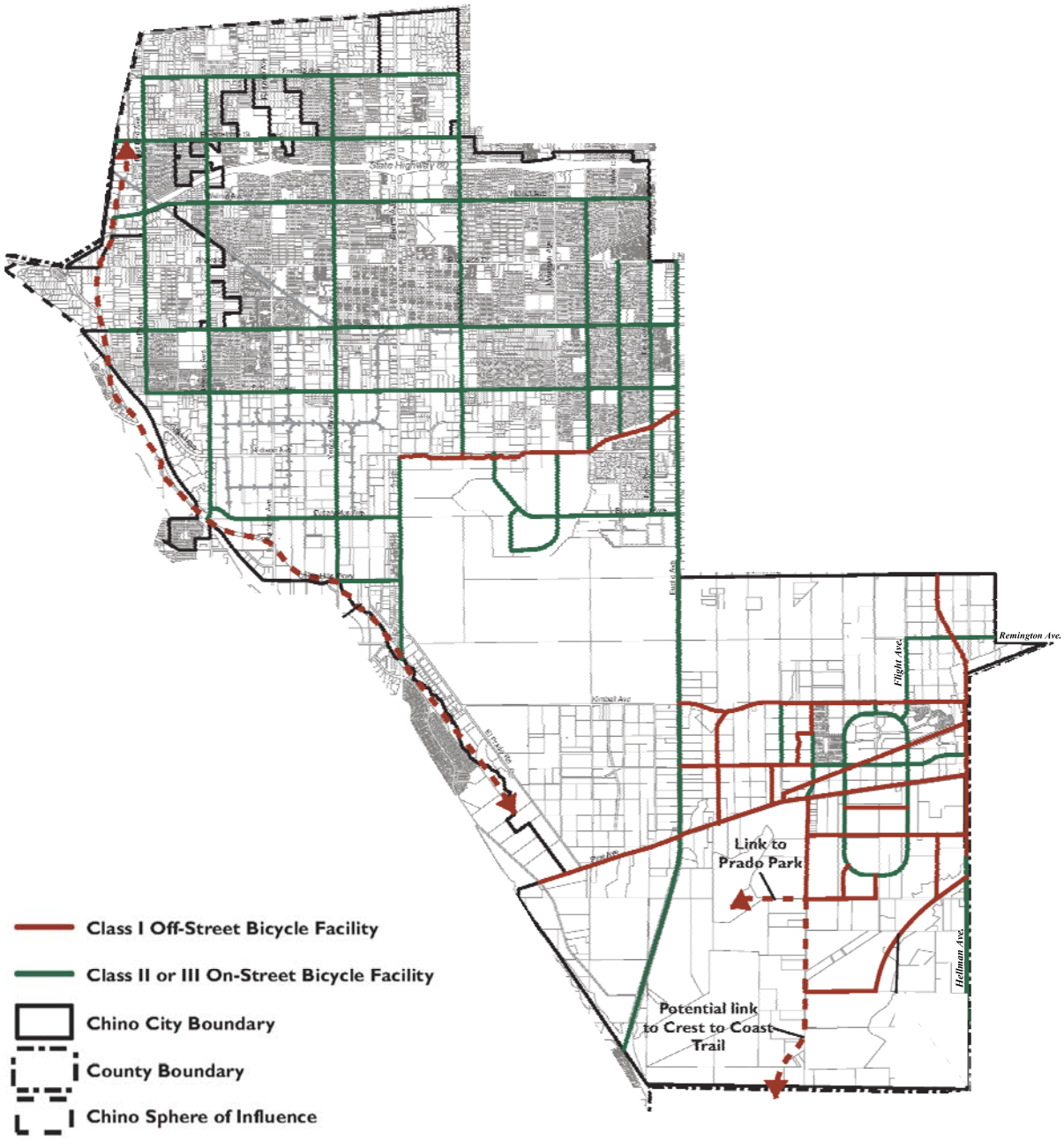

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EXHIBIT 3-16: EASTVALE AREA TRAILS AND BIKEWAYS SYSTEM

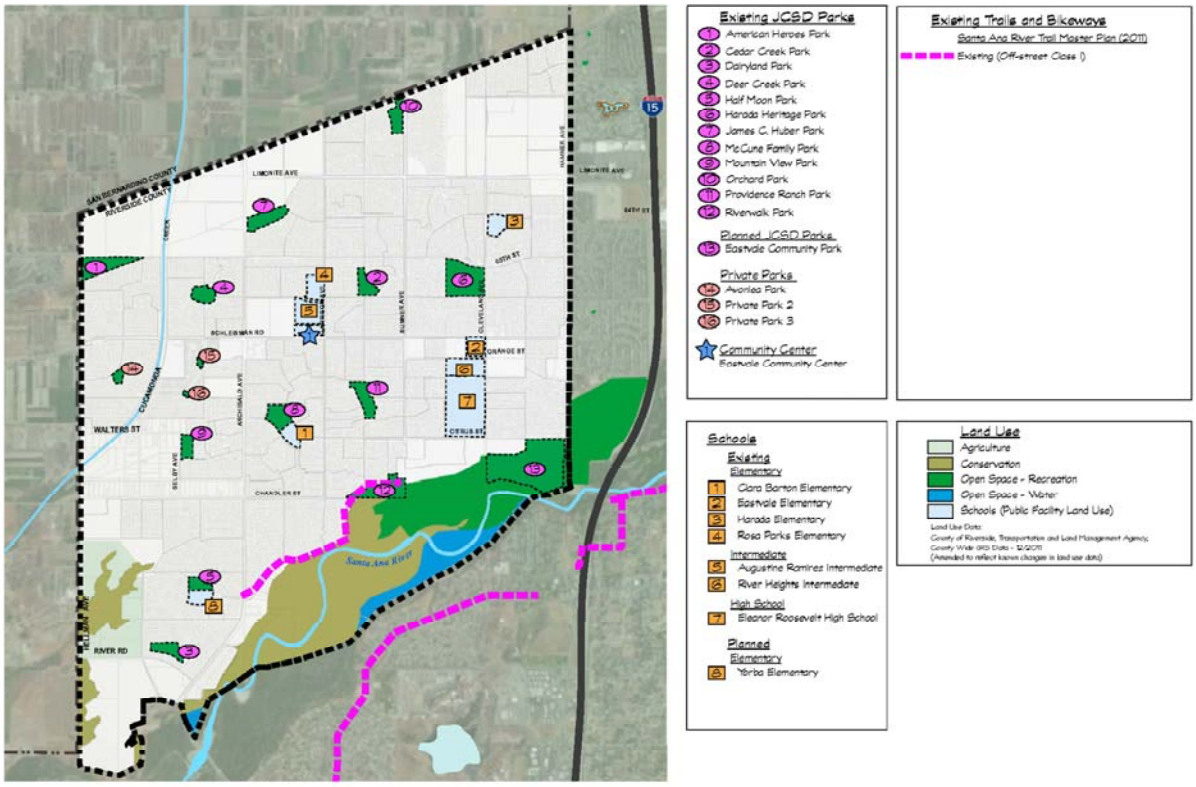


Exhibit 2.8-1 Existing Trails

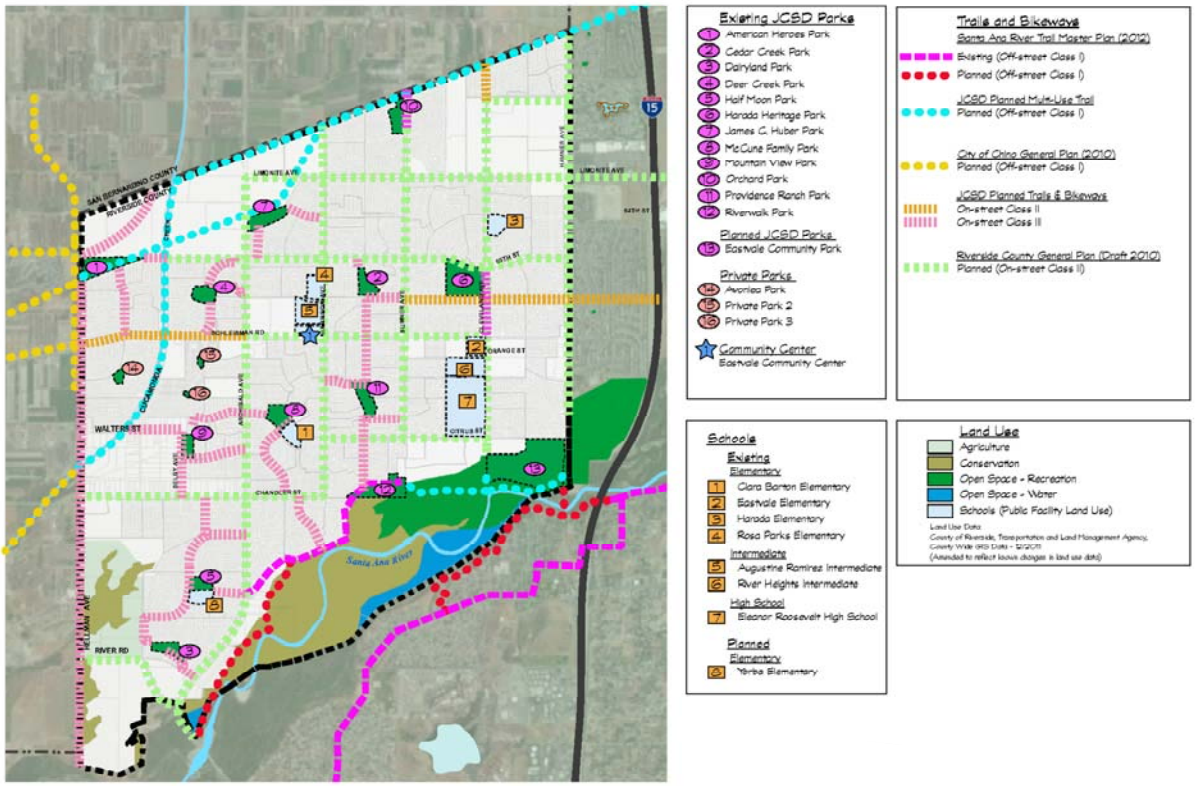


Exhibit 2.8-2 Planned Trails

EXHIBIT 3-17: EXISTING PEDESTRIAN FACILITIES

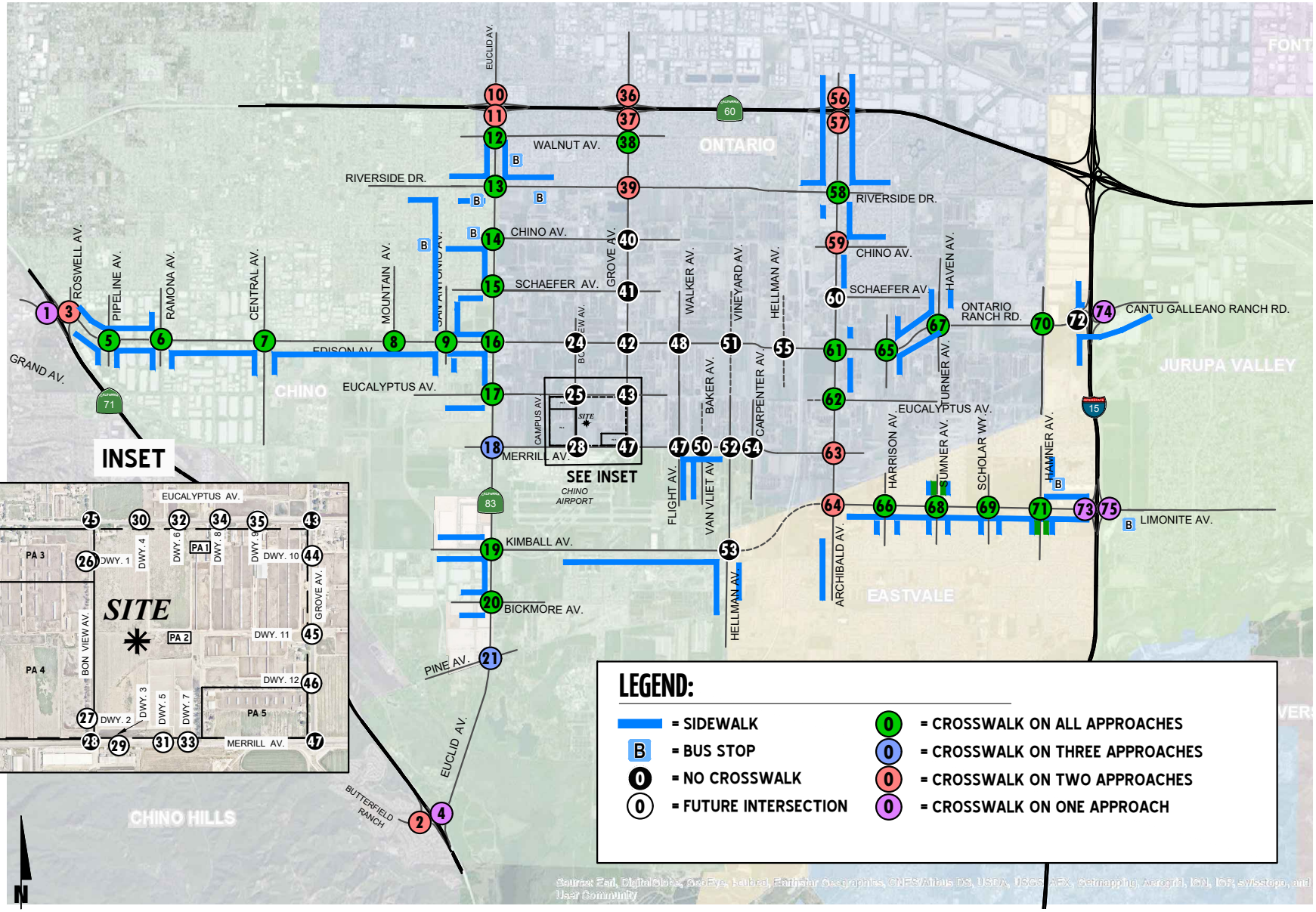
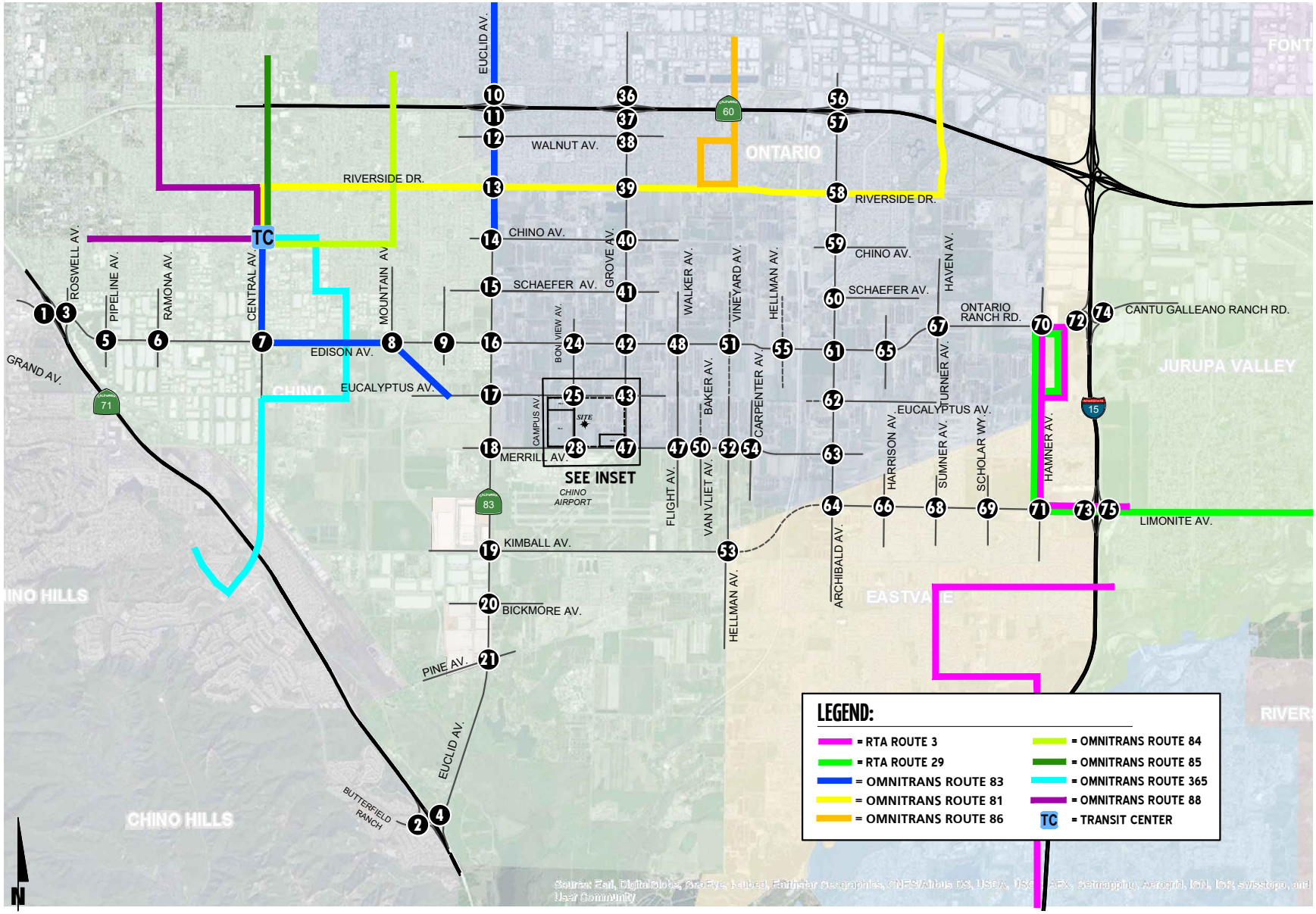


EXHIBIT 3-18: EXISTING TRANSIT ROUTES



The traffic counts collected in January 2019 include the following vehicle classifications: Passenger Cars, 2-Axle Trucks, 2-Axle Trucks, and 4 or More Axle Trucks. To represent the effect of large trucks, buses and recreational vehicles have on traffic flow; all trucks were converted into passenger car equivalent (PCE). By their size alone, these vehicles occupy the same space as two or more passenger cars. In addition, the time it takes for them to accelerate and slow-down is much longer than for passenger cars and varies depending on the type of vehicle and number of axles. For the purpose of this analysis, a PCE factor of 1.5 has been applied to 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for 4+-axle trucks to estimate each turning movement. These factors are consistent with the values recommended for use in the CMP.

Due to the school and business closures associated with the currently ongoing COVID-19 pandemic, traffic counts were not collected since the traffic volumes would likely be understated. As such and pursuant to discussions with City staff, a 5% per year growth rate for turning movements along major roadways (i.e., Archibald Avenue, Pine Avenue, Euclid Avenue, Limonite Avenue) and a 2% per year growth rate for all other movements have been utilized to conservatively reflect 2021 conditions.

Existing weekday ADT volumes are shown on Exhibit 3-19. Where actual 24-hour tube count data was not available, Existing ADT volumes were based upon factored intersection peak hour counts collected by Urban Crossroads, Inc. using the following formula for each intersection leg:

Weekday PM Peak Hour (Approach Volume + Exit Volume) x 12.55 = Leg Volume

A comparison of the PM peak hour and daily traffic volumes of various roadway segments within the study area indicated that the peak-to-daily relationship is approximately 7.97 percent. As such, the above equation utilizing a factor of 12.55 estimates the ADT volumes on the study area roadway segments assuming a peak-to-daily relationship of approximately 7.97 percent (i.e., 1/0.0797 = 12.55) and was assumed to sufficiently estimate average daily traffic (ADT) volumes for planning-level analyses. Existing weekday AM and weekday PM peak hour intersection volumes (in actual vehicles) are shown on Exhibit 3-20. The peak hour operations analyses utilize PCE volumes per the City's Traffic Study Guidelines (PCE volumes are included in the appendices with the HCM operations analysis worksheets for each applicable analysis scenario).

3.8 INTERSECTION OPERATIONS ANALYSIS

Existing peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2.2 *Intersection Capacity Analysis* of this report. The intersection operations analysis results are summarized on Table 3-1, which indicates that all existing study area intersections are currently operating at acceptable LOS during the peak hours with exception to the following:

- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS E PM peak hour only
- Grove Avenue & SR-60 Eastbound Ramps (#37) – LOS E AM peak hour only
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F PM peak hour only
- Grove Avenue & Merrill Avenue (#47) – LOS F AM peak hour; LOS E PM peak hour

EXHIBIT 3-19: EXISTING (2021) AVERAGE DAILY TRAFFIC (ADT)

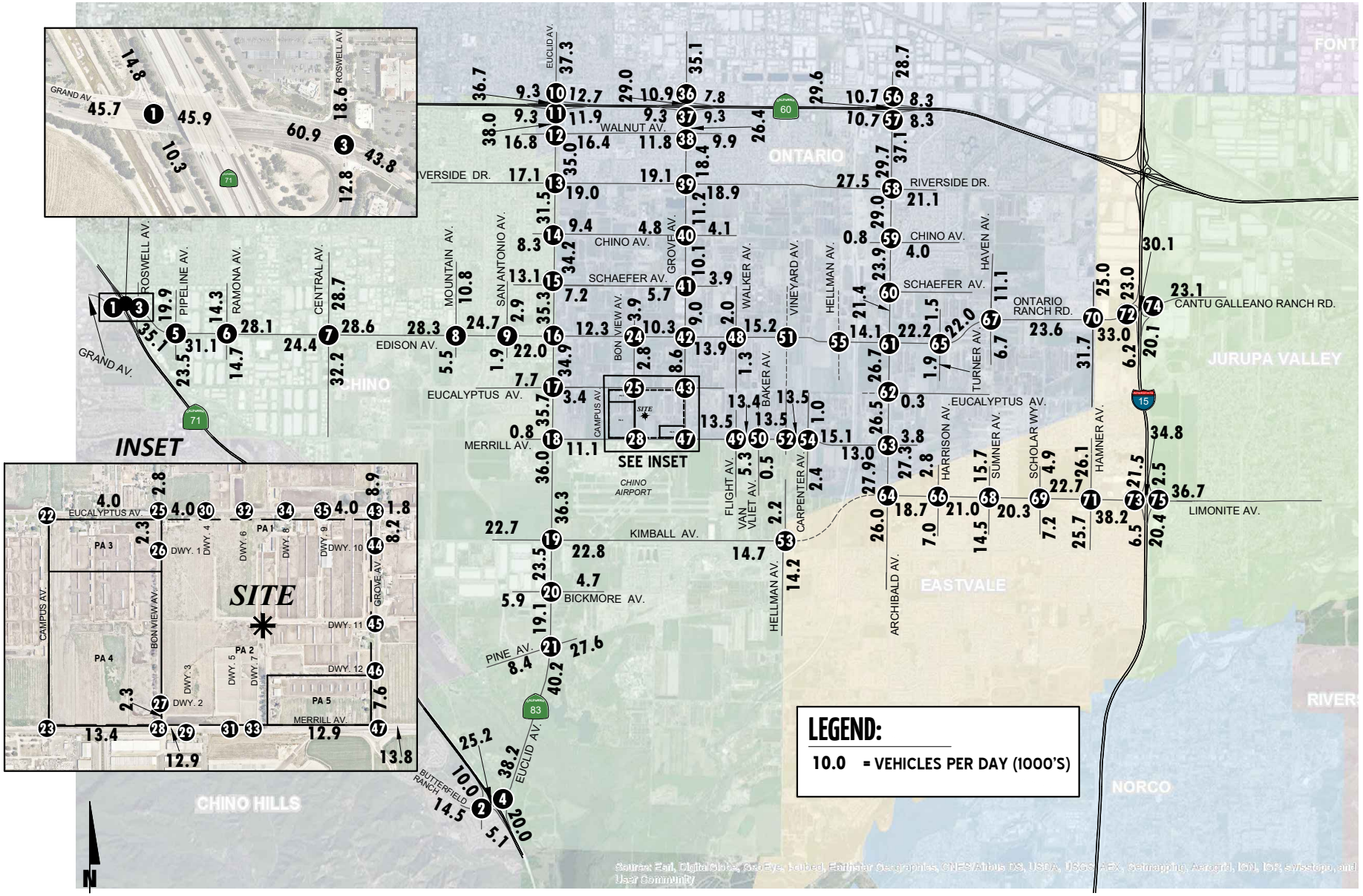
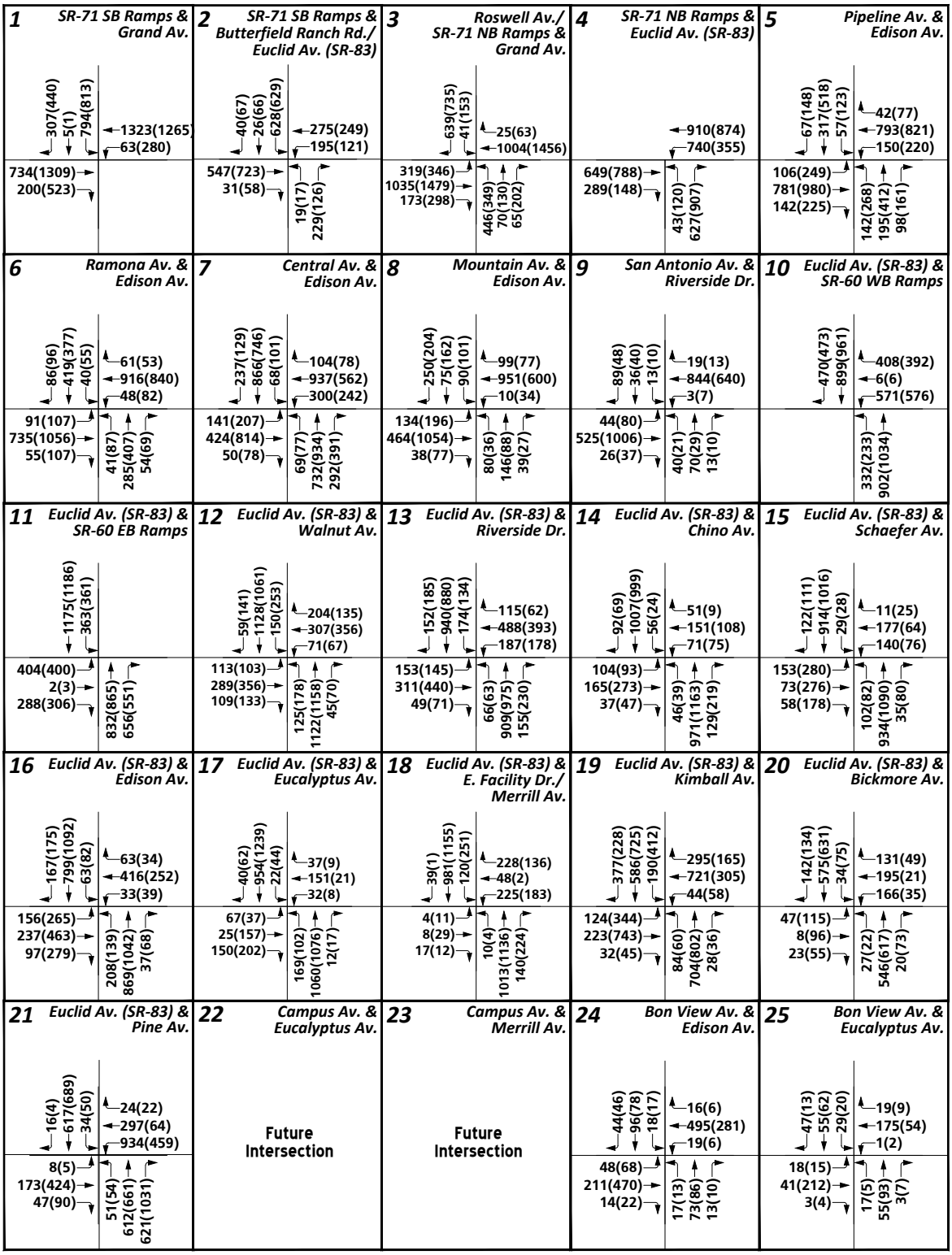


EXHIBIT 3-20 (1OF3): EXISTING (2021) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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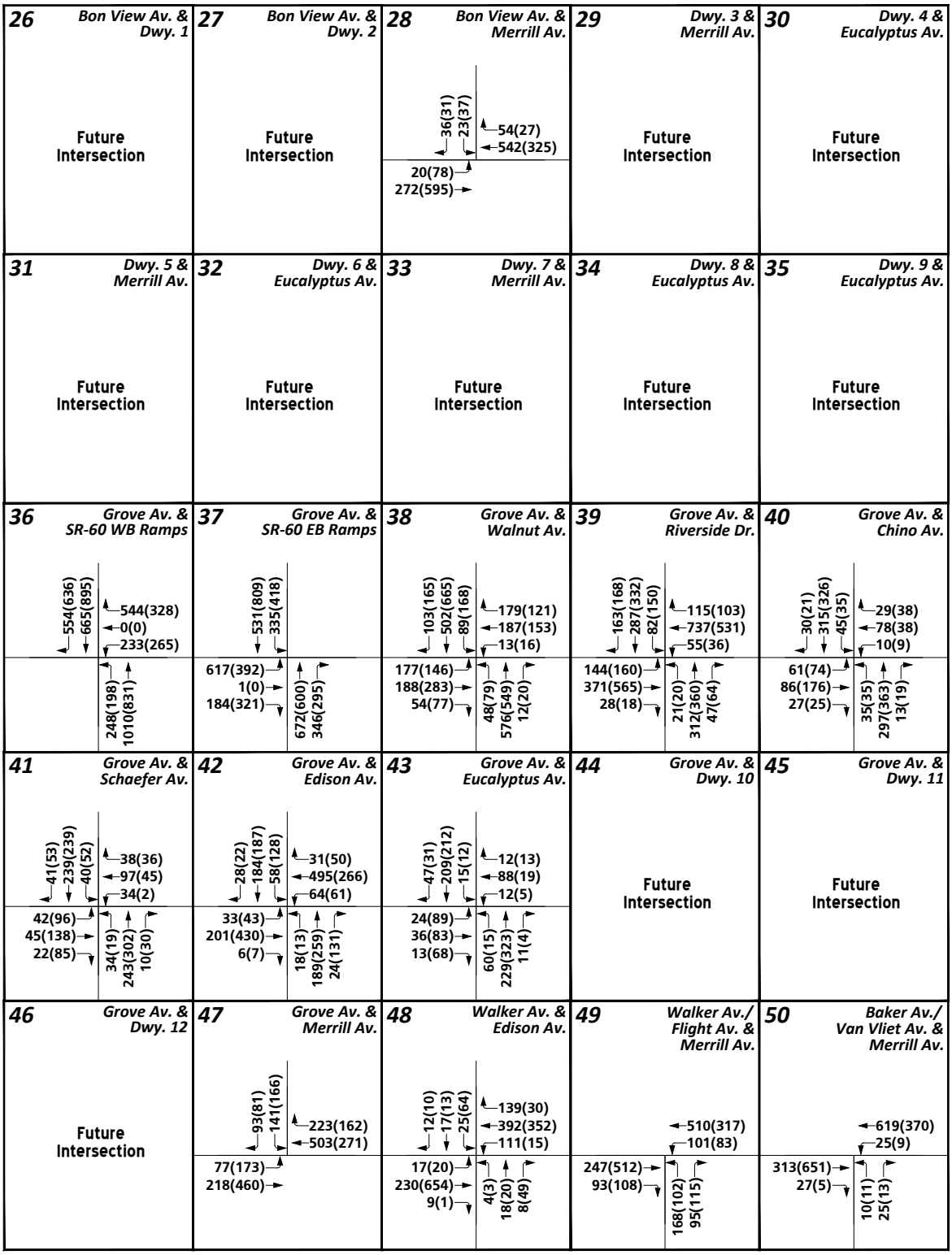
EXHIBIT 3-20 (2OF3): EXISTING (2021) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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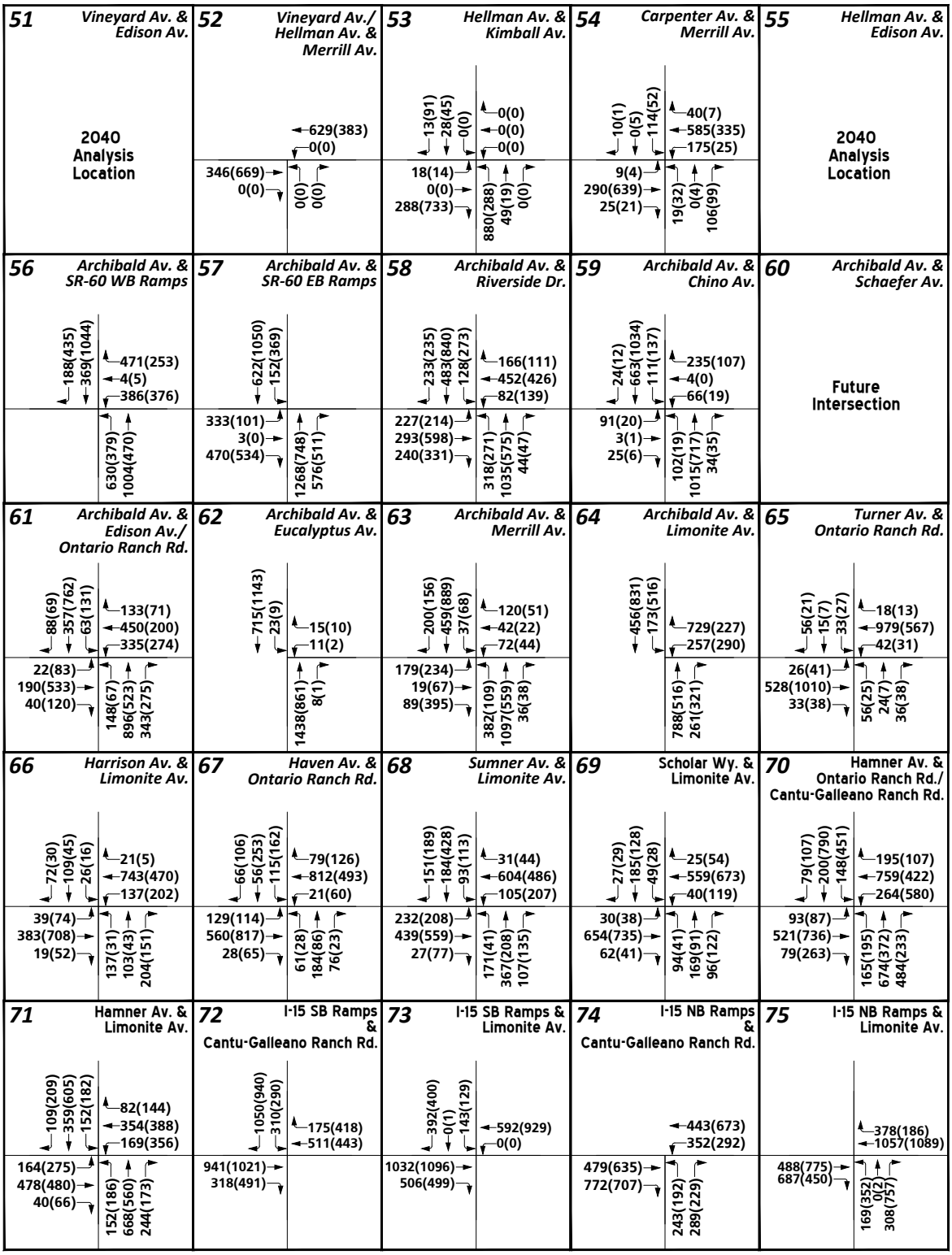
EXHIBIT 3-20 (3OF3): EXISTING (2021) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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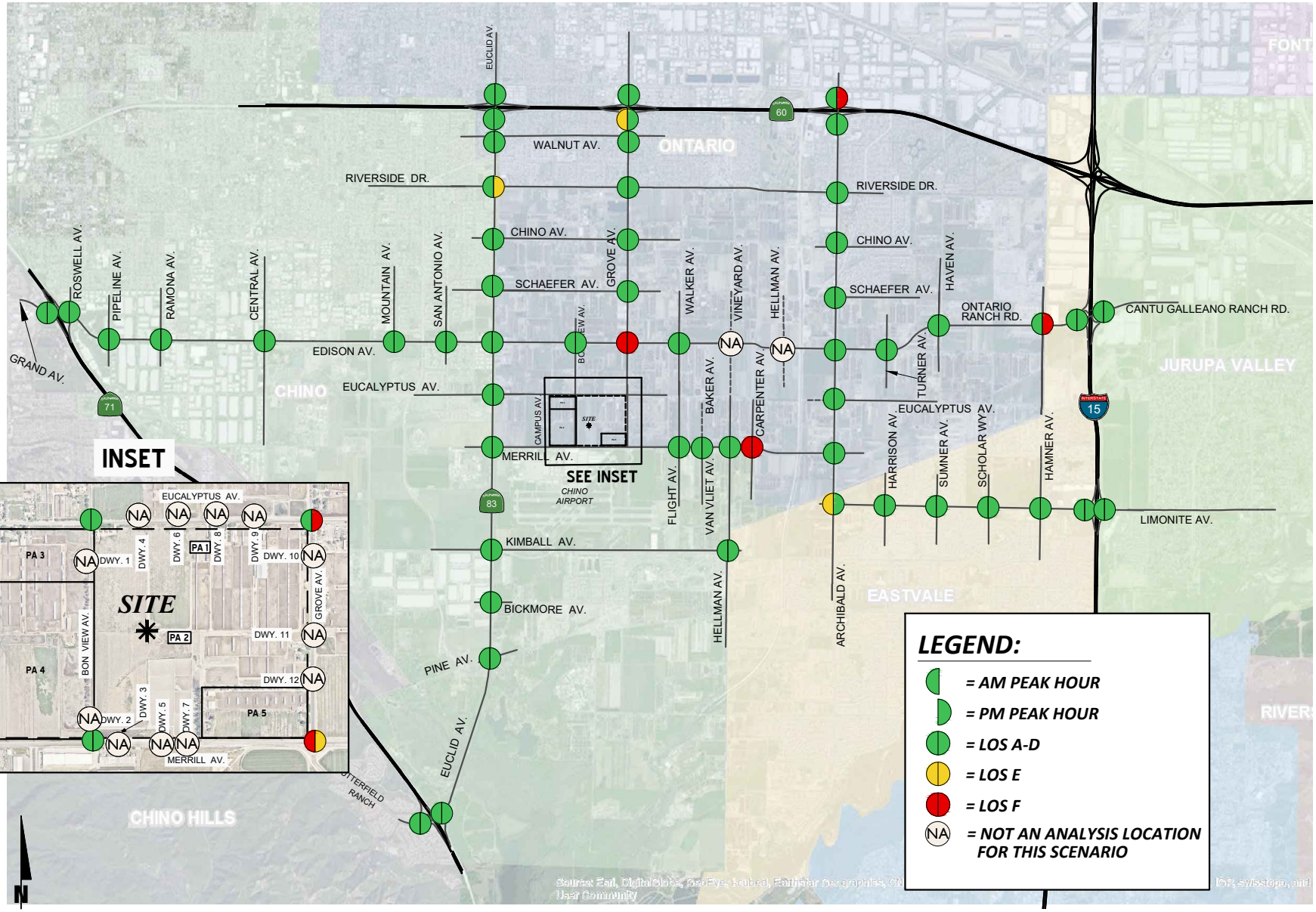
URBAN CROSSROADS

EXHIBIT 3-21: EXISTING (2021) SUMMARY OF LOS



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URBAN CROSSROADS

Table 3-1
Page 1 of 2

Intersection Analysis for Existing (2021) Conditions

#	Intersection	Traffic Control[3]	Delay[2] (secs.) AM	Delay[2] (secs.) PM	Level of Service AM	Level of Service PM	Jurisdiction(s) / LOS Standard[4]
1	SR-71 SB Ramps & Grand Av.	TS	26.9	38.1	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	38.5	34.2	D	C	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	25.5	24.6	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	30.4	47.5	C	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	20.7	32.1	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	27.2	31.5	C	C	Chino / LOS D
7	Central Av. & Edison Av.	TS	39.8	43.5	D	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	24.0	21.7	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.2	9.6	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	22.4	19.1	C	B	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	27.9	22.8	C	C	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	31.8	34.9	C	C	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	51.9	**61.6**	D	**E**	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	22.8	24.6	C	C	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	26.0	29.0	C	C	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	41.4	43.9	D	D	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	14.8	14.2	B	B	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	29.7	35.9	C	C	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	28.5	46.3	C	D	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	16.9	14.3	B	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	33.8	49.9	C	D	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.	Future Intersection					Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.	Future Intersection					Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	28.2	26.4	D	D	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	8.8	9.1	A	A	Ontario / LOS E
26	Bon View Av. & Driveway 1	Future Intersection					Ontario / LOS E
27	Bon View Av. & Driveway 2	Future Intersection					Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	17.1	24.2	C	C	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	Future Intersection					Ontario / LOS E
30	Driveway 4 & Eucalyptus Av.	Future Intersection					Ontario / LOS E
31	Driveway 5 & Merrill Av.	Future Intersection					Ontario / LOS E
32	Driveway 6 & Eucalyptus Av.	Future Intersection					Ontario / LOS E
33	Driveway 7 & Merrill Av.	Future Intersection					Ontario / LOS E
34	Driveway 8 & Eucalyptus Av.	Future Intersection					Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	Future Intersection					Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	28.4	20.8	C	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	**61.1**	35.9	**E**	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	30.0	27.8	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	45.4	51.6	D	D	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	18.6	21.9	C	C	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	13.5	19.6	B	C	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	**88.0**	**>100.0**	**F**	**F**	Ontario / LOS E

Table 3-1
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Intersection Analysis for Existing (2021) Conditions

#	Intersection	Traffic Control[3]	Delay[2] (secs.) AM	Delay[2] (secs.) PM	Level of Service AM	Level of Service PM	Jurisdiction(s) / LOS Standard[4]
43	Grove Av. & Eucalyptus Av.	CSS	11.4	**>100.0**	B	**F**	Ontario / LOS E
44	Grove Av. & Driveway 10		Future Intersection				Ontario / LOS E
45	Grove Av. & Driveway 11		Future Intersection				Ontario / LOS E
46	Grove Av. & Driveway 12		Future Intersection				Ontario / LOS E
47	Grove Av. & Merrill Av.	AWS	**54.8**	**48.5**	**F**	**E**	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	19.7	46.7	C	E	Ontario / LOS E
49	Walker Av./Flight Av. & Merrill Av.	CSS	27.7	26.0	D	C	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	11.6	14.1	B	B	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	0.0	0.0	A	A	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	16.7	15.0	B	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	**81.8**	**86.0**	**F**	**F**	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	51.2	**118.7**	D	**F**	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	25.8	42.6	C	D	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	46.8	51.7	D	D	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	20.3	15.8	C	B	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.5	1.1	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	33.9	28.4	C	C	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	6.1	3.3	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	32.1	31.1	C	C	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	**64.1**	23.1	**E**	C	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	16.8	14.9	B	B	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	19.2	17.6	B	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	24.1	23.0	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	19.1	19.2	B	B	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	16.6	15.2	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	47.1	**123.6**	D	**F**	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	24.9	28.0	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	15.2	13.3	B	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	7.7	6.1	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	20.3	12.8	C	B	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	6.5	12.0	A	B	Jurupa Valley, Caltrans / LOS D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for ri turning vehicles to travel outside the through lanes.
= Through; R = Right; > = Right-Turn Overlap Phasing; >> = Free-Right Turn Lane; d= Defacto

[2] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic si all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[3] CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal

[4] Minimum acceptable LOS for each applicable jurisdiction.

- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Archibald Avenue & SR-60 WB Ramps (#56) – LOS F PM peak hour only
- Archibald Avenue & Limonite Avenue (#64) – LOS E AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#70) – LOS F PM peak hour only

Consistent with Table 3-1, a summary of the peak hour intersection LOS for Existing conditions are shown on Exhibit 3-21. The intersection operations analysis worksheets are included in Appendix 3.2 of this TA.

3.9 TRAFFIC SIGNAL WARRANTS ANALYSIS

Traffic signal warrants for Existing traffic conditions are based on existing peak hour intersection turning volumes. The following study area intersections currently warrant a traffic signal for Existing traffic conditions:

- Bon View Avenue & Edison Avenue (#24)
- Grove Avenue & Chino Avenue (#40)
- Grove Avenue & Schaefer Avenue (#41)
- Grove Avenue & Edison Avenue (#42)
- Grove Avenue & Eucalyptus Avenue (#43)
- Grove Avenue & Merrill Avenue (#47)
- Walker Avenue/Flight Avenue & Merrill Avenue (#49)
- Carpenter Avenue & Merrill Avenue (#54)

Existing conditions traffic signal warrant analysis worksheets are provided in Appendix 3.3.

3.10 OFF-RAMP QUEUING ANALYSIS

A queuing analysis was performed for the off-ramps at the study area intersections along the SR-71 Freeway, SR-60 Freeway, and I-15 Freeway to assess vehicle queues for the off ramps that may potentially result in deficient peak hour operations at the ramp-to-arterial intersections and may potentially "spill back" onto the SR-71, SR-60, and I-15 Freeway mainlines. Queuing analysis findings are presented on Table 3-2. It is important to note that off-ramp lengths are consistent with the measured distance between the intersection and the freeway mainline. As shown on Table 3-2, there are no movements that are currently experiencing queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows. Worksheets for Existing traffic conditions off-ramp queuing analysis are provided in Appendix 3.4.

Table 3-2

Peak Hour Freeway Off-Ramp Queuing Summary for Existing (2021) Conditions

Intersection	Movement	Available Stacking Distance (Feet)	95th Percentile Queue (Feet)[3]		Acceptable?[1]	
			AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	315	353	Yes	Yes
	SBL/T	1,235	320	353	Yes	Yes
	SBR	570	181	336	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	225	242	Yes	Yes
	SBL/T	1,560	226	242	Yes	Yes
	SBR	255	0	2	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	248	246 [2]	Yes	Yes
	NBL/T	1,300	254	392 [2]	Yes	Yes
	NBR	815	6	132	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	28	43	Yes	Yes
	NBR	420	237 [2]	778 [2]	Yes	Yes[3]
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	323 [2]	287	Yes	Yes
	WBL/T/R	1,430	331 [2]	294	Yes	Yes
	WBR	400	216	217	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	386 [2]	375 [2]	Yes	Yes
	EBT/R	1,270	303 [2]	315 [2]	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	215	289	Yes	Yes
	WBR	250	639 [2]	235	Yes[3]	Yes
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	846 [2]	520 [2]	Yes	Yes
	EBR	315	63	239	Yes	Yes
Archibald Avenue & SR-60 WB Ramps	WBL/T	1,389	445 [2]	394 [2]	Yes	Yes
	WBR	250	511 [2]	58	Yes[3]	Yes
Archibald Avenue & SR-60 EB Ramps	EBL/T	1,268	264	81	Yes	Yes
	EBR	350	293	495 [2,3]	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	105	94	Yes	Yes
	SBL/R	560	371 [2]	204	Yes	Yes
	SBR	460	280 [2]	183	Yes	Yes
I-15 SB Ramps & Limonite Avenue	SBL	400	93	82	Yes	Yes
	SBL/T/R	400	93	84	Yes	Yes
	SBR	1,200	46	123	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	91	67	Yes	Yes
	NBR	440	52	45	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	76	132	Yes	Yes
	NBL/T/R	1,235	76	134	Yes	Yes
	NBR	400	34	274	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

3.11 IMPROVEMENTS

Improvement strategies have been identified at intersections that have been identified as deficient under Existing (2021) traffic conditions in an effort to achieve an acceptable LOS (i.e., LOS D or better).

3.11.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

The effectiveness of the recommended improvement strategies to address Existing (2021) traffic deficiencies are presented on Table 3-3. Worksheets for Existing (2021) Conditions, with improvements, HCM calculation worksheets are provided in Appendix 3.5.

3.12.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES

As shown previously on Table 3-2, there are no peak hour queuing issues at the SR-71 Freeway, SR-60 Freeway, and I-15 Freeway study area interchanges. As such, no improvements have been identified.

Table 3-3

Intersection Analysis for Existing (2021) Conditions With Improvements

#	Intersection	Traffic Control[3]	Intersection Approach Lanes[1] Northbound L	T	R	Southbound L	T	R	Eastbound L	T	R	Westbound L	T	R	Delay[2] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard
13	Euclid Av. (SR-83) & Riverside Dr.																		Chino, Ontario,
	- Without Improvements	TS	1	2	1	1	2	1>	1	1	0	1	2	d	51.9	**61.6**	D	**E**	Caltrans / LOS D
	- With Improvements[4]	TS	1	2	0	1	2	1>	1	1	**1**	1	2	d	42.0	46.2	D	D	
37	Grove Av. & SR-60 EB Ramps																		Ontario,
	- Without Improvements	TS	0	2	0	1	2	0	0	1	1	0	0	0	**61.1**	35.9	**E**	D	Caltrans / LOS D
	- With Improvements	TS	0	2	0	1	2	0	**1**	1	1	0	0	0	34.0	30.9	C	C	
42	Grove Av. & Edison Av.																		
	- Without Improvements	AWS	0	1	0	0	1	0	0	1	0	0	1	0	**88.0**	**>100.0**	**F**	**F**	Ontario / LOS E
	- With Improvements	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	11.6	11.2	B	B	
43	Grove Av. & Eucalyptus Av.																		
	- Without Improvements	CSS	0	1	0	0	1	0	0	1	0	0	1	0	11.4	**>100.0**	B	**F**	Ontario / LOS E
	- With Improvements	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	8.3	9.0	A	A	
47	Grove Av. & Merrill Av.																		Chino, Ontario /
	- Without Improvements	AWS	0	0	0	0	1	0	0	1	0	0	1	0	**54.8**	**48.5**	**F**	**E**	LOS D
	- With Improvements	**TS**	0	0	0	0	1	0	0	1	0	0	1	0	14.7	12.7	B	B	
54	Carpenter Av. & Merrill Av.																		Chino, Ontario /
	- Without Improvements	AWS	0	1	0	0	1	0	1	1	1	1	1	0	**81.8**	**86.0**	**F**	**F**	LOS D
	- With Improvements	**TS**	0	1	0	0	1	0	1	1	1	1	1	0	9.6	9.3	A	A	
56	Archibald Av. & SR-60 WB Ramps																		Ontario,
	- Without Improvements	TS	1	3	0	0	4	0	0	0	0	0	1	1	51.2	**118.7**	D	**F**	Caltrans / LOS D
	- With Improvements[5]	TS	**2**	3	0	0	4	**1**	0	0	0	**1**	1	1	17.8	25.1	B	C	
64	Archibald Av. & Limonite Av.																		Eastvale / LOS D
	- Without Improvements	TS	0	1	1>	1	1	0	0	0	0	1	0	1>	**64.1**	23.1	**E**	C	
	- With Improvements	TS	0	1	1>	1	1	0	0	0	0	1	0	**2>**	25.5	34.5	C	C	
70	Hamner Av. & Ontario Ranch Rd.																		Eastvale,
	- Without Improvements	TS	2	3	1	2	2	1	2	4	0	2	2	1	47.1	**123.6**	D	**F**	Ontario / LOS D
	- With Improvements[6]	TS	2	3	1	2	**3**	**0**	2	4	0	2	2	1	44.6	48.3	D	D	

[1] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.
L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; d = Defacto Right Turn Lane; **1** = Improvement

[2] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[3] AWS = All-Way Stop; CSS = Cross-Street Stop; TS = Traffic Signal; **TS** = Improvement

[4] Improvement includes restriping the northbound approach to provide one left turn lane, two through lanes, and one shared through-right turn lane.

[5] Improvements are consistent with the SR-60/Archibald Avenue interchange improvement project currently under construction.

[6] Improvement includes modifying the traffic signal to extend the cycle length to 130 seconds.

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4 PROJECTED FUTURE TRAFFIC

This section presents the traffic volumes estimated to be generated by the Project, as well as the Project's trip assignment onto the study area roadway network. Phase 1 of the proposed Project is anticipated to be developed by Year 2024 and includes the development of PAs 1 and 2. Phase 2 of the proposed Project is also anticipated to be developed by Year 2024 and includes the development of PAs 3, 4, and 5. As stated in Section 1, Phase 1 and Phase 2 have been evaluated separately in order to identify the improvement needs for each phase.

Phase 1 (PAs 1 and 2) of the proposed Project includes the development for the following uses:

- Industrial: 1,671,574 square feet of high-cube fulfillment center warehouse use, 334,315 square feet of high-cube cold storage warehouse, and 565,763 square feet of general warehousing use
- Business Park: 601,128 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under ITE Land Use Code 130).

For purposes of this analysis, the following mix of land uses are assumed for Phase 2 (PAs 3, 4, and 5), which represent a reasonable mix of industrial and business park uses that would be permitted by the Project:

- Industrial: 1,147,708 square feet of high-cube fulfillment center warehouse use, 229,542 square feet of high-cube cold storage warehouse, and 388,455 square feet of general warehousing use
- Business Park: 474,107 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under ITE Land Use Code 130).

For the purposes of the operations analysis, Project buildout includes both Phase 1 and Phase 2.

4.1 PROJECT TRIP GENERATION

Trip generation represents the amount of traffic which is both attracted to and produced by a development. Determining traffic generation for a specific project is therefore based upon forecasting the amount of traffic that is expected to be both attracted to and produced by the specific land uses being proposed for a given development.

Trip generation rates for the Project are shown on Table 4-1 for both actual vehicles and PCE. The trip generation summary illustrating daily, and peak hour trip generation estimates for the proposed Project in actual vehicles and PCE are shown in Table 4-2 and Table 4-3, respectively. The trip generation rates used for this analysis are based upon information collected by the ITE as provided in their Trip Generation Manual (10th Edition, 2017) and the High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019). (3) (4)

Table 4-1

Project Trip Generation Rates

Land Use[1]	Units[2]	ITE LU Code	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicle Trip Generation Rates									
High-Cube Fulfillment Center Warehouse[3]	TSF	--	0.094	0.028	0.122	0.046	0.119	0.165	2.129
Passenger Cars			0.079	0.024	0.103	0.040	0.104	0.144	1.750
2-4 Axle Trucks			0.006	0.002	0.008	0.003	0.008	0.011	0.162
5+-Axle Trucks			0.008	0.003	0.011	0.003	0.007	0.010	0.217
High-Cube Cold Storage Warehouse[5]	TSF	157	0.085	0.025	0.110	0.032	0.088	0.120	2.120
Passenger Cars			0.062	0.018	0.080	0.025	0.067	0.092	1.378
2-Axle Trucks			0.008	0.002	0.010	0.003	0.007	0.010	0.257
3-Axle Trucks			0.003	0.001	0.003	0.001	0.002	0.003	0.082
4+-Axle Trucks			0.012	0.004	0.016	0.004	0.011	0.015	0.403
Business Park[4,5]	TSF	130	0.324	0.076	0.400	0.084	0.316	0.400	3.370
Passenger Cars			0.285	0.067	0.352	0.076	0.284	0.360	2.865
2-Axle Trucks			0.006	0.002	0.008	0.001	0.005	0.007	0.084
3-Axle Trucks			0.008	0.002	0.010	0.002	0.007	0.008	0.105
4+-Axle Trucks			0.024	0.006	0.030	0.005	0.020	0.025	0.316
Warehousing[6]	TSF	150	0.131	0.039	0.170	0.051	0.139	0.190	1.740
Passenger Cars			0.114	0.034	0.148	0.044	0.118	0.162	1.270
2-Axle Trucks			0.003	0.001	0.004	0.001	0.003	0.005	0.078
3-Axle Trucks			0.004	0.001	0.005	0.002	0.004	0.006	0.097
4+-Axle Trucks			0.011	0.003	0.014	0.005	0.013	0.018	0.294
Passenger Car Equivalent (PCE) Trip Generation Rates[5]									
High-Cube Fulfillment Center Warehouse[3]	TSF	--	0.094	0.028	0.122	0.046	0.119	0.165	2.129
Passenger Cars			0.079	0.024	0.103	0.040	0.104	0.144	1.750
2-4 Axle Trucks (PCE = 2.0)			0.012	0.004	0.016	0.006	0.016	0.022	0.324
5+-Axle Trucks (PCE = 3.0)			0.025	0.008	0.033	0.008	0.022	0.030	0.651
High-Cube Cold Storage Warehouse[5]	TSF	157	0.085	0.025	0.110	0.032	0.088	0.120	2.120
Passenger Cars			0.062	0.018	0.080	0.025	0.067	0.092	1.378
2-Axle Trucks (PCE = 1.5)			0.012	0.004	0.015	0.004	0.010	0.014	0.386
3-Axle Trucks (PCE = 2.0)			0.005	0.002	0.007	0.002	0.004	0.006	0.163
4+-Axle Trucks (PCE = 3.0)			0.037	0.011	0.048	0.012	0.033	0.045	1.209
Business Park[4,5]	TSF	130	0.324	0.076	0.400	0.084	0.316	0.400	3.370
Passenger Cars			0.285	0.067	0.352	0.076	0.284	0.360	2.865
2-Axle Trucks (PCE = 1.5)			0.010	0.002	0.012	0.002	0.008	0.010	0.127
3-Axle Trucks (PCE = 2.0)			0.016	0.004	0.020	0.003	0.013	0.017	0.209
4+-Axle Trucks (PCE = 3.0)			0.073	0.017	0.090	0.016	0.059	0.075	0.949
Warehousing[6]	TSF	150	0.131	0.039	0.170	0.051	0.139	0.190	1.740
Passenger Cars			0.114	0.034	0.148	0.044	0.118	0.162	1.270
2-Axle Trucks (PCE = 1.5)			0.004	0.001	0.006	0.002	0.005	0.007	0.118
3-Axle Trucks (PCE = 2.0)			0.007	0.002	0.009	0.003	0.009	0.012	0.194
4+-Axle Trucks (PCE = 3.0)			0.032	0.010	0.042	0.014	0.039	0.054	0.882

[1] Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, Tenth Edition (2017).

[2] TSF = thousand square feet

[3] Vehicle Mix Source: High Cube Warehouse Trip Generation Study, WSP, January 29, 2019.
Inbound and outbound split source: High Cube Warehouse Vehicle Trip Generation Analysis, October 2016, ITE.

[4] The Specific Plan allows for the Business Park area to be developed with merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses. However, the Business Park (ITE Land Use Code 770) land use has trip generation rates for the peak hours is based on limited data (i.e., one surveyed site). As such, the trip generation rates for ITE Land Use Code 130 has been utilized for the business park portion of the Project.

[5] Vehicle Mix Source: ITE Trip Generation Handbook Supplement (2020), Appendix C.
Vehicle Mix Source: Institute of Transportation Engineers (ITE), Trip Generation Handbook, Third Edition (September 2017).
Truck Mix Source: South Coast Air Quality Management District (SCAQMD) Warehouse Truck Trip Study Data Results and Usage (2014).
Truck Mix: South Coast Air Quality Management District's (SCAQMD) recommended truck mix, by axle type.
Normalized % - Without Cold Storage: 16.7% 2-Axle trucks, 20.7% 3-Axle trucks, 62.6% 4-Axle trucks.
Normalized % - With Cold Storage: 34.7% 2-Axle trucks, 11.0% 3-Axle trucks, 54.3% 4-Axle trucks.

[6] Vehicle Mix Source: ITE Trip Generation Handbook (3rd Edition, 2017).
Truck Mix Source: South Coast Air Quality Management District (SCAQMD) Warehouse Truck Trip Study Data Results and Usage (2014).

Table 4-2

Project Trip Generation Summary (Actual Vehicles)

Land Use	Quantity[2] Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Phase 1								
Planning Area 1: Business Park	601.128 TSF							
Passenger Cars:		171	40	211	45	171	216	1,722
2-axle Trucks:		4	1	5	1	3	4	52
3-axle Trucks:		5	1	6	1	4	5	64
4+-axle Trucks:		15	3	18	3	12	15	190
Total Truck:		24	5	29	5	19	24	306
Planning Area 1: Total (Actual Vehicles)		**195**	**45**	**240**	**50**	**190**	**240**	**2,028**
Planning Area 2: Fulfillment Center Warehouse (65%)	1,671.574 TSF							
Passenger Cars:		133	40	173	67	173	240	2,926
2-4 axle Trucks:		10	3	13	5	13	18	272
5+-axle Trucks:		14	4	18	5	12	17	364
Total Truck:		24	7	31	10	25	35	636
Fulfillment Center Warehouse (Actual Vehicles)		**157**	**47**	**204**	**77**	**198**	**275**	**3,562**
Planning Area 2: High-Cube Cold Storage Warehouse (13%)	334.315 TSF							
Passenger Cars:		21	6	27	8	23	31	462
2-axle Trucks:		3	1	4	1	2	3	86
3-axle Trucks:		1	0	1	0	1	1	28
4+-axle Trucks:		4	1	5	1	4	5	136
Total Truck:		8	2	10	2	7	9	250
High-Cube Cold Storage Warehouse (Actual Vehicles)		**29**	**8**	**37**	**10**	**30**	**40**	**712**
Planning Area 2: Warehouse (22%)	565.763 TSF							
Passenger Cars:		64	19	83	25	67	92	720
2-axle Trucks:		2	0	2	1	2	3	44
3-axle Trucks:		2	1	3	1	2	3	56
4+-axle Trucks:		6	2	8	3	7	10	166
Total Truck:		8	2	10	4	9	13	210
Warehouse (Actual Vehicles)		72	21	93	29	76	105	930
Planning Area 2: Total (Actual Vehicles)		**258**	**76**	**334**	**116**	**304**	**420**	**5,204**
Phase 1: Passenger Cars		389	105	494	145	434	579	5,830
Phase 1: Trucks (Actual Vehicles)		64	16	80	21	60	81	1,402
Phase 1: Total (Actual Vehicles)		**453**	**121**	**574**	**166**	**494**	**660**	**7,232**

Table 4-2

Project Trip Generation Summary (Actual Vehicles)

Land Use	Quantity[2] Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Phase 2								
Planning Area 3: Business Park	474.107 TSF							
Passenger Cars:		135	32	167	36	135	171	1,358
2-axle Trucks:		3	1	4	1	3	4	40
3-axle Trucks:		4	1	5	1	3	4	50
4+-axle Trucks:		12	3	15	2	9	11	150
Total Truck:		19	5	24	4	15	19	240
Planning Area 3: Total (Actual Vehicles)		**154**	**37**	**191**	**40**	**150**	**190**	**1,598**
Planning Area 4: Fulfillment Center Warehouse (65%)	876.743 TSF							
Passenger Cars:		70	21	91	35	91	126	1,534
2-4 axle Trucks:		5	2	7	3	7	10	142
5+-axle Trucks:		7	2	9	2	6	8	190
Total Truck:		12	4	16	5	13	18	332
Fulfillment Center Warehouse (Actual Vehicles)		**82**	**25**	**107**	**40**	**104**	**144**	**1,866**
Planning Area 4: High-Cube Cold Storage Warehouse (13%)	175.349 TSF							
Passenger Cars:		11	3	14	4	12	16	242
2-axle Trucks:		1	0	1	0	1	1	46
3-axle Trucks:		0	0	0	0	0	0	14
4+-axle Trucks:		2	1	3	1	2	3	72
Total Truck:		3	1	4	1	3	4	132
High-Cube Cold Storage Warehouse (Actual Vehicles)		**14**	**4**	**18**	**5**	**15**	**20**	**374**
Planning Area 4: Warehouse (22%)	296.744 TSF							
Passenger Cars:		34	10	44	13	35	48	378
2-axle Trucks:		1	0	1	0	1	1	24
3-axle Trucks:		1	0	1	0	1	1	30
4+-axle Trucks:		3	1	4	1	4	5	88
Total Truck:		5	1	6	1	6	7	142
Warehouse (Actual Vehicles)		**39**	**11**	**50**	**14**	**41**	**55**	**520**
Planning Area 4: Total (Actual Vehicles)		**135**	**40**	**175**	**59**	**160**	**219**	**2,760**

Table 4-2

Project Trip Generation Summary (Actual Vehicles)

Land Use	Quantity[2] Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Planning Area 5: Fulfillment Center Warehouse (65%)	270.965 TSF							
Passenger Cars:		21	6	27	11	28	39	474
2-4 axle Trucks:		2	0	2	1	2	3	44
5+-axle Trucks:		2	1	3	1	2	3	60
Total Truck:		4	1	5	2	4	6	104
Fulfillment Center Warehouse (Actual Vehicles)		**25**	**7**	**32**	**13**	**32**	**45**	**578**
Planning Area 5: High-Cube Cold Storage Warehouse (13%)	54.193 TSF							
Passenger Cars:		3	1	4	1	4	5	76
2-axle Trucks:		0	0	0	0	0	0	14
3-axle Trucks:		0	0	0	0	0	0	4
4+-axle Trucks:		1	0	1	0	1	1	22
Total Truck:		1	0	1	0	1	1	40
High-Cube Cold Storage Warehouse (Actual Vehicles)		**4**	**1**	**5**	**1**	**5**	**6**	**116**
Planning Area 5: Warehouse (22%)	91.711 TSF							
Passenger Cars:		10	3	13	4	11	15	116
2-axle Trucks:		0	0	0	0	0	0	8
3-axle Trucks:		0	0	0	0	0	0	10
4+-axle Trucks:		1	0	1	0	1	1	28
Total Truck:		1	0	1	0	1	1	46
Warehouse (Actual Vehicles)		**11**	**3**	**14**	**4**	**12**	**16**	**162**
Planning Area 5 Total (Actual Vehicles)		**40**	**11**	**51**	**18**	**49**	**67**	**856**
Phase 2: Passenger Cars		284	76	360	104	316	420	4,178
Phase 2: Trucks (Actual Vehicles)		45	12	57	13	43	56	1,036
Phase 2: Total (Actual Vehicles)		**329**	**88**	**417**	**117**	**359**	**476**	**5,214**
Project Buildout: Passenger Cars		673	181	854	249	750	999	10,008
Project Buildout: Trucks (Actual Vehicles)		109	28	137	34	103	137	2,438
Project Buildout: (Actual Vehicles)		**782**	**209**	**991**	**283**	**853**	**1,136**	**12,446**

[1] TSF = thousand square feet

[2] Square footage assumptions for each Planning Area are based on maximum planned development as defined by the Specific Plan.

Table 4-3

Project Trip Generation Summary (PCE)

Land Use	Quantity[2] Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Phase 1								
Planning Area 1: Business Park	601.128 TSF							
Passenger Cars:		171	40	211	45	171	216	1,722
2-axle Trucks:		6	1	7	1	5	6	76
3-axle Trucks:		10	2	12	2	8	10	126
4+-axle Trucks:		44	10	54	9	36	45	572
Total Truck:		60	13	73	12	49	61	774
Planning Area 1: Total (PCE)		**231**	**53**	**284**	**57**	**220**	**277**	**2,496**
Planning Area 2: Fulfillment Center Warehouse (65%)	1,671.574 TSF							
Passenger Cars:		133	40	173	67	173	240	2,926
2-4 axle Trucks:		21	6	27	10	26	36	542
5+-axle Trucks:		42	13	55	14	36	50	1,088
Total Truck:		63	19	82	24	62	86	1,630
Fulfillment Center Warehouse (PCE)		**196**	**59**	**255**	**91**	**235**	**326**	**4,556**
Planning Area 2: High-Cube Cold Storage Warehouse (13%)	334.315 TSF							
Passenger Cars:		21	6	27	8	23	31	462
2-axle Trucks:		4	1	5	1	4	5	130
3-axle Trucks:		2	1	3	1	1	2	56
4+-axle Trucks:		12	4	16	4	11	15	404
Total Truck:		18	6	24	6	16	22	590
High-Cube Cold Storage Warehouse (PCE)		**39**	**12**	**51**	**14**	**39**	**53**	**1,052**
Planning Area 2: Warehouse (22%)	565.763 TSF							
Passenger Cars:		64	19	83	25	67	92	720
2-axle Trucks:		2	1	3	1	3	4	68
3-axle Trucks:		4	1	5	2	5	7	110
4+-axle Trucks:		18	5	23	8	22	30	500
Total Truck:		24	7	31	11	30	41	678
Warehouse (PCE)		88	26	114	36	97	133	1,398
Planning Area 2: Total (PCE)		**323**	**97**	**420**	**141**	**371**	**512**	**7,006**
Phase 1: Passenger Cars		389	105	494	145	434	579	5,830
Phase 1: Trucks (PCE)		165	45	210	53	157	210	3,672
Phase 1: Total (PCE)		**554**	**150**	**704**	**198**	**591**	**789**	**9,502**

Table 4-3

Project Trip Generation Summary (PCE)

Land Use	Quantity[2] Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Phase 2								
Planning Area 3: Business Park	474.107 TSF							
Passenger Cars:		135	32	167	36	135	171	1,358
2-axle Trucks:		5	1	6	1	4	5	60
3-axle Trucks:		8	2	10	2	6	8	100
4+-axle Trucks:		35	8	43	7	28	35	450
Total Truck:		40	9	49	8	32	40	510
Planning Area 3: Total (PCE)		**175**	**41**	**216**	**44**	**167**	**211**	**1,868**
Planning Area 4: Fulfillment Center Warehouse (65%)	876.743 TSF							
Passenger Cars:		70	21	91	35	91	126	1,534
2-4 axle Trucks:		11	3	14	5	14	19	284
5+-axle Trucks:		22	7	29	7	19	26	572
Total Truck:		33	10	43	12	33	45	856
Fulfillment Center Warehouse (PCE)		**103**	**31**	**134**	**47**	**124**	**171**	**2,390**
Planning Area 4: High-Cube Cold Storage Warehouse (13%)	175.349 TSF							
Passenger Cars:		11	3	14	4	12	16	242
2-axle Trucks:		2	1	3	1	2	3	68
3-axle Trucks:		1	0	1	0	1	1	30
4+-axle Trucks:		7	2	9	2	6	8	212
Total Truck:		10	3	13	3	9	12	310
High-Cube Cold Storage Warehouse (PCE)		**21**	**6**	**27**	**7**	**21**	**28**	**552**
Planning Area 4: Warehouse (22%)	296.744 TSF							
Passenger Cars:		34	10	44	13	35	48	378
2-axle Trucks:		1	0	1	1	2	3	36
3-axle Trucks:		2	1	3	1	3	4	58
4+-axle Trucks:		9	3	12	4	12	16	262
Total Truck:		12	4	16	6	17	23	356
Warehouse (PCE)		**46**	**14**	**60**	**19**	**52**	**71**	**734**
Planning Area 4: Total (PCE)		**170**	**51**	**221**	**73**	**197**	**270**	**3,676**

Table 4-3

Project Trip Generation Summary (PCE)

Land Use	Quantity[2]	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Planning Area 5: Fulfillment Center Warehouse (65%)	270.965	TSF							
Passenger Cars:			21	6	27	11	28	39	474
2-4 axle Trucks:			3	1	4	2	4	6	88
5+-axle Trucks:			7	2	9	2	6	8	176
Total Truck:			10	3	13	4	10	14	264
Fulfillment Center Warehouse (PCE)			**31**	**9**	**40**	**15**	**38**	**53**	**738**
Planning Area 5: High-Cube Cold Storage Warehouse (13%)	54.193	TSF							
Passenger Cars:			3	1	4	1	4	5	76
2-axle Trucks:			1	0	1	0	1	1	22
3-axle Trucks:			0	0	0	0	0	0	10
4+-axle Trucks:			2	1	3	1	2	3	66
Total Truck:			3	1	4	1	3	4	98
High-Cube Cold Storage Warehouse (PCE)			**6**	**2**	**8**	**2**	**7**	**9**	**174**
Planning Area 5: Warehouse (22%)	91.711	TSF							
Passenger Cars:			10	3	13	4	11	15	116
2-axle Trucks:			0	0	0	0	0	0	12
3-axle Trucks:			1	0	1	0	1	1	18
4+-axle Trucks:			3	1	4	1	4	5	82
Total Truck:			4	1	5	1	5	6	112
Warehouse (PCE)			**14**	**4**	**18**	**5**	**16**	**21**	**228**
Planning Area 5 Total (PCE)			**51**	**15**	**66**	**22**	**61**	**83**	**1,140**
Phase 2: Passenger Cars			284	76	360	104	316	420	4,178
Phase 2: Trucks (PCE)			112	31	143	35	109	144	2,506
Phase 2: Total (PCE)			**396**	**107**	**503**	**139**	**425**	**564**	**6,684**
Project Buildout: Passenger Cars			673	181	854	249	750	999	10,008
Project Buildout: Trucks (PCE)			277	76	353	88	266	354	6,178
Project Buildout: (PCE)			**950**	**257**	**1,207**	**337**	**1,016**	**1,353**	**16,186**

[1] TSF = thousand square feet

For purposes of this analysis, the following ITE land use codes and vehicle mixes have been utilized:

- High-Cube Fulfillment Center Warehouse has been used to derive site specific trip generation estimates for the proposed Project. The ITE Trip Generation Manual (2017) has trip generation rates for high-cube fulfillment center use (ITE land use code 155), however, these rates are unreliable because they are based on limited data (i.e., one to two surveyed sites) and the ITE Trip Generation Manual recommends the use of local data sources where available. As such, the trip-generation statistics published in the High-Cube Warehouse Trip Generation Study (WSP, January 29, 2019) which was commissioned by the Western Riverside Council of Governments (WRCOG) in support of the Transportation Uniform Mitigation Fee (TUMF) update, has been utilized for the high-cube fulfillment center use. The WSP trip generation rates were published in January 2019 and are based on data collected at 11 local high-cube fulfillment center sites. However, the WSP study does not include a split for inbound and outbound vehicles, as such, the inbound and outbound splits per the ITE High-Cube Warehouse Vehicle Trip Generation Analysis (October 2016) have been utilized. (12)
- ITE land use code 157 (High-Cube Cold Storage Warehouse) has been used to derive site specific trip generation estimates for the proposed Project. The truck percentage was obtained from the ITE's High Cube Warehouse Vehicle Trip Generation Analysis (October 2016). The vehicle mix varies by peak hour and overall daily: 69.2% passenger cars in the AM peak hour, 78.3% passenger cars in the PM peak hour, and 67.8% passenger cars weekday daily. Trip generation for heavy trucks was further broken down by truck type (or axle type). The total truck percentage is comprised of 3 different truck types: 2-axle, 3-axle, and 4+-axle trucks. For the purposes of this analysis, the percentage of trucks, by axle type, were obtained from the SCAQMD Warehouse Truck Trip Study Data Results and Usage (2014) recommended truck mix. The SCAQMD has recently performed surveys of existing facilities and compiled the data to provide interim guidance on the mix of heavy trucks for these types of high-cube warehousing/distribution facilities. Based on this interim guidance from the SCAQMD, the following truck fleet mix was utilized for the purposes of estimating the truck trip generation for the site (with cold storage): 34.7% of the total trucks as 2-axle trucks, 11.0% of the total trucks as 3-axle trucks, and 54.3% of the total trucks as 4+-axle trucks.
- The Specific Plan allows for business park to be developed with merchant wholesale, professional services, professional office, warehouse/storage, research and development, and other similar related uses. Because the peak hour trip generation rates collected for the "business park" land use category by the ITE as provided in their Trip Generation Manual, 10th Edition, 2017 (ITE land use code 770) are based on limited data (i.e., a single surveyed site) that does not have the same physical or operational characteristics as the range of uses permitted in the Business Park planning areas of the Specific Plan, the trip generation rates for ITE land use code 130 (Industrial Park) have been used to derive site specific trip generation estimates for the Project. The ITE Trip Generation Handbook (3rd Edition, 2017) identifies a 13% mix of heavy trucks for ITE land use code 130, however, does not provide a breakdown of the 13% further by axle type. As such, the percentage of trucks, by axle type, were obtained from the South Coast Air Quality Management District (SCAQMD) Warehouse Truck Trip Study Data Results and Usage (2014) recommended truck mix. Based on this guidance from the SCAQMD, the following truck fleet mix was utilized for the purposes of estimating the truck trip generation for the business park use (without cold storage): 16.7% of the total trucks as 2-axle trucks, 20.7% of the total trucks as 3-axle trucks, and 62.6% of the total trucks as 4+-axle trucks.

Finally, PCE factors were applied to the trip generation rates for heavy trucks (large 2-axles, 3-axles, 4+-axles) for both the Industrial and Business Park planning areas of the Merrill Commerce Center Specific Plan. PCEs allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and level of service analyses. The PCE factors are consistent with the recommended PCE factors in Appendix B of the San Bernardino County CMP, 2016 Update.

As shown on Table 4-2, the proposed Project (Project Buildout) is anticipated to generate a total of 12,446 trip-ends per day, with 991 AM peak hour trips and 1,136 PM peak hour trips. For the purposes of the operations analysis, the PCE trip generation shown in Table 4-3 has been utilized.

4.2 PROJECT TRIP DISTRIBUTION

The Project trip distribution and assignment process represents the directional orientation of traffic to and from the Project site. The trip distribution pattern of passenger cars is heavily influenced by the geographical location of the site, the location of surrounding uses, and the proximity to the regional freeway system. The trip distribution pattern for truck traffic is also influenced by the local truck routes approved by the City of Ontario, City of Chino, City of Chino Hills, City of Eastvale, City of Jurupa Valley, and Caltrans. Given these differences, separate trip distributions were generated for both passenger cars and truck trips.

The Opening Year Cumulative distribution patterns utilize the existing roadway system in relation to the Horizon Year trip distribution patterns, which assumes future roadway connections. The Project trip distribution patterns are also affected by near-term development patterns in the vicinity of the Project site. The extension of Limonite Avenue/Kimball Avenue extension between Hellman Avenue and Archibald Avenue, and the Merrill Avenue extension to Bellegrave Avenue have also been assumed for Horizon Year conditions only.

Exhibit 4-1 illustrates the truck trip distribution patterns for Opening Year Cumulative and Horizon Year conditions. As shown on Exhibit 4-1, trucks are anticipated to utilize designated truck routes such as Merrill Avenue, Euclid Avenue (SR-83), Archibald Avenue, Edison Avenue/Ontario Ranch Road, and Limonite Avenue to reach regional freeways such as the SR-71, SR-60, and I-15 Freeways. These travel patterns are not anticipated to change with the addition of new future facilities for Horizon Year traffic conditions.

Exhibit 4-2 illustrates the Opening Year Cumulative passenger car trip distribution patterns. The Opening Year Cumulative passenger car trip distribution patterns are based on a SBTAM select zone run for a zone wholly or partially containing the Project, with modifications to utilize existing roadways. Exhibit 4-3 illustrates the passenger car trip distribution patterns for Horizon Year traffic conditions which is based on a SBTAM select zone run of the Project.

EXHIBIT 4-1 (1OF2): PROJECT (TRUCK) TRIP DISTRIBUTION

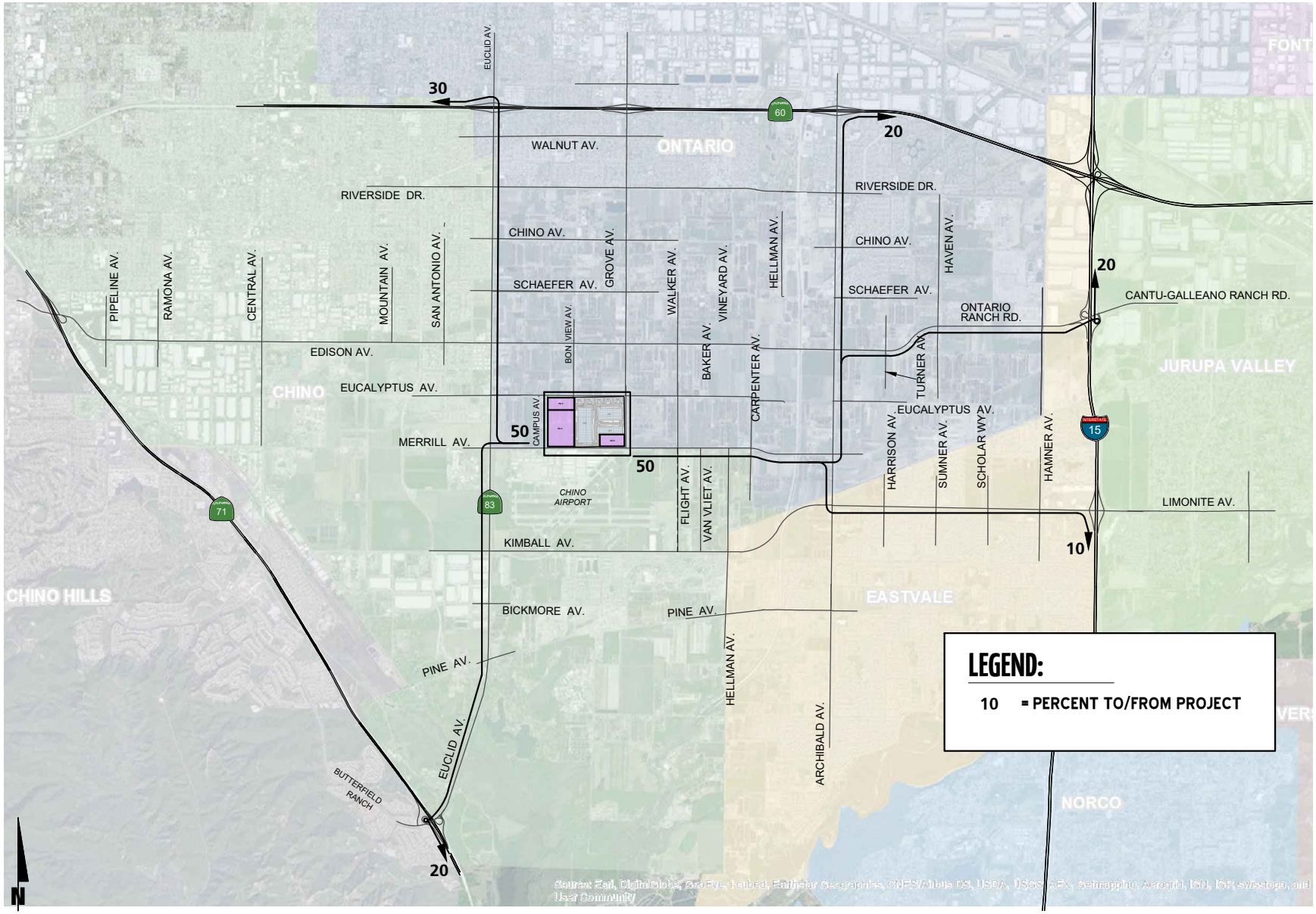
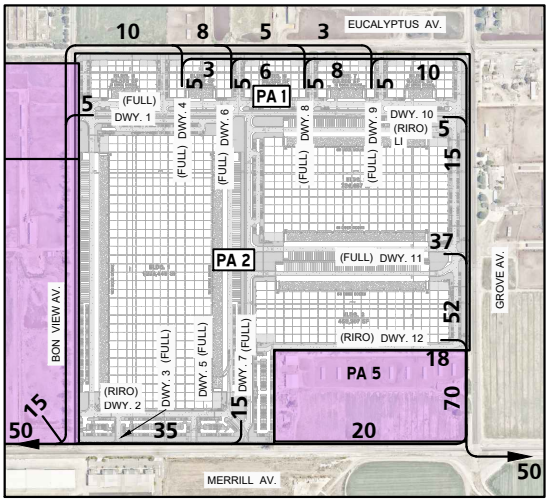
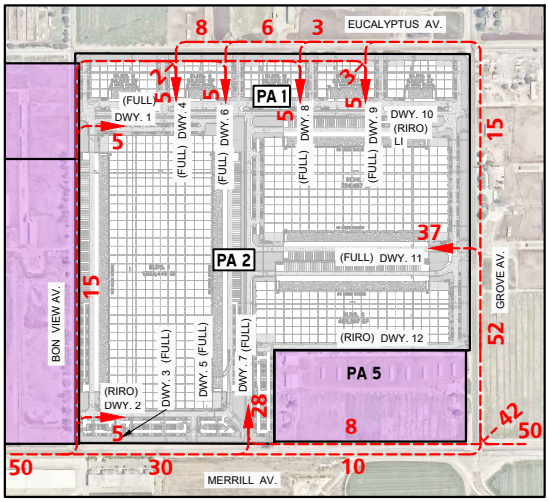


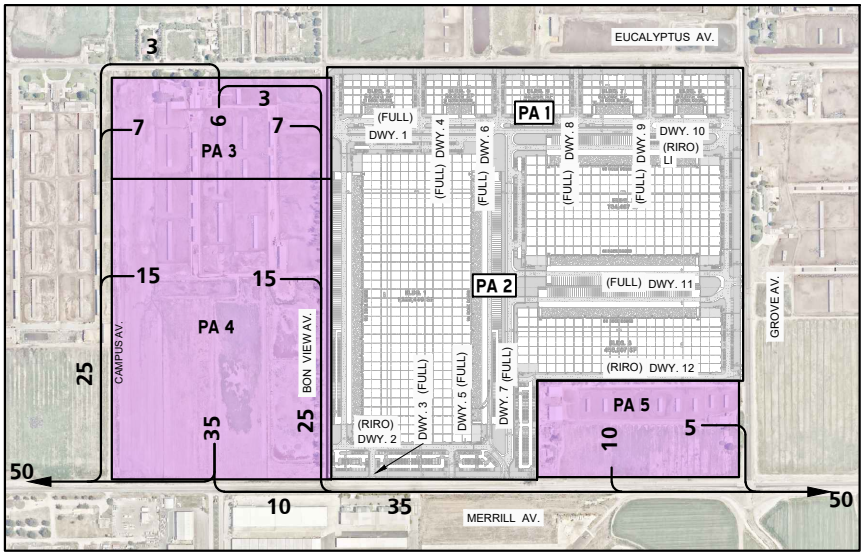
EXHIBIT 4-1 (2OF2): PROJECT (TRUCK) TRIP DISTRIBUTION



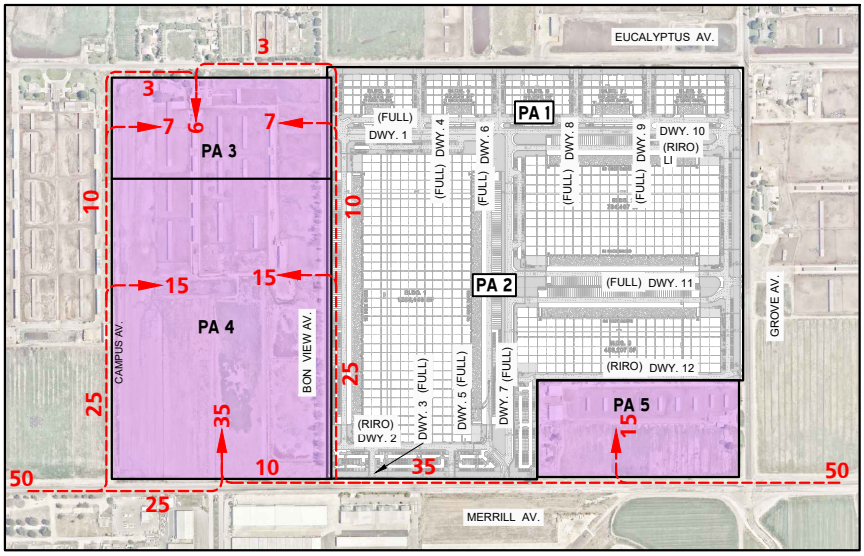
PHASE 1



PHASE 2



PHASE 2



LEGEND:

10 = PERCENT TO/FROM PROJECT

← = OUTBOUND

<- - - = INBOUND

N

EXHIBIT 4-2 (1OF2): PROJECT (OPENING YEAR PASSENGER CAR) TRIP DISTRIBUTION

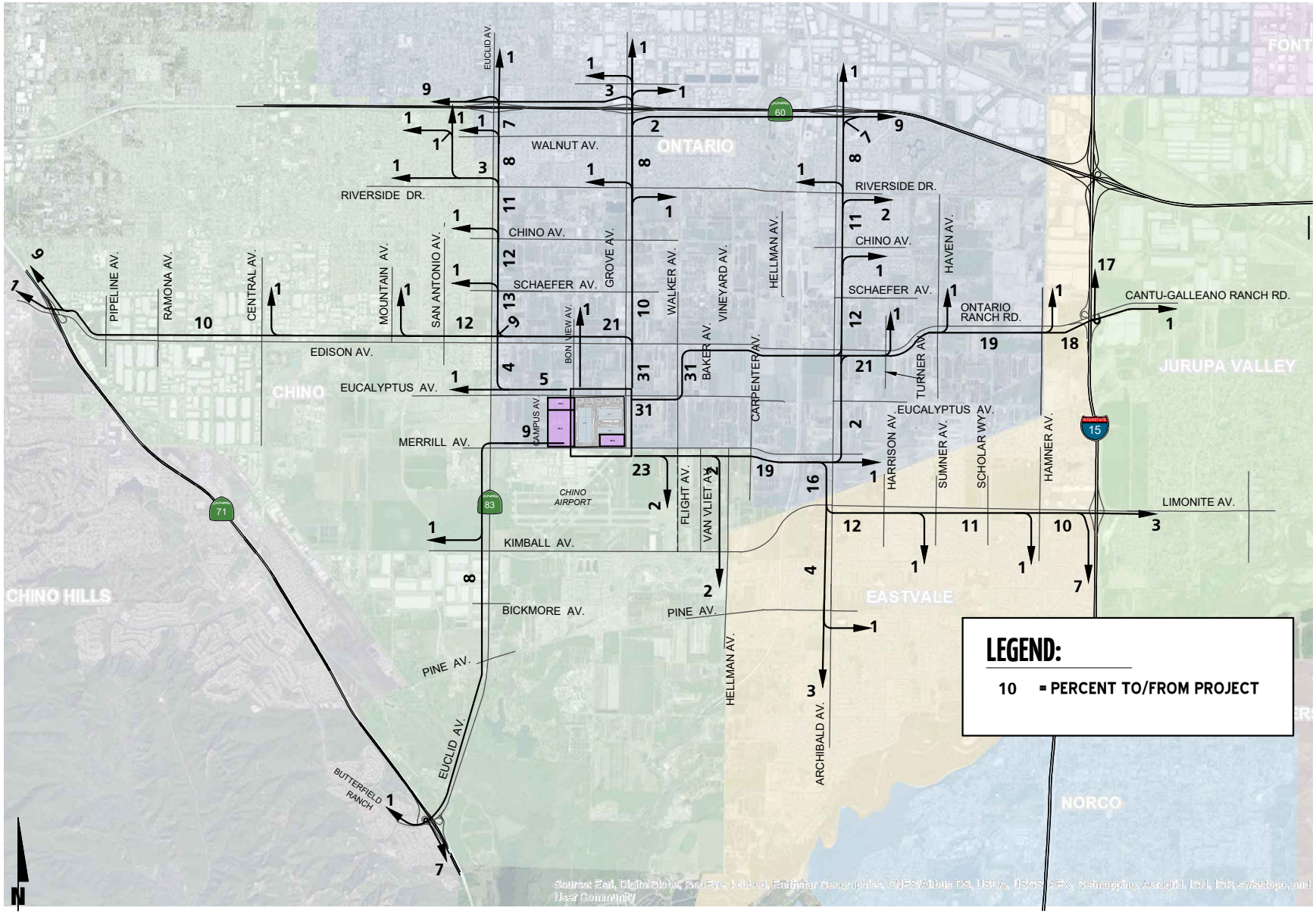


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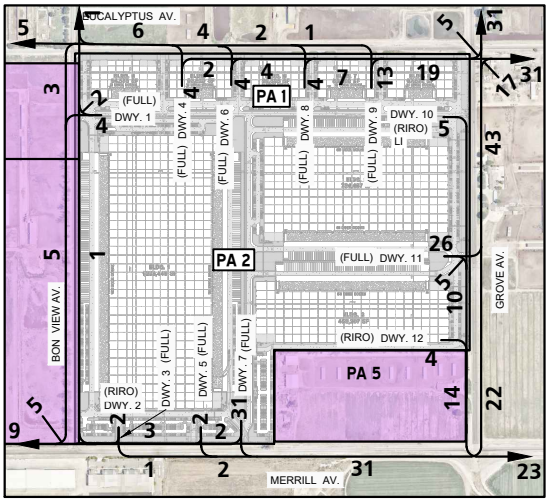
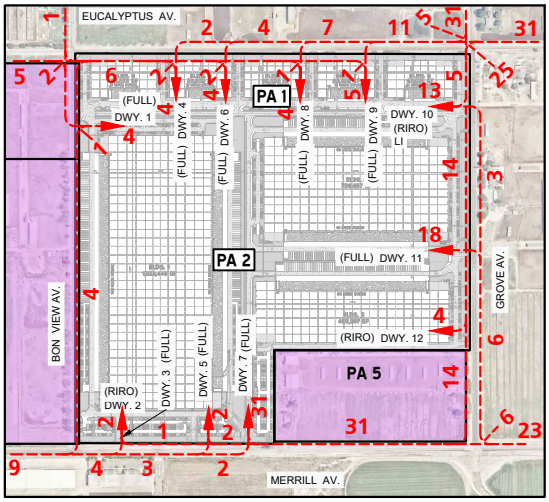
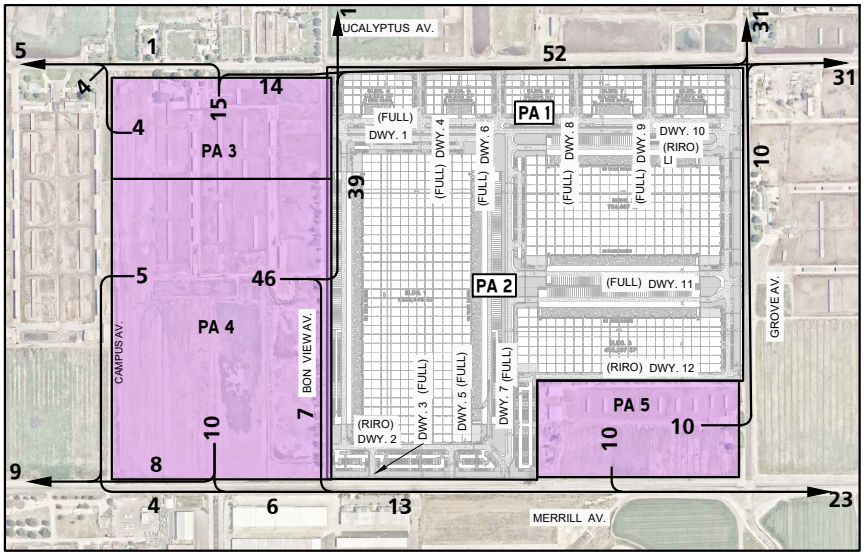
EXHIBIT 4-2 (2OF2): PROJECT (OPENING YEAR PASSENGER CAR) TRIP DISTRIBUTION



PHASE 1



PHASE 2



LEGEND:

10 = PERCENT TO/FROM PROJECT

= OUTBOUND

= INBOUND

PHASE 2

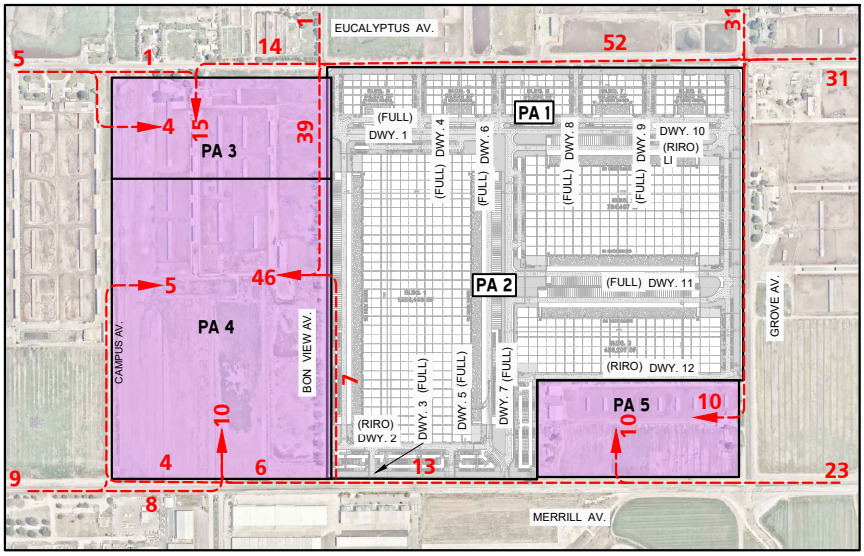


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EXHIBIT 4-3 (1OF2): PROJECT (HORIZON YEAR PASSENGER CAR) TRIP DISTRIBUTION

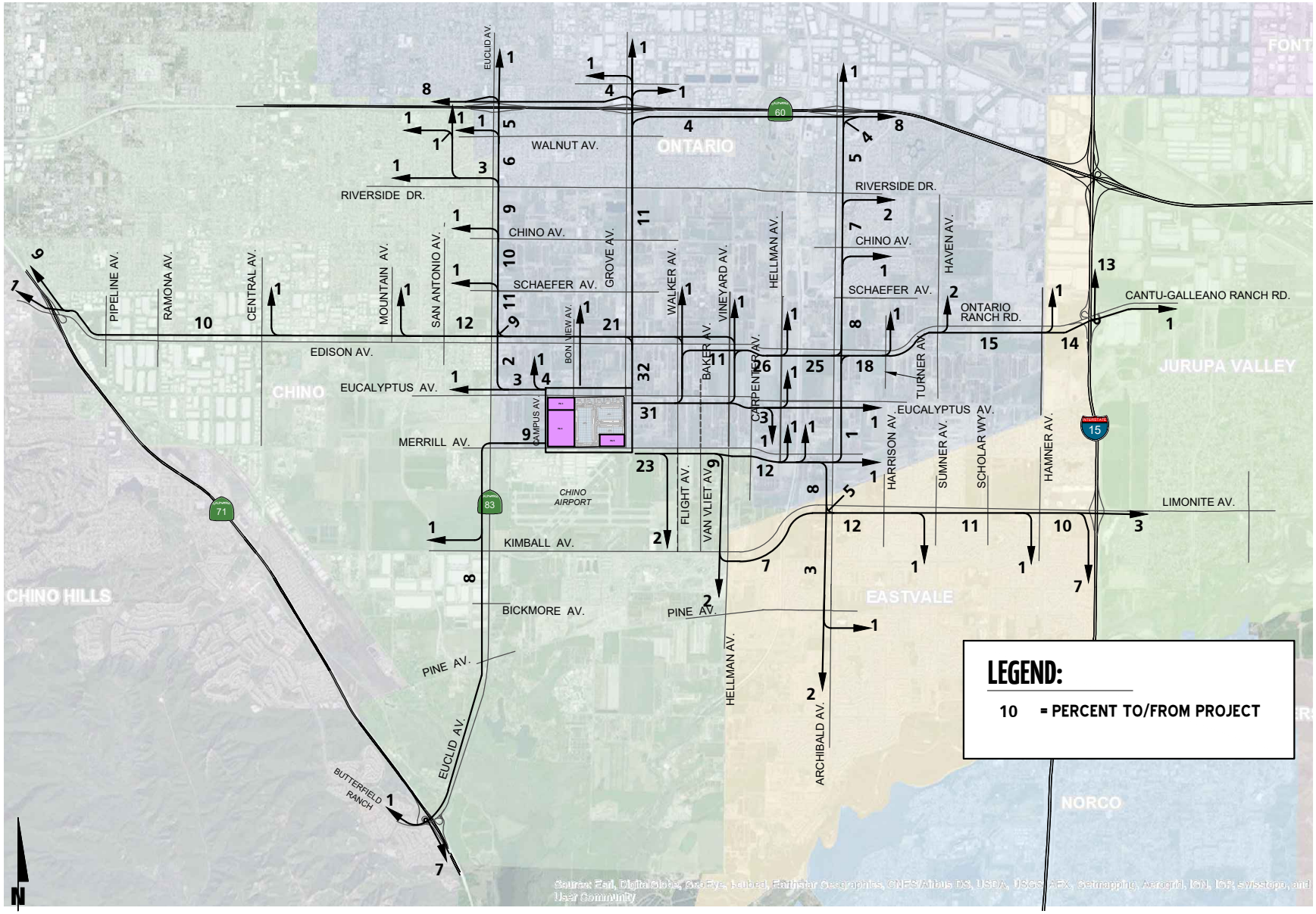

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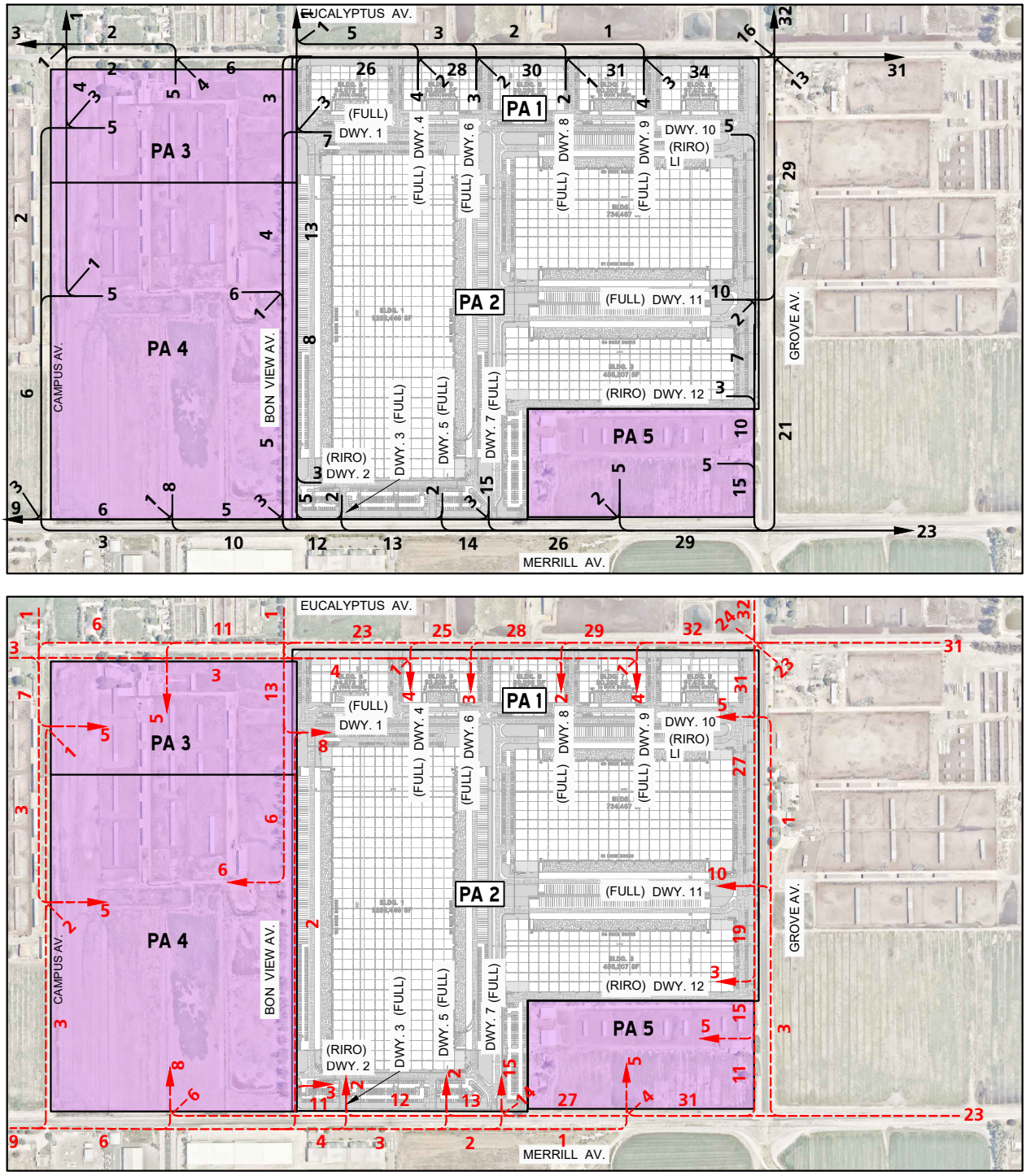
EXHIBIT 4-3 (2OF2): PROJECT (HORIZON YEAR PASSENGER CAR) TRIP DISTRIBUTION



4.3 MODAL SPLIT

The potential for Project trips (non-truck) to be reduced by the use of public transit, walking or bicycling have not been included as part of the Project's estimated trip generation. Essentially, the Project's traffic projections are "conservative" in that these alternative travel modes would reduce the forecasted traffic volumes (non-truck trips only).

4.4 PROJECT TRIP ASSIGNMENT

The assignment of traffic from the Project area to the adjoining roadway system is based upon the Project trip generation, trip distribution, and the arterial highway and local street system improvements that would be in place by the time of initial occupancy of the Project. Based on the identified Project traffic generation and trip distribution patterns, Project ADT and peak hour intersection turning movement volumes are shown on the following exhibits:

- Exhibits 4-4 and 4-5 for Phase 1 traffic conditions
- Exhibits 4-6 and 4-7 for Project Buildout traffic conditions
- Exhibits 4-8 and 4-9 for Horizon Year (2040) traffic conditions

4.5 BACKGROUND TRAFFIC

4.5.1 OPENING YEAR CUMULATIVE CONDITIONS

Future year traffic forecasts have been based upon background (ambient) growth at 2% per year for 2024 traffic conditions. The ambient growth factor is intended to approximate regional traffic growth. This ambient growth rate is added to existing traffic volumes to account for area-wide growth not reflected by cumulative development projects. Ambient growth has been added to daily and peak hour traffic volumes on surrounding roadways, in addition to traffic generated by the development of future projects that have been approved but not yet built and/or for which development applications have been filed and are under consideration by governing agencies.

Opening Year Cumulative (2024) traffic volumes are provided in Section 6 of this report. The traffic generated by the proposed Project was then manually added to the base volume to determine Opening Year Cumulative "With Project" forecasts for each applicable phase.

EXHIBIT 4-4: PROJECT ONLY (PHASE 1) AVERAGE DAILY TRAFFIC (ADT)

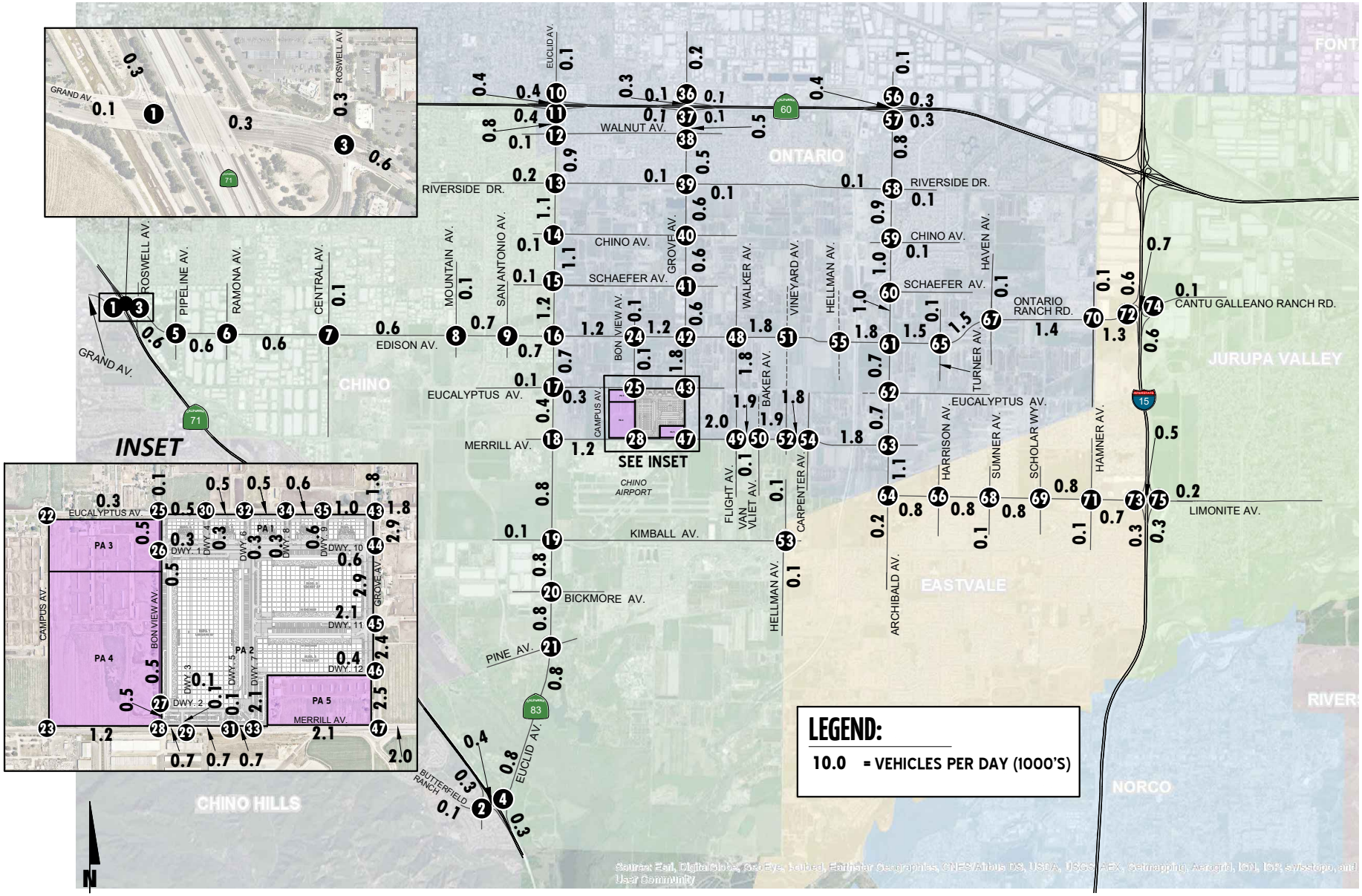
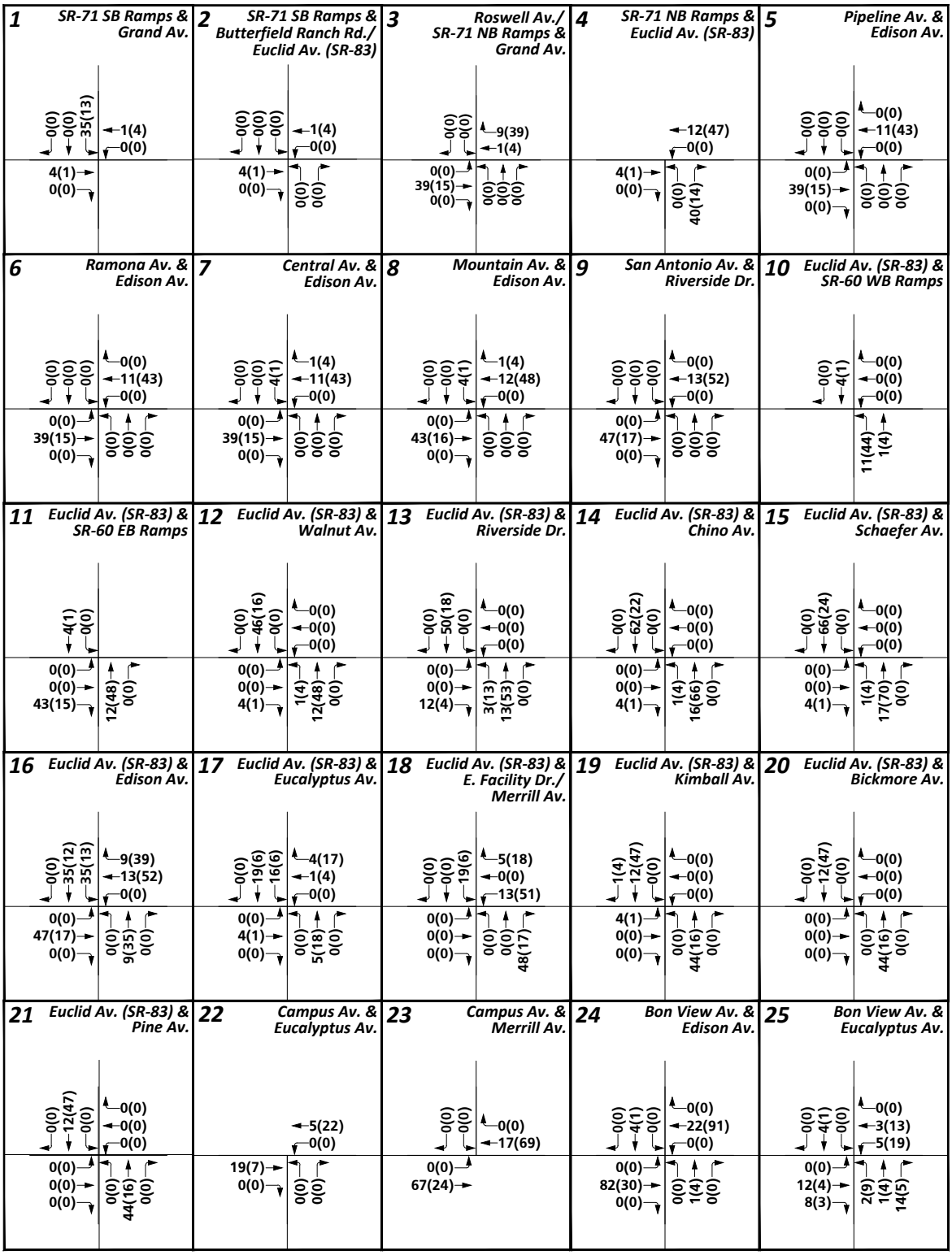


EXHIBIT 4-5 (1OF3): PROJECT ONLY (PHASE 1) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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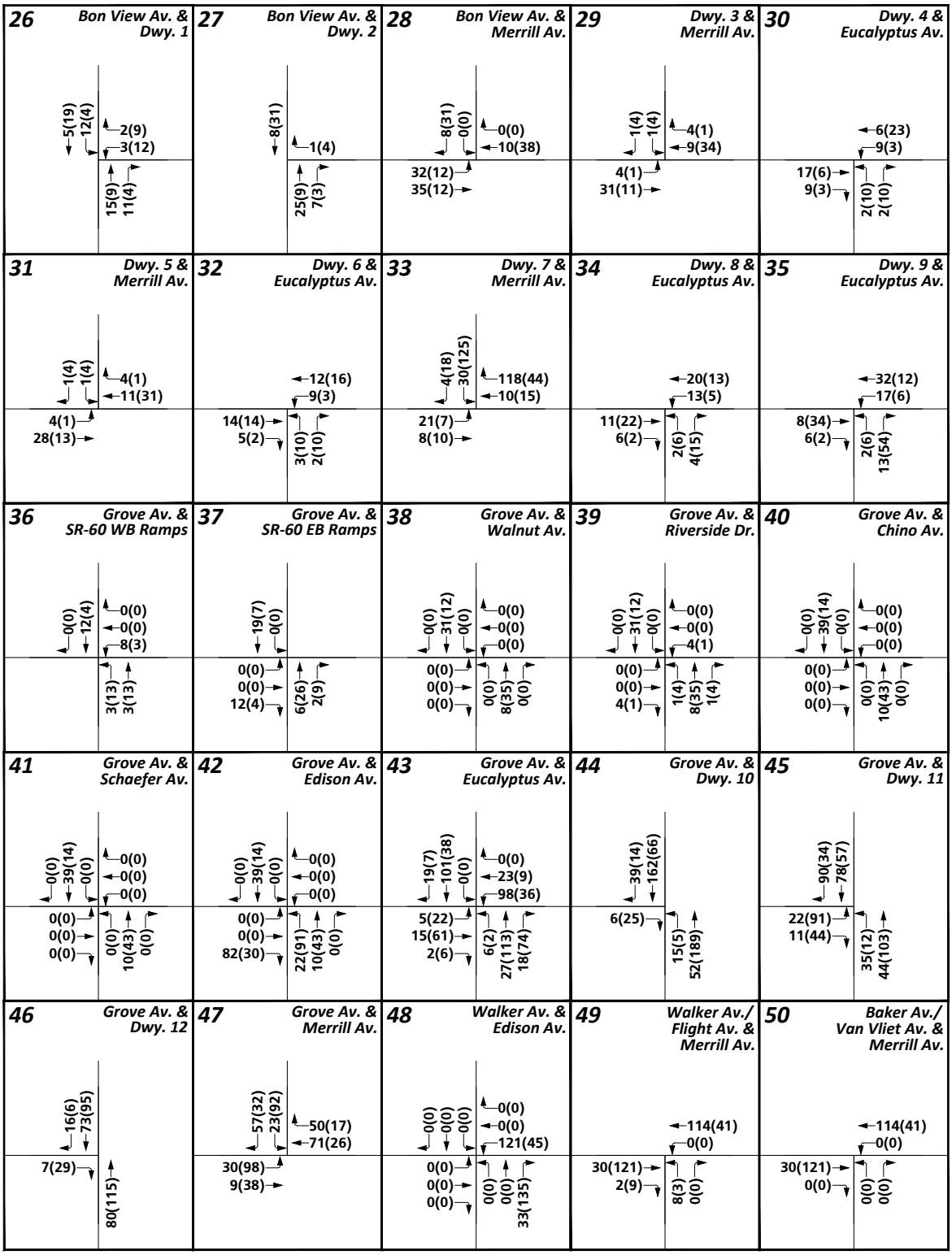
URBAN CROSSROADS

EXHIBIT 4-5 (2OF3): PROJECT ONLY (PHASE 1) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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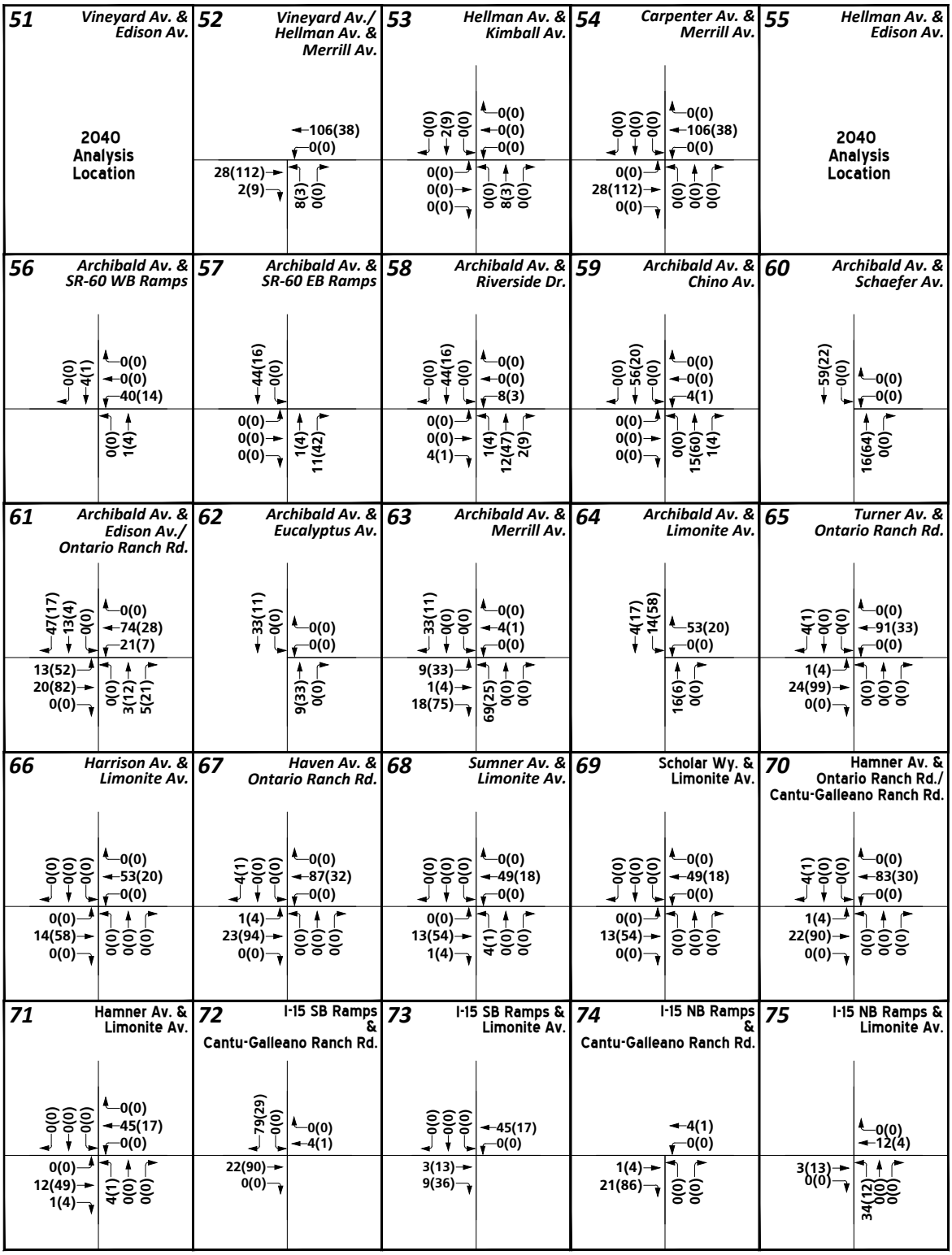
EXHIBIT 4-5 (3OF3): PROJECT ONLY (PHASE 1) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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URBAN CROSSROADS

EXHIBIT 4-6: PROJECT ONLY (PROJECT BUILDOUT) AVERAGE DAILY TRAFFIC (ADT)

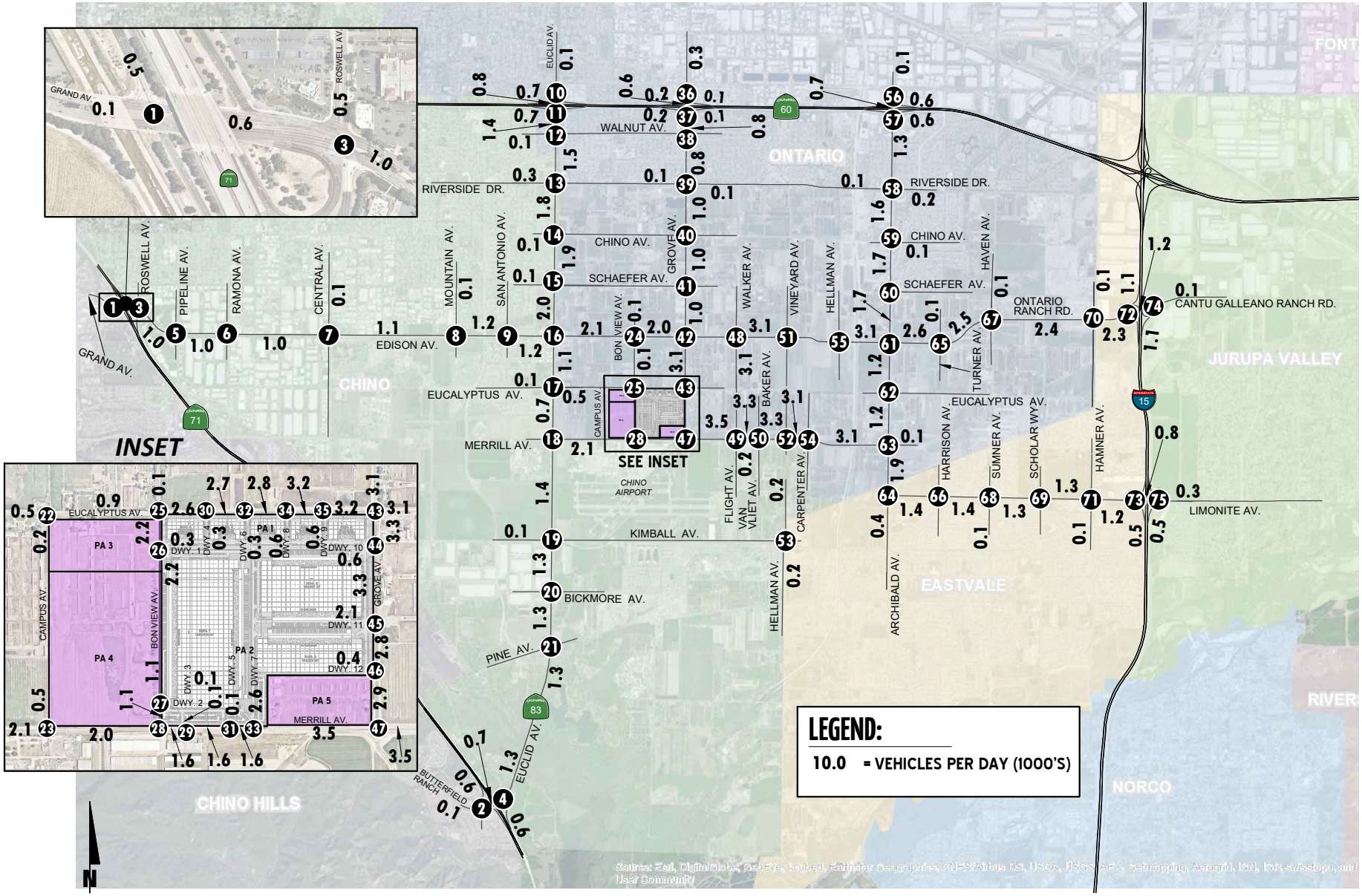
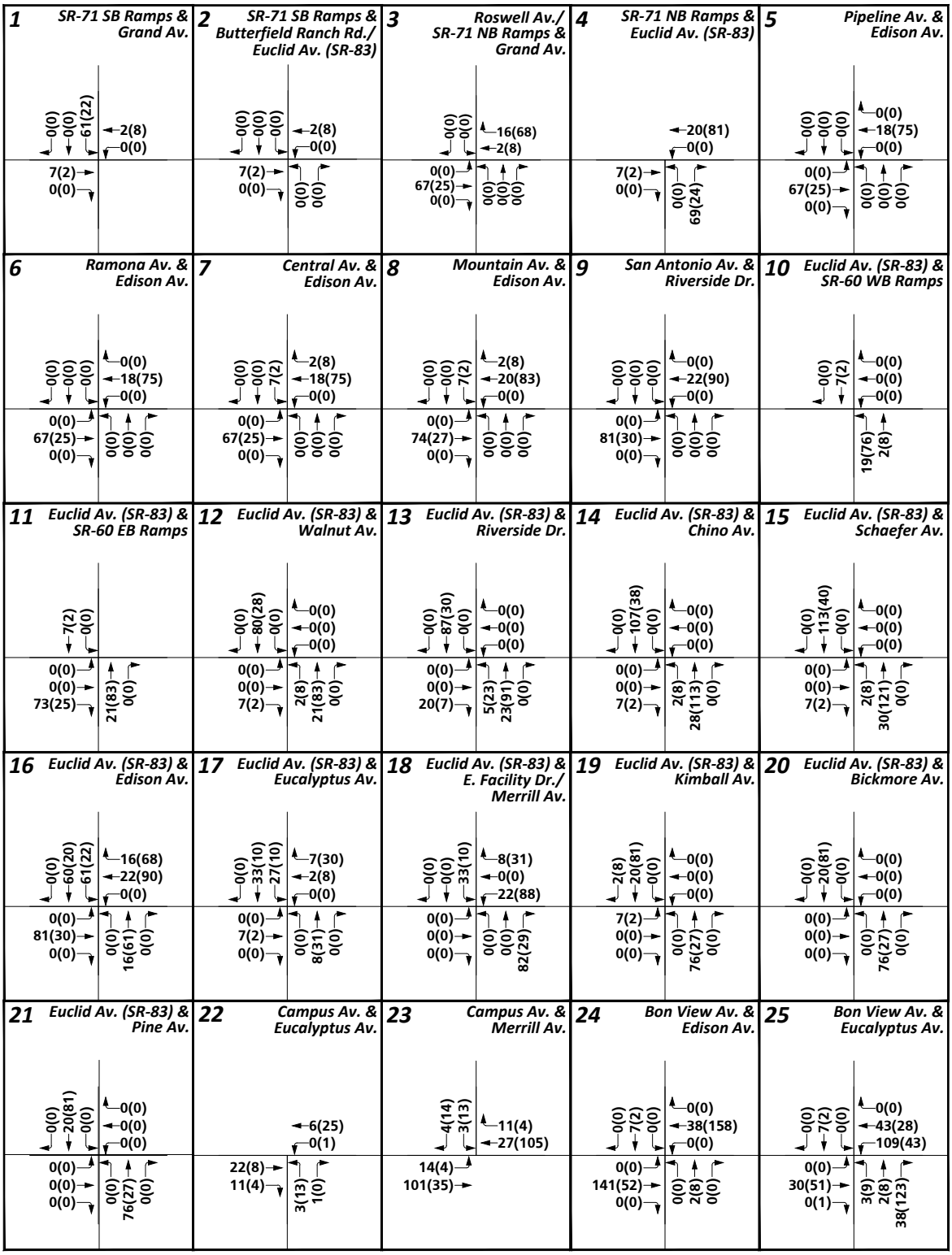


EXHIBIT 4-7 (1OF3): PROJECT ONLY (PROJECT BUILDOUT) TRAFFIC VOLUMES



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10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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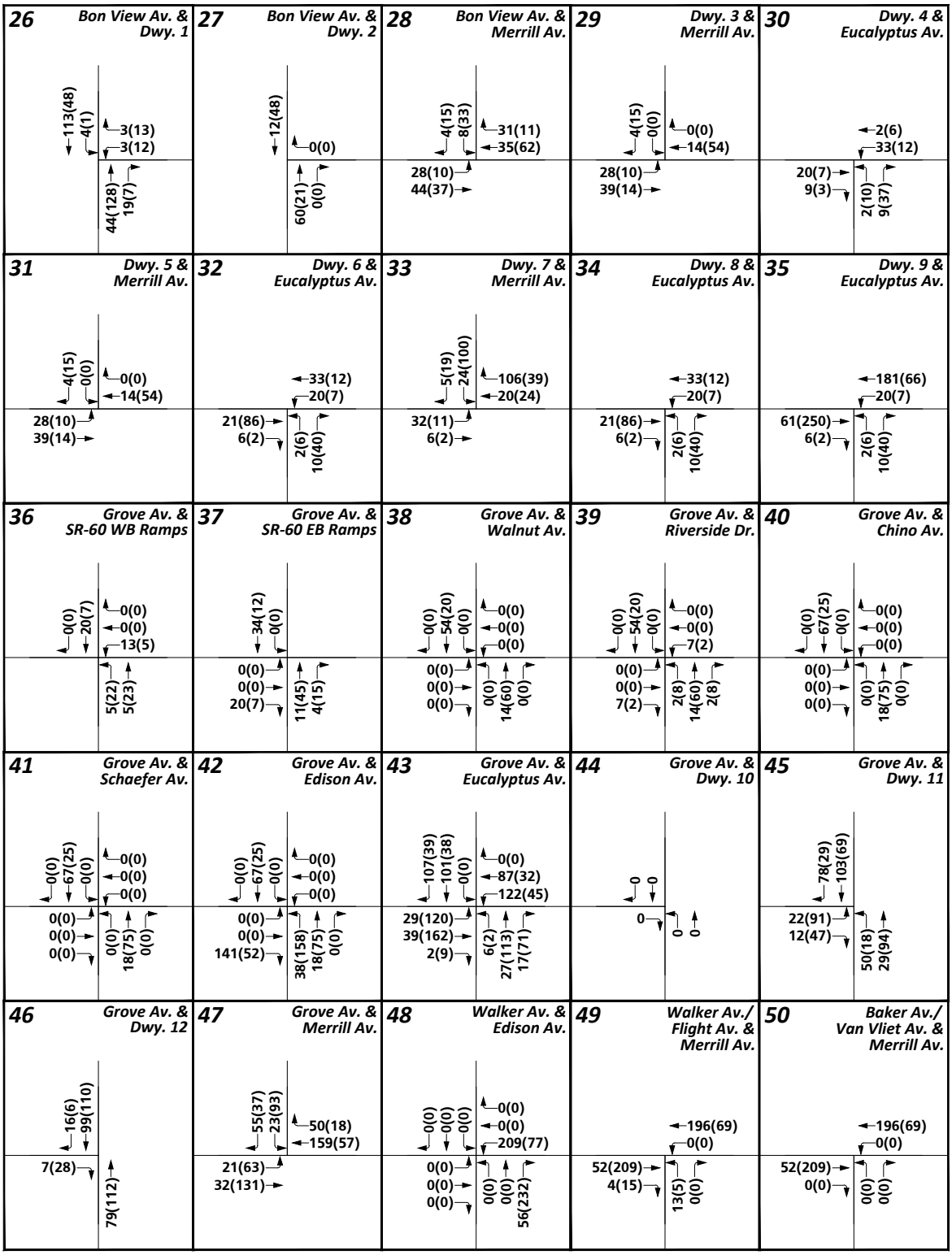
URBAN CROSSROADS

EXHIBIT 4-7 (2OF3): PROJECT ONLY (PROJECT BUILDOUT) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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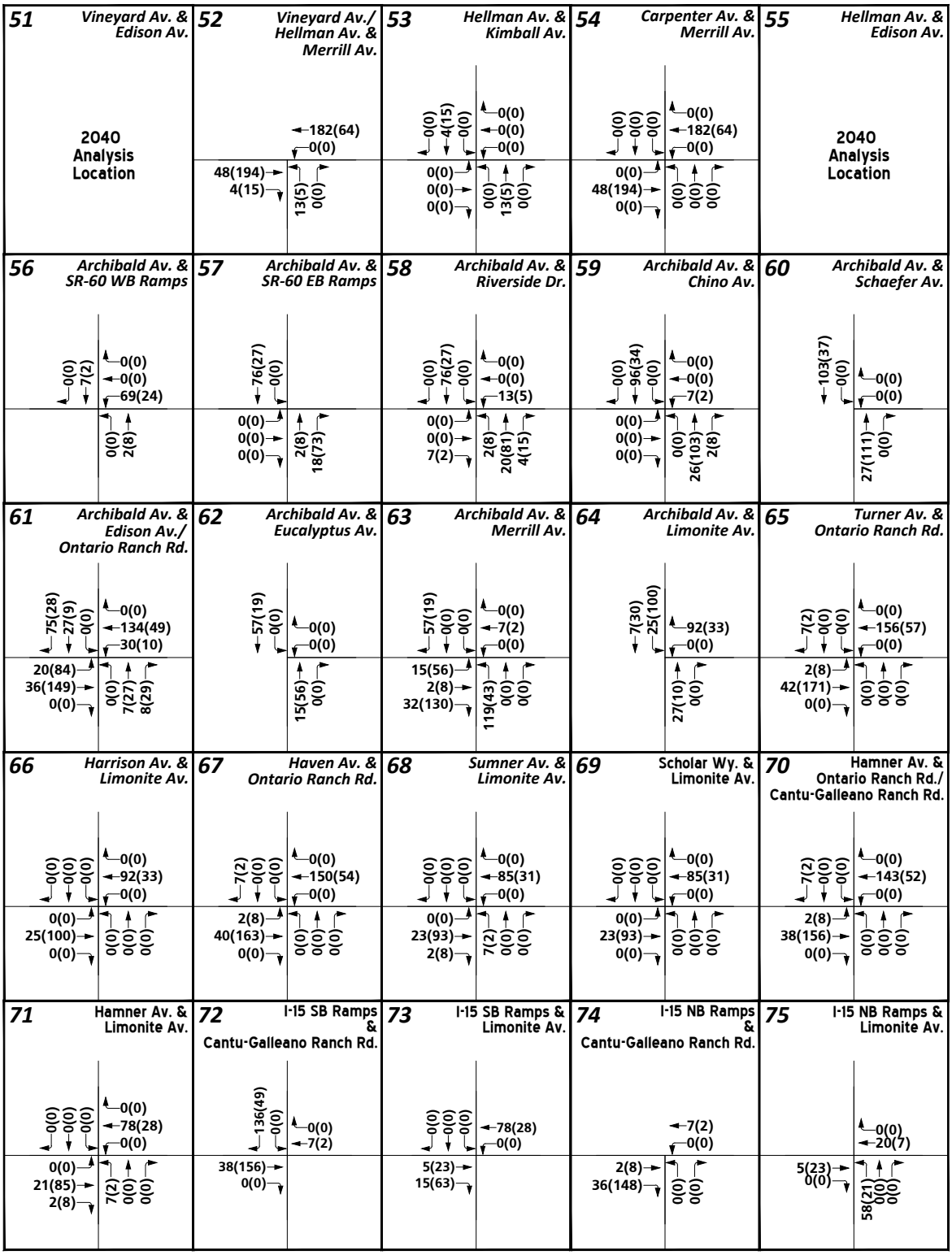
URBAN CROSSROADS

EXHIBIT 4-7 (3OF3): PROJECT ONLY (PROJECT BUILDOUT) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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URBAN CROSSROADS

EXHIBIT 4-8: PROJECT ONLY (2040) AVERAGE DAILY TRAFFIC (ADT)

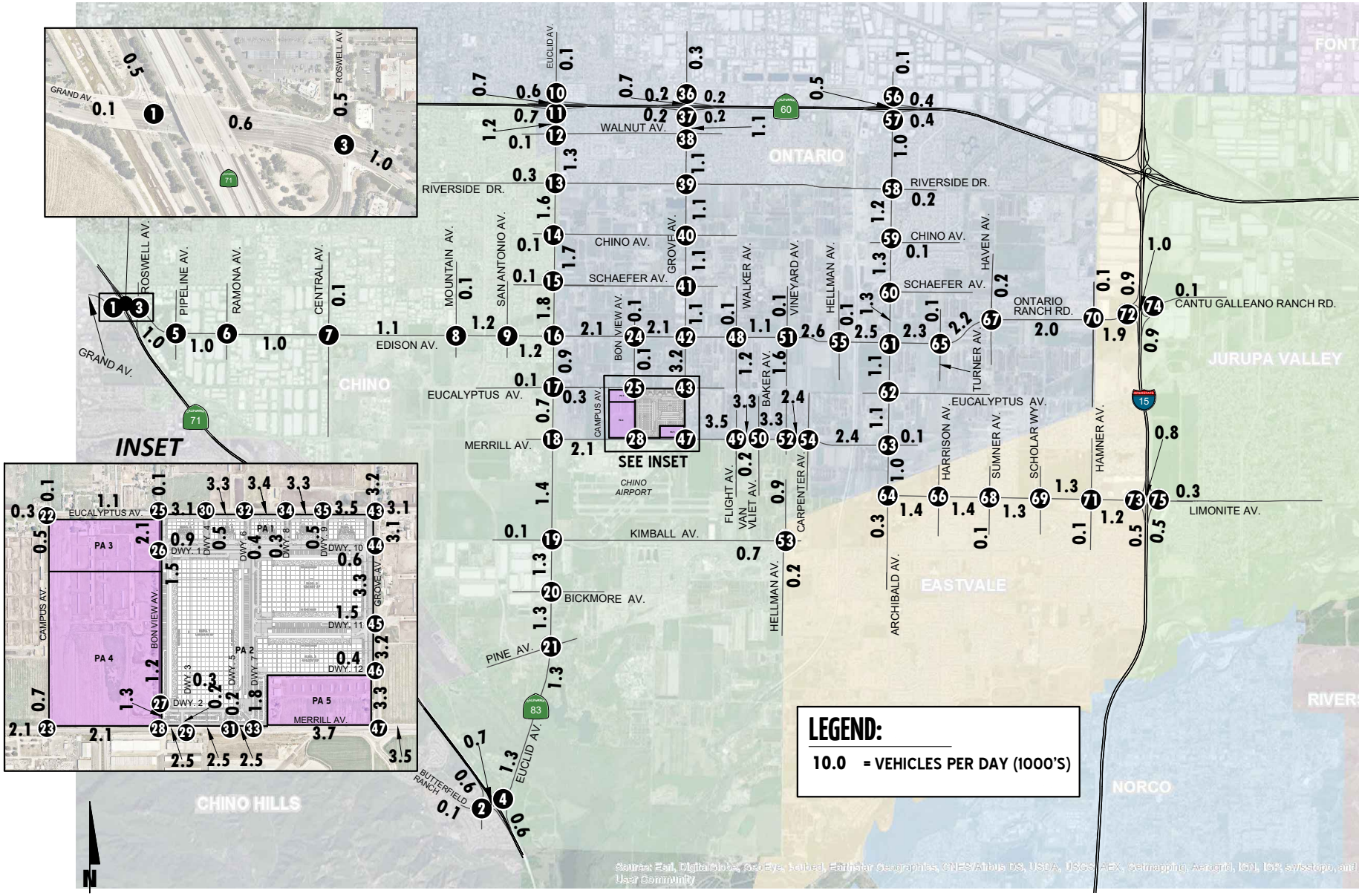
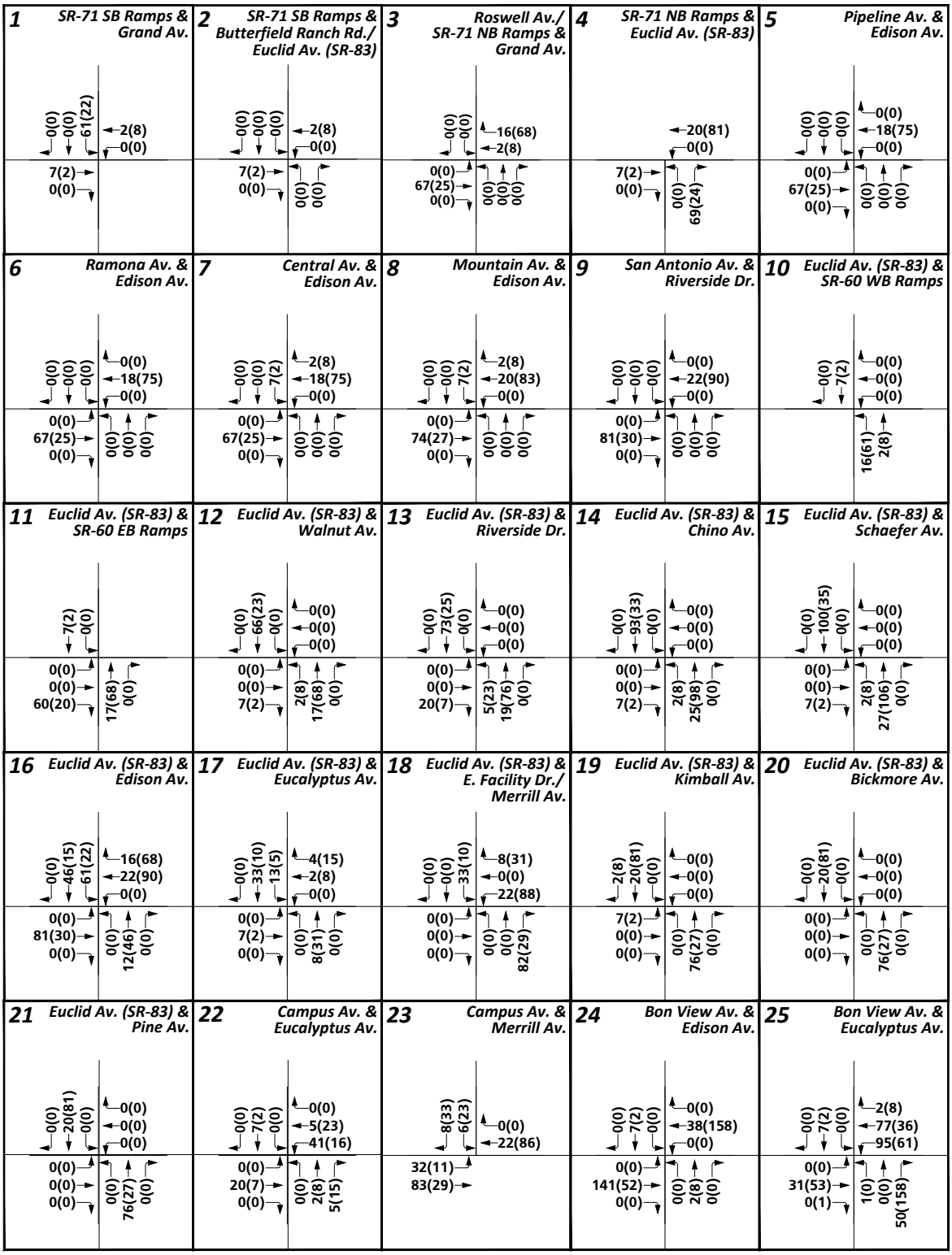


EXHIBIT 4-9 (1OF3): PROJECT ONLY (2040) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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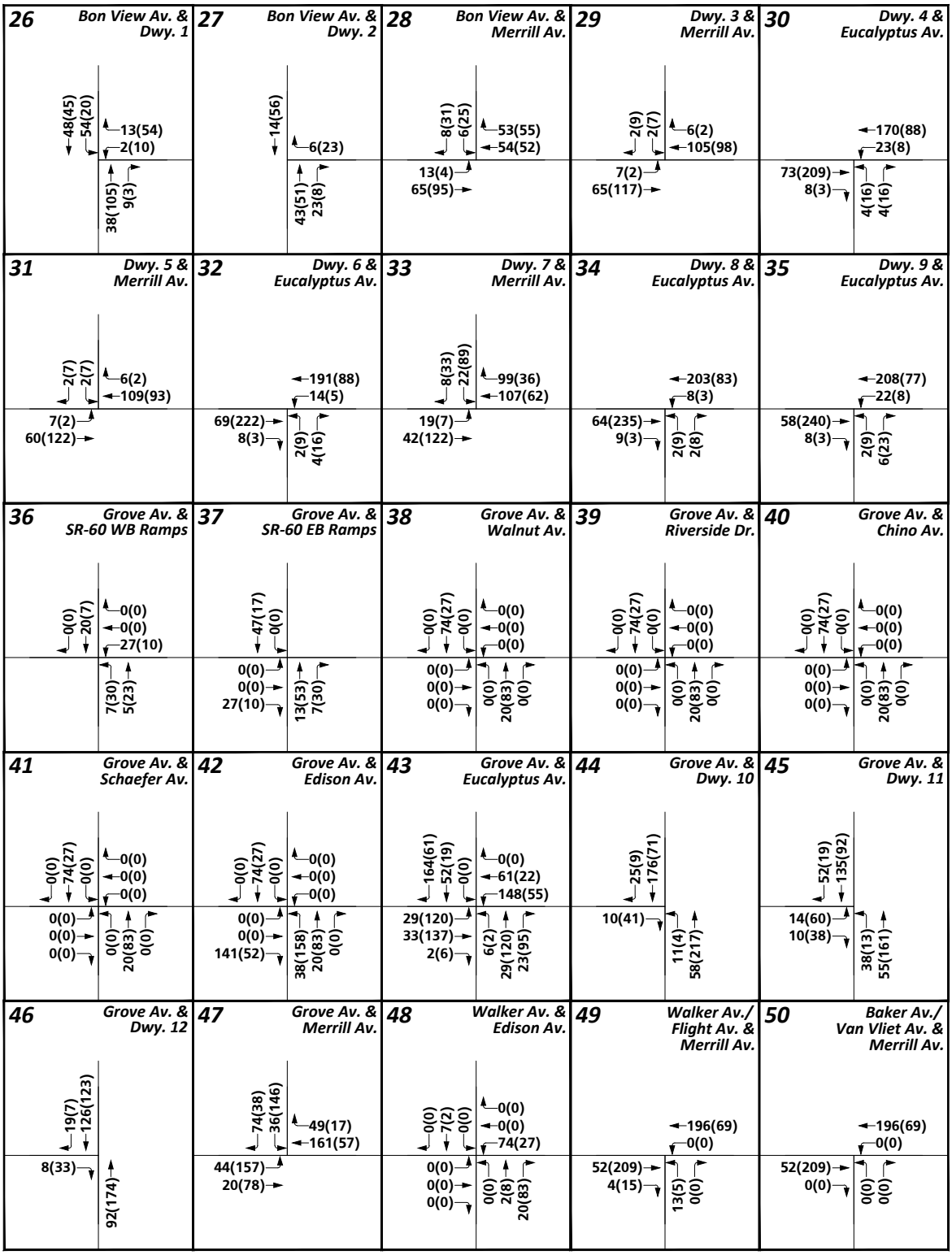
URBAN CROSSROADS

EXHIBIT 4-9 (2OF3): PROJECT ONLY (2040) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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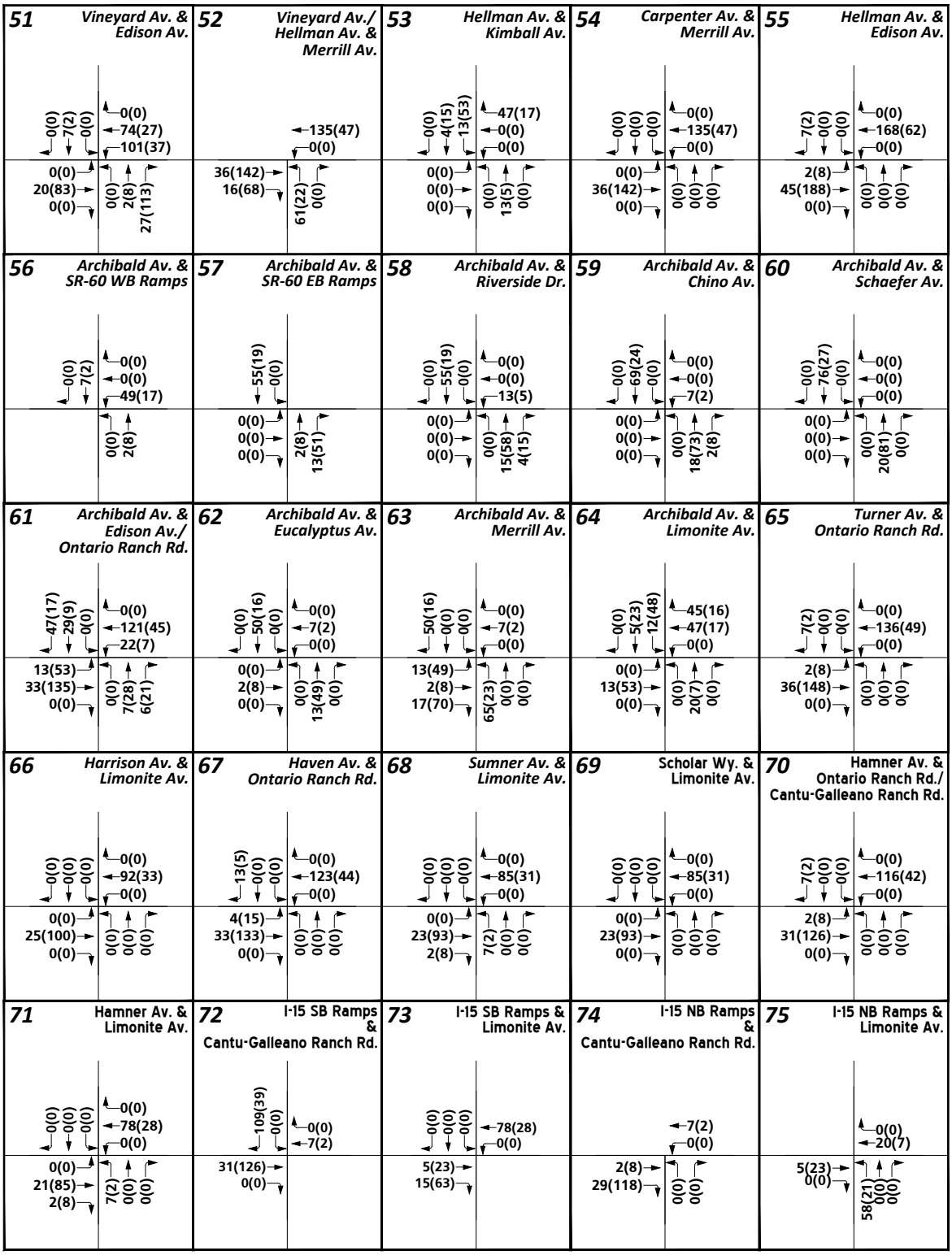
EXHIBIT 4-9 (3OF3): PROJECT ONLY (2040) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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URBAN CROSSROADS

4.5.2 HORIZON YEAR (2040) CONDITIONS

The adopted Southern California Association of Governments (SCAG) 2020 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) (May 2020) growth forecasts for the City of Ontario identifies projected growth in population of 172,200 in 2016 to 269,100 in 2045, or a 56.3% increase over the 29-year period. (13) The change in population equates to roughly a 1.55% growth rate, compounded annually. Similarly, growth over the same 29-year period in households is projected to increase by 62.0%, or a 1.67% annual growth rate. Finally, growth in employment over the same 29-year period is projected to increase by 48.6%, or a 1.38% annual growth rate.

Therefore, the annual growth rate utilized for the purposes of this analysis would appear to conservatively approximate the anticipated regional growth in traffic volumes in the City of Ontario for Opening Year Cumulative and Horizon Year (2040) traffic conditions, especially when considered along with the addition of project-related traffic. As such, the growth in traffic volumes assumed in this traffic impact analysis would tend to overstate as opposed to understate the potential deficiencies to traffic and circulation. Horizon Year (2040) With Project traffic forecasts reflects buildout of the Project.

4.6 CUMULATIVE DEVELOPMENT TRAFFIC

A cumulative project list was developed for the purposes of this analysis through consultation with planning and engineering staff from the City of Ontario. The cumulative projects listed are those that would generate traffic and would contribute traffic to study area intersections. The neighboring jurisdictions of Chino, Eastvale, and Jurupa Valley have also been contacted to include key projects in their respective cities.

Exhibit 4-10 illustrates the cumulative development location map. A summary of cumulative development projects and their proposed land uses are shown on Table 4-4. If applicable, the traffic generated by individual cumulative projects was manually added to the Opening Year Cumulative forecasts to ensure that traffic generated by the listed cumulative development projects on Table 4-4 are reflected as part of the background traffic. In an effort to conduct a conservative analysis, the cumulative projects are added in conjunction with the ambient growth identified in Section 4.5.1 *Background Traffic: Opening Year Cumulative Conditions*. Cumulative ADT and peak hour intersection turning movement volumes are shown on Exhibits 4-11 and 4-12 for near-term traffic conditions.

EXHIBIT 4-10: CUMULATIVE DEVELOPMENT LOCATION MAP

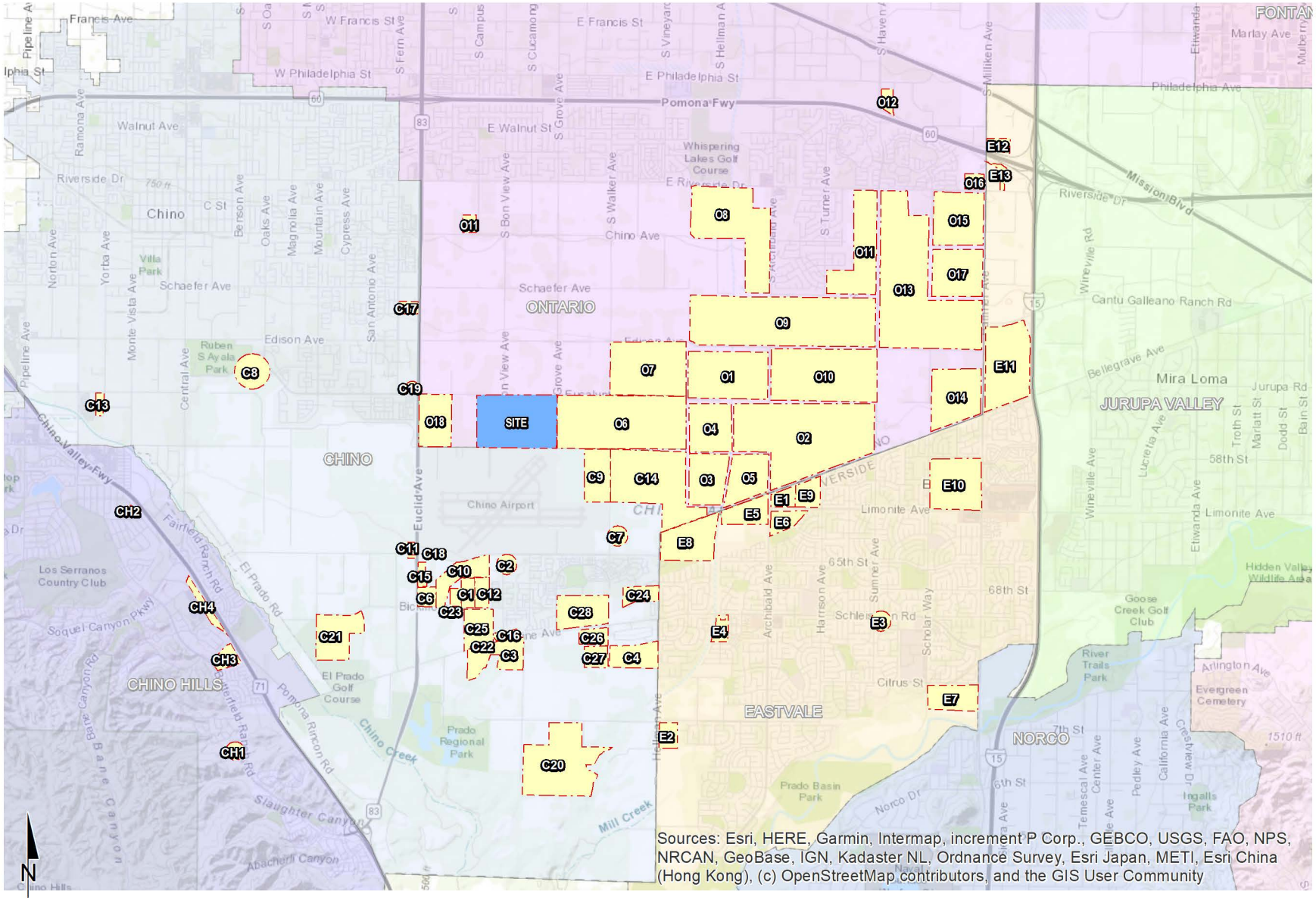

EXHIBIT 4-11: CUMULATIVE ONLY AVERAGE DAILY TRAFFIC (ADT)

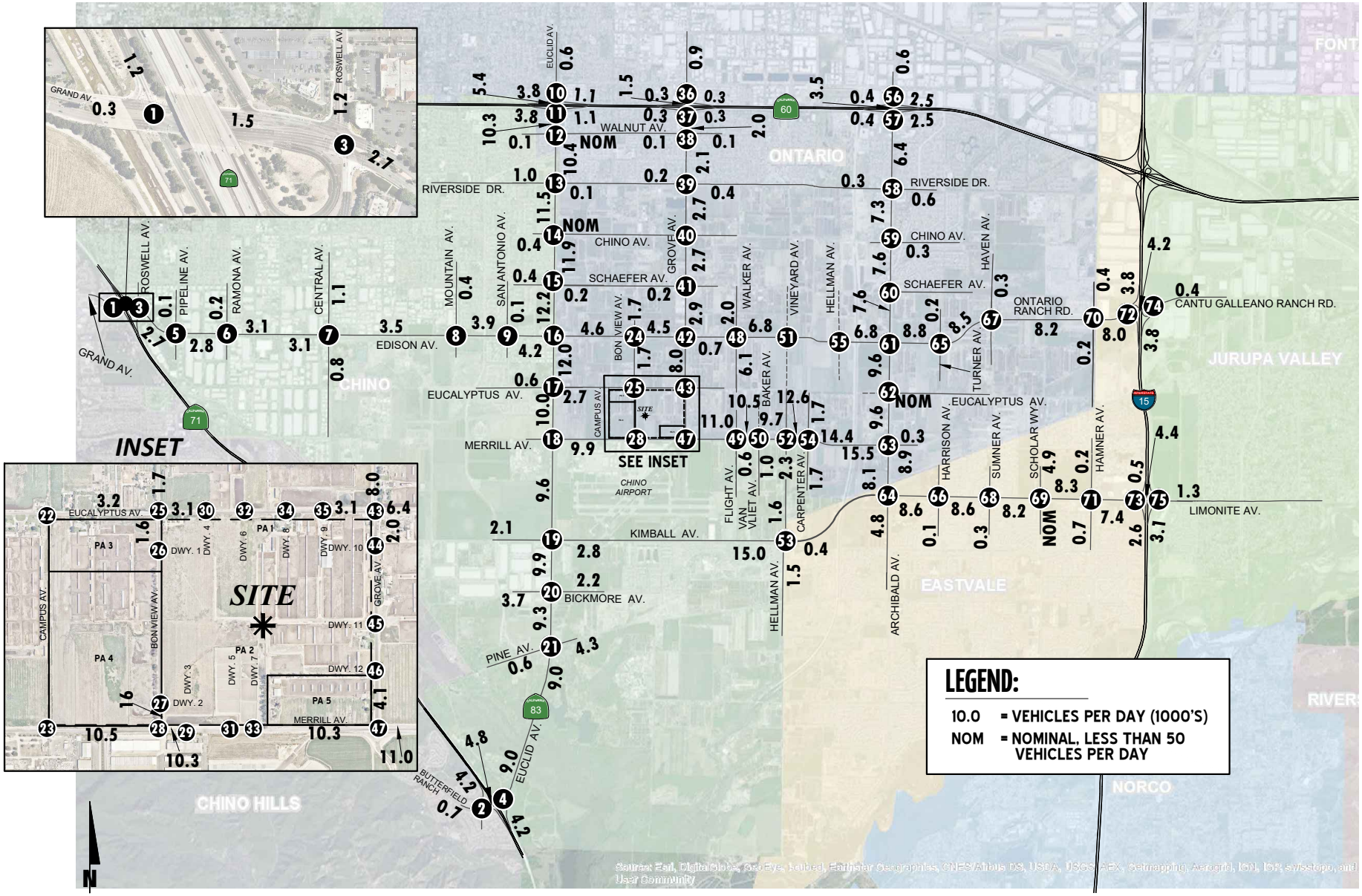

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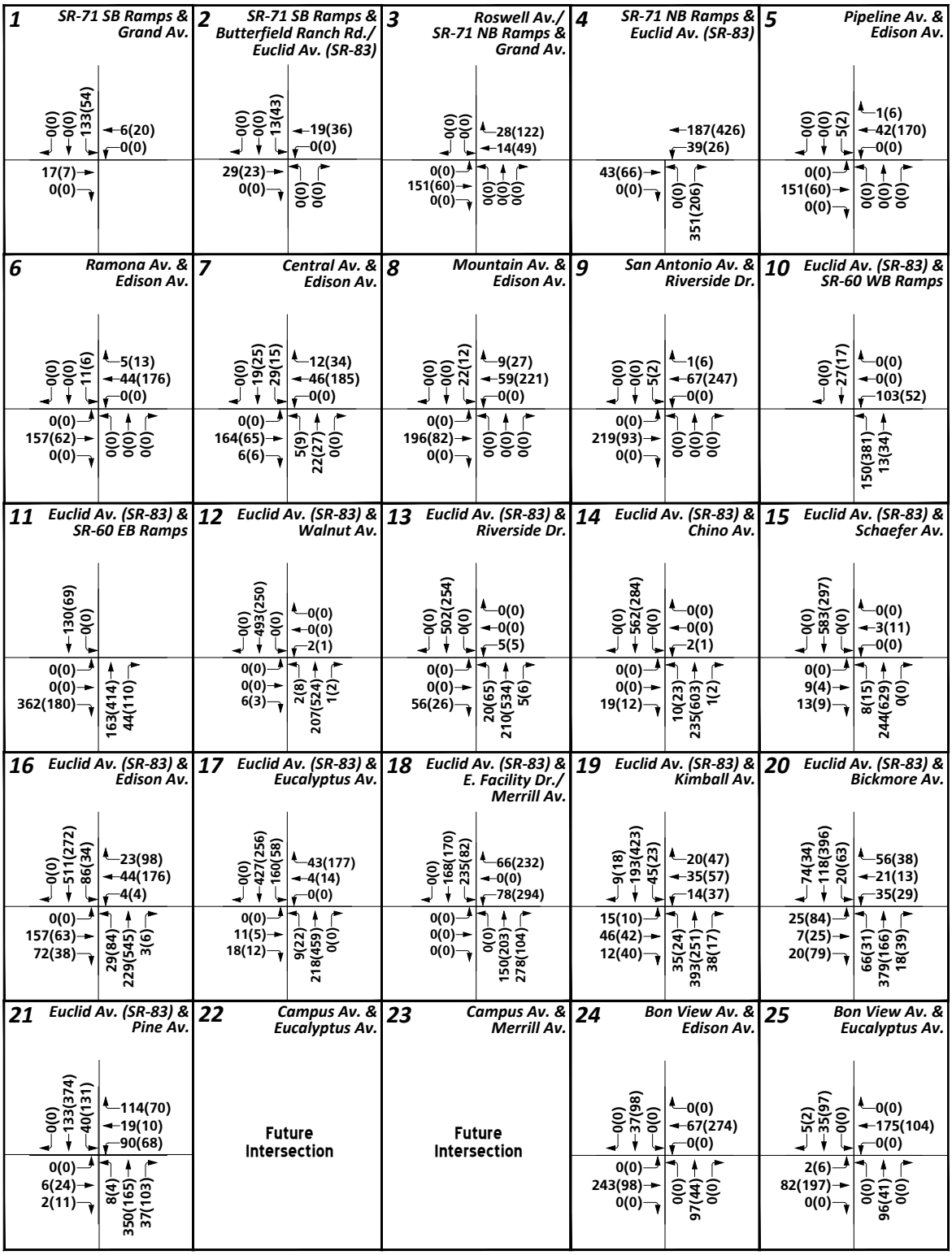
EXHIBIT 4-12 (1OF3): CUMULATIVE ONLY TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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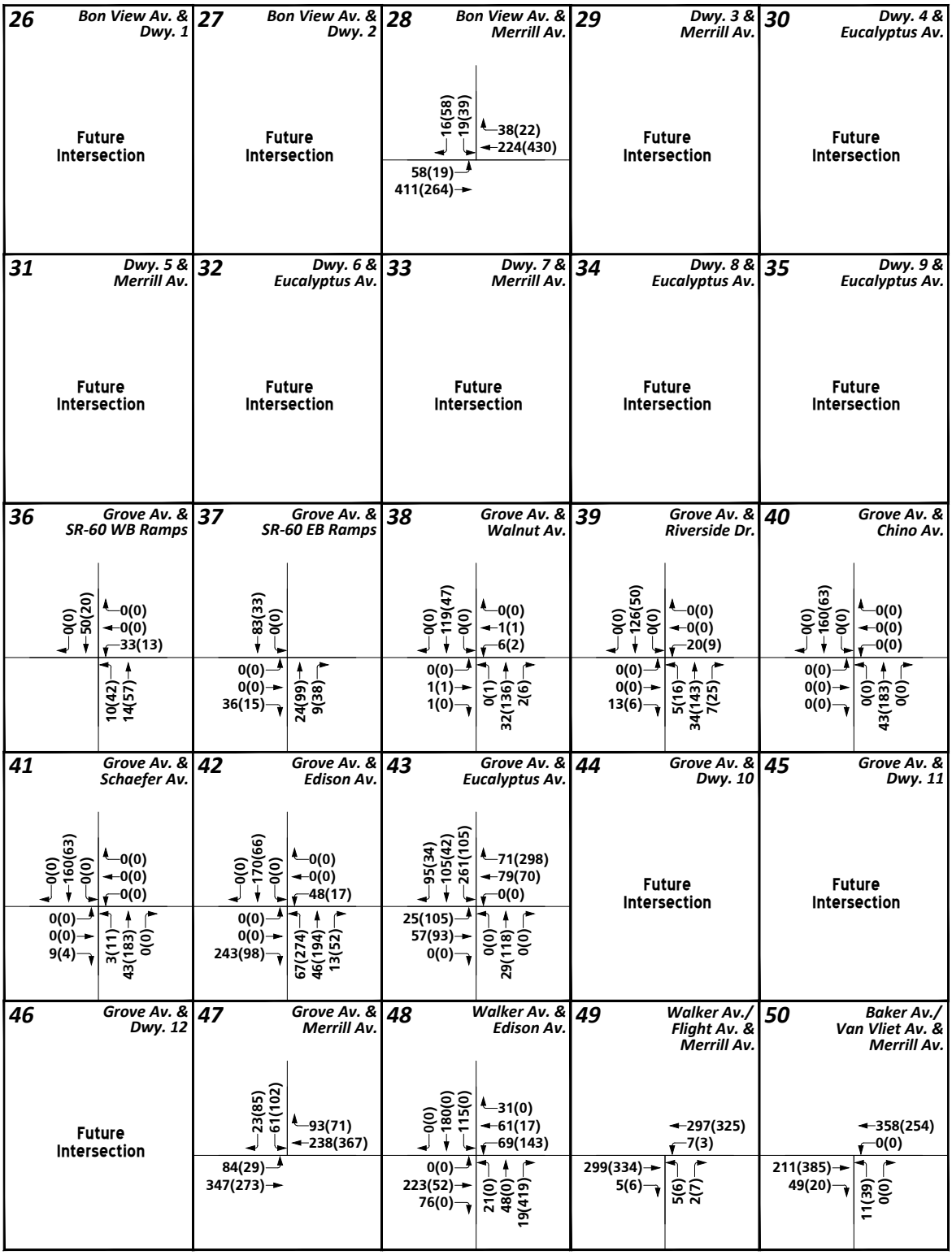
URBAN CROSSROADS

EXHIBIT 4-12 (2OF3): CUMULATIVE ONLY TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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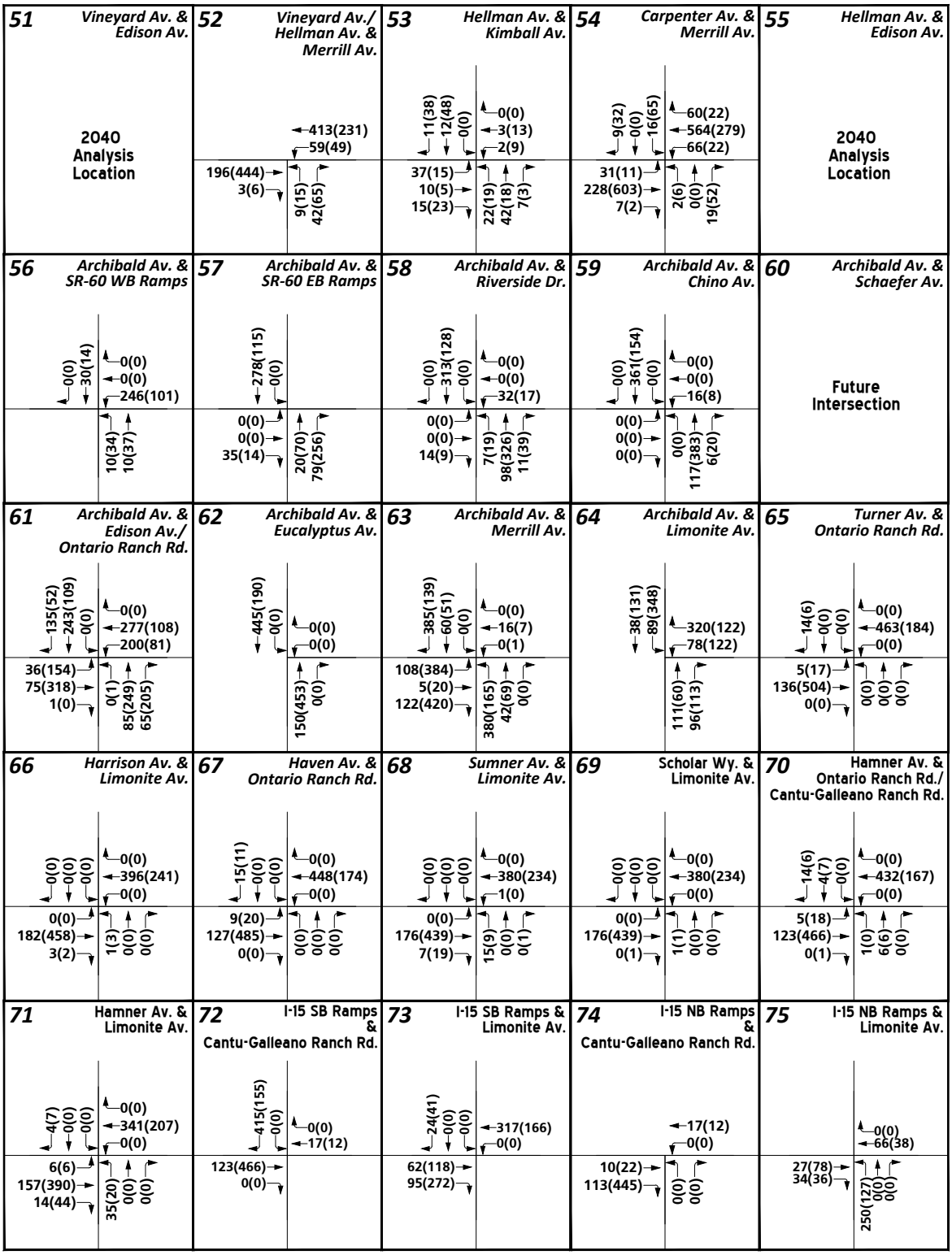
EXHIBIT 4-12 (3OF3): CUMULATIVE ONLY TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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URBAN CROSSROADS

Table 4-4

Cumulative Development Land Use Summary

#	Project/Location	Land Use[1]	Quantity	Units[2]
		City of Ontario		
O1	Parkside	SFDR	437	DU
		Multi-Family Attached (Apartments)	1,510	DU
		Shopping Center	115.000	TSF
O2	Subarea 29 & Amendment (40% complete)	SFDR	2,149	DU
		Shopping Center	87.000	TSF
O3	Colony Commerce West	High-Cube Warehouse	2213.360	TSF
		Manufacturing	737.786	TSF
O4	West Ontario Commerce Center SP	High-Cube Warehouse	1976.535	TSF
		Manufacturing	658.845	TSF
		Business Park	115.760	TSF
O5	Colony Commerce East	High-Cube Warehouse	998.680	TSF
		Manufacturing	233.129	TSF
		Warehousing	699.387	TSF
O6	Merrill Commerce Center	High-Cube Fulfillment Warehouse	7014.000	TSF
		Business Park	1441.000	TSF
O6	Ontario Ranch Commerce Center	High-Cube Cold Storage Warehouse	1159.200	TSF
		Warehousing	337.600	TSF
		Business Park	290.200	TSF
O7	Parente Home Ranch SP	SFDR	270	DU
		Condo/Townhouse	1,872	DU
		General Office	462.281	TSF
		Shopping Center	194.278	TSF
O8	Countryside	SFDR	819	DU
	Armstrong Ranch	SFDR	994	DU
O9	The Avenue	SFDR	2,020	DU
		Multi-Family Attached (Apartments)	586	DU
		Shopping Center	250.000	TSF
O10	Grand Park	SFDR	484	DU
		Multi-Family Attached (Apartments)	843	DU
O11	West Haven	SFDR	753	DU
		Shopping Center	87.000	TSF
O12	Haven Gateway	General Light Industrial	42.160	TSF
		High-Cube Warehouse	168.640	TSF
O13	Rich Haven	SFDR	2,732	DU
		Multi-Family Attached (Condo)	1,524	DU
		Shopping Center	317.400	TSF
O14	Esperanza	SFDR	914	DU
		Multi-Family Attached (Apartments)	496	DU
O15	Edenglen	SFDR	310	DU
		Multi-Family Attached (Condo)	274	DU
		Shopping Center	217.520	TSF
		Business Park	550.000	TSF
O16	PDEV10-008 - Dry Food Storage	Mini-Warehouse	17.000	TSF

Table 4-4

Cumulative Development Land Use Summary

#	Project/Location	Land Use[1]	Quantity	Units[2]
O17	Tuscana Village	SFDR	176	DU
		Shopping Center	26.000	TSF
O18	Ontario Ranch Commerce Center	High-Cube Fulfillment Warehouse	1,447.123	TSF
		Business Park	457.904	TSF
	City of Chino			
C1	Bickmore Street Residential (TM 18858) (30% complete)	SFDR	185	DU
C2	TM17574 (80% complete)	Condo/Townhouse	108	DU
C3	Pines Community	SFDR	552	DU
		Public Park	3.0	AC
		Self Storage & RV Storage	120.000	TSF
		Sports Park	41.8	AC
C4	Tract 19980 (Homecoming Phase 4)	Apartments	454	DU
	TTM No. 20166 & 20167	SFDR	148	DU
	Brio & TTM No. 21065 & 20168 (Orchards)	SFDR	239	DU
C5	Farmer Boys	Fast-food w/ Drive-Thru	3.218	TSF
		Shopping Center	2.300	TSF
C6	Euclid & Bickmore Warehouse	Warehousing	205.820	TSF
		General Light Industrial	51.030	TSF
		Business Park	110.620	TSF
C7	Kimball Business Park	Business Park	146.550	TSF
C8	Chaffey College Expansion	Junior/Community College	93.50	AC
	College Park Commercial	Shopping Center	7.50	AC
C9	Chino Parcel Delivery	Parcel Delivery Facility	765.274	TSF
C10	Altitude Business Centre	Warehousing	715.000	TSF
		Light Industrial	255.000	TSF
		Business Park	233.000	TSF
		Self-Storage	110.000	TSF
C11	Majestic Gateway	Specialty Retail	25.000	TSF
		Pharmacy/Drugstore with Drive-Thru	13.000	TSF
		Fast-Food with Drive-Thru	8.600	TSF
C12	Bouma Residential	SFDR	106	DU
		Condo/Townhouse	94	DU
C13	Fairfield Inn & Suites (PL 17-0060 & PL 17-0061)	Hotel	111	RM
C14	Watson Industrial Park (40% complete)	High-Cube Warehouse	3,889.900	TSF
C15	Chino Business Park	General Light Industrial	165.500	TSF
		Business Park	21.500	TSF
C16	Flores Site	Shopping Center	4.000	TSF
		Gas Station w/ convenience store	16	VFP
		Express Car Wash	5.000	TSF

Cumulative Development Land Use Summary

#	Project/Location	Land Use[1]	Quantity	Units[2]
C17	Brewart Residential (Stonebrook - TM 18923)	SFDR	127	DU
C18	Archibald's (PL 17-0037)	Fast-Food with Drive-Thru	3.147	TSF
C19	TM 18972 (80% complete)	SFDR	147	DU
C20	Rancho Miramonte	SFDR	691	DU
		Condo/Townhouse	132	DU
		Neighborhood Retail	21.780	TSF
		Church	400	SEAT
C21	Majestic Chino Heritage	High-Cube Fulfillment Warehouse	1982.700	TSF
		High-Cube Cold Storage Warehouse	100.000	TSF
C22	Church	Church	47.979	TSF
		Daycare	190	STU
C23	Appesetche Residential	SFDR	60	DU
		Condo/Townhouse	160	DU
C24	Tract 19951, 19952, 19953, 19935 & 18479	SFDR	151	DU
		Condo/Townhouse	150	DU
C25	Ag. Buffer, Bungalow, Lic. Product, Liberty Deluxe, Lyon 2 & 3	SFDR	474	DU
C26	The Preserve Town Center (Blocks 6 and 7)	Multifamily Housing	549	DU
		Office	16.300	TSF
		Shopping Center	36.800	TSF
		Pharmacy with Drive-Thru	12.900	TSF
		Supermarket	45.000	TSF
		Fast-Food Restaurant with Drive-Thru	6.500	TSF
		Fast Casual Restaurant	13.750	TSF
		Quality Restaurant	13.750	TSF
C27	The Preserve Civic Center	Elementary School	1,200	STU
		Library	10.00	AC
		Community Center	10.00	AC
		Park	8.00	AC
C28	Falloncrest at the Preserve	Multifamily Housing (Low-Rise)	698	DU
		Multifamily Housing (Mid-Rise)	440	DU
		Public Parks	21.60	AC
		General Office	77.597	TSF
		Commercial Retail	77.597	TSF

Table 4-4

Cumulative Development Land Use Summary

#	Project/Location	Land Use[1]	Quantity	Units[2]
		City of Eastvale		
E1	The Merge	Warehousing	336.501	TSF
		Shopping Center	4.750	TSF
		Supermarket	30.000	TSF
		Gas Station w/ convenience store	16	VFP
		Pharmacy/Drugstore with Drive-Thru	14.600	TSF
		Fast-Food with Drive-Thru	6.000	TSF
		Automated Car Wash	4.000	TSF
		Fast-Food Without Drive-Thru	7.750	TSF
		Coffee/Donut Shop With Drive-Thru	2.500	TSF
E2	TR29997	SFDR	122	DU
E3	13-0632 - Sumner Residential (Stratham Homes)	SFDR	129	DU
E4	TR35751	Condo/Townhouse	243	DU
E5	PP23219 (PM35865) (50% complete)	General Light Industrial	738.430	TSF
E6	Eastvale Shopping Center	Free-Standing Discount Superstore	192.000	TSF
		Specialty Retail	9.200	TSF
		Fast-Food Without Drive-Thru	7.200	TSF
		Coffee/Donut Shop w/ Drive Thru	2.000	TSF
		Fast-Food with Drive-Thru	3.500	TSF
		Gas Station w/ convenience store and car wash	16	VFP
E7	Van Leeuwen	SFDR	224	DU
E8	SP00358 - The Ranch at Eastvale	Shopping Center	267.200	TSF
		General Light Industrial	801.500	TSF
		Business Park	1,121.100	TSF
E9	SC Limonite, LLC	SFDR	330	TSF
E10	Leal Master Plan	Lifestyle Center (Commercial)	1,300.000	TSF
		General Commercial	225.000	TSF
		Office	920.000	TSF
		Hotel	450	RM
		High Density Residential	500-660	DU
E11	Eastvale Commerce Center	Shopping Center	650.000	TSF
E12	S. Milliken Warehouse	High-Cube Warehouse	280.000	TSF
E13	15-1508 - Industrial Warehouse	Warehousing	155.000	TSF
		City of Chino Hills		
CH1	Vila Borba Specific Plan (TR 16414)	SFDR	172	DU
CH2	Country Club Villas	Condo/Townhouse	46	DU
CH3	The Goddard School	Daycare	10.587	TSF
CH4	Heritage Professional Center	Hospital	55.000	TSF
		Medical Office Building	86.952	TSF
		Hotel	120	RM
		Shopping Center	38.848	TSF
		Restaurant	7.200	TSF

[1] SFDR = Single Family Detached Residential

[2] TSF = Thousand Square Feet; DU = Dwelling Unit; VFP = Vehicle Fueling Position ; AC = Acres; RM = Rooms

4.7 HORIZON YEAR (2040) VOLUME DEVELOPMENT

Traffic projections for Horizon Year (2040) without Project conditions were derived from the San Bernardino Transportation Analysis Model (SBTAM) using accepted procedures for model forecast refinement and smoothing for study area intersections located within the County of San Bernardino. The current version of the SBTAM (Version 2.20, March 2019) reflects the local input in the adopted 2020 SCAG RTP within the County of San Bernardino.

The traffic forecasts reflect the area-wide growth anticipated between Existing (2021) conditions and Horizon Year (2040) traffic conditions. In most instances the traffic model zone structure is not designed to provide accurate turning movements along arterial roadways unless refinement and reasonableness checking is performed. Therefore, the Horizon Year (2040) peak hour forecasts were refined using the model derived long range forecasts, base (validation) year model forecasts, along with existing peak hour traffic count data collected at each analysis location in January 2019. The SBTAM has a base (validation) year of 2012 and a horizon (future forecast) year of 2040. The difference in model volumes (2040-2012) defines the growth in traffic over the 28-year period. Similarly, the Riverside Transportation Analysis Model (RivTAM) has a base (validation) year of 2012 and a horizon (future forecast) year of 2040.

The refined future peak hour approach and departure volumes obtained from the model output data are then entered into a spreadsheet program consistent with the National Cooperative Highway Research Program (NCHRP Report 785), along with initial estimates of turning movement proportions. A linear programming algorithm is used to calculate individual turning movements which match the known directional roadway segment forecast volumes computed in the previous step. This program computes a likely set of intersection turning movements from intersection approach counts and the initial turning proportions from each approach leg.

The SBTAM uses an AM peak period-to-peak hour factor of 0.35 and a PM peak period-to-peak hour factor of 0.27. These factors represent the relationship of the highest single AM peak hour to the modeled 3-hour AM peak period (an even distribution would result in a factor of 0.33) and the highest single PM peak hour to the modeled 4-hour PM peak period (an even distribution would result in a factor of 0.25). The model data from RivTAM represents peak hour data and therefore did not require adjustments.

Typically, the model growth is prorated and is subsequently added to the existing (base validation) traffic volumes to represent Horizon Year traffic conditions. In an effort to conduct a conservative analysis, reductions to traffic forecasts from either Existing or Opening Year Cumulative traffic conditions were not assumed as part of this analysis. As such, in conjunction with the addition of cumulative projects that are not consistent with the General Plan, additional growth has also been applied on a movement-by-movement basis, where applicable, to estimate reasonable Horizon Year (2040) forecasts. Horizon Year (2040) turning volumes were compared to Opening Year Cumulative (2024) volumes in order to ensure a minimum growth as a part of the refinement process. The minimum growth includes any additional growth between Opening Year Cumulative (2024) and Horizon Year (2040) traffic conditions that is not accounted for by the traffic generated by cumulative development projects and ambient growth rates assumed between Existing (2021) and Opening Year Cumulative (2024) conditions. Adjustments have not

been made to study area intersections that may be affected by new future roadway connections (such as the extension of Pine Avenue or the extension of Kimball Avenue/Limonite Avenue), where travel patterns would likely get affected and forecasts may potentially decrease from the Opening Year Cumulative conditions. Future estimated peak hour traffic data was used for new intersections and intersections with an anticipated change in travel patterns to further refine the Horizon Year (2040) peak hour forecasts.

The future Horizon Year (2040) Without Project peak hour turning movements were then reviewed by Urban Crossroads, Inc. for reasonableness, and in some cases, were adjusted to achieve flow conservation, reasonable growth, and reasonable diversion between parallel routes. Flow conservation checks ensure that traffic flow between two closely spaced intersections, such as two adjacent driveway locations, is verified in order to make certain that vehicles leaving one intersection are entering the adjacent intersection and that there is no unexplained loss of vehicles. The result of this traffic forecasting procedure is a series of traffic volumes which are suitable for traffic operations analysis.

The SBTAM and RivTAM do not include a truck component or have data that is unusually low. As such, in an effort to conduct a conservative analysis, the presence of trucks has been accounted for based on the manual volume adjustments made to demonstrate growth above Opening Year Cumulative (2024) traffic forecasts, which are presented and evaluated in PCE (see Section 3.7 *Existing Traffic Counts* for discussion on PCE). As such, the Horizon Year (2040) forecasts are also assumed to be in PCE for the purposes of this analysis. Post-processing worksheets for Horizon Year (2040) without Project traffic conditions are provided in Appendix 4.1.

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5 E+P TRAFFIC CONDITIONS

This section discusses the traffic forecasts for Existing plus Project (E+P) conditions and the resulting intersection operations, off-ramp queuing, and traffic signal warrant analyses. E+P traffic conditions has been evaluated for each Phase.

5.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for E+P conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for E+P conditions only (e.g., intersection and roadway improvements at the Project's frontage and driveways).

5.2 EXISTING PLUS PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus Project traffic. The ADT and weekday AM and PM peak hour intersection turning movement volumes which can be expected for E+P traffic conditions are shown on the following exhibits:

- Exhibits 5-1 and 5-2: E+P (Phase 1) Conditions
- Exhibits 5-3 and 5-4: E+P (Project Buildout) Conditions

5.3 INTERSECTION OPERATIONS ANALYSIS

E+P peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2 *Methodologies* of this TIA.

5.3.1 E+P (PHASE 1)

The intersection analysis results are summarized on Table 5-1 for E+P (Phase 1) traffic conditions, which indicate that the following additional study area intersections are anticipated to operate at an unacceptable LOS, in addition to those identified for Existing traffic conditions:

- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E PM peak hour only
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS E AM and PM peak hours

Consistent with Table 5-1, a summary of the peak hour intersection LOS is shown on Exhibit 5-5 for E+P (Phase 1) traffic conditions. The intersection operations analysis worksheets for E+P (Phase 1) traffic conditions are included in Appendix 5.1 of this TA.

EXHIBIT 5-1: E+P (PHASE 1) AVERAGE DAILY TRAFFIC (ADT)

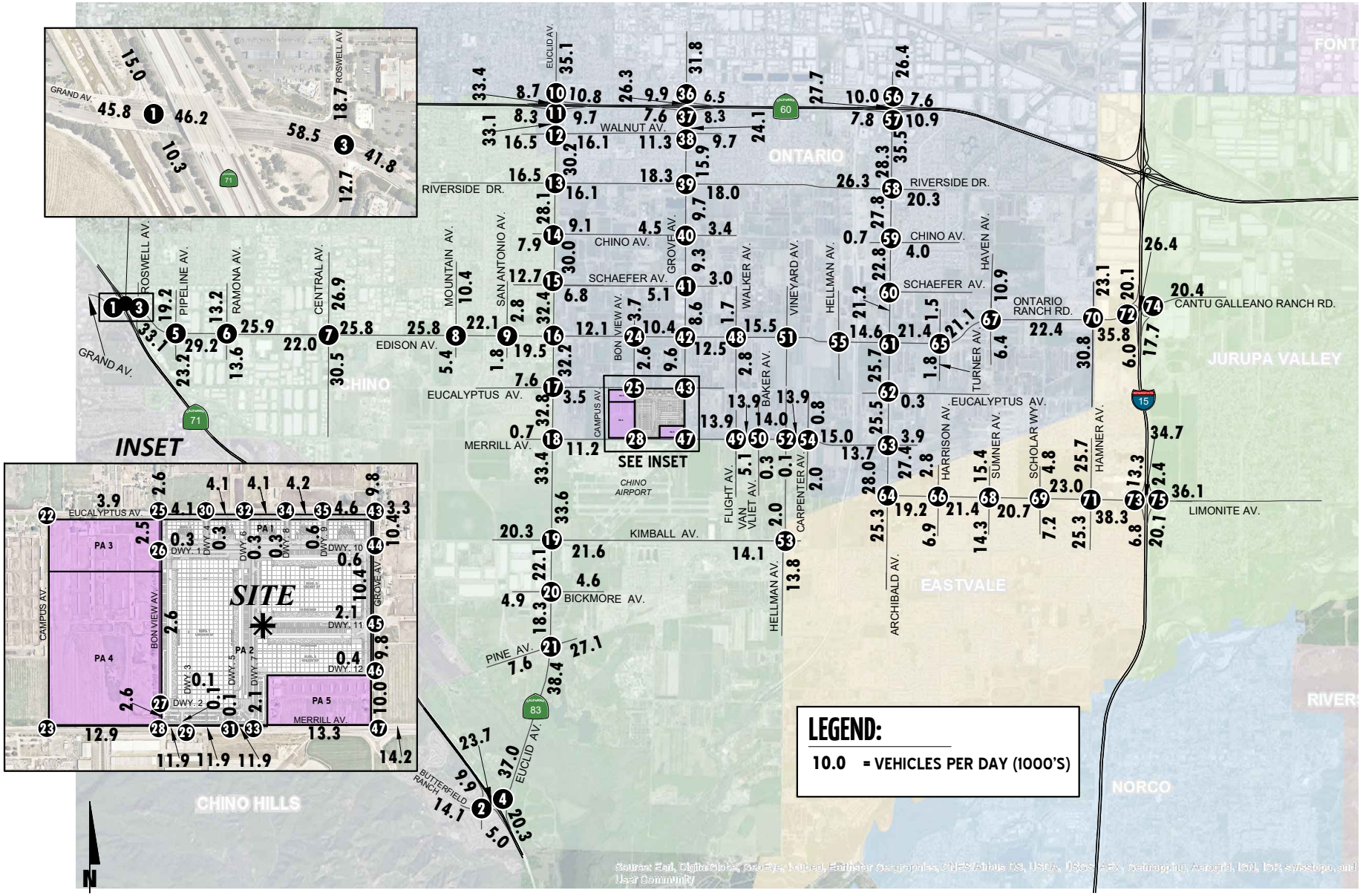
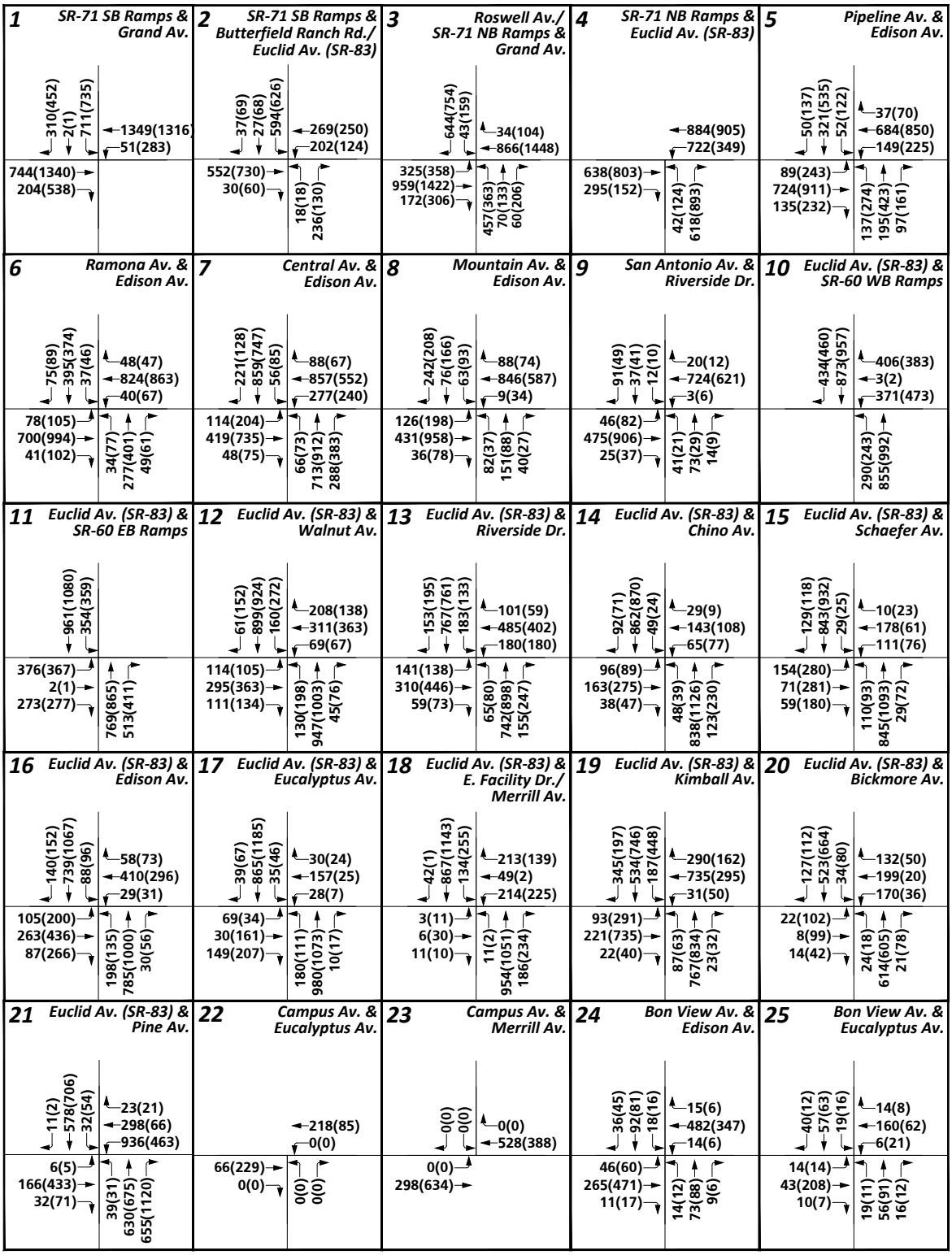


EXHIBIT 5-2 (1OF3): E+P (PHASE 1) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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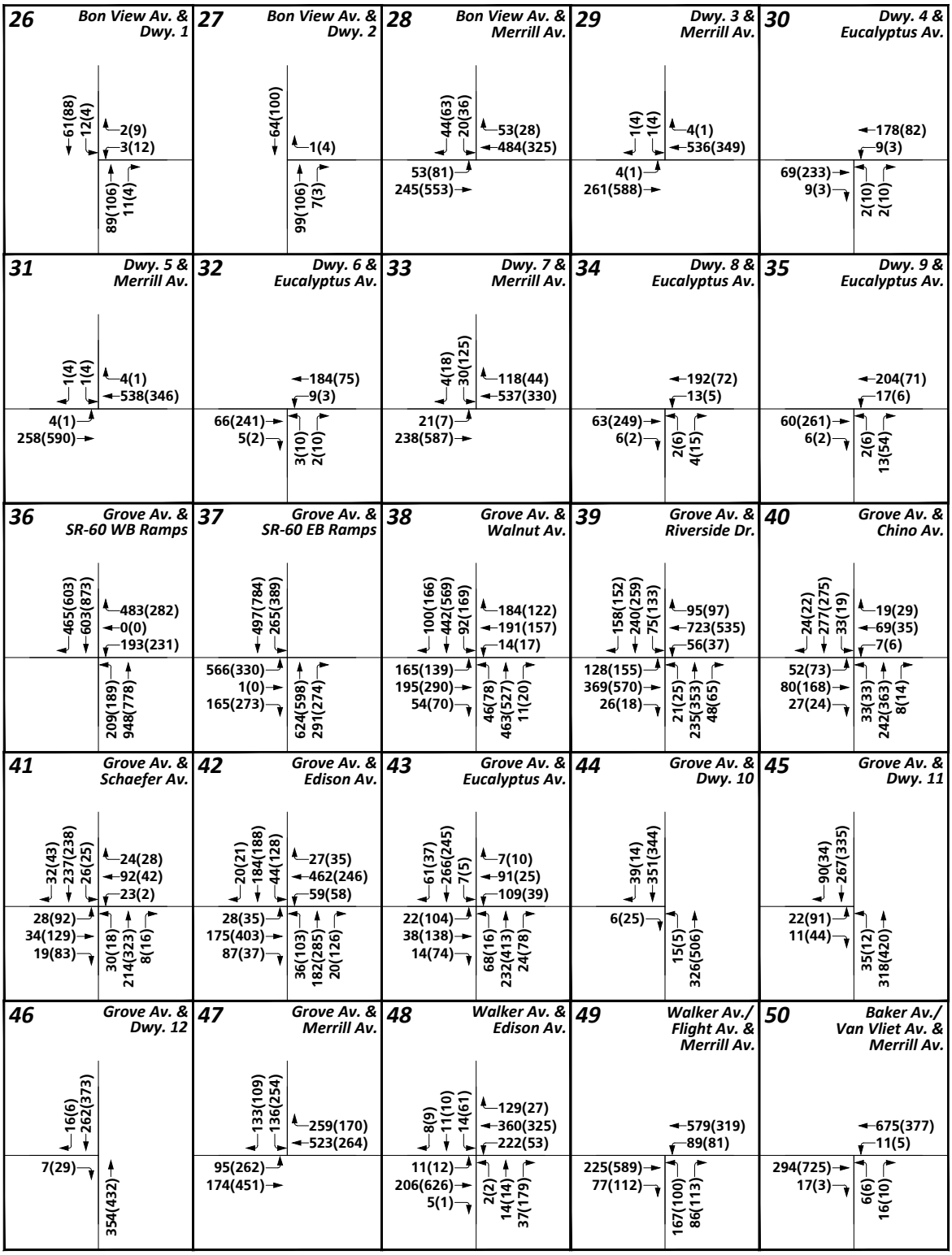
EXHIBIT 5-2 (2OF3): E+P (PHASE 1) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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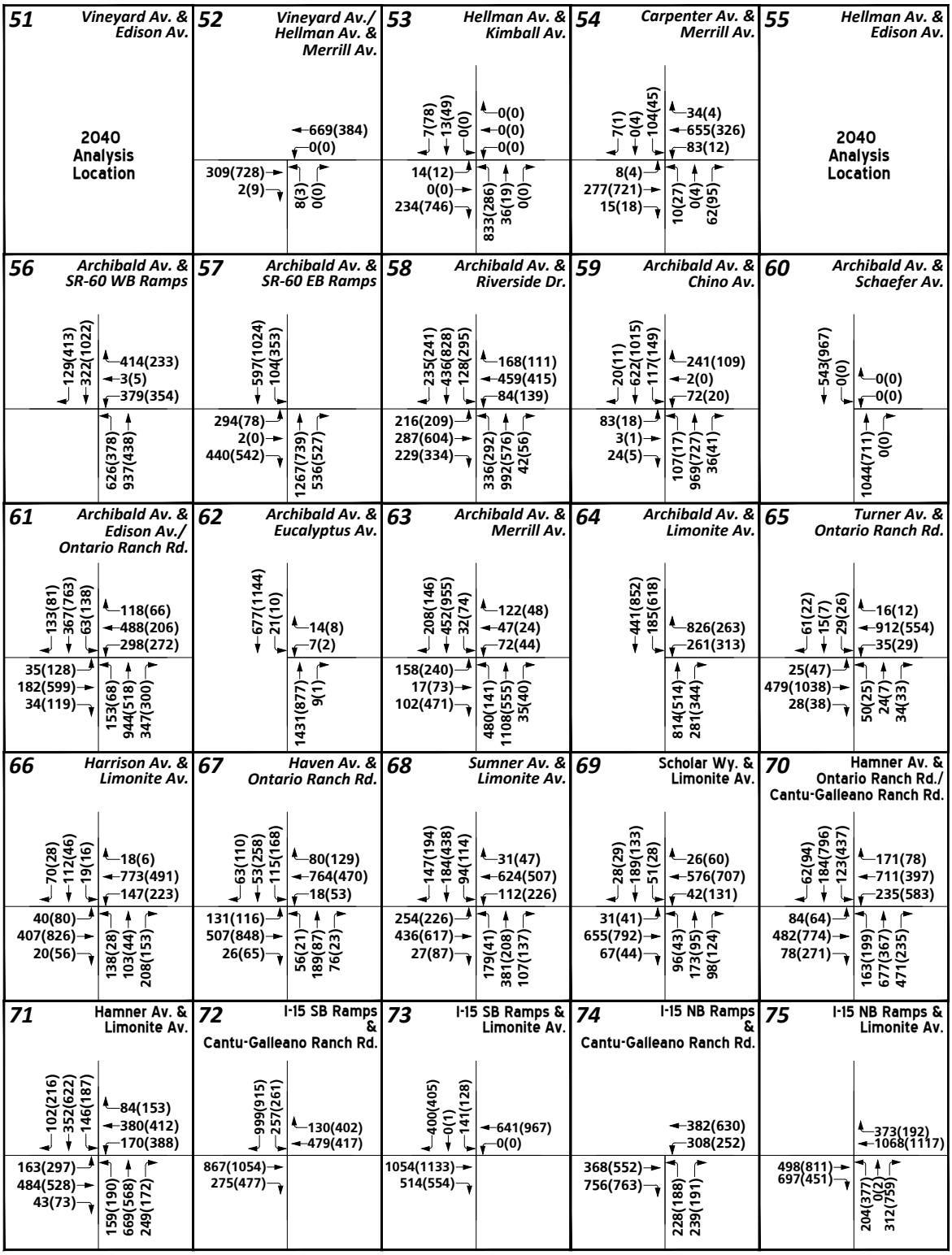
EXHIBIT 5-2 (3OF3): E+P (PHASE 1) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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URBAN CROSSROADS

EXHIBIT 5-3: E+P (PROJECT BUILDOUT) AVERAGE DAILY TRAFFIC (ADT)

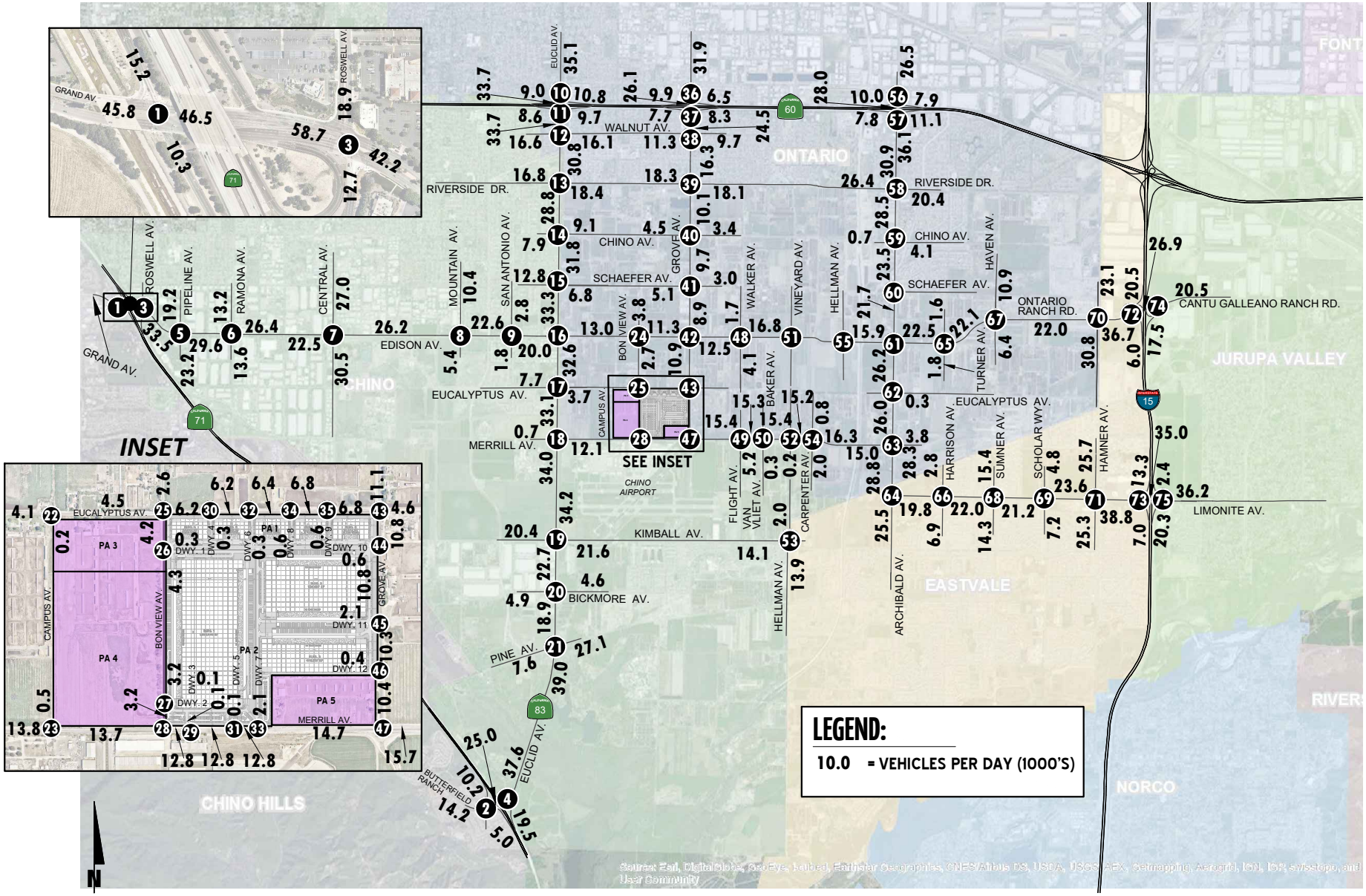
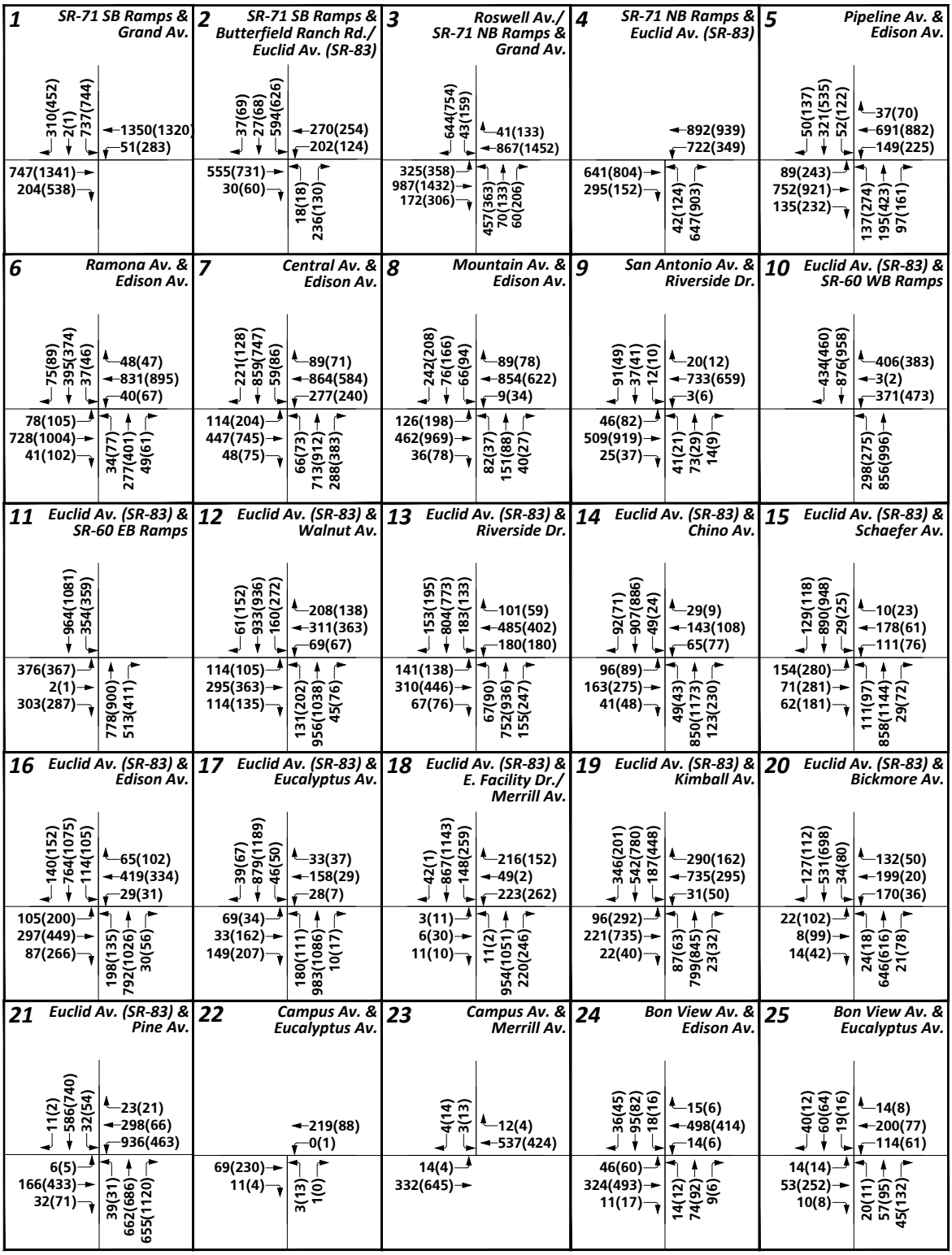


EXHIBIT 5-4 (1OF3): E+P (PROJECT BUILDOUT) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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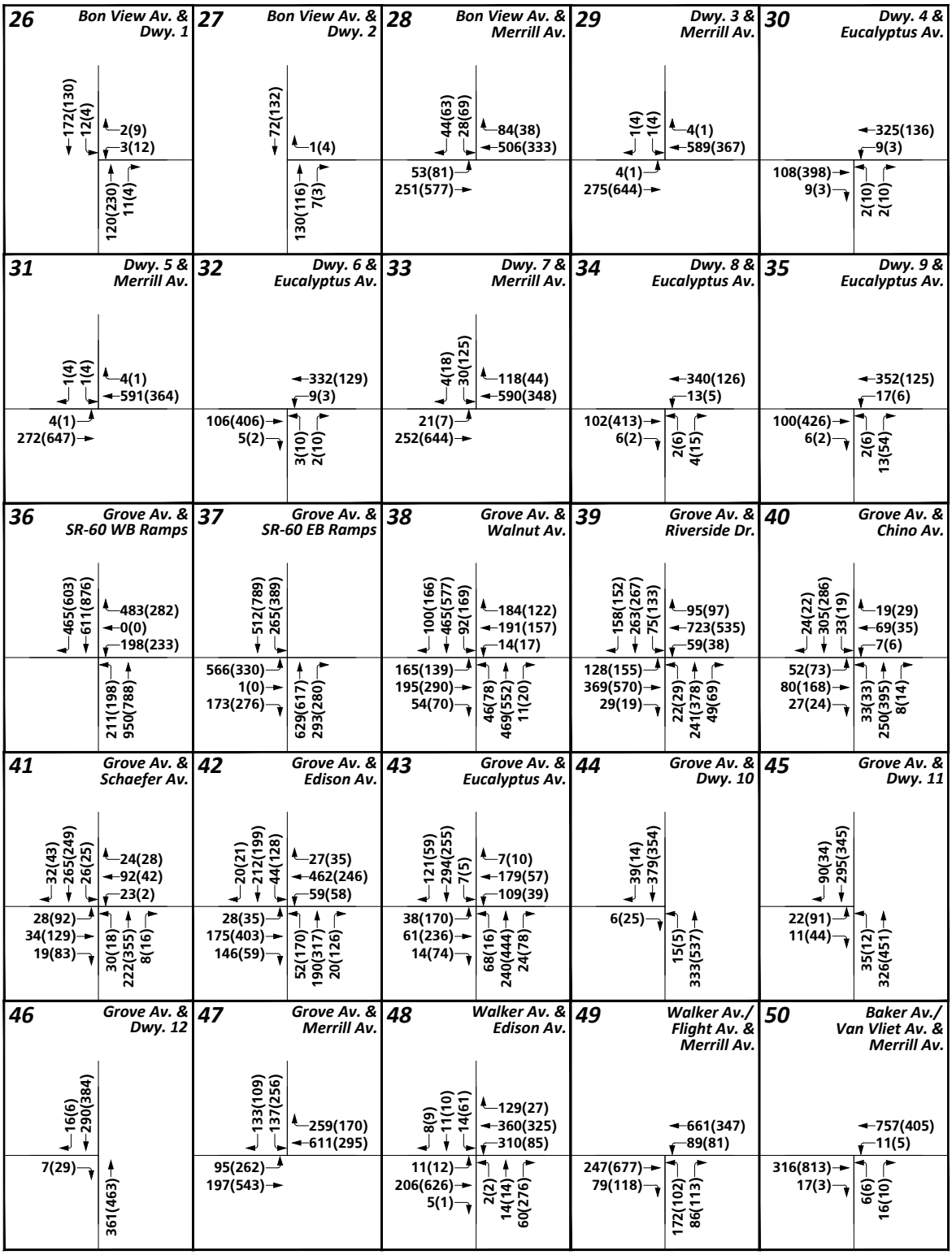
EXHIBIT 5-4 (2OF3): E+P (PROJECT BUILDOUT) TRAFFIC VOLUMES

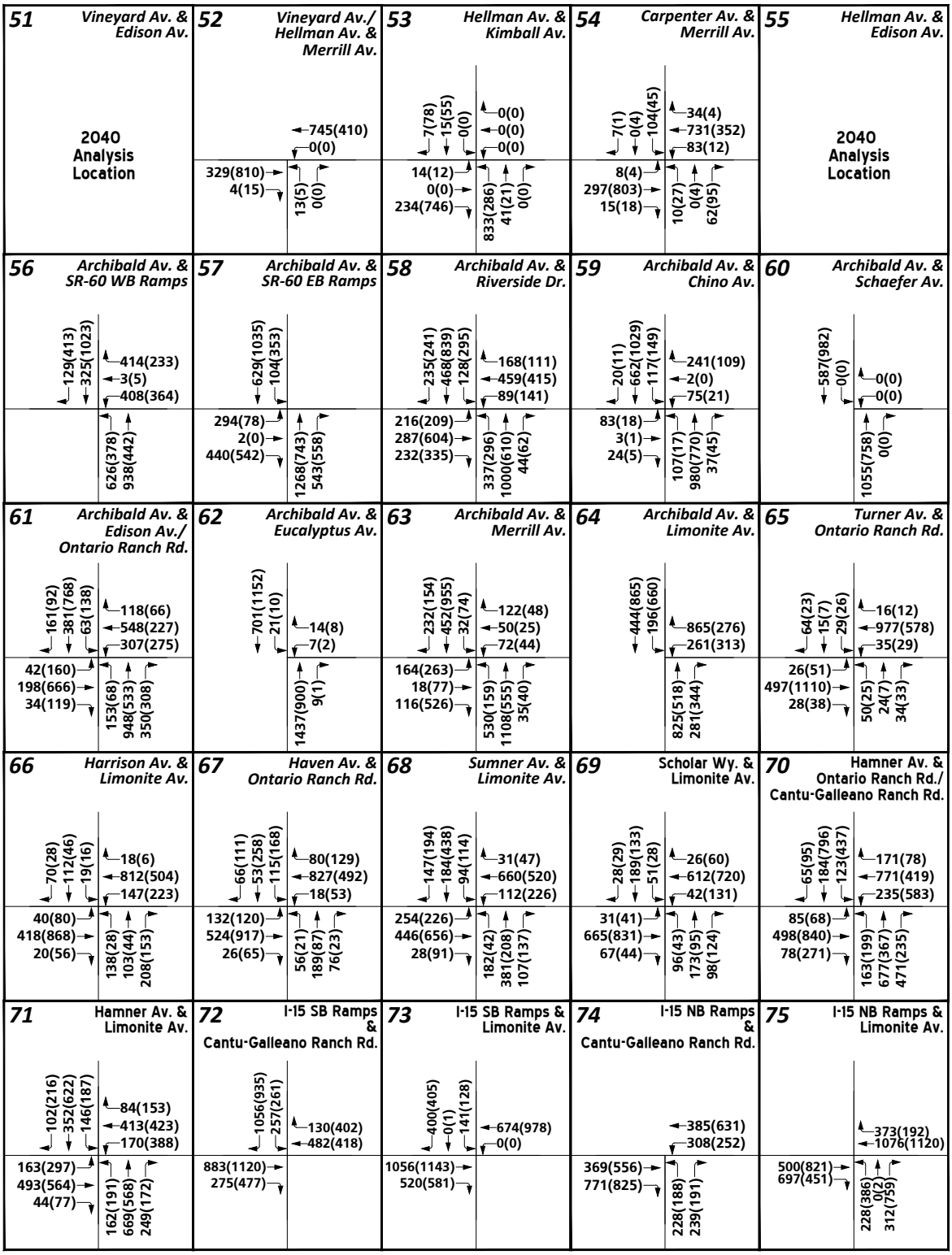


LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

N

EXHIBIT 5-4 (3OF3): E+P (PROJECT BUILDOUT) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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EXHIBIT 5-5: E+P (PHASE 1) SUMMARY OF LOS

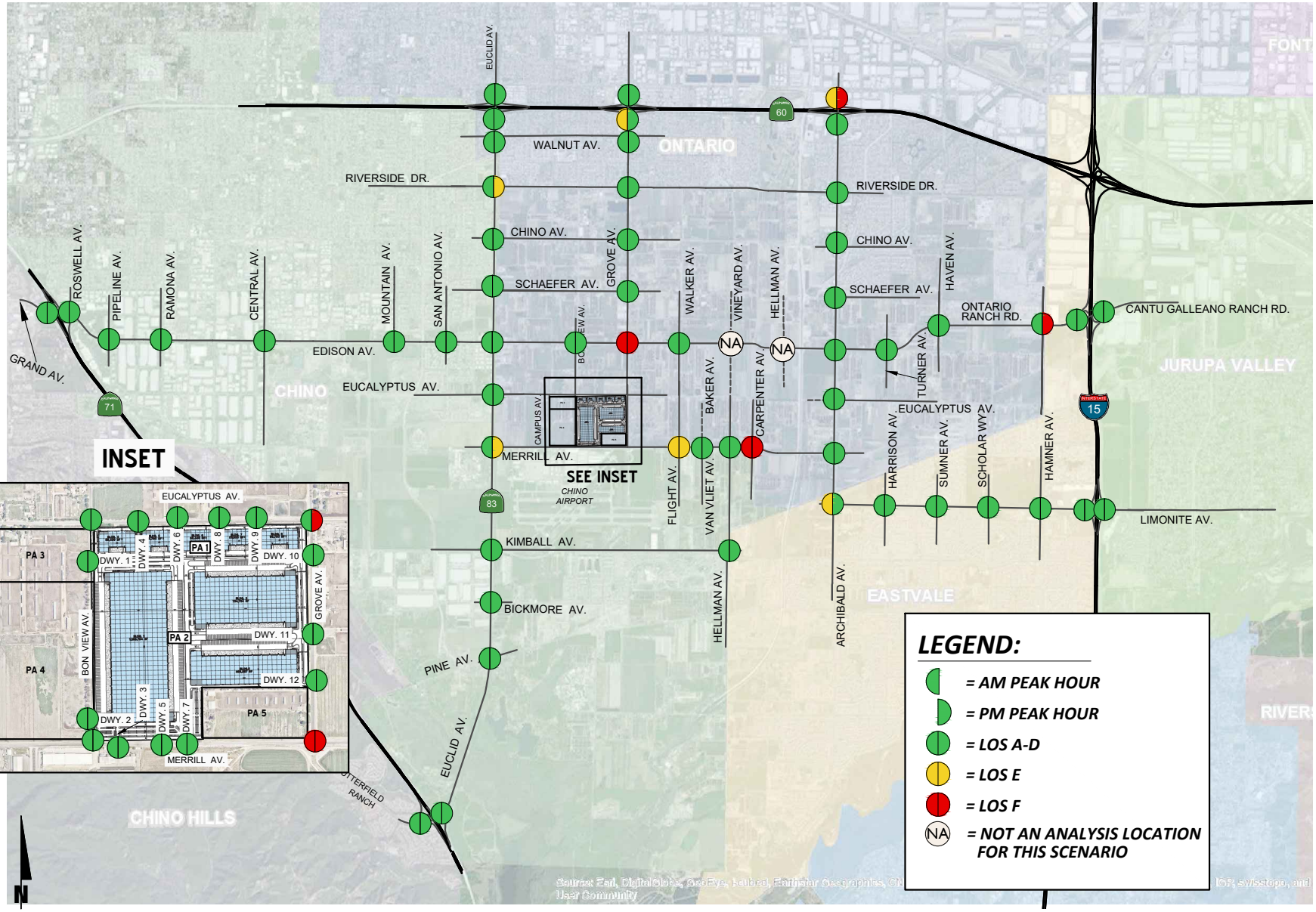

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Table 5-1

Intersection Analysis for E+P (Phase 1) Conditions

#	Intersection	Traffic Control[2]	Existing (2021) Delay[1] (secs.) AM	PM	Level of Service AM	PM	E+P (Phase 1) Delay[1] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard[3]
1	SR-71 SB Ramps & Grand Av.	TS	26.9	38.1	C	D	26.9	38.1	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	38.5	34.2	D	C	38.6	34.2	D	C	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	25.5	24.6	C	C	26.5	24.6	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	30.4	47.5	C	D	33.3	49.9	C	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	20.7	32.1	C	C	20.7	32.2	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	27.2	31.5	C	C	27.2	31.8	C	C	Chino / LOS D
7	Central Av. & Edison Av.	TS	39.8	43.5	D	D	40.0	44.0	C	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	24.0	21.7	C	C	24.1	21.7	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.2	9.6	B	A	11.2	9.6	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	22.4	19.1	C	B	22.9	21.1	C	C	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	27.9	22.8	C	C	30.9	23.5	C	C	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	31.8	34.9	C	C	32.0	35.2	C	D	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	51.9	**61.6**	D	**E**	54.1	**70.6**	D	**E**	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	22.8	24.6	C	C	23.1	25.4	C	C	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	26.0	29.0	C	C	28.1	31.0	C	C	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	41.4	43.9	D	D	46.5	52.9	D	D	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	14.8	14.2	B	B	15.7	14.6	B	B	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	29.7	35.9	C	C	39.3	**59.8**	D	**E**	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	28.5	46.3	C	D	29.6	47.3	C	D	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	16.9	14.3	B	B	17.2	14.4	B	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	33.8	49.9	C	D	35.7	52.1	D	D	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.		Future Intersection				Future Intersection				Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.		Future Intersection				Future Intersection				Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	28.2	26.4	D	D	38.9	40.2	E	E	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	8.8	9.1	A	A	9.0	9.5	A	A	Ontario / LOS E
26	Bon View Av. & Driveway 1	**CSS**	Future Intersection				9.4	9.7	A	A	Ontario / LOS E
27	Bon View Av. & Driveway 2	**CSS**	Future Intersection				8.9	8.9	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	17.1	24.2	C	C	19.9	26.9	C	D	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	**CSS**	Future Intersection				16.0	17.1	C	C	Chino, Ontario / LOS D
30	Driveway 4 & Eucalyptus Av.	**CSS**	Future Intersection				9.8	10.2	A	B	Ontario / LOS E
31	Driveway 5 & Merrill Av.	**CSS**	Future Intersection				16.0	17.1	C	C	Chino, Ontario / LOS D
32	Driveway 6 & Eucalyptus Av.	**CSS**	Future Intersection				9.8	10.2	A	B	Ontario / LOS E
33	Driveway 7 & Merrill Av.	**TS**	Future Intersection				32.7	10.9	C	B	Chino, Ontario / LOS D
34	Driveway 8 & Eucalyptus Av.	**CSS**	Future Intersection				9.4	10.0	A	B	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	**CSS**	Future Intersection				9.0	9.9	A	A	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	28.4	20.8	C	C	28.7	21.2	C	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	**61.1**	35.9	**E**	D	**61.4**	36.4	**E**	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	30.0	27.8	C	C	30.1	27.9	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	45.4	51.6	D	D	45.8	53.5	D	D	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	18.6	21.9	C	C	21.9	26.8	C	D	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	13.5	19.6	B	C	14.7	23.0	B	C	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	**88.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	11.4	**>100.0**	B	**F**	20.6	**>100.0**	C	**F**	Ontario / LOS E
44	Grove Av. & Driveway 10	**CSS**	Future Intersection				9.8	9.7	A	A	Ontario / LOS E
45	Grove Av. & Driveway 11	**CSS**	Future Intersection				15.8	23.2	C	C	Ontario / LOS E
46	Grove Av. & Driveway 12	**CSS**	Future Intersection				10.3	11.7	B	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	AWS	**54.8**	**48.5**	**F**	**E**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	19.7	46.7	C	E	41.8	77.4	E	E	Ontario / LOS E

Table 5-1

Intersection Analysis for E+P (Phase 1) Conditions

#	Intersection	Traffic Control[2]	Existing (2021) Delay[1] (secs.) AM	Existing (2021) Delay[1] (secs.) PM	Existing (2021) Level of Service AM	Existing (2021) Level of Service PM	E+P (Phase 1) Delay[1] (secs.) AM	E+P (Phase 1) Delay[1] (secs.) PM	E+P (Phase 1) Level of Service AM	E+P (Phase 1) Level of Service PM	Jurisdiction(s) / LOS Standard[3]
49	Walker Av./Flight Av. & Merrill Av.	CSS	27.7	26.0	D	C	**44.9**	**43.4**	**E**	**E**	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	11.6	14.1	B	B	12.5	16.3	B	C	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	0.0	0.0	A	A	17.4	19.5	C	C	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	16.7	15.0	B	B	17.0	15.0	B	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	**81.8**	**86.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	51.2	**118.7**	D	**F**	**58.2**	**119.1**	**E**	**F**	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	25.8	42.6	C	D	25.9	42.8	C	D	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	46.8	51.7	D	D	48.6	53.6	D	D	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	20.3	15.8	C	B	20.9	16.4	C	B	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.5	1.1	A	A	0.6	1.5	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	33.9	28.4	C	C	48.9	31.2	D	C	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	6.1	3.3	A	A	6.1	3.4	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	32.1	31.1	C	C	45.4	42.7	D	D	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	**64.1**	23.1	**E**	C	**77.8**	28.5	**E**	C	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	16.8	14.9	B	B	17.4	15.7	B	B	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	19.2	17.6	B	B	19.4	17.6	B	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	24.1	23.0	C	C	24.2	23.1	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	19.1	19.2	B	B	19.4	19.5	B	B	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	16.6	15.2	B	B	16.7	15.3	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	47.1	**123.6**	D	**F**	51.9	**128.9**	D	**F**	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	24.9	28.0	C	C	25.2	28.7	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	15.2	13.3	B	B	16.0	13.5	B	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	7.7	6.1	A	A	7.7	6.1	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	20.3	12.8	C	B	20.4	13.1	C	B	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	6.5	12.0	A	B	7.1	12.0	A	B	Jurupa Valley, Caltrans / LOS D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[2] CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement

[3] Minimum acceptable LOS for each applicable jurisdiction.

5.3.2 E+P (PROJECT BUILDOUT)

The intersection analysis results are summarized on Table 5-2 for E+P (Project Buildout) traffic conditions, which indicate that the following additional study area intersections are anticipated to operate at an unacceptable LOS, in addition to those identified for Existing traffic conditions:

- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS E PM peak hour only
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E PM peak hour only
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Merrill Avenue (#28) – LOS F PM peak hour only
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours

Consistent with Table 5-2, a summary of the peak hour intersection LOS is shown on Exhibit 5-6 for E+P (Project Buildout) traffic conditions. The intersection operations analysis worksheets for E+P (Project Buildout) traffic conditions are included in Appendix 5.2 of this TA.

5.4 TRAFFIC SIGNAL WARRANTS ANALYSIS

The following study area intersections are anticipated to meet peak hour volume-based traffic signal warrants for E+P (Phase 1) traffic conditions (see Appendix 5.3), in addition to those previously warranted under Existing traffic conditions:

- Bon View Avenue & Merrill Avenue (#28)
- Driveway 7 & Merrill Avenue (#33)
- Grove Avenue & Driveway 11 (#45)
- Walker Avenue & Edison Avenue (#48)

The following study area intersection is anticipated to meet peak hour volume-based traffic signal warrant for E+P (Project Buildout) traffic conditions (see Appendix 5.4), in addition to those previously warranted under Existing and E+P (Phase 1) traffic conditions:

- Bon View Avenue & Eucalyptus Avenue (#25)

5.5 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for E+P are presented on Table 5-3 and 5-4 for Phase 1 and Project Buildout, respectively. As shown on Table 5-3 and 5-4, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows with the addition of Project (Phase 1 or Project Buildout) traffic. Worksheets for E+P (Phase 1 and Project Buildout) traffic conditions off-ramp queuing analysis are provided in Appendix 5.5 and Appendix 5.6, respectively.

Table 5-2

Intersection Analysis for E+P (Project Buildout) Conditions

#	Intersection	Traffic Control[2]	Existing (2021) Delay[1] (secs.) AM	PM	Level of Service AM	PM	E+P (Project Buildout) Delay[1] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard[3]
1	SR-71 SB Ramps & Grand Av.	TS	26.9	38.1	C	D	26.9	38.1	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	38.5	34.2	D	C	38.7	34.2	D	C	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	25.5	24.6	C	C	27.9	24.6	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	30.4	47.5	C	D	34.9	49.4	C	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	20.7	32.1	C	C	20.7	32.3	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	27.2	31.5	C	C	27.2	32.1	C	C	Chino / LOS D
7	Central Av. & Edison Av.	TS	39.8	43.5	D	D	40.2	44.4	C	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	24.0	21.7	C	C	24.1	21.8	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.2	9.6	B	A	11.2	9.6	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	22.4	19.1	C	B	23.3	22.8	C	C	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	27.9	22.8	C	C	33.3	23.9	C	C	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	31.8	34.9	C	C	32.1	35.5	C	D	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	51.9	**61.6**	D	**E**	**56.1**	**78.5**	**E**	**E**	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	22.8	24.6	C	C	23.5	26.2	C	C	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	26.0	29.0	C	C	29.7	33.1	C	C	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	41.4	43.9	D	D	51.5	**64.7**	D	**E**	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	14.8	14.2	B	B	16.2	14.9	B	B	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	29.7	35.9	C	C	45.6	**67.2**	D	**E**	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	28.5	46.3	C	D	30.5	48.1	C	D	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	16.9	14.3	B	B	17.5	14.5	B	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	33.8	49.9	C	D	37.4	54.3	D	D	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.	**CSS**	Future Intersection				10.8	11.0	B	B	Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.	**CSS**	Future Intersection				16.8	19.6	C	C	Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	28.2	26.4	D	D	**50.6**	**50.2**	**F**	**F**	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	8.8	9.1	A	A	11.8	10.8	B	B	Ontario / LOS E
26	Bon View Av. & Driveway 1	**CSS**	Future Intersection				10.2	10.9	B	B	Ontario / LOS E
27	Bon View Av. & Driveway 2	**CSS**	Future Intersection				9.2	9.0	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	17.1	24.2	C	C	25.3	**99.1**	D	**F**	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	**CSS**	Future Intersection				17.5	19.0	C	C	Chino, Ontario / LOS D
30	Driveway 4 & Eucalyptus Av.	**CSS**	Future Intersection				10.8	11.8	B	B	Ontario / LOS E
31	Driveway 5 & Merrill Av.	**CSS**	Future Intersection				17.5	19.0	C	C	Chino, Ontario / LOS D
32	Driveway 6 & Eucalyptus Av.	**CSS**	Future Intersection				10.8	11.8	B	B	Ontario / LOS E
33	Driveway 7 & Merrill Av.	**TS**	Future Intersection				41.3	11.1	D	B	Chino, Ontario / LOS D
34	Driveway 8 & Eucalyptus Av.	**CSS**	Future Intersection				10.1	11.3	B	B	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	**CSS**	Future Intersection				9.3	10.9	A	B	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	28.4	20.8	C	C	28.8	21.4	C	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	**61.1**	35.9	**E**	D	**61.5**	36.9	**E**	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	30.0	27.8	C	C	30.2	27.9	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	45.4	51.6	D	D	46.1	54.7	D	D	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	18.6	21.9	C	C	25.3	32.6	D	D	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	13.5	19.6	B	C	16.0	26.9	C	D	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	**88.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	11.4	**>100.0**	B	**F**	**54.7**	**>100.0**	**F**	**F**	Ontario / LOS E
44	Grove Av. & Driveway 10	**CSS**	Future Intersection				9.9	9.7	A	A	Ontario / LOS E
45	Grove Av. & Driveway 11	**CSS**	Future Intersection				16.4	25.1	C	D	Ontario / LOS E
46	Grove Av. & Driveway 12	**CSS**	Future Intersection				9.5	10.1	A	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	AWS	**54.8**	**48.5**	**F**	**E**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	19.7	46.7	C	E	**74.3**	**>100.0**	**F**	**F**	Ontario / LOS E

Table 5-2

Intersection Analysis for E+P (Project Buildout) Conditions

#	Intersection	Traffic Control[2]	Existing (2021) Delay[1] (secs.) AM	Existing (2021) Delay[1] (secs.) PM	Existing (2021) Level of Service AM	Existing (2021) Level of Service PM	E+P (Project Buildout) Delay[1] (secs.) AM	E+P (Project Buildout) Delay[1] (secs.) PM	E+P (Project Buildout) Level of Service AM	E+P (Project Buildout) Level of Service PM	Jurisdiction(s) / LOS Standard[3]
49	Walker Av./Flight Av. & Merrill Av.	CSS	27.7	26.0	D	C	**69.9**	**69.9**	**F**	**F**	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	11.6	14.1	B	B	13.2	18.1	B	C	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	0.0	0.0	A	A	19.5	22.1	C	C	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	16.7	15.0	B	B	17.2	15.0	B	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	**81.8**	**86.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	51.2	**118.7**	D	**F**	**65.7**	**119.8**	**E**	**F**	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	25.8	42.6	C	D	25.9	42.9	C	D	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	46.8	51.7	D	D	49.9	54.2	D	D	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	20.3	15.8	C	B	21.7	17.2	C	B	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.5	1.1	A	A	0.6	1.5	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	33.9	28.4	C	C	63.4	34.1	E	C	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	6.1	3.3	A	A	6.2	3.5	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	32.1	31.1	C	C	61.7	61.0	E	E	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	**64.1**	23.1	**E**	C	**88.2**	34.9	**F**	C	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	16.8	14.9	B	B	18.0	16.4	B	B	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	19.2	17.6	B	B	19.5	17.7	B	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	24.1	23.0	C	C	24.2	23.2	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	19.1	19.2	B	B	19.7	19.8	B	B	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	16.6	15.2	B	B	16.8	15.4	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	47.1	**123.6**	D	**F**	**55.3**	**132.6**	**E**	**F**	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	24.9	28.0	C	C	25.7	29.2	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	15.2	13.3	B	B	16.7	13.7	B	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	7.7	6.1	A	A	7.8	6.4	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	20.3	12.8	C	B	20.4	13.4	C	B	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	6.5	12.0	A	B	7.9	12.1	A	B	Jurupa Valley, Caltrans / LOS D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[2] CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement

[3] Minimum acceptable LOS for each applicable jurisdiction.

[4] Impact is significant if the pre-project condition is at or better than LOS D (or acceptable LOS) and the project-generated traffic causes deterioration below acceptable levels, or if the Project contributes 50 or more peak hour trips to an existing deficiency. However, if the pre-project condition is already below LOS D (or acceptable LOS), the Project will be responsible for mitigating its impact to a LOS equal to or better than it was without the Project.

[5] Traffic signal is currently flashing red. As such, an all-way stop controlled intersection was assumed for Existing and E+P traffic conditions only.

[6] I-15 Freeway and Limonite Avenue Interchange is currently under construction and is anticipated to be completed in 2020. Pre-construction volumes and lane geometrics have been utilized for the operations analysis.

Table 5-3

Peak Hour Freeway Off-Ramp Queuing Summary for E+P (Phase 1) Conditions

Intersection	Movement	Available Stacking Distance (Feet)	Existing (2021)				E+P (Phase 1)			
			95th Percentile Queue (Feet)[3]		Acceptable?[1]		95th Percentile Queue (Feet)[3]		Acceptable?[1]	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	315	353	Yes	Yes	332	361	Yes	Yes
	SBL/T	1,235	320	353	Yes	Yes	337	363	Yes	Yes
	SBR	570	181	336	Yes	Yes	181	336	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	225	242	Yes	Yes	225	242	Yes	Yes
	SBL/T	1,560	226	242	Yes	Yes	226	242	Yes	Yes
	SBR	255	0	2	Yes	Yes	0	2	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	248	246 [2]	Yes	Yes	248	246 [2]	Yes	Yes
	NBL/T	1,300	254	392 [2]	Yes	Yes	254	392 [2]	Yes	Yes
	NBR	815	6	132	Yes	Yes	6	132	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	28	43	Yes	Yes	28	43	Yes	Yes
	NBR	420	237 [2]	778 [2]	Yes	Yes[3]	311 [2]	804 [2]	Yes	Yes[3]
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	323	287	Yes	Yes	323 [2]	287	Yes	Yes
	WBL/T/R	1,430	331 [2]	294	Yes	Yes	331 [2]	294	Yes	Yes
	WBR	400	216	217	Yes	Yes	216	217	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	386 [2]	375 [2]	Yes	Yes	386 [2]	375 [2]	Yes	Yes
	EBT/R	1,270	303 [2]	315 [2]	Yes	Yes	416 [2]	354 [2]	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	215	289	Yes	Yes	223	293	Yes	Yes
	WBR	250	639 [2]	235	Yes[3]	Yes	639 [2]	239	Yes[3]	Yes
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	846 [2]	520 [2]	Yes	Yes	846 [2]	520	Yes	Yes
	EBR	315	63	239	Yes	Yes	65	247 [2]	Yes	Yes
Archibald Avenue & SR-60 WB Ramps	WBL/T	1,389	445 [2]	394 [2]	Yes	Yes	533 [2]	424 [2]	Yes	Yes
	WBR	250	511 [2]	58	Yes[3]	Yes	511 [2]	58	No	Yes
Archibald Avenue & SR-60 EB Ramps	EBL/T	1,268	264	81	Yes	Yes	264	81	Yes	Yes
	EBR	350	293	495 [2]	Yes	Yes[3]	330 [2]	495 [2]	Yes	Yes[3]
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	105	94	Yes	Yes	110	94	Yes	Yes
	SBL/R	560	371	204	Yes	Yes	425 [2]	217	Yes	Yes
	SBR	460	280 [2]	183	Yes[3]	Yes[3]	385 [2]	194	Yes[3]	Yes[3]
I-15 SB Ramps & Limonite Avenue	SBL	400	93	82	Yes	Yes	93	82	Yes	Yes
	SBL/T/R	400	93	84	Yes	Yes	93	84	Yes	Yes
	SBR	1,200	46	123	Yes	Yes	46	128	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	91	67	Yes	Yes	91	67	Yes	Yes
	NBR	440	52	45	Yes	Yes	52	45	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	76	132	Yes	Yes	91	138	Yes	Yes
	NBL/T/R	1,235	76	134	Yes	Yes	92	140	Yes	Yes
	NBR	400	34	274	Yes	Yes	34	266	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

Table 5-4

Peak Hour Freeway Off-Ramp Queuing Summary for E+P (Project Buildout) Conditions

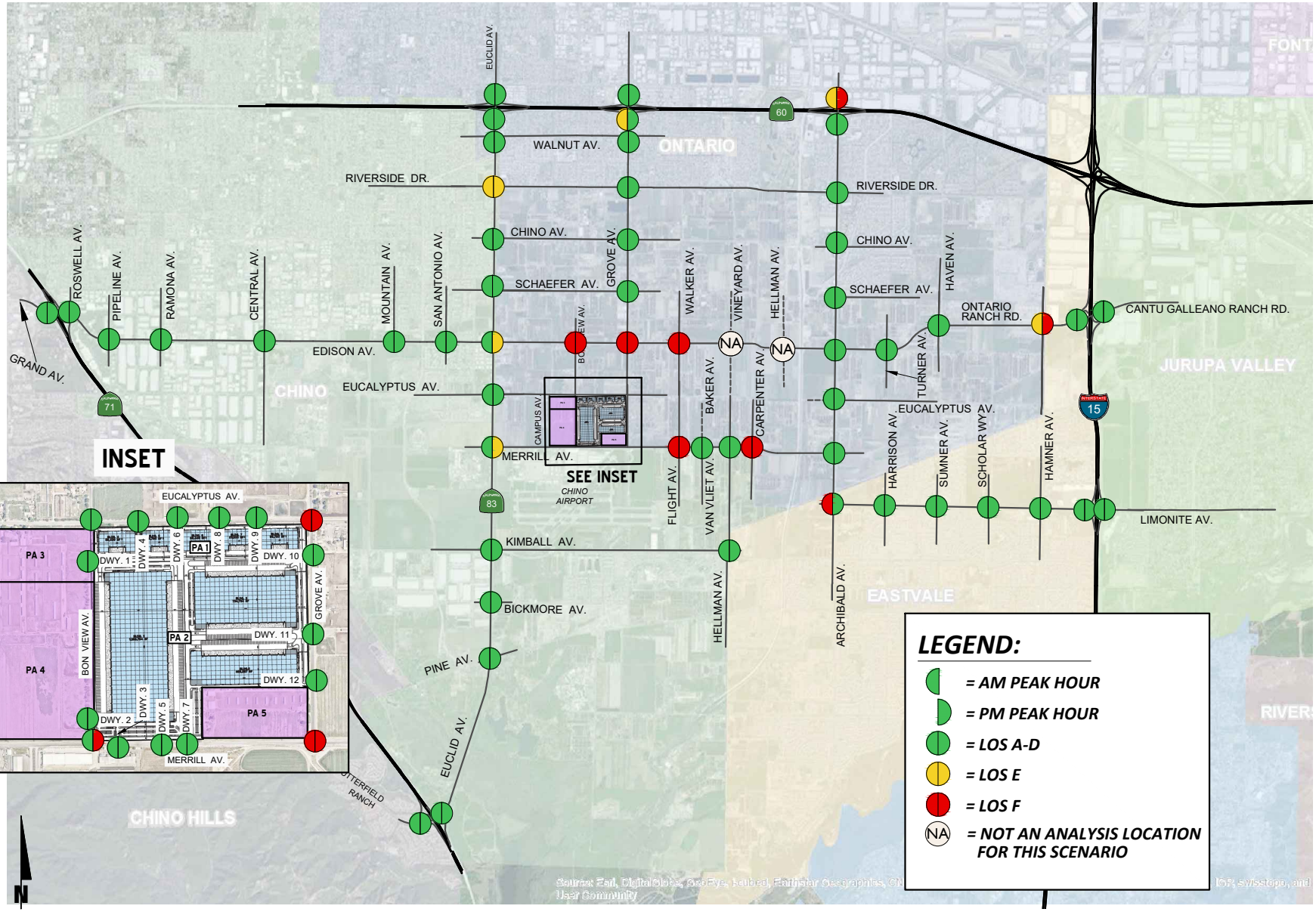
Intersection	Movement	Available Stacking Distance (Feet)	Existing (2021)				E+P (Project Buildout)			
			95th Percentile Queue (Feet)[3]		Acceptable?[1]		95th Percentile Queue (Feet)[3]		Acceptable?[1]	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	315	353	Yes	Yes	347	366	Yes	Yes
	SBL/T	1,235	320	353	Yes	Yes	352	367	Yes	Yes
	SBR	570	181	336	Yes	Yes	181	336	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	225	242	Yes	Yes	225	242	Yes	Yes
	SBL/T	1,560	226	242	Yes	Yes	226	242	Yes	Yes
	SBR	255	0	2	Yes	Yes	0	2	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	248	246 [2]	Yes	Yes	248	246 [2]	Yes	Yes
	NBL/T	1,300	254	392 [2]	Yes	Yes	254	392 [2]	Yes	Yes
	NBR	815	6	132	Yes	Yes	6	132	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	28	43	Yes	Yes	28	43	Yes	Yes
	NBR	420	237 [2]	778 [2]	Yes	Yes[3]	379 [2]	831 [2]	Yes	Yes[3]
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	323	287	Yes	Yes	323 [2]	287	Yes	Yes
	WBL/T/R	1,430	331 [2]	294	Yes	Yes	331 [2]	294	Yes	Yes
	WBR	400	216	217	Yes	Yes	216	217	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	386 [2]	375 [2]	Yes	Yes	386 [2]	375 [2]	Yes	Yes
	EBT/R	1,270	303 [2]	315 [2]	Yes	Yes	493 [2]	378 [2]	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	215	289	Yes	Yes	226	294	Yes	Yes
	WBR	250	639 [2]	235	Yes[3]	Yes	639 [2]	241	Yes[3]	Yes
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	846 [2]	520 [2]	Yes	Yes	846 [2]	520 [2]	Yes	Yes
	EBR	315	63	239	Yes	Yes	67	253	Yes	Yes
Archibald Avenue & SR-60 WB Ramps	WBL/T	1,389	445 [2]	394 [2]	Yes	Yes	596 [2]	443 [2]	Yes	Yes
	WBR	250	511 [2]	58	Yes[3]	Yes	511 [2]	58	Yes[3]	Yes
Archibald Avenue & SR-60 EB Ramps	EBL/T	1,268	264	81	Yes	Yes	264	81	Yes	Yes
	EBR	350	293	495 [2]	Yes	Yes[3]	363 [2]	495 [2]	Yes[3]	Yes[3]
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	105	94	Yes	Yes	110	94	Yes	Yes
	SBL/R	560	371	204	Yes	Yes	463 [2]	228	Yes	Yes
	SBR	460	280 [2]	183 [2]	Yes[3]	Yes[3]	424 [2]	203	Yes	Yes[3]
I-15 SB Ramps & Limonite Avenue	SBL	400	93	82	Yes	Yes	93	82	Yes	Yes
	SBL/T/R	400	93	84	Yes	Yes	93	84	Yes	Yes
	SBR	1,200	46	123	Yes	Yes	50	130	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	91	67	Yes	Yes	91	67	Yes	Yes
	NBR	440	52	45	Yes	Yes	52	45	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	76	132	Yes	Yes	102	142	Yes	Yes
	NBL/T/R	1,235	76	134	Yes	Yes	103	144	Yes	Yes
	NBR	400	34	274	Yes	Yes	33	267	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

EXHIBIT 5-6: E+P (PROJECT BUILDOUT) SUMMARY OF LOS



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5.7 IMPROVEMENTS

This section provides a summary of Project deficiencies and identified improvements. Based on the City of Ontario deficiency criteria discussed in Section 2.6 *Deficiency Criteria*, intersections were found to be deficient.

5.7.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

The effectiveness of the proposed recommended improvements is presented on Table 5-5 for E+P (Phase 1 and Project Buildout) traffic conditions. The intersection operations analysis worksheets for E+P (Phase 1 and Project Buildout) traffic conditions, with improvements, are included in Appendix 5.7 and Appendix 5.8 of this TA.

5.7.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES

As shown previously on Tables 5-3 and 5-4, there are no peak hour queuing issues anticipated at the SR-71 Freeway, SR-60 Freeway, and I-15 Freeway study area interchanges. As such, no improvements have been identified.

Table 5-5

Intersection Analysis for E+P Conditions With Improvements

#	Intersection	Traffic Control[3]	Intersection Approach Lanes[1]												Delay[2] (secs.)		Level of Service		Jurisdiction(s) / LOS Standard
			Northbound			Southbound			Eastbound			Westbound							
			L	T	R	L	T	R	L	T	R	L	T	R	AM	PM	AM	PM	
13	Euclid Av. (SR-83) & Riverside Dr.																		
	- Existing[4]	TS	1	2	0	1	2	1>	1	1	**1**	1	2	d	42.0	46.2	D	D	Chino, Ontario,
	- E+P (Phase 1)[4]	TS	1	2	0	1	2	1>	1	1	**1**	1	2	d	42.1	48.5	D	D	Caltrans / LOS D
	- E+P (Project Buildout)[4]	TS	1	**3**	0	1	2	1>	1	1	**1**	1	2	d	42.3	50.2	D	D	
16	Euclid Av. (SR-83) & Edison Av.																		
	- Existing		Not Applicable																Chino, Ontario,
	- E+P (Phase 1)		Not Applicable																Caltrans / LOS D
	- E+P (Project Buildout)	TS	1	2	1	1	2	1	1	1	1	1	1	**1**	44.4	52.0	D	D	
18	Euclid Av. (SR-83) & Merrill Av.																		
	- Existing		Not Applicable																Chino, Ontario,
	- E+P (Phase 1)	TS	1	2	1	1	2	0	0	1	0	**1**	1	**1>**	17.6	31.7	B	C	Caltrans / LOS D
	- E+P (Project Buildout)	TS	1	2	1	1	2	0	0	1	0	**1**	1	**1>**	19.4	41.4	B	D	
24	Bon View Av. & Edison Av.																		
	- Existing		Not Applicable																Ontario / LOS E
	- E+P (Phase 1)		Not Applicable																
	- E+P (Project Buildout)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	10.2	10.1	B	B	
28	Bon View Av. & Merrill Av.																		
	- Existing		Not Applicable																Chino, Ontario /
	- E+P (Phase 1)		Not Applicable																LOS D
	- E+P (Project Buildout)	**TS**	0	0	0	0	1	0	**1**	1	0	0	1	**1**	12.7	12.9	B	B	
37	Grove Av. & SR-60 EB Ramps																		
	- Existing	TS	0	2	0	1	2	0	**1**	1	1	0	0	0	34.0	30.9	C	C	Ontario,
	- E+P (Phase 1)	TS	0	2	0	1	2	0	**1**	1	1	0	0	0	34.2	31.2	C	C	Caltrans / LOS D
	- E+P (Project Buildout)	TS	0	2	0	1	2	0	**1**	1	1	0	0	0	34.3	31.5	C	C	
42	Grove Av. & Edison Av.																		
	- Existing	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	11.6	11.2	B	B	Ontario / LOS E
	- E+P (Phase 1)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	12.3	15.9	B	B	
	- E+P (Project Buildout)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	13.0	22.3	B	C	
43	Grove Av. & Eucalyptus Av.																		
	- Existing	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	8.3	9.0	A	A	Ontario / LOS E
	- E+P (Phase 1)	**TS**	**1**	**2**	0	**1**	1	0	0	1	0	0	1	0	14.7	36.0	B	D	
	- E+P (Project Buildout)	**TS**	**1**	**2**	0	**1**	1	0	**1**	1	0	0	1	0	19.7	42.2	B	D	
47	Grove Av. & Merrill Av.																		
	- Existing	**TS**	0	0	0	0	1	0	0	1	0	0	1	0	14.7	12.7	B	B	Chino, Ontario /
	- E+P (Phase 1)	**TS**	0	0	0	0	1	0	0	1	0	0	1	0	19.7	18.9	B	B	LOS D
	- E+P (Project Buildout)	**TS**	0	0	0	0	1	0	**1**	1	0	0	1	0	25.1	20.0	C	C	
48	Walker Av. & Edison Av.																		
	- Existing		Not Applicable																Ontario / LOS E
	- E+P (Phase 1)		Not Applicable																
	- E+P (Project Buildout)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	10.7	10.3	B	B	
49	Walker Av./Flight Av. & Merrill Av.																		
	- Existing		Not Applicable																Chino, Ontario /
	- E+P (Phase 1)	**TS**	0	1	0	0	0	0	0	1	1	1	1	0	14.1	8.0	B	A	LOS D
	- E+P (Project Buildout)	**TS**	0	1	0	0	0	0	0	1	1	1	1	0	15.4	9.2	B	A	

Table 5-5

Intersection Analysis for E+P Conditions With Improvements

#	Intersection	Traffic Control[3]	Intersection Approach Lanes[1] Northbound L	T	R	Southbound L	T	R	Eastbound L	T	R	Westbound L	T	R	Delay[2] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard
54	Carpenter Av. & Merrill Av.																		
	- Existing	**TS**	0	1	0	0	1	0	1	1	1	1	1	0	9.6	9.3	A	A	Chino, Ontario /
	- E+P (Phase 1)	**TS**	0	1	0	0	1	0	1	1	1	1	1	0	10.0	9.8	B	A	LOS D
	- E+P (Project Buildout)	**TS**	0	1	0	0	1	0	1	1	1	1	1	0	10.5	10.3	B	B	
56	Archibald Av. & SR-60 WB Ramps																		
	- Existing	TS	**2**	3	0	0	**4**	**1**	0	0	0	**1**	1	1	17.8	25.1	B	C	Ontario,
	- E+P (Phase 1)	TS	**2**	3	0	0	**4**	**1**	0	0	0	**1**	1	1	18.3	25.2	B	C	Caltrans / LOS D
	- E+P (Project Buildout)	TS	**2**	3	0	0	**4**	**1**	0	0	0	**1**	1	1	18.8	25.3	B	C	
64	Archibald Av. & Limonite Av.																		
	- Existing	TS	0	1	1>	1	1	0	0	0	0	1	0	**2>**	25.5	34.5	C	C	Eastvale / LOS D
	- E+P (Phase 1)	TS	0	1	1>	1	1	0	0	0	0	1	0	**2>**	30.2	44.7	C	D	
	- E+P (Project Buildout)	TS	0	1	1>	1	1	0	0	0	0	1	0	**2>**	33.9	54.2	C	D	
70	Hamner Av. & Ontario Ranch Rd.																		
	- Existing[5]	TS	2	3	1	2	**3**	**0**	2	4	0	2	2	1	44.6	48.3	D	D	Eastvale,
	- E+P (Phase 1)[5]	TS	2	3	1	2	**3**	**0**	2	4	0	2	2	1	48.6	52.1	D	D	Ontario / LOS D
	- E+P (Project Buildout)[5]	TS	2	3	1	2	**3**	**0**	2	4	0	2	2	1	51.6	54.9	D	D	

[1] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; d= Defacto Right Turn Lane; **1** = Improvement

[2] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[3] AWS = All-Way Stop; CSS = Cross-Street Stop; TS = Traffic Signal; **TS** = Improvement

[4] Improvement includes restriping the northbound approach to provide one left turn lane, two through lanes, and one shared through-right turn lane.

[5] Improvement includes modifying the traffic signal to extend the cycle length to 130 seconds.

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6 OPENING YEAR CUMULATIVE (2024) TRAFFIC CONDITIONS

This section discusses the methods used to develop Opening Year Cumulative (2024) Without and With Project traffic forecasts, and the resulting intersection operations, off-ramp queuing, and traffic signal warrant analyses.

6.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Opening Year Cumulative (2024) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Opening Year Cumulative conditions only (e.g., intersection and roadway improvements along the Project's frontage and driveways).
- Driveways and those facilities assumed to be constructed by cumulative developments to provide site access are also assumed to be in place for Opening Year Cumulative conditions only.

6.2 OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus an ambient growth factor of 6.12% plus traffic from pending and approved but not yet constructed known development projects in the area. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2024) Without Project traffic conditions are shown on Exhibits 6-1 and 6-2, respectively.

6.3 OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) TRAFFIC VOLUME FORECASTS

This scenario includes Opening Year Cumulative (2024) Without Project traffic in conjunction with the addition of Project (Phase 1) traffic. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2024) With Project traffic conditions are shown on Exhibits 6-3 and 6-4, respectively.

6.4 OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) TRAFFIC VOLUME FORECASTS

This scenario includes Opening Year Cumulative (2024) Without Project traffic in conjunction with the addition of Project (Project Buildout) traffic. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Opening Year Cumulative (2024) With Project traffic conditions are shown on Exhibits 6-5 and 6-6, respectively.

EXHIBIT 6-1: OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT AVERAGE DAILY TRAFFIC (ADT)

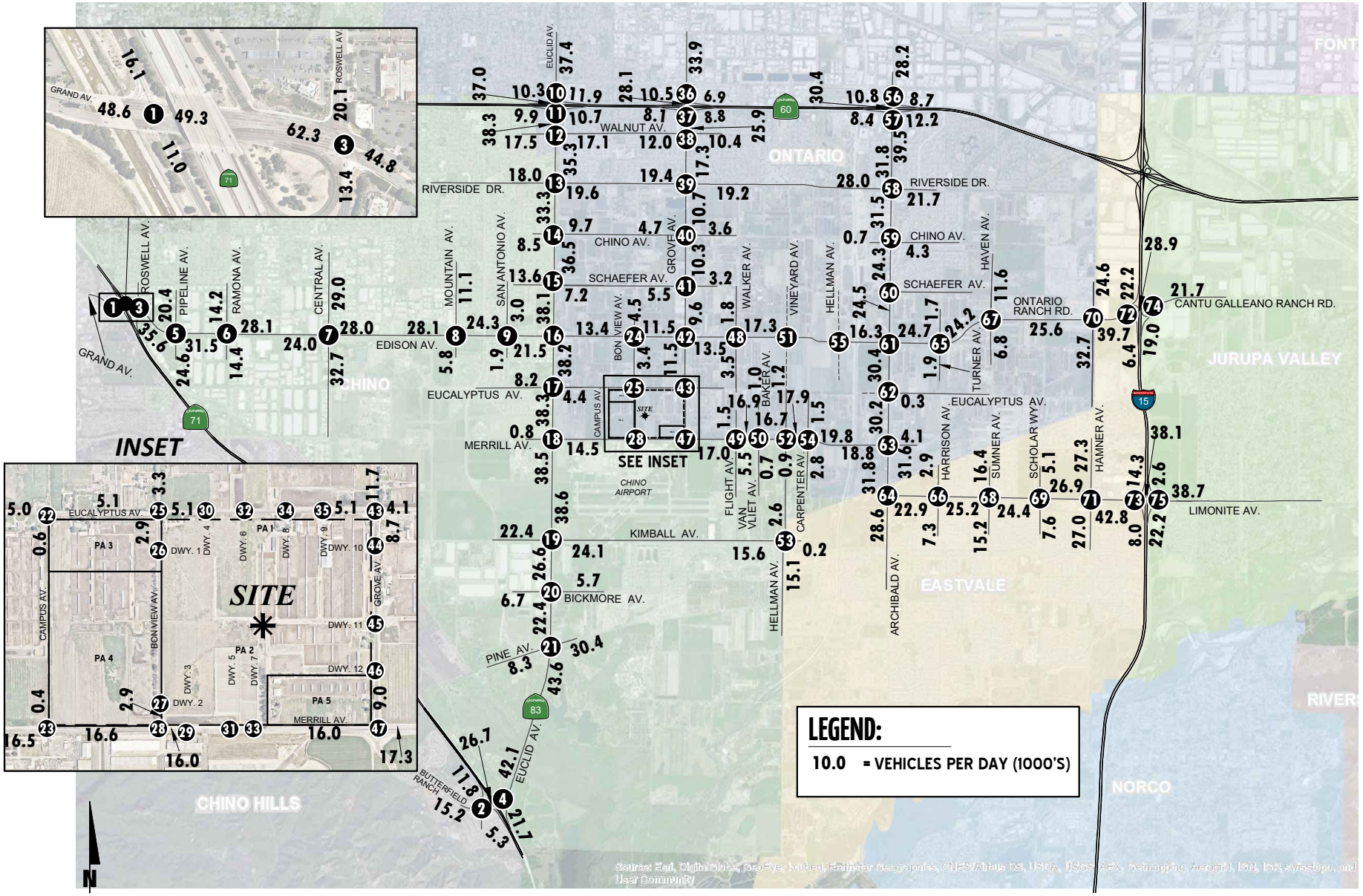
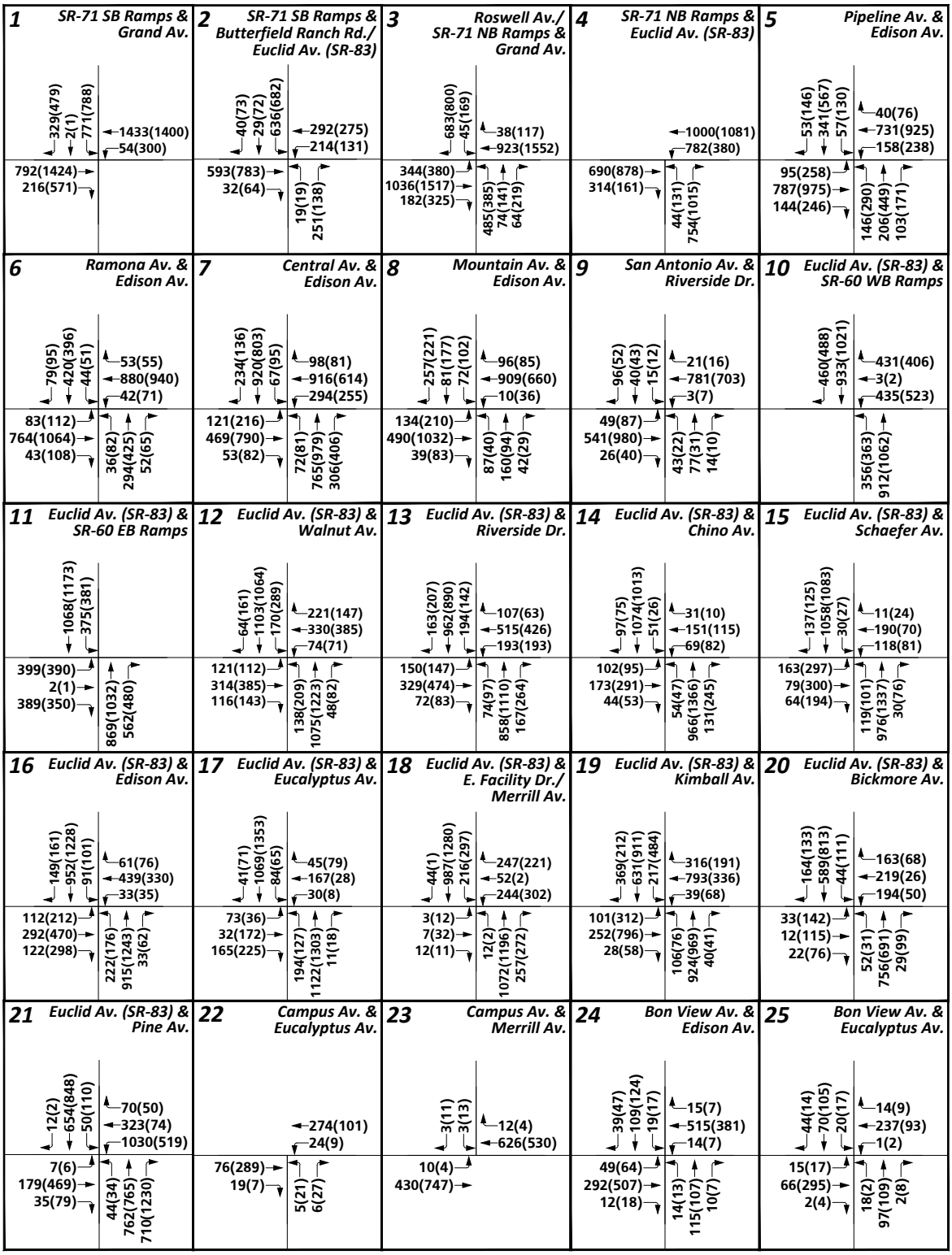


EXHIBIT 6-2 (1OF3): OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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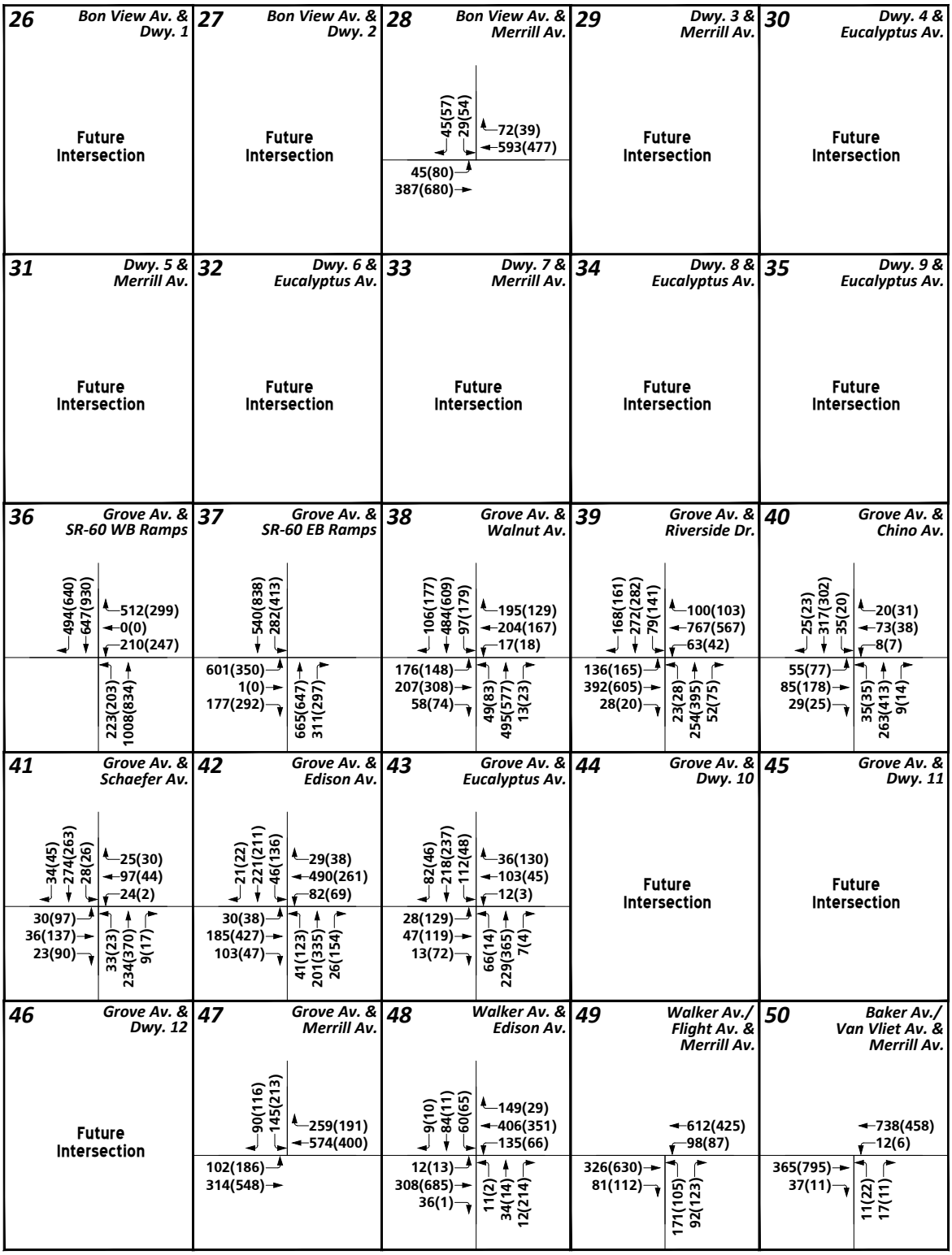
EXHIBIT 6-2 (2OF3): OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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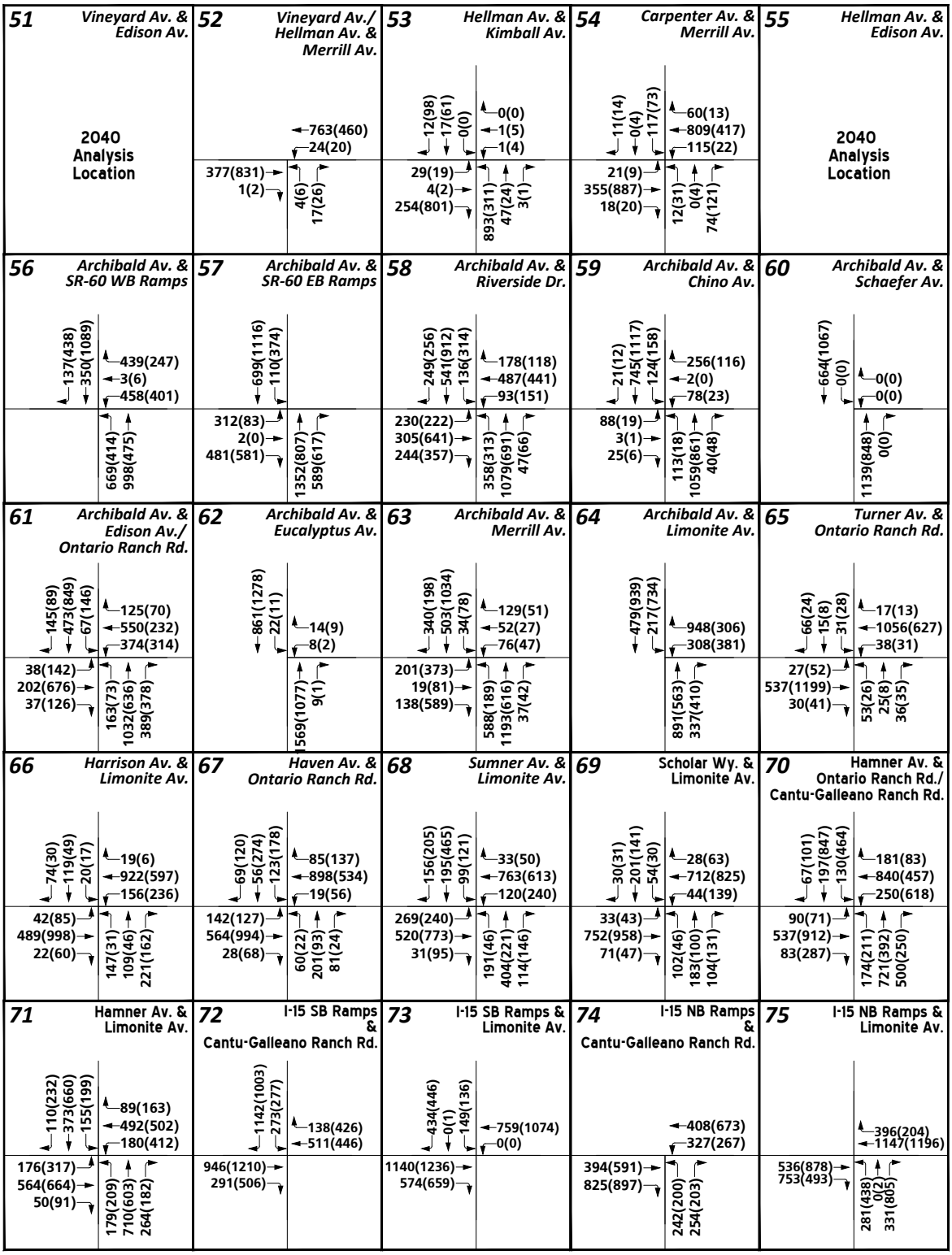
EXHIBIT 6-2 (3OF3): OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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EXHIBIT 6-3: OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) AVERAGE DAILY TRAFFIC (ADT)

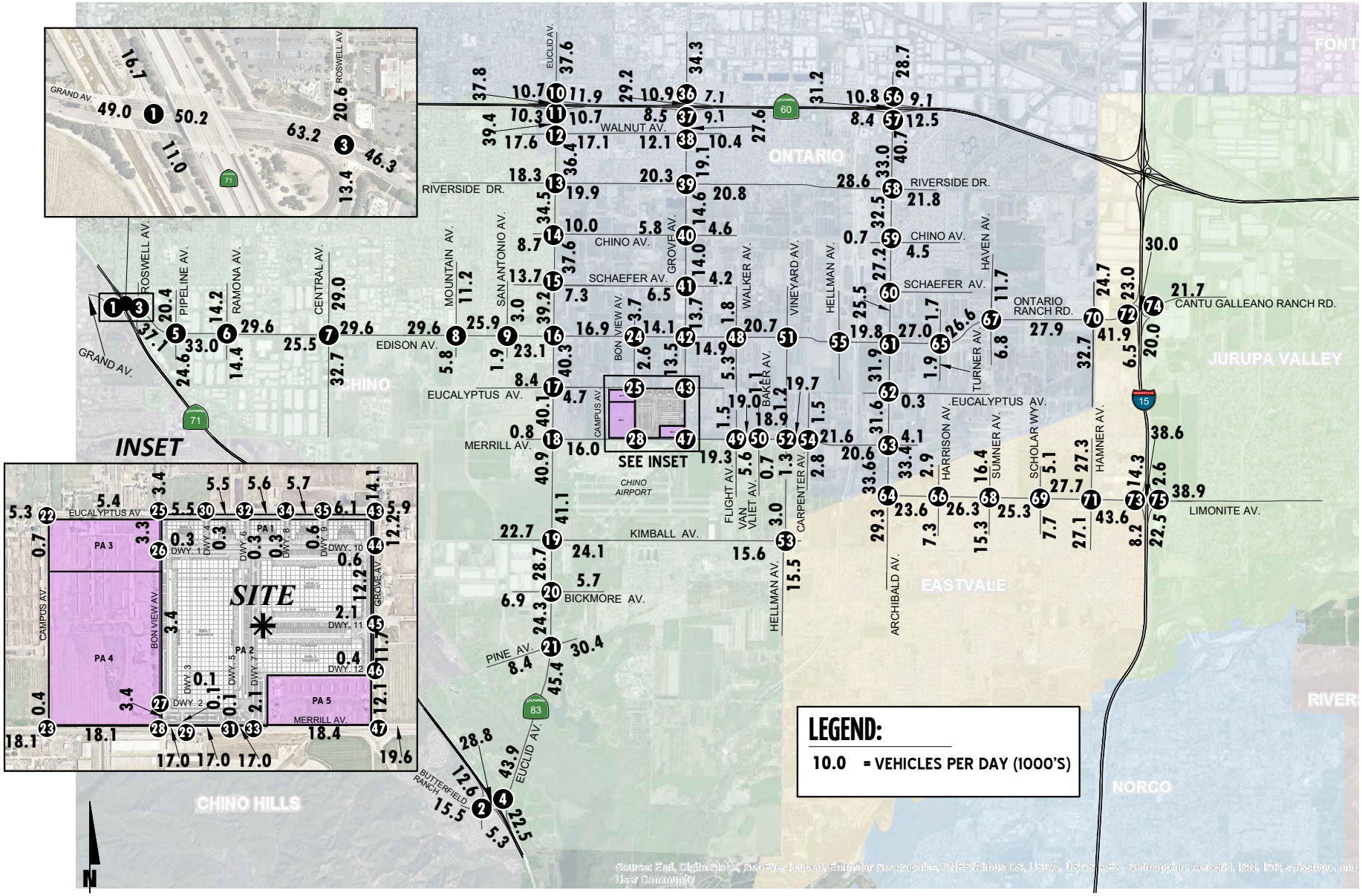
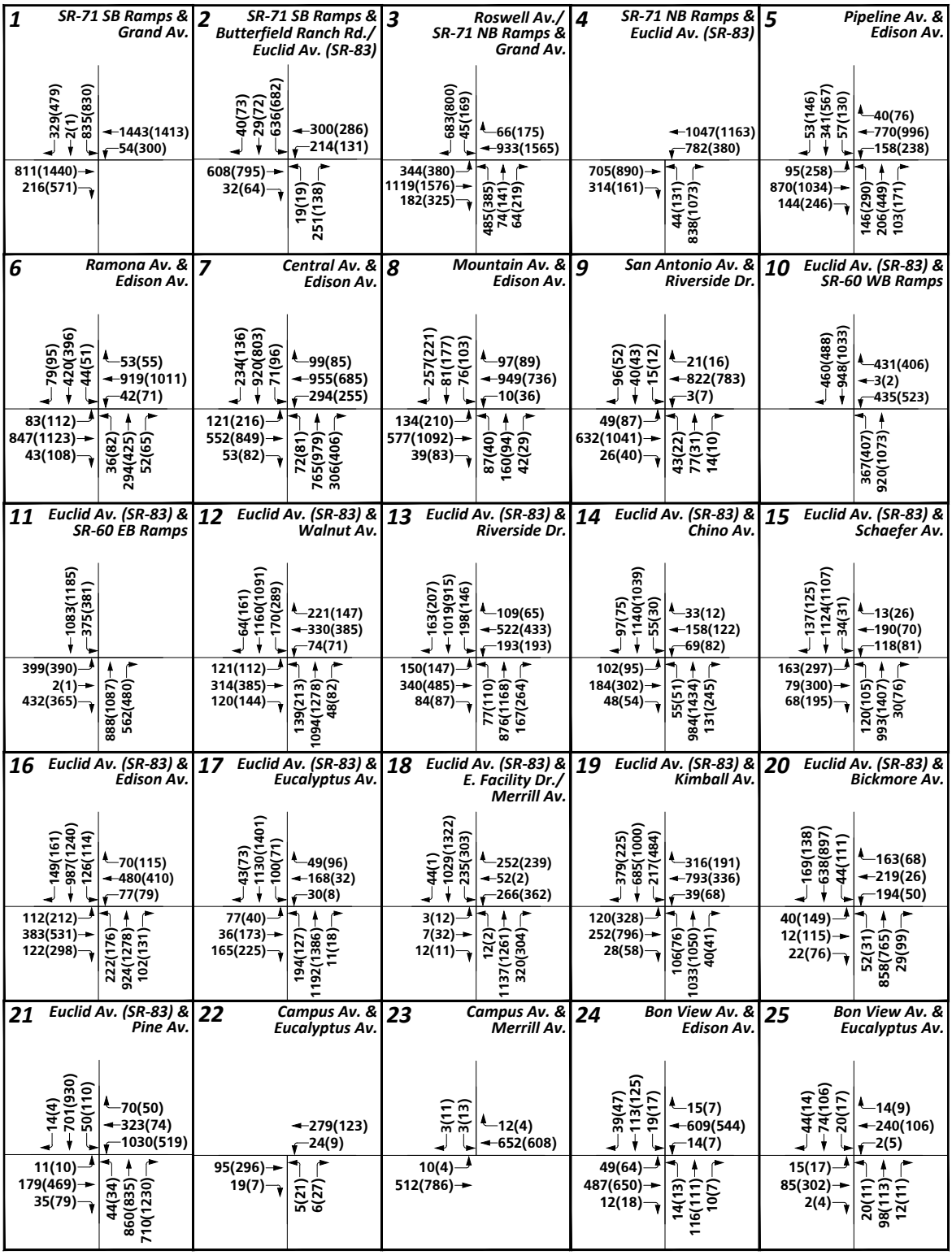


EXHIBIT 6-4 (1OF3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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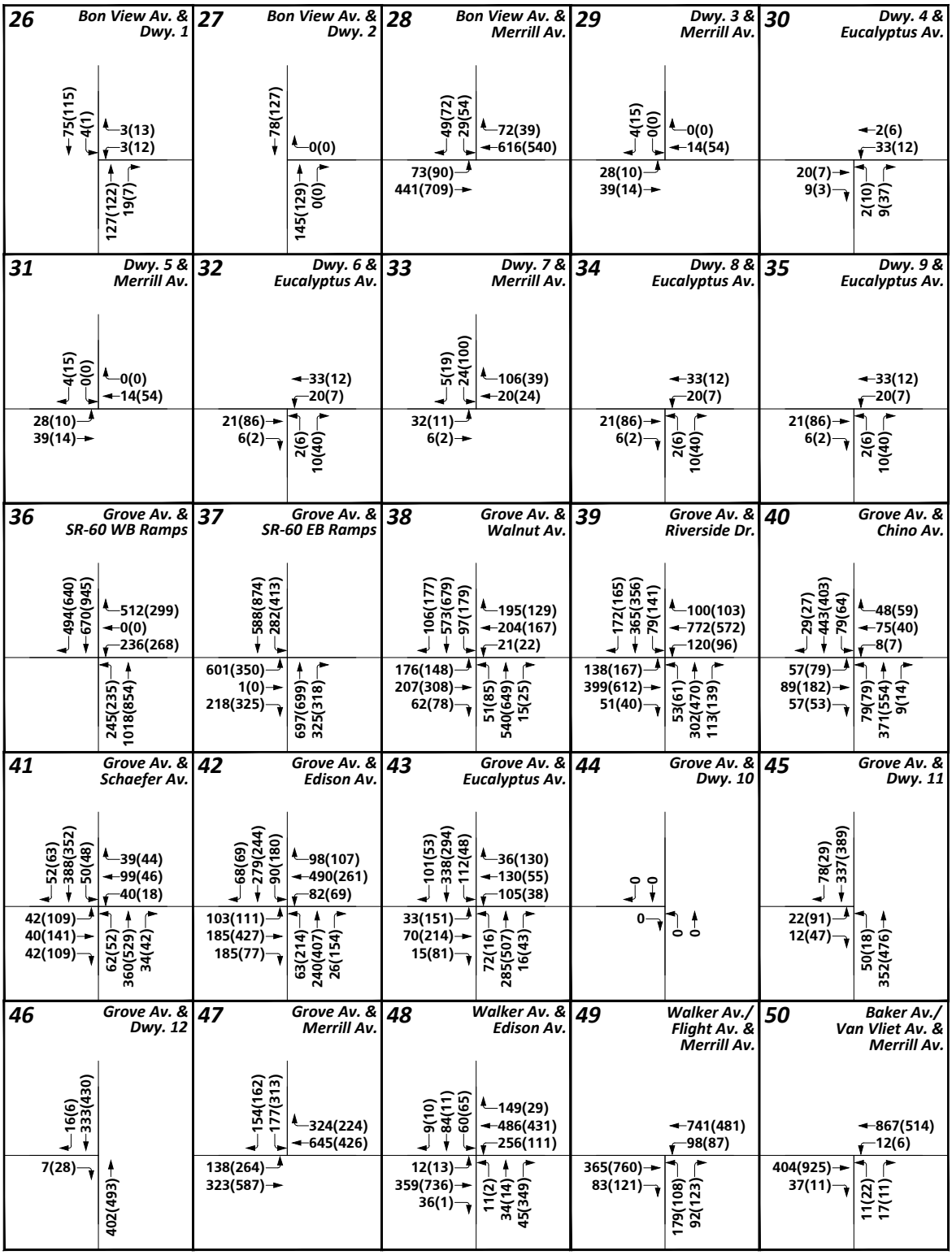
EXHIBIT 6-4 (2OF3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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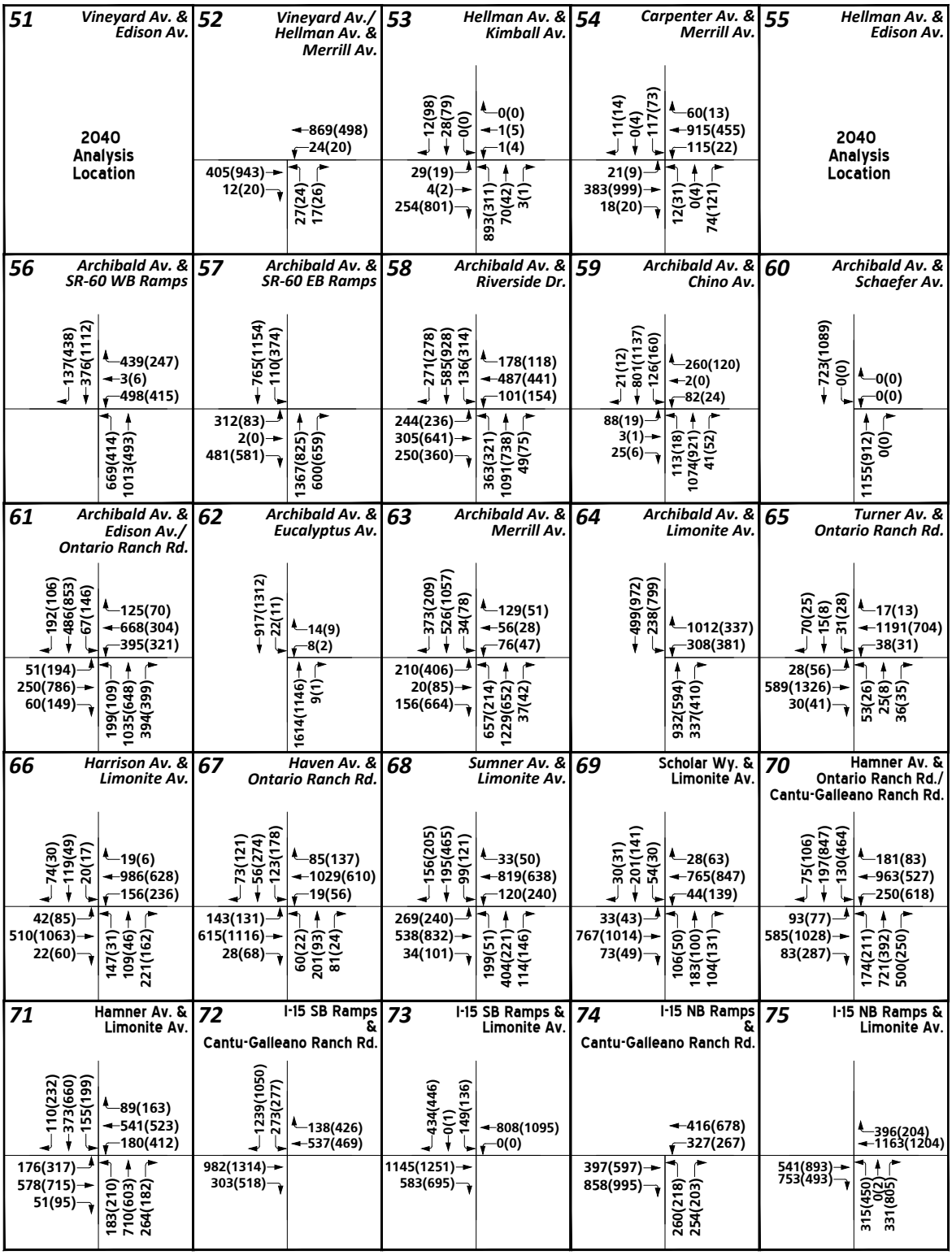
EXHIBIT 6-4 (3OF3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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EXHIBIT 6-5: OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) AVERAGE DAILY TRAFFIC (ADT)

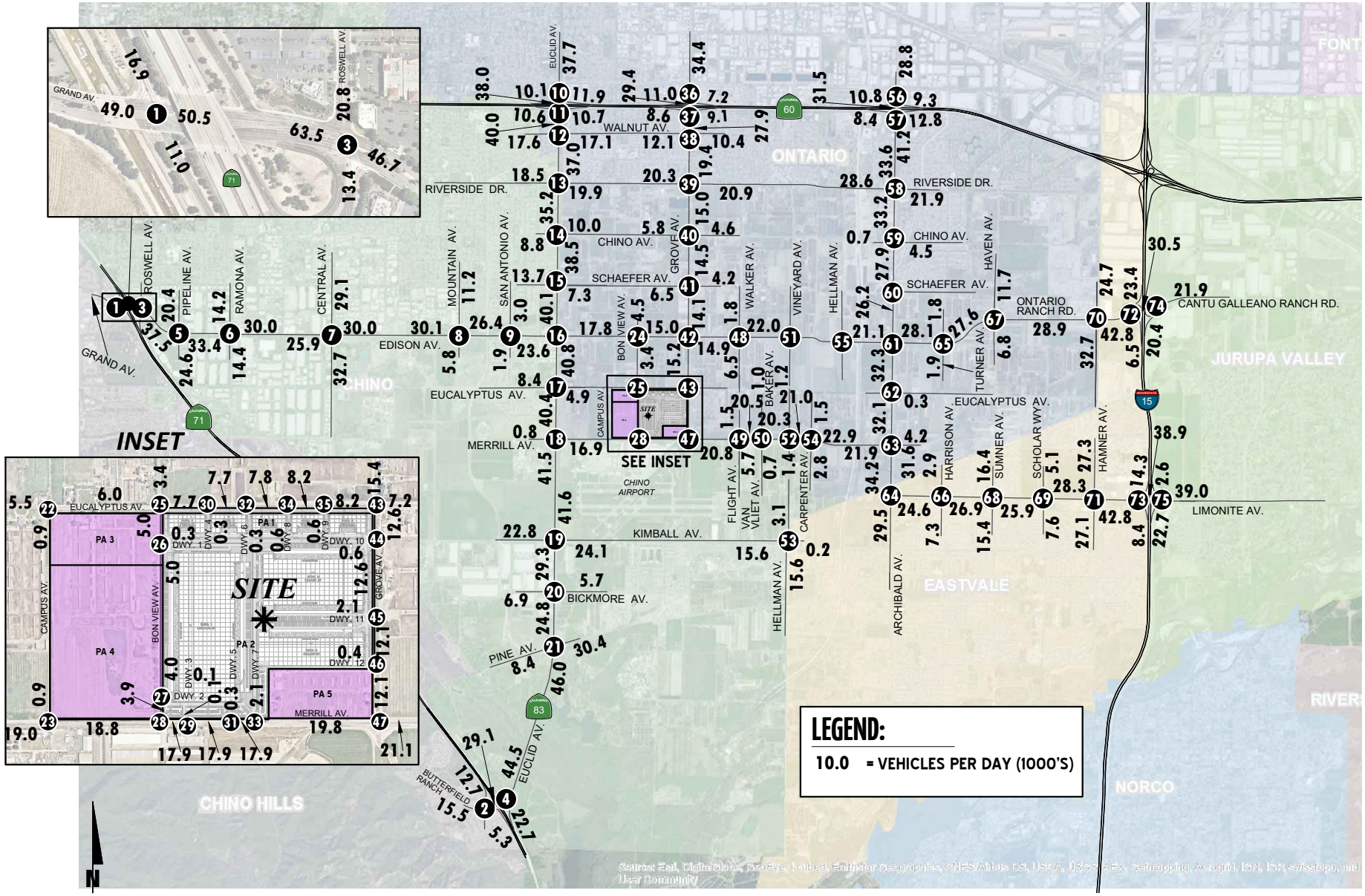
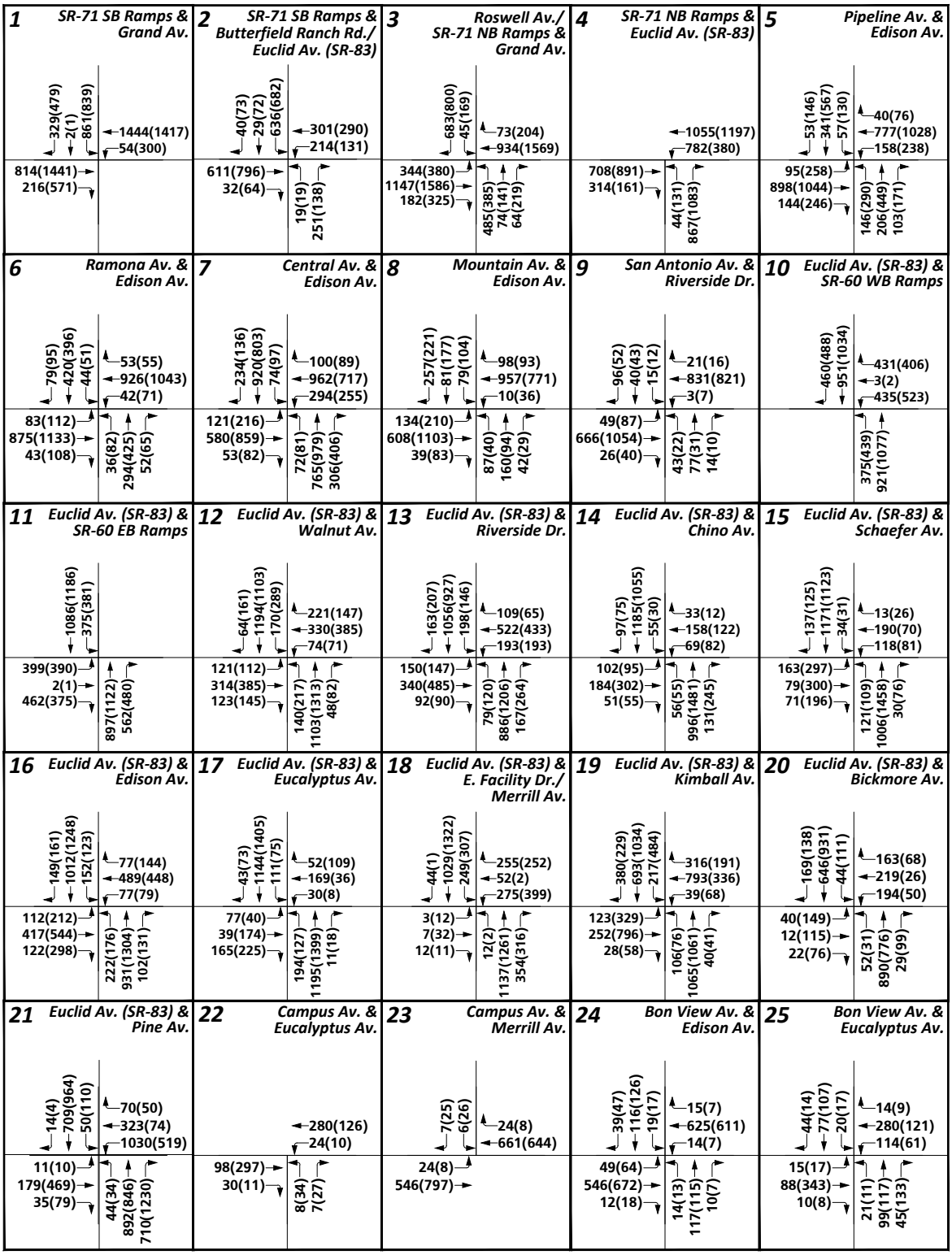


EXHIBIT 6-6 (1OF3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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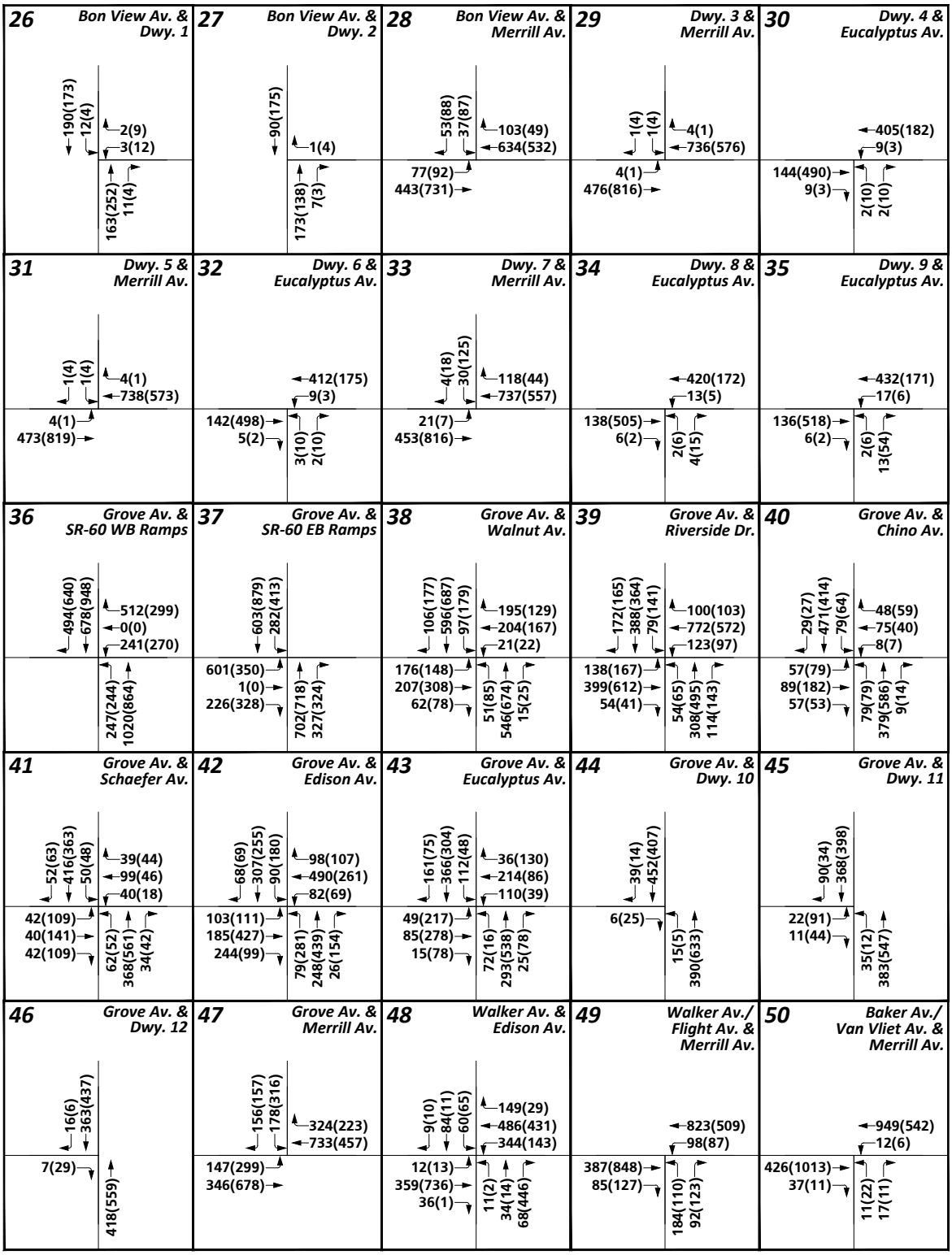
EXHIBIT 6-6 (2OF3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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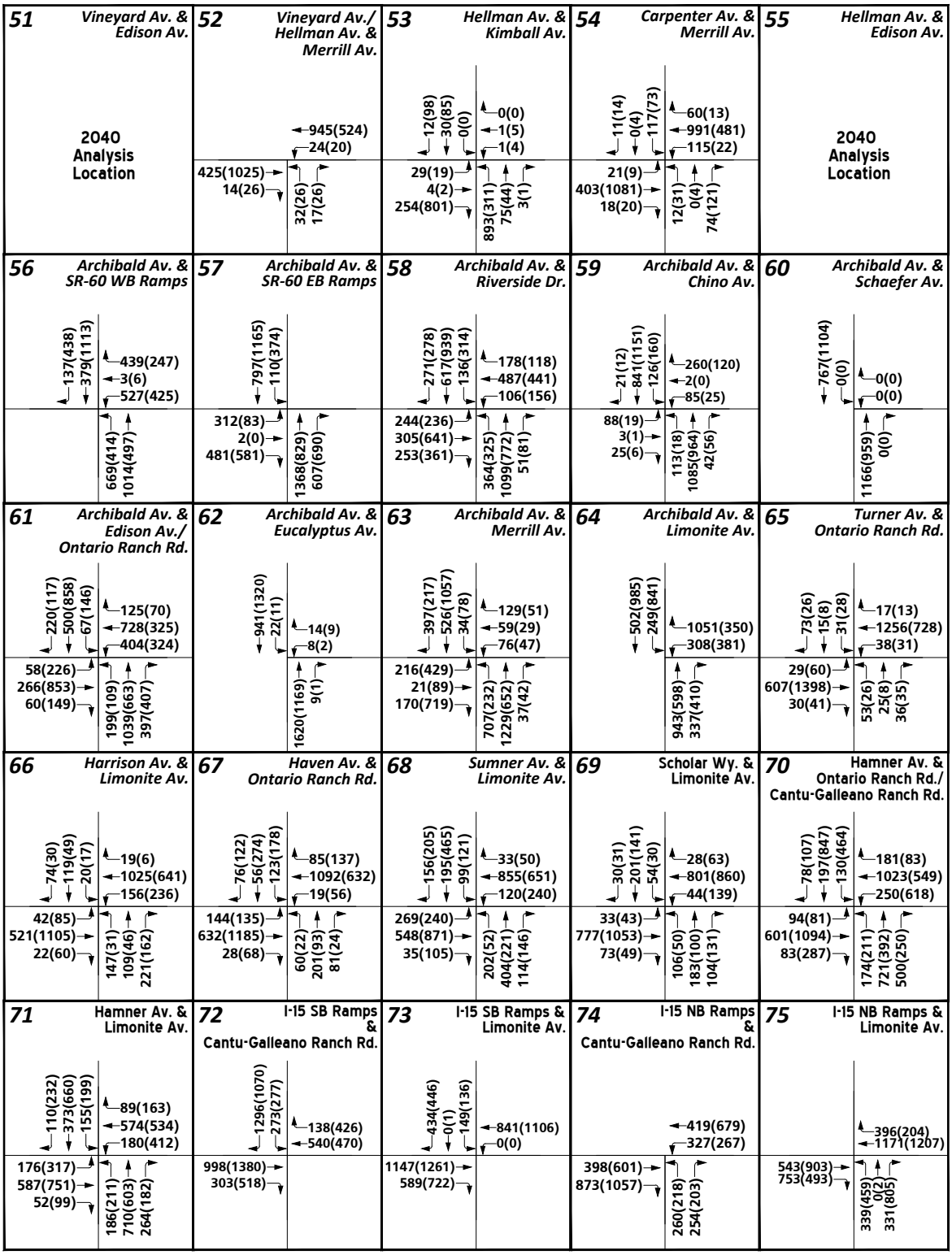
EXHIBIT 6-6 (3OF3): OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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6.5 INTERSECTION OPERATIONS ANALYSIS

6.5.1 OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT TRAFFIC CONDITIONS

LOS calculations were conducted for the study intersections to evaluate their operations under Opening Year Cumulative (2024) Without Project conditions with roadway and intersection geometrics consistent with Section 6.1 *Roadway Improvements*. As shown on Table 6-1, the following additional study area intersections are anticipated to operate at an unacceptable LOS under Opening Year Cumulative (2024) Without Project traffic conditions:

- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Kimball Avenue (#19) – LOS E PM peak hour only
- Euclid Avenue (SR-83) & Pine Avenue (#21) – LOS F PM peak hour only
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Merrill Avenue (#28) – LOS F PM peak hour only
- Grove Avenue & SR-60 EB Ramps (#37) – LOS E AM peak hour only
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F PM peak hour only
- Grove Avenue & Merrill Avenue (#47) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#48) – LOS F AM and PM peak hours
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Archibald Avenue & Ontario Ranch Road (#61) – LOS F AM peak hour only
- Archibald Avenue & Merrill Avenue (#63) — LOS F PM peak hour only
- Archibald Avenue & Limonite Avenue (#56) – LOS F AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#63) – LOS E AM peak hour; LOS F PM peak hour

A summary of the peak hour intersection LOS for Opening Year Cumulative (2024) Without Project conditions is shown on Exhibit 6-7. The intersection operations analysis worksheets for Opening Year Cumulative (2024) Without Project traffic conditions are included in Appendix 6.1 of this TA.

Table 6-1

Intersection Analysis for Opening Year Cumulative (2024) Conditions - Phase 1

#	Intersection	Traffic Control[2]	2024 Without Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	2024 With Project (Phase 1) Delay[1] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard[3]
1	SR-71 SB Ramps & Grand Av.	TS	27.2	43.8	C	D	27.3	44.4	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	42.3	37.6	D	D	42.5	37.9	D	D	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	27.2	26.8	C	C	28.3	26.8	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	38.1	53.4	D	D	41.3	54.1	D	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	21.3	34.5	C	C	21.3	35.0	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	29.2	35.6	C	D	29.6	37.5	C	D	Chino / LOS D
7	Central Av. & Edison Av.	TS	45.0	51.0	D	D	46.4	54.6	D	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	25.8	22.6	C	C	26.0	22.8	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.3	9.8	B	A	11.4	9.9	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	27.6	28.0	C	C	29.3	39.0	C	D	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	45.3	27.8	D	C	51.8	32.3	D	C	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	35.1	39.0	C	D	35.7	40.0	D	D	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	**71.2**	**104.9**	**E**	**F**	**82.2**	**122.2**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	26.7	32.1	C	C	29.2	39.4	C	D	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	38.4	45.2	D	D	46.8	53.2	D	D	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	**69.0**	**81.9**	**E**	**F**	**85.3**	**120.6**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	20.9	19.5	C	B	24.2	23.1	C	C	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	**60.5**	**94.5**	**E**	**F**	**78.8**	**123.6**	**E**	**F**	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	36.1	**70.5**	D	**E**	41.2	**82.7**	D	**F**	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	20.9	16.8	C	B	23.6	17.4	C	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	53.7	**99.0**	D	**F**	**69.3**	**118.2**	**E**	**F**	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.		Future Intersection				Future Intersection				Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.		Future Intersection				Future Intersection				Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	**67.3**	**71.2**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	10.1	11.2	B	B	10.7	11.8	B	B	Ontario / LOS E
26	Bon View Av. & Driveway 1	**CSS**	Future Intersection				9.8	10.1	A	B	Ontario / LOS E
27	Bon View Av. & Driveway 2	**CSS**	Future Intersection				9.2	9.1	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	30.5	**87.9**	D	**F**	**46.1**	**>100.0**	**E**	**F**	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	**CSS**	Future Intersection				23.0	26.6	C	D	Ontario / LOS E
30	Driveway 4 & Eucalyptus Av.	**CSS**	Future Intersection				10.4	11.1	B	B	Ontario / LOS E
31	Driveway 5 & Merrill Av.	**CSS**	Future Intersection				23.0	26.6	C	D	Ontario / LOS E
32	Driveway 6 & Eucalyptus Av.	**CSS**	Future Intersection				10.4	11.2	B	B	Ontario / LOS E
33	Driveway 7 & Merrill Av.	**TS**	Future Intersection				12.4	13.1	B	B	Ontario / LOS E
34	Driveway 8 & Eucalyptus Av.	**CSS**	Future Intersection				9.9	10.8	A	B	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	**CSS**	Future Intersection				9.2	10.5	A	B	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	34.8	22.3	C	C	37.3	24.0	D	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	**74.4**	42.2	**E**	D	**78.3**	46.8	**E**	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	32.4	29.5	C	C	33.4	30.1	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	51.9	65.1	D	E	71.0	**104.9**	E	**F**	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	32.5	46.4	D	E	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	18.7	38.7	C	E	**89.4**	**>100.0**	**F**	**F**	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	22.7	**>100.0**	C	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
44	Grove Av. & Driveway 10	**CSS**	Future Intersection				10.1	9.9	B	A	Ontario / LOS E
45	Grove Av. & Driveway 11	**CSS**	Future Intersection				18.3	32.2	C	D	Ontario / LOS E
46	Grove Av. & Driveway 12	**CSS**	Future Intersection				10.9	12.2	B	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	**71.4**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E

Intersection Analysis for Opening Year Cumulative (2024) Conditions - Phase 1

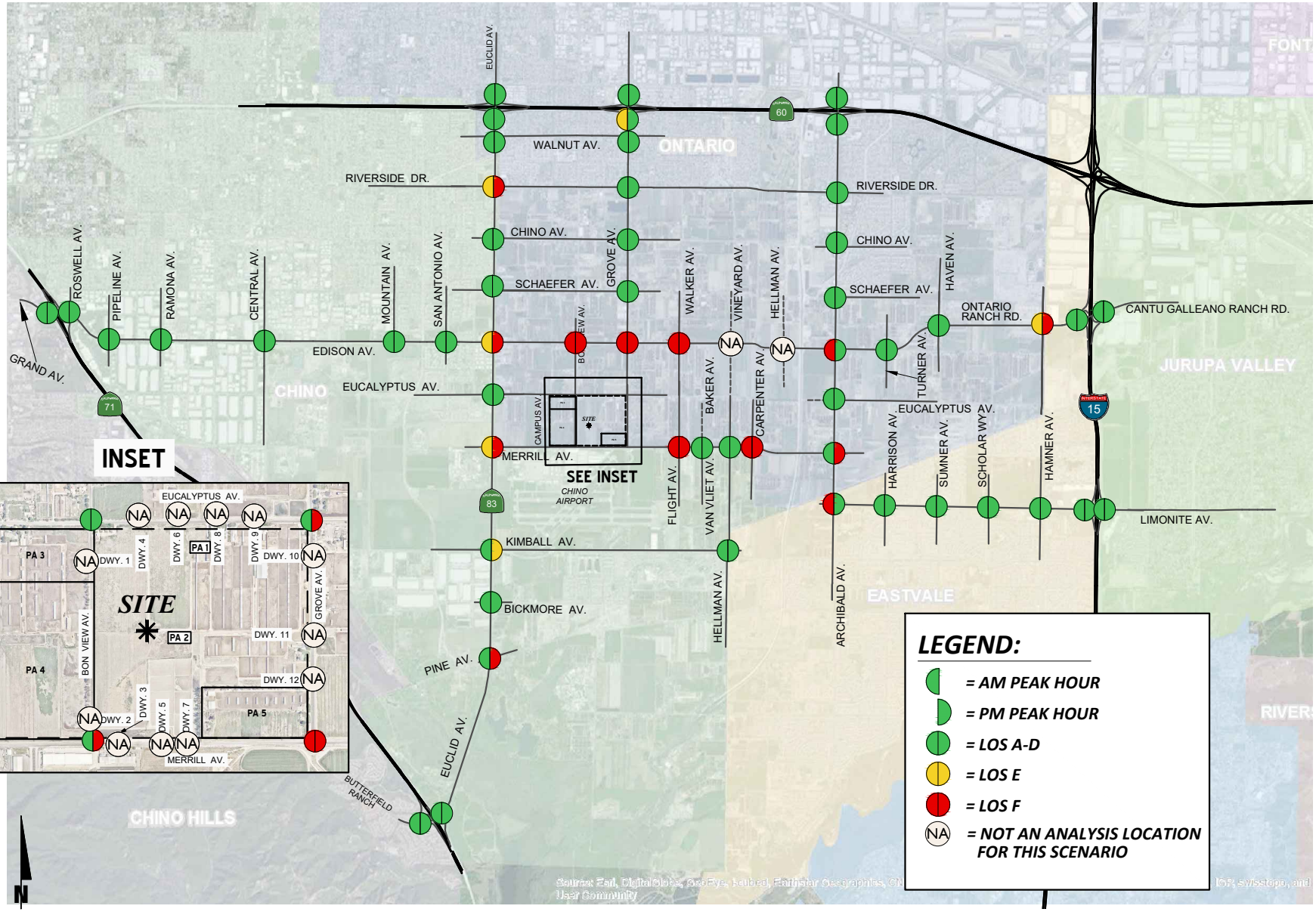
#	Intersection	Traffic Control[2]	2024 Without Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	2024 With Project (Phase 1) Delay[1] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard[3]
49	Walker Av./Flight Av. & Merrill Av.	CSS	**>100.0**	**69.4**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	14.9	21.4	B	C	16.9	26.8	C	D	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	20.5	22.4	C	C	26.5	29.9	D	D	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	23.4	18.8	C	B	23.7	19.0	C	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	19.2	25.5	B	C	20.2	25.6	C	C	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	18.8	19.4	B	B	18.8	19.5	B	B	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	57.5	67.7	E	E	62.5	74.6	E	E	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	25.4	20.7	C	C	28.1	23.3	C	C	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.7	1.0	A	A	0.7	1.0	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	**80.8**	39.1	**F**	D	**108.9**	51.8	**F**	D	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	7.0	3.9	A	A	7.3	4.2	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	77.6	**96.1**	E	**F**	**109.5**	**153.8**	**F**	**F**	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	**107.8**	52.2	**F**	D	**128.9**	**74.5**	**F**	**E**	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	18.9	17.3	B	B	21.1	19.4	C	B	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	20.5	18.2	C	B	20.8	18.2	C	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	25.4	24.3	C	C	25.7	24.6	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	20.9	21.1	C	C	21.4	21.7	C	C	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	17.6	15.9	B	B	17.8	16.2	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	**64.0**	**158.3**	**E**	**F**	**71.4**	**163.4**	**E**	**F**	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	27.5	31.7	C	C	28.3	32.5	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	17.7	14.2	B	B	19.6	14.8	B	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	8.2	6.8	A	A	8.3	6.8	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	23.1	14.2	C	B	23.5	18.0	C	B	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	8.4	12.9	A	B	9.0	12.9	A	B	Jurupa Valley, Caltrans / LOS D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[2] CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement

EXHIBIT 6-7: OPENING YEAR CUMULATIVE (2024) WITHOUT PROJECT SUMMARY OF LOS



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6.5.2 Opening Year Cumulative (2024) With Project (Phase 1) Traffic Conditions

As shown on Table 6-1 and illustrated on Exhibit 6-8, the following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) With Project (Phase 1) traffic conditions with the addition of Phase 1 Project traffic, in addition to the locations identified above for Opening Year Cumulative (2024) Without Project traffic conditions.

- Grove Avenue & Riverside Drive (#39) – LOS F PM peak hour only
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours

The intersection operations analysis worksheets for Opening Year Cumulative (2024) With Project (Phase 1) traffic conditions are included in Appendix 6.2 of this TA.

6.5.3 Opening Year Cumulative (2024) With Project (Project Buildout) Traffic Conditions

As shown on Table 6-2 and illustrated on Exhibit 6-9, the following study area intersections are anticipated to operate at a deficient LOS during one or both peak hours for Opening Year Cumulative (2024) With Project (Project Buildout) traffic conditions with the addition of Project Buildout traffic, in addition to the locations identified above for Opening Year Cumulative (2024) Without Project traffic conditions.

- Campus Avenue & Merrill Avenue (#23) – LOS F PM peak hour only
- Grove Avenue & Riverside Drive (#39) – LOS F PM peak hour only
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours

The intersection operations analysis worksheets for Opening Year Cumulative (2024) With Project (Project Buildout) traffic conditions are included in Appendix 6.3 of this TA.

6.6 Traffic Signal Warrants Analysis

There are no additional unsignalized study area intersections anticipated to meet a peak hour or daily volume-based traffic signal warrant under Opening Year Cumulative (2024) Without Project and With Project (Phase 1) traffic conditions, in addition to the locations previously identified under Existing and E+P (Phase 1) traffic conditions (see Appendices 6.4 and 6.5, respectively).

Similarly, there are no additional unsignalized study area intersections anticipated to meet a peak hour or daily volume-based traffic signal warrant under Opening Year Cumulative (2024) With Project (Project Buildout) traffic conditions (see Appendix 6.6).

EXHIBIT 6-8: OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PHASE 1) SUMMARY OF LOS

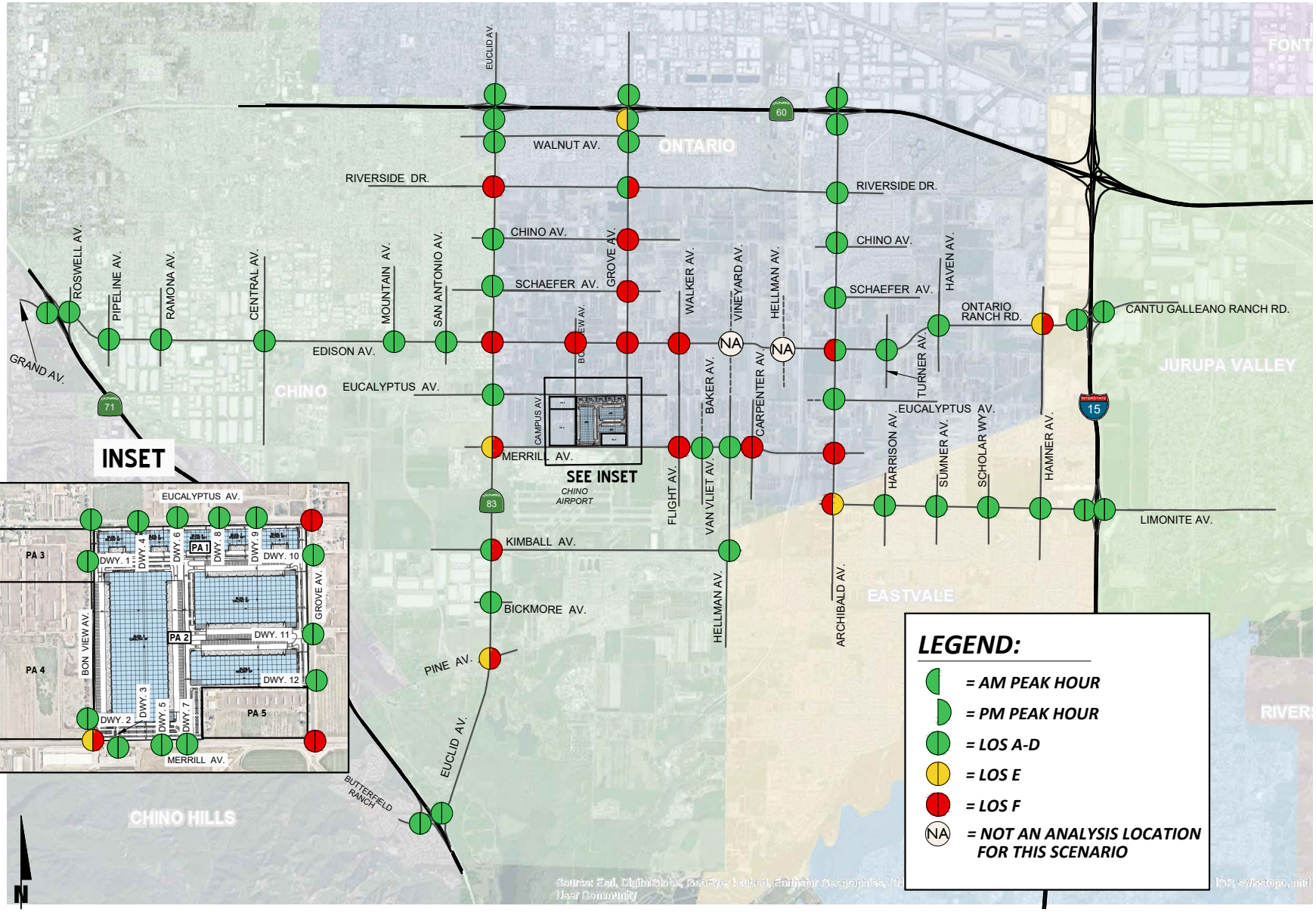

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EXHIBIT 6-9: OPENING YEAR CUMULATIVE (2024) WITH PROJECT (PROJECT BUILDOUT) SUMMARY OF LOS

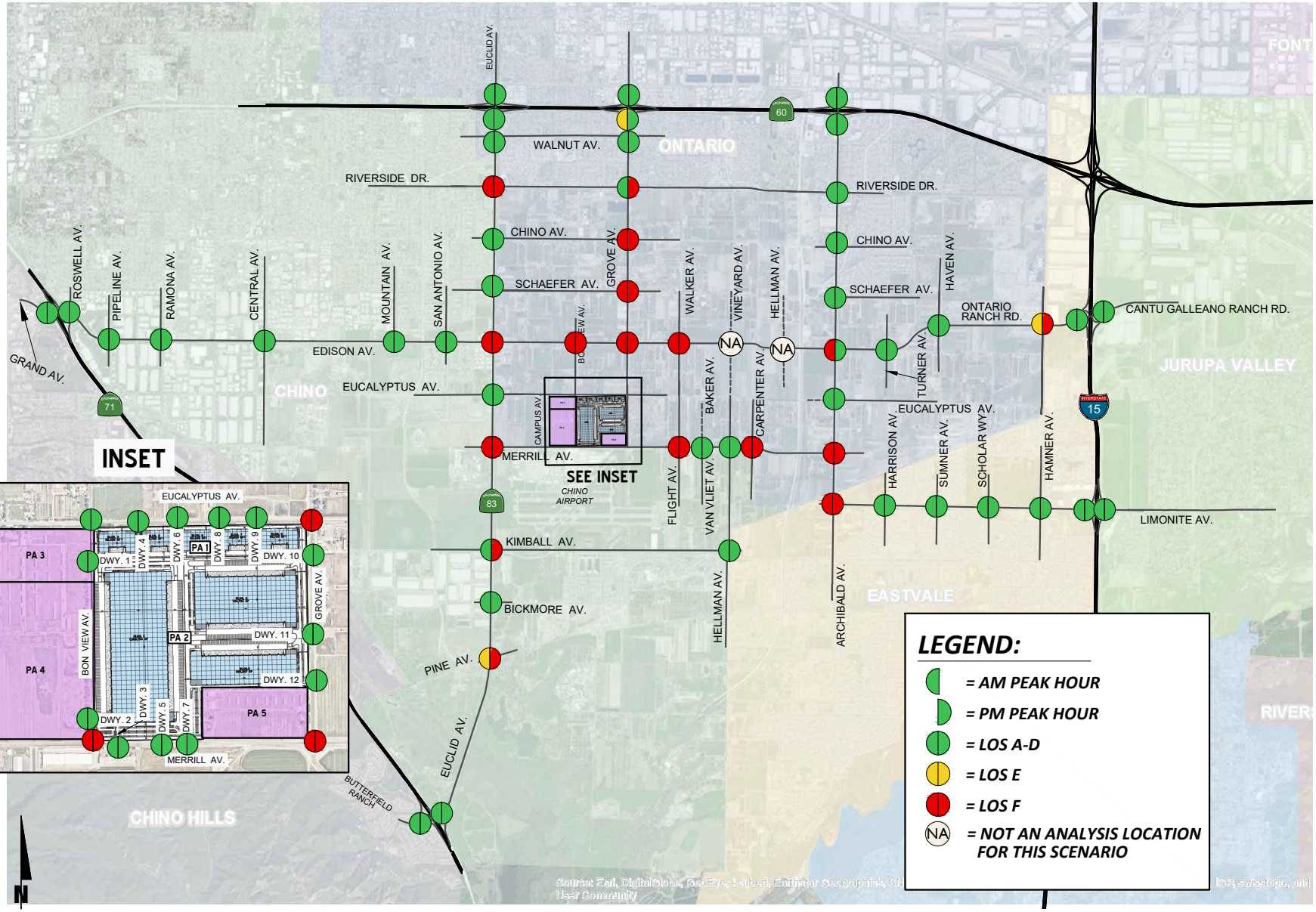

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Table 6-2

Intersection Analysis for Opening Year Cumulative (2024) Conditions - Project Buildout

#	Intersection	Traffic Control[2]	2024 Without Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	2024 With Project (Project Buildout) Delay[1] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard[3]
1	SR-71 SB Ramps & Grand Av.	TS	27.2	43.8	C	D	27.3	44.5	C	D	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	42.3	37.6	D	D	42.6	38.7	D	D	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	27.2	26.8	C	C	29.9	27.2	C	C	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	38.1	53.4	D	D	43.3	54.8	D	D	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	21.3	34.5	C	C	21.3	35.2	C	C	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	29.2	35.6	C	D	29.7	38.3	C	D	Chino / LOS D
7	Central Av. & Edison Av.	TS	45.0	51.0	D	D	46.8	54.7	D	D	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	25.8	22.6	C	C	26.1	22.9	C	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	11.3	9.8	B	A	11.3	9.9	B	A	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	27.6	28.0	C	C	30.3	49.0	C	D	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	45.3	27.8	D	C	53.5	37.6	D	D	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	35.1	39.0	C	D	36.3	40.8	D	D	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	**71.2**	**104.9**	**E**	**F**	**89.4**	**133.4**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	26.7	32.1	C	C	30.6	45.0	C	D	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	38.4	45.2	D	D	54.7	53.9	D	D	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	**69.0**	**81.9**	**E**	**F**	**97.2**	**178.8**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	20.9	19.5	C	B	26.4	25.4	C	C	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	**60.5**	**94.5**	**E**	**F**	**88.0**	**140.5**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	36.1	**70.5**	D	**E**	44.2	**86.2**	D	**F**	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	20.9	16.8	C	B	24.8	17.5	C	B	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	53.7	**99.0**	D	**F**	**76.2**	**126.6**	**E**	**F**	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.	**CSS**	Future Intersection				12.4	12.6	B	B	Chino, Caltrans / LOS D
23	Campus Av. & Merill Av.	**CSS**	Future Intersection				30.5	**65.6**	D	**F**	Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	**67.3**	71.2	**F**	F	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	10.1	11.2	B	B	16.0	13.0	C	B	Ontario / LOS E
26	Bon View Av. & Driveway 1	**CSS**	Future Intersection				10.7	11.4	B	B	Ontario / LOS E
27	Bon View Av. & Driveway 2	**CSS**	Future Intersection				9.4	9.2	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	30.5	**87.9**	D	**F**	**94.9**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	**CSS**	Future Intersection				25.7	30.5	D	D	Ontario / LOS E
30	Driveway 4 & Eucalyptus Av.	**CSS**	Future Intersection				11.6	13.0	B	B	Ontario / LOS E
31	Driveway 5 & Merrill Av.	**CSS**	Future Intersection				25.7	30.5	D	D	Ontario / LOS E
32	Driveway 6 & Eucalyptus Av.	**CSS**	Future Intersection				11.7	13.1	B	B	Ontario / LOS E
33	Driveway 7 & Merrill Av.	**TS**	Future Intersection				13.1	19.7	B	C	Ontario / LOS E
34	Driveway 8 & Eucalyptus Av.	**CSS**	Future Intersection				10.8	12.4	B	B	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	**CSS**	Future Intersection				9.6	11.7	A	B	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	34.8	22.3	C	C	37.6	24.3	D	C	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	**74.4**	42.2	**E**	D	**78.7**	48.8	**E**	D	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	32.4	29.5	C	C	33.7	30.2	C	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	51.9	65.1	D	E	73.7	**111.6**	E	**F**	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	32.5	46.4	D	E	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	18.7	38.7	C	E	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	22.7	**>100.0**	C	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
44	Grove Av. & Driveway 10	**CSS**	Future Intersection				10.2	9.9	B	A	Ontario / LOS E
45	Grove Av. & Driveway 11	**CSS**	Future Intersection				19.1	33.6	C	D	Ontario / LOS E
46	Grove Av. & Driveway 12	**CSS**	Future Intersection				9.8	10.3	A	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	**71.4**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E

Table 6-2

Intersection Analysis for Opening Year Cumulative (2024) Conditions - Project Buildout

#	Intersection	Traffic Control[2]	2024 Without Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	2024 With Project (Project Buildout) Delay[1] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard[3]
49	Walker Av./Flight Av. & Merrill Av.	CSS	**>100.0**	**69.4**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	14.9	21.4	B	C	18.5	31.9	C	D	Ontario / LOS E
51	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	20.5	22.4	C	C	31.3	34.9	D	D	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	23.4	18.8	C	B	24.1	19.0	C	B	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	19.2	25.5	B	C	21.2	25.7	C	C	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	18.8	19.4	B	B	18.8	19.4	B	B	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	57.5	67.7	E	E	64.2	78.1	E	E	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	25.4	20.7	C	C	30.6	23.5	C	C	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	0.7	1.0	A	A	0.8	1.6	A	A	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	**80.8**	39.1	**F**	D	**122.6**	59.8	**F**	E	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	7.0	3.9	A	A	7.4	4.3	A	A	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	77.6	**96.1**	E	**F**	**135.3**	**>200.0**	**F**	**F**	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	**107.8**	52.2	**F**	D	**140.4**	**88.4**	**F**	**F**	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	18.9	17.3	B	B	23.4	21.4	C	C	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	20.5	18.2	C	B	20.9	18.3	C	B	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	25.4	24.3	C	C	25.8	24.9	C	C	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	20.9	21.1	C	C	21.7	22.0	C	C	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	17.6	15.9	B	B	18.0	16.3	B	B	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	**64.0**	**158.3**	**E**	**F**	**77.5**	**166.4**	**E**	**F**	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	27.5	31.7	C	C	28.9	33.0	C	C	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	17.7	14.2	B	B	21.1	15.2	C	B	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	8.2	6.8	A	A	8.3	7.2	A	A	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	23.1	14.2	C	B	23.7	27.5	C	C	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	8.4	12.9	A	B	9.7	13.0	A	B	Jurupa Valley, Caltrans / LOS D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[2] CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement

6.7 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for Opening Year Cumulative (2024) Without Project and With Project (Phase 1 and Project Buildout) traffic conditions are shown on Tables 6-3 and 6-4. As shown on Tables 6-3 and 6-4, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows under Opening Year Cumulative (2024) Without Project and With Project (Phase 1 and Project Buildout) traffic conditions. Worksheets for Opening Year Cumulative (2024) Without and With Project (Phase 1 and Project Buildout) traffic conditions off-ramp queuing analysis are provided in Appendices 6.7, 6.8, and 6.9, respectively.

6.8 IMPROVEMENTS

6.8.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

Improvement strategies have been identified at intersections that have been identified as deficient, in an effort to reduce each location's peak hour delay and improve the associated LOS grade to an acceptable LOS (LOS D or better).

The effectiveness of the recommended improvement strategies to address Opening Year Cumulative (2024) traffic deficiencies are presented on Table 6-5. If not constructed by the Project, the Project Applicant shall contribute to these improvements through payment of City DIF fees or fair share contribution as identified on Table 1-2. Worksheets for Opening Year Cumulative (2024) Without and With Project (Phase 1 and Project Buildout) conditions, with improvements, HCM calculation worksheets are provided in Appendices 6.10, 6.11, and 6.12, respectively.

6.8.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES

As shown previously on Tables 6-3 and 6-4, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows for Opening Year Cumulative (2024) traffic conditions. As such, no improvements have been recommended.

Table 6-3

Peak Hour Freeway Off-Ramp Queuing Summary for Opening Year Cumulative (2024) Conditions - Phase 1

Intersection	Movement	Available Stacking Distance (Feet)	2024 Without Project				2024 With Project (Phase 1)			
			95th Percentile Queue (Feet)[3]		Acceptable?[1]		95th Percentile Queue (Feet)[3]		Acceptable?[1]	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	369	395	Yes	Yes	406	422	Yes	Yes
	SBL/T	1,235	374	396	Yes	Yes	412	423	Yes	Yes
	SBR	570	198	369	Yes	Yes	198	369	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	243	268	Yes	Yes	243	270	Yes	Yes
	SBL/T	1,560	245	267	Yes	Yes	245	270	Yes	Yes
	SBR	255	0	4	Yes	Yes	0	4	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	264	267 [2]	Yes	Yes	264	267 [2]	Yes	Yes
	NBL/T	1,300	271	421 [2]	Yes	Yes	271	421 [2]	Yes	Yes
	NBR	815	8	145	Yes	Yes	8	145	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	29	45	Yes	Yes	29	50	Yes	Yes
	NBR	420	472 [2]	961 [2]	Yes[3]	Yes[3]	616 [2]	1,080 [2]	Yes[3]	Yes[3]
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	384 [2]	320	Yes	Yes	384 [2]	320	Yes	Yes
	WBL/T/R	1,430	402 [2]	330 [2]	Yes	Yes	402 [2]	330 [2]	Yes	Yes
	WBR	400	258	240	Yes	Yes	260	240	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	418 [2]	408 [2]	Yes	Yes	418 [2]	408 [2]	Yes	Yes
	EBT/R	1,270	583 [2]	474 [2]	Yes	Yes	693 [2]	513 [2]	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	240	313	Yes	Yes	267	337	Yes	Yes
	WBR	250	706 [2]	282	Yes[3]	Yes[3]	706 [2]	287	Yes[3]	Yes[3]
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	917 [2]	567 [2]	Yes	Yes	917 [2]	567 [2]	Yes	Yes
	EBR	315	76	292	Yes	Yes	118	373 [2]	Yes	Yes[3]
Archibald Avenue & SR-60 WB Ramps	WBL	1,389	340 [2]	213	Yes	Yes	385 [2]	224	Yes	Yes
	WBL/T/R	1,389	313	217	Yes	Yes	384 [2]	225	Yes	Yes
	WBR	250	241	55	Yes	Yes	266	55	Yes[3]	Yes
Archibald Avenue & SR-60 EB Ramps	EBL	1,268	249	83	Yes	Yes	249	83	Yes	Yes
	EBL/T/R	1,268	179	208	Yes	Yes	195	208	Yes	Yes
	EBR	350	165	196	Yes	Yes	182	196	Yes	Yes
I-15 SB Ramps & Cantu Galleano	SBL	1,440	117	101	Yes	Yes	117	101	Yes	Yes
Ranch Rd.	SBL/R	560	502 [2]	263	Yes	Yes	564 [2]	320 [2]	Yes[3]	Yes
	SBR	460	461 [2]	234	Yes[3]	Yes	523 [2]	261	Yes[3]	Yes
I-15 SB Ramps & Limonite Avenue	SBL	400	96	85	Yes	Yes	96	85	Yes	Yes
	SBL/T/R	400	96	86	Yes	Yes	97	86	Yes	Yes
	SBR	1,200	92	168	Yes	Yes	107	171	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	109 [2]	71	Yes	Yes	123 [2]	75	Yes	Yes
	NBR	440	54	46	Yes	Yes	54	47	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	115	156	Yes	Yes	130	161	Yes	Yes
	NBL/T/R	1,235	115	158	Yes	Yes	130	164	Yes	Yes
	NBR	400	46	296	Yes	Yes	46	298	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

Table 6-4

Peak Hour Freeway Off-Ramp Queuing Summary for Opening Year Cumulative (2024) Conditions - Project Buildout

Intersection	Movement	Available Stacking Distance (Feet)	2024 Without Project				2024 With Project (Project Buildout)			
			95th Percentile Queue (Feet)[3]		Acceptable?[1]		95th Percentile Queue (Feet)[3]		Acceptable?[1]	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	369	395	Yes	Yes	422	427	Yes	Yes
	SBL/T	1,235	374	396	Yes	Yes	427	428	Yes	Yes
	SBR	570	198	369	Yes	Yes	198	369	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	243	268	Yes	Yes	243	268	Yes	Yes
	SBL/T	1,560	245	267	Yes	Yes	245	267	Yes	Yes
	SBR	255	0	4	Yes	Yes	0	4	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	264	267 [2]	Yes	Yes	264	267 [2]	Yes	Yes
	NBL/T	1,300	271	421 [2]	Yes	Yes	271	421 [2]	Yes	Yes
	NBR	815	8	145	Yes	Yes	8	145	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	29	45	Yes	Yes	29	45	Yes	Yes
	NBR	420	472 [2]	961 [2]	Yes[3]	Yes[3]	676 [2]	1,069 [2]	Yes[3]	Yes[3]
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	384 [2]	320	Yes	Yes	384 [2]	320	Yes	Yes
	WBL/T/R	1,430	402 [2]	330 [2]	Yes	Yes	402 [2]	330 [2]	Yes	Yes
	WBR	400	258	240	Yes	Yes	260	240	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	418 [2]	408 [2]	Yes	Yes	418 [2]	408 [2]	Yes	Yes
	EBT/R	1,270	583 [2]	474 [2]	Yes	Yes	768 [2]	536 [2]	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	240	313	Yes	Yes	271	339	Yes	Yes
	WBR	250	706 [2]	282 [0]	Yes[3]	Yes[3]	706 [2]	290	Yes[3]	Yes[3]
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	917 [2]	567 [2]	Yes	Yes	917 [2]	567	Yes	Yes
	EBR	315	76	292	Yes	Yes	131	381	Yes	Yes[3]
Archibald Avenue & SR-60 WB Ramps	WBL	1,389	340 [2]	213	Yes	Yes	421 [2]	226	Yes	Yes
	WBL/T/R	1,389	313	217	Yes	Yes	407 [2]	230	Yes	Yes
	WBR	250	241	55	Yes	Yes	281	55	Yes[3]	Yes
Archibald Avenue & SR-60 EB Ramps	EBL	1,268	249	83	Yes	Yes	249	83	Yes	Yes
	EBL/T/R	1,268	179	208	Yes	Yes	204	208	Yes	Yes
	EBR	350	165	196	Yes	Yes	188	196	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	117	101	Yes	Yes	117	101	Yes	Yes
	SBL/R	560	502 [2]	263	Yes	Yes	603 [2]	364 [2]	Yes[3]	Yes
	SBR	460	461 [2]	234	Yes[3]	Yes	561 [2]	271	Yes[3]	Yes
I-15 SB Ramps & Limonite Avenue	SBL	400	96	85	Yes	Yes	95	85	Yes	Yes
	SBL/T/R	400	96	86	Yes	Yes	97	86	Yes	Yes
	SBR	1,200	92 [0]	168	Yes	Yes	118	173	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	109 [2]	71	Yes	Yes	123 [2]	75	Yes	Yes
	NBR	440	54	46	Yes	Yes	54	47	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	115	156	Yes	Yes	141	166	Yes	Yes
	NBL/T/R	1,235	115	158	Yes	Yes	141	168	Yes	Yes
	NBR	400	46	296	Yes	Yes	47	299	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

Table 6-5

Intersection Analysis for Opening Year Cumulative (2024) Conditions With Improvements

#	Intersection	Traffic Control[3]	Intersection Approach Lanes[1] Northbound L	T	R	Southbound L	T	R	Eastbound L	T	R	Westbound L	T	R	Delay[2] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard
13	Euclid Av. (SR-83) & Riverside Dr.																		
	- Without Project[4]	TS	1	**3**	0	1	**3**	1>	1	**2**	**1**	1	2	d	41.4	38.1	D	D	Chino, Ontario,
	- With Project (Phase 1)[4]	TS	1	**3**	0	1	**3**	1>	1	**2**	**1**	1	2	d	42.2	39.5	D	D	Caltrans / LOS D
	- With Project (Project Buildout)[4]	TS	1	**3**	0	1	**3**	1>	1	**2**	**1**	1	2	d	42.4	40.1	D	D	
16	Euclid Av. (SR-83) & Edison Av.																		
	- Without Project	TS	1	**3**	1	1	**3**	1	1	1	1	1	1	**1**	41.6	43.8	D	D	Chino, Ontario,
	- With Project (Phase 1)	TS	1	**3**	1	1	**3**	1	1	1	1	1	1	**1**	44.8	49.9	D	D	Caltrans / LOS D
	- With Project (Project Buildout)	TS	1	**3**	1	1	**3**	1	1	1	1	1	1	**1**	47.2	54.7	D	D	
18	Euclid Av. (SR-83) & Merrill Av.																		
	- Without Project	TS	1	**3**	1	1	**3**	0	0	1	0	**1**	1	**1>**	18.1	32.0	B	C	Chino, Ontario,
	- With Project (Phase 1)	TS	1	**3**	1	1	**3**	0	0	1	0	**1**	1	**1>**	22.2	47.2	C	D	Caltrans / LOS D
	- With Project (Project Buildout)	TS	1	**3**	1	1	**3**	0	0	1	0	**1**	1	**1>**	25.5	51.1	C	D	
19	Euclid Av. (SR-83) & Kimball Av.																		
	- Without Project	TS	1	**3**	1>	2	**3**	1>	2	2	0	1	2	0	29.2	49.7	C	D	Chino, Caltrans
	- With Project (Phase 1)	TS	1	**3**	1>	2	**3**	1>	2	2	0	1	2	0	30.8	51.8	C	D	/ LOS D
	- With Project (Project Buildout)	TS	1	**3**	1>	2	**3**	1>	2	2	0	1	2	0	31.4	52.1	C	D	
21	Euclid Av. (SR-83) & Pine Av.																		
	- Without Project	TS	1	**3**	**1>>**	1	**3**	0	1	**2**	1	2	1	0	32.8	28.4	C	C	Chino, Caltrans
	- With Project (Phase 1)	TS	1	**3**	**1>>**	1	**3**	0	1	**2**	1	2	1	0	35.6	29.7	D	C	/ LOS D
	- With Project (Project Buildout)	TS	1	**3**	**1>>**	1	**3**	0	1	**2**	1	2	1	0	36.7	30.2	D	C	
23	Campus Av. & Merrill Av.																		
	- Without Project						Not Applicable												Chino, Ontario /
	- With Project (Phase 1)						Not Applicable												LOS D
	- With Project (Project Buildout)	**TS**	0	0	0	0	**1**	0	**1**	1	0	0	1	0	15.0	14.3	B	B	
24	Bon View Av. & Edison Av.																		
	- Without Project	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	10.6	10.6	B	B	Ontario / LOS E
	- With Project (Phase 1)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	11.2	11.2	B	B	
	- With Project (Project Buildout)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	11.4	11.4	B	B	
28	Bon View Av. & Merrill Av.																		
	- Without Project	**TS**	0	0	0	0	1	0	0	1	0	0	**2**	0	6.9	8.3	A	A	Chino, Ontario /
	- With Project (Phase 1)	**TS**	0	0	0	0	1	0	**1**	1	0	0	**2**	**1**	10.4	13.2	B	B	LOS D
	- With Project (Project Buildout)	**TS**	0	0	0	0	1	0	**1**	1	0	0	**2**	**1**	10.8	14.5	A	B	
37	Grove Av. & SR-60 EB Ramps																		
	- Without Project	TS	0	2	0	1	2	0	**1**	1	1	0	0	0	36.2	33.9	D	C	Ontario,
	- With Project (Phase 1)	TS	0	2	0	1	2	0	**1**	1	1	0	0	0	36.4	37.2	D	D	Caltrans / LOS D
	- With Project (Project Buildout)	TS	0	2	0	1	2	0	**1**	1	1	0	0	0	36.6	38.0	D	D	
39	Grove Av. & Riverside Av.																		
	- Without Project						Not Applicable												Ontario / LOS E
	- With Project (Phase 1)	TS	1	**2**	0	1	**2**	1	1	1	0	1	2	0	44.6	57.8	D	E	
	- With Project (Project Buildout)	TS	1	**2**	0	1	**2**	1	1	1	0	1	2	0	45.0	59.4	D	E	
40	Grove Av. & Chino Av.																		
	- Without Project						Not Applicable												Ontario / LOS E
	- With Project (Phase 1)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	11.7	14.7	B	B	
	- With Project (Project Buildout)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	12.0	15.5	B	B	
41	Grove Av. & Schaefer Av.																		
	- Without Project						Not Applicable												Ontario / LOS E
	- With Project (Phase 1)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	11.2	13.4	B	B	
	- With Project (Project Buildout)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	11.3	14.1	B	B	

Table 6-5

Intersection Analysis for Opening Year Cumulative (2024) Conditions With Improvements

#	Intersection	Traffic Control[3]	Intersection Approach Lanes[1] Northbound L	T	R	Southbound L	T	R	Eastbound L	T	R	Westbound L	T	R	Delay[2] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard
42	Grove Av. & Edison Av.																		
	- Without Project	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	1	0	**1**	1	0	23.2	29.9	C	C	Ontario / LOS E
	- With Project (Phase 1)	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	1	0	**1**	1	0	33.1	41.2	C	D	
	- With Project (Project Buildout)	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	1	0	**1**	1	0	35.4	47.4	D	D	
43	Grove Av. & Eucalyptus Av.																		
	- Without Project	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	1	0	**1**	1	0	14.4	22.8	B	C	Ontario / LOS E
	- With Project (Phase 1)	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	1	0	**1**	1	0	15.1	57.6	B	E	
	- With Project (Project Buildout)	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	**2**	0	**1**	**2**	0	15.1	76.6	B	E	
47	Grove Av. & Merrill Av.																		
	- Without Project	**TS**	0	0	0	**1**	**0**	**1**	**1**	1	0	0	**2**	0	15.0	14.3	B	B	Chino, Ontario /
	- With Project (Phase 1)	**TS**	0	0	0	**1**	**0**	**1**	**1**	1	0	0	**2**	0	20.1	24.0	C	C	LOS D
	- With Project (Project Buildout)	**TS**	0	0	0	**1**	**0**	**1**	**1**	1	0	0	**2**	0	22.1	25.8	C	C	
48	Walker Av. & Edison Av.																		
	- Without Project	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	10.7	9.9	B	A	Ontario / LOS E
	- With Project (Phase 1)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	15.3	12.1	B	B	
	- With Project (Project Buildout)	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	35.9	26.6	D	C	
49	Walker Av./Flight Av. & Merrill Av.																		
	- Without Project	**TS**	**1**	**1**	**0**	**1**	**1**	0	**1**	1	1	1	**2**	0	14.8	15.7	B	B	Chino, Ontario /
	- With Project (Phase 1)	**TS**	**1**	**1**	**0**	**1**	**1**	0	**1**	1	1	1	**2**	0	15.2	21.9	B	C	LOS D
	- With Project (Project Buildout)	**TS**	**1**	**1**	**0**	**1**	**1**	0	**1**	1	1	1	**2**	0	15.8	32.5	B	C	
54	Carpenter Av. & Merrill Av.																		
	- Without Project	**TS**	0	1	0	0	1	0	1	1	1	1	1	0	11.0	11.3	B	B	Chino, Ontario /
	- With Project (Phase 1)	**TS**	0	1	0	0	1	0	1	1	1	1	1	0	17.3	14.9	B	B	LOS D
	- With Project (Project Buildout)	**TS**	0	1	0	0	1	0	1	1	1	1	1	0	28.5	26.6	C	C	
61	Archibald Av. & Ontario Ranch Rd.																		
	- Without Project	TS	1	2	1>>	1	2	1	2	2	1>>	2	**2**	1	42.9	38.9	D	D	Ontario / LOS E
	- With Project (Phase 1)	TS	1	2	1>>	1	2	1	2	2	1>>	2	**2**	1	66.5	49.2	E	D	
	- With Project (Project Buildout)	TS	1	2	1>>	1	2	1	2	2	1>>	2	**2**	1	78.0	55.6	E	E	
63	Archibald Av. & Merrill Av.																		
	- Without Project	TS	**2**	2	1	2	2	**1>**	**2**	1	1	1	1	1	24.6	32.1	C	C	Ontario / LOS E
	- With Project (Phase 1)	TS	**2**	2	1	2	2	**1>**	**2**	1	1	1	1	1	27.4	49.0	C	D	
	- With Project (Project Buildout)	TS	**2**	2	1	2	2	**1>**	**2**	1	1	1	1	1	30.4	70.5	C	E	
64	Archibald Av. & Limonite Av.																		
	- Without Project	TS	0	1	1>	**2**	1	0	0	0	0	1	0	**2>**	34.8	19.1	C	B	Eastvale / LOS D
	- With Project (Phase 1)	TS	0	1	1>	**2**	1	0	0	0	0	1	0	**2>**	41.2	21.9	D	C	
	- With Project (Project Buildout)	TS	0	1	1>	**2**	1	0	0	0	0	1	0	**2>**	43.6	23.3	D	C	
70	Hamner Av. & Ontario Ranch Rd.																		
	- Without Project[5]	TS	2	3	1	2	**3**	**0**	2	4	0	2	**3**	1	45.9	66.6	D	E	Eastvale,
	- With Project (Phase 1)[5]	TS	2	3	1	2	**3**	**0**	2	4	0	2	**3**	1	49.6	71.1	D	E	Ontario / LOS D
	- With Project (Project Buildout)[5]	TS	2	3	1	2	**3**	**0**	2	4	0	2	**3**	1	51.3	73.7	D	E	

[1] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; d= Defacto Right Turn Lane; **1** = Improvement

[2] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[3] AWS = All-Way Stop; CSS = Cross-Street Stop; TS = Traffic Signal; **TS** = Improvement

[4] Improvement includes restriping the northbound approach to provide one left turn lane, two through lanes, and one shared through-right turn lane.

[5] Improvement includes modifying the traffic signal to extend the cycle length to 130 seconds.

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7 HORIZON YEAR (2040) TRAFFIC CONDITIONS

This section discusses the methods used to develop Horizon Year (2040) Without and With Project traffic forecasts, and the resulting intersection operations, off-ramp queuing, and traffic signal warrant analyses.

7.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Horizon Year (2040) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Horizon Year conditions only (e.g., intersection and roadway improvements along the Project's frontage and driveways).
- Driveways and those facilities assumed to be constructed by cumulative developments to provide site access are also assumed to be in place for Horizon Year conditions only (e.g., intersection and roadway improvements along the cumulative development's frontages and driveways such as the northern extension of Meadow Valley Avenue on Kimball Avenue and the northern extension of Hellman Avenue north of Kimball Avenue).
- The Pine Avenue extension between its El Prado Road and the SR-71 Freeway.
- The Kimball Avenue/Limonite Avenue extension between Hellman Avenue and Archibald Avenue.
- Other parallel facilities, that although not evaluated for the purposes of this analysis, are anticipated to be in place for Horizon Year traffic conditions and would affect the travel patterns within the study area (e.g., new future roadways within the New Model Colony area such as Schaefer Avenue east of Archibald Avenue, Eucalyptus Avenue east of Archibald Avenue, Merrill Avenue east of Archibald Avenue, The Preserve Specific Plan roadway network within the City of Chino, etc.).

7.2 HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes the refined post-process volumes obtained from the SBTAM/RivTAM (see Section 4.7 *Horizon Year (2040) Volume Development* of this TA for a detailed discussion on the post-processing methodology). The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Horizon Year (2040) Without Project traffic conditions are shown on Exhibits 7-1 and 7-2, respectively.

EXHIBIT 7-1: HORIZON YEAR (2040) WITHOUT PROJECT AVERAGE DAILY TRAFFIC (ADT)

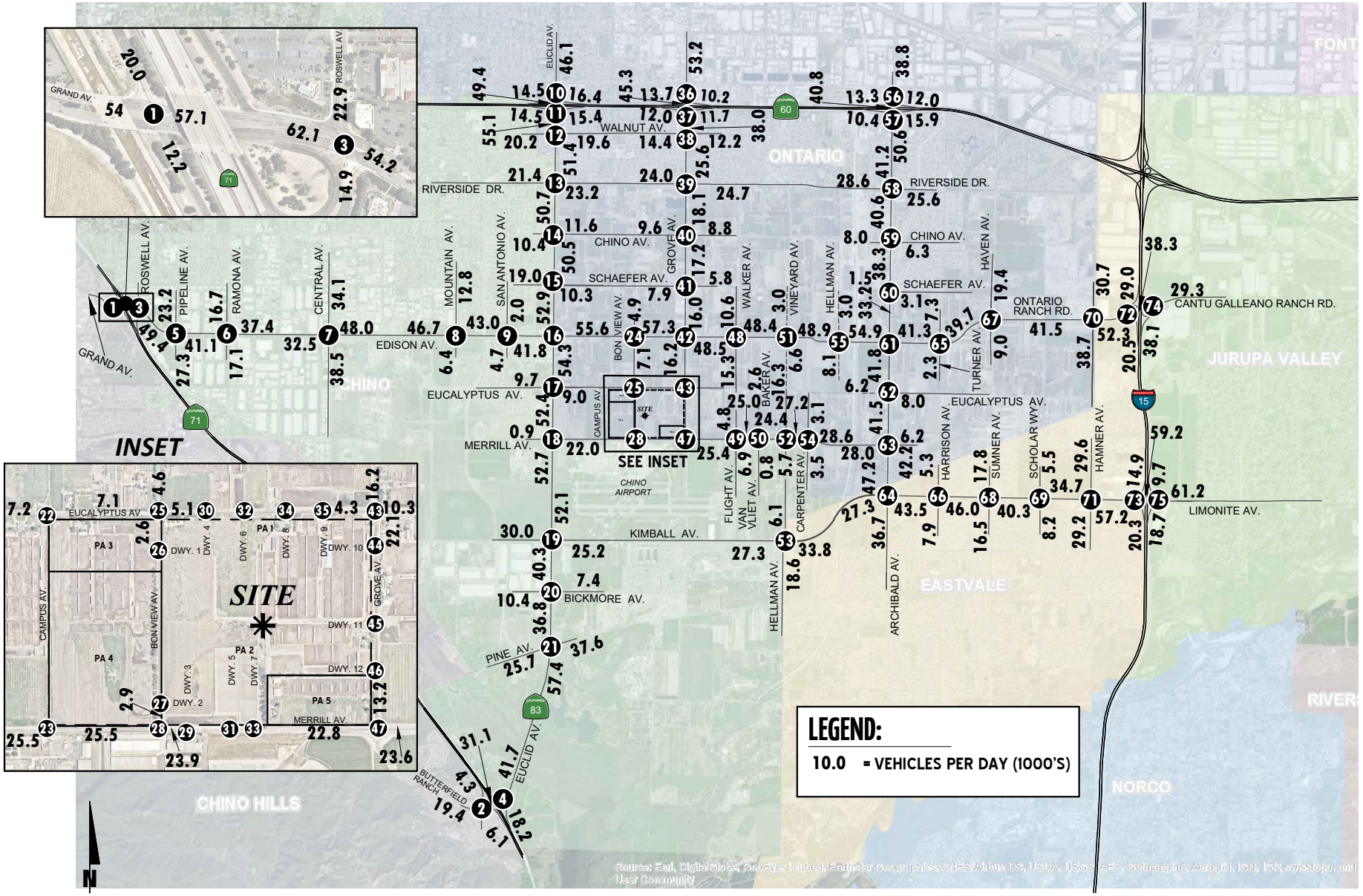
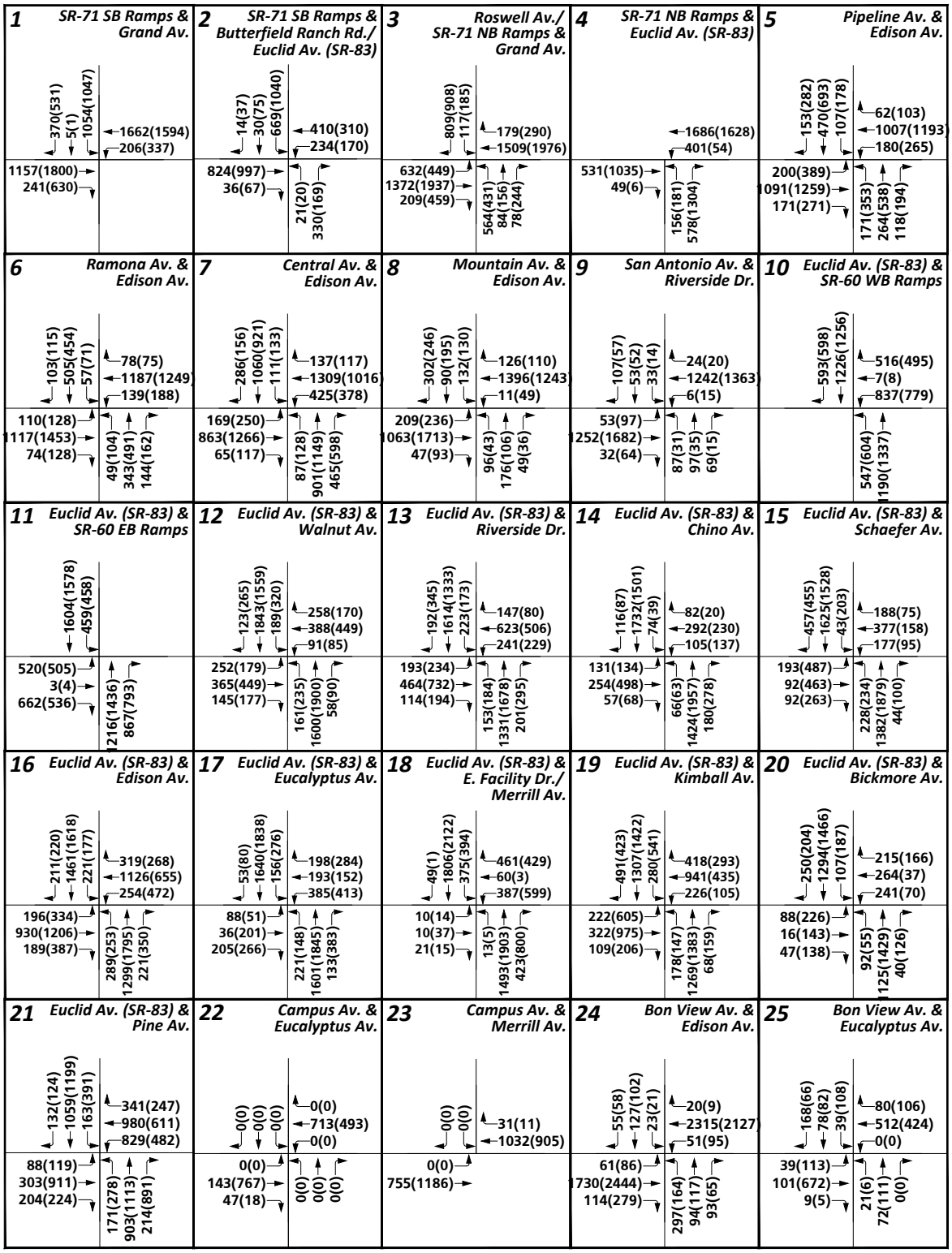


EXHIBIT 7-2 (1OF3): HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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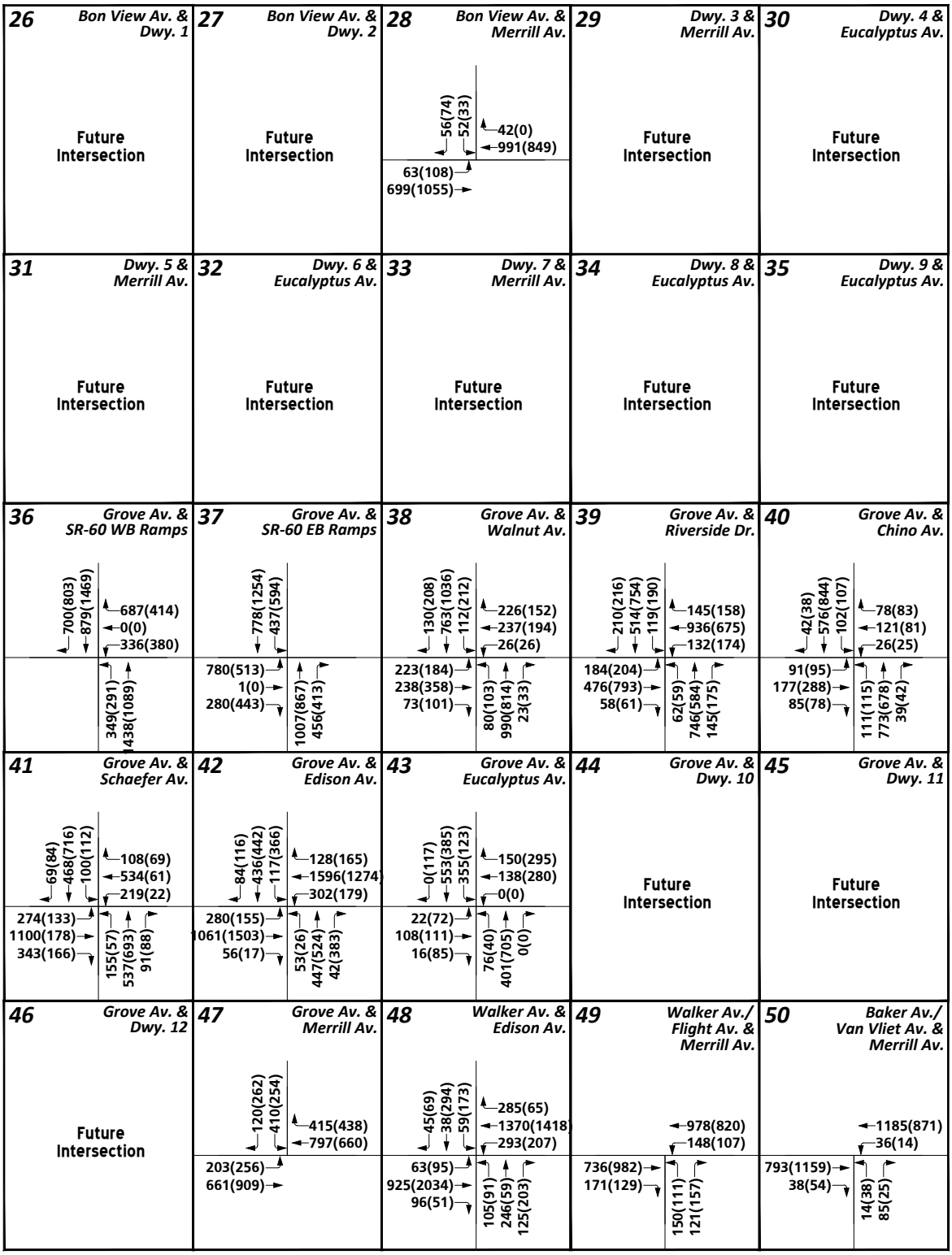
EXHIBIT 7-2 (2OF3): HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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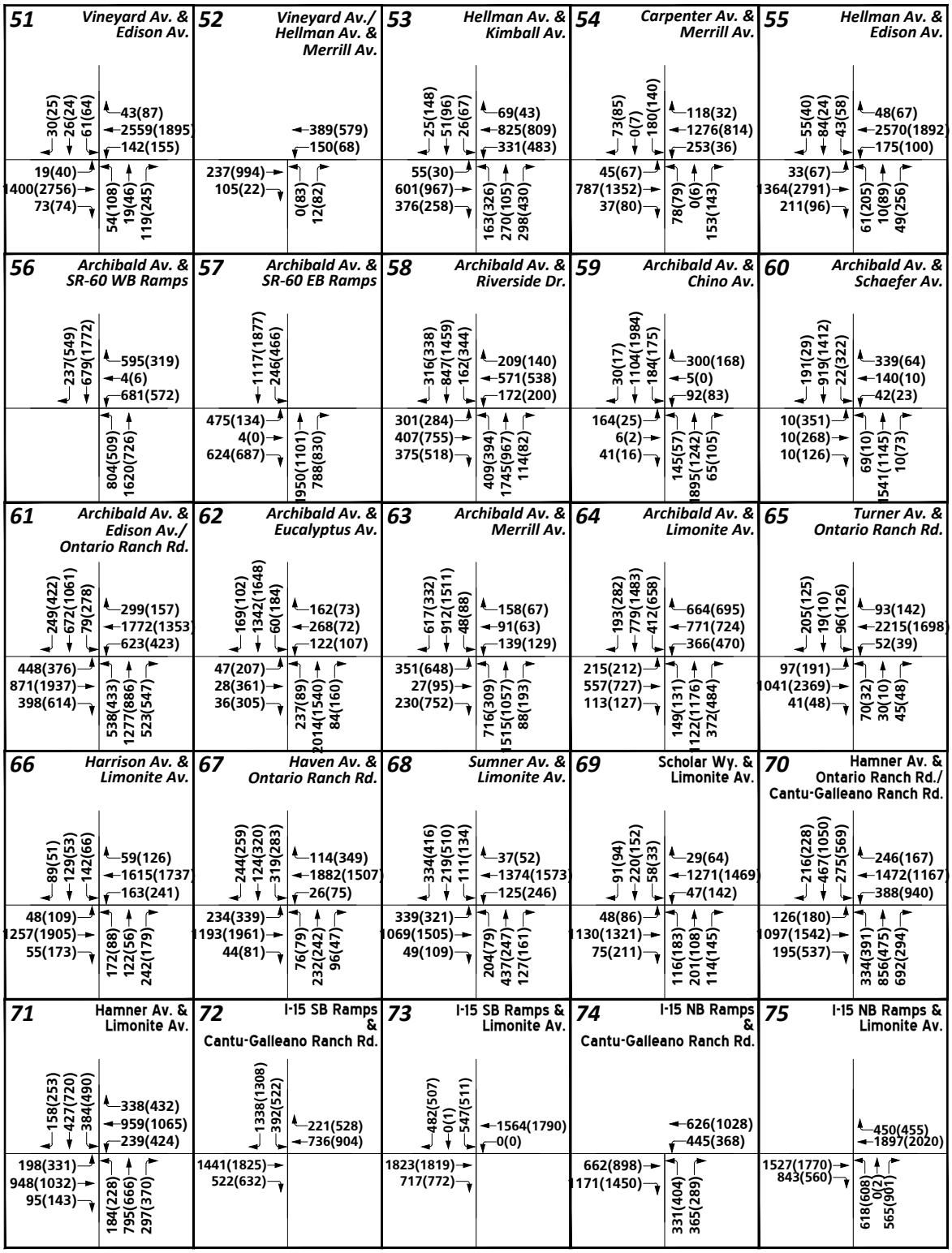
EXHIBIT 7-2 (3OF3): HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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7.3 HORIZON YEAR (2040) WITH PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes the refined post-process volumes obtained from the SBTAM/RivTAM, plus the traffic generated by the proposed Project. Horizon Year (2040) With Project traffic forecasts assumes buildout of the Project. The weekday ADT and weekday AM and PM peak hour volumes which can be expected for Horizon Year (2040) With Project traffic conditions are shown on Exhibits 7-3 and 7-4, respectively.

7.4 INTERSECTION OPERATIONS ANALYSIS

7.4.1 HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC CONDITIONS

LOS calculations were conducted for the study intersections to evaluate their operations under Horizon Year (2040) Without Project conditions with roadway and intersection geometrics consistent with Section 7.1 *Roadway Improvements*. As shown on Table 7-1, the following additional study area intersections are anticipated to operate at an unacceptable LOS under Horizon Year (2040) Without Project traffic conditions:

- SR-71 Southbound Ramps & Grand Avenue (#1) – LOS E PM peak hour only
- SR-71 Southbound Ramps & Butterfield Ranch Road (#2) – LOS E AM and PM peak hours
- SR-71 Northbound Ramps & Edison Avenue (#3) – LOS F AM peak hour only
- Central Avenue & Edison Avenue (#7) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & SR-60 Westbound Ramps (#10) –LOS E AM and PM peak hours
- Euclid Avenue (SR-83) & SR-60 Eastbound Ramps (#11) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Riverside Drive (#13) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Chino Avenue (#14) – LOS E AM peak hour; LOS F PM peak hour
- Euclid Avenue (SR-83) & Schaefer Avenue (#15) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Edison Avenue (#16) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Eucalyptus Avenue (#17) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Merrill Avenue (#18) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Kimball Avenue (#19) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Bickmore Avenue (#20) – LOS E AM and PM peak hours
- Euclid Avenue (SR-83) & Pine Avenue (#21) – LOS F AM and PM peak hours
- Bon View Avenue & Edison Avenue (#24) – LOS F AM and PM peak hours
- Bon View Avenue & Eucalyptus Avenue (#25) – LOS F PM peak hour only
- Bon View Avenue & Merrill Avenue (#28) – LOS F AM and PM peak hours
- Grove Avenue & SR-60 Westbound Ramps (#36) – LOS E AM peak hour only
- Grove Avenue & SR-60 Eastbound Ramps (#37) – LOS F AM and PM peak hours
- Grove Avenue & Riverside Drive (#39) – LOS F AM and PM peak hours
- Grove Avenue & Chino Avenue (#40) – LOS F AM and PM peak hours

- Grove Avenue & Schaefer Avenue (#41) – LOS F AM and PM peak hours
- Grove Avenue & Edison Avenue (#42) – LOS F AM and PM peak hours
- Grove Avenue & Eucalyptus Avenue (#43) – LOS F AM and PM peak hours
- Grove Avenue & Merrill Avenue (#47) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#48) – LOS F AM and PM peak hours
- Walker Avenue/Flight Avenue & Merrill Avenue (#49) – LOS F AM and PM peak hours
- Van Vliet Avenue/Baker Avenue & Merrill Avenue (#50) – LOS F PM peak hour only
- Vineyard Avenue & Edison Avenue (#51) – LOS F PM peak hour only
- Vineyard Avenue/Hellman Avenue & Merrill Avenue (#52) – LOS F AM and PM peak hours
- Hellman Avenue & Kimball Avenue (#53) – LOS F PM peak hour only
- Carpenter Avenue & Merrill Avenue (#54) – LOS F AM and PM peak hours
- Hellman Avenue & Edison Avenue (#55) – LOS F PM peak hour only
- Archibald Avenue & Riverside Drive (#58) – LOS F AM and PM peak hours
- Archibald Avenue & Schaefer Avenue (#60) – LOS F PM peak hour only
- Archibald Avenue & Ontario Ranch Road (#61) – LOS F AM and PM peak hours
- Archibald Avenue & Eucalyptus Avenue (#62) – LOS F AM and PM peak hours
- Archibald Avenue & Merrill Avenue (#63) – LOS F AM and PM peak hours
- Archibald Avenue & Limonite Avenue (#64) – LOS F AM and PM peak hours
- Turner Avenue & Ontario Ranch Road (#65) – LOS F AM and PM peak hours
- Haven Avenue & Ontario Ranch Road (#67) – LOS F AM peak hour only
- Hamner Avenue & Ontario Ranch Road (#70) – LOS F AM and PM peak hours

A summary of the peak hour intersection LOS for Horizon Year (2040) Without Project conditions is shown on Exhibit 7-5. The intersection operations analysis worksheets for Horizon Year (2040) Without Project traffic conditions are included in Appendix 7.1 of this TA.

7.4.2 HORIZON YEAR (2040) WITH PROJECT TRAFFIC CONDITIONS

As shown on Table 7-1 and illustrated on Exhibit 7-6, the following study area intersection is anticipated to operate at a deficient LOS during one or both peak hours for Horizon Year (2040) With Project traffic conditions with the addition of Project traffic, in addition to the locations identified above for Horizon Year (2040) Without Project traffic conditions.

- Campus Avenue & Eucalyptus Avenue (#22) – LOS F PM peak hour only
- Campus Avenue & Merrill Avenue (#23) – LOS F AM and PM peak hours

The intersection operations analysis worksheets for Horizon Year (2040) With Project traffic conditions are included in Appendix 7.2 of this TA.

EXHIBIT 7-3: HORIZON YEAR (2040) WITH PROJECT AVERAGE DAILY TRAFFIC (ADT)

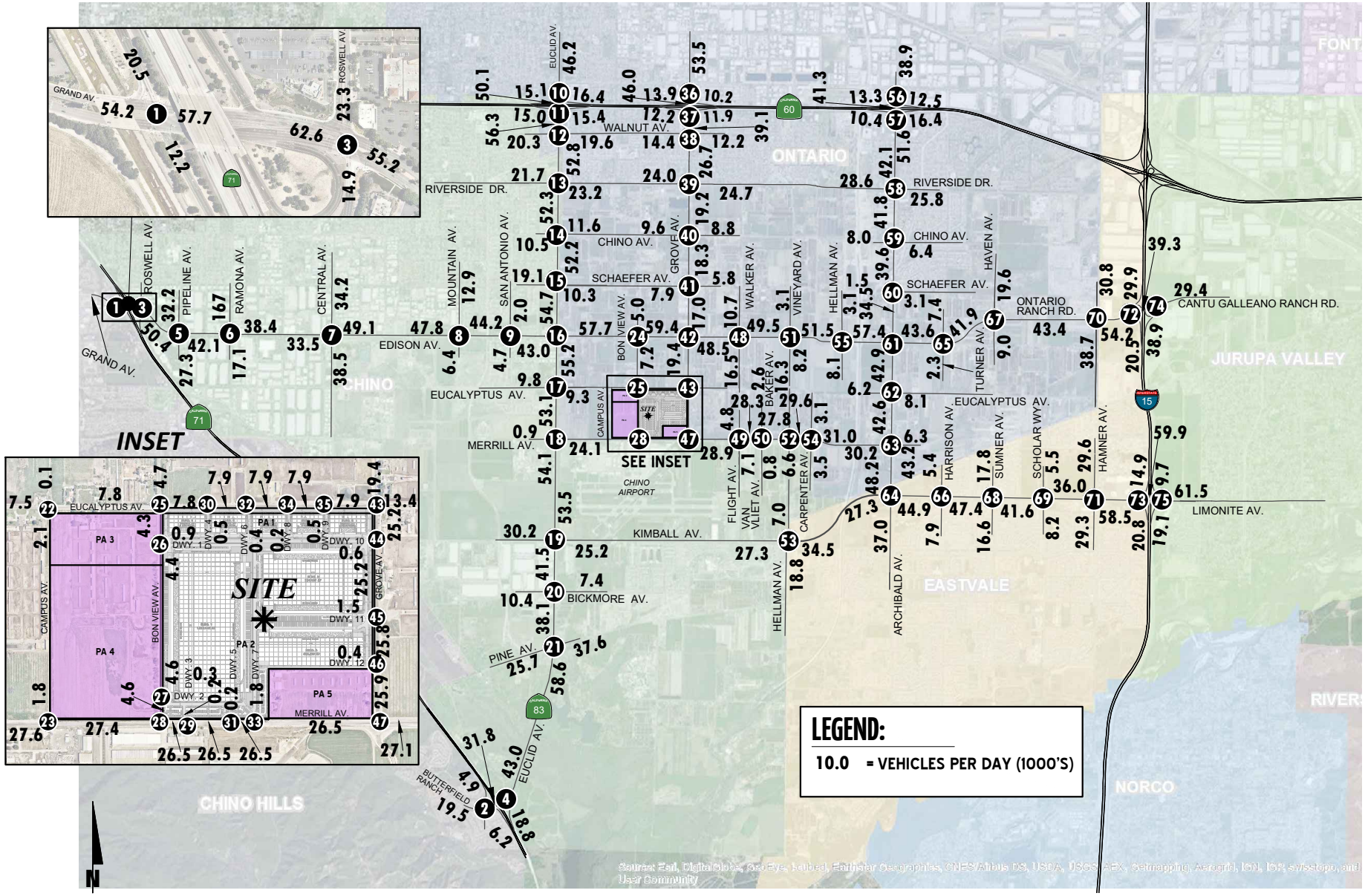
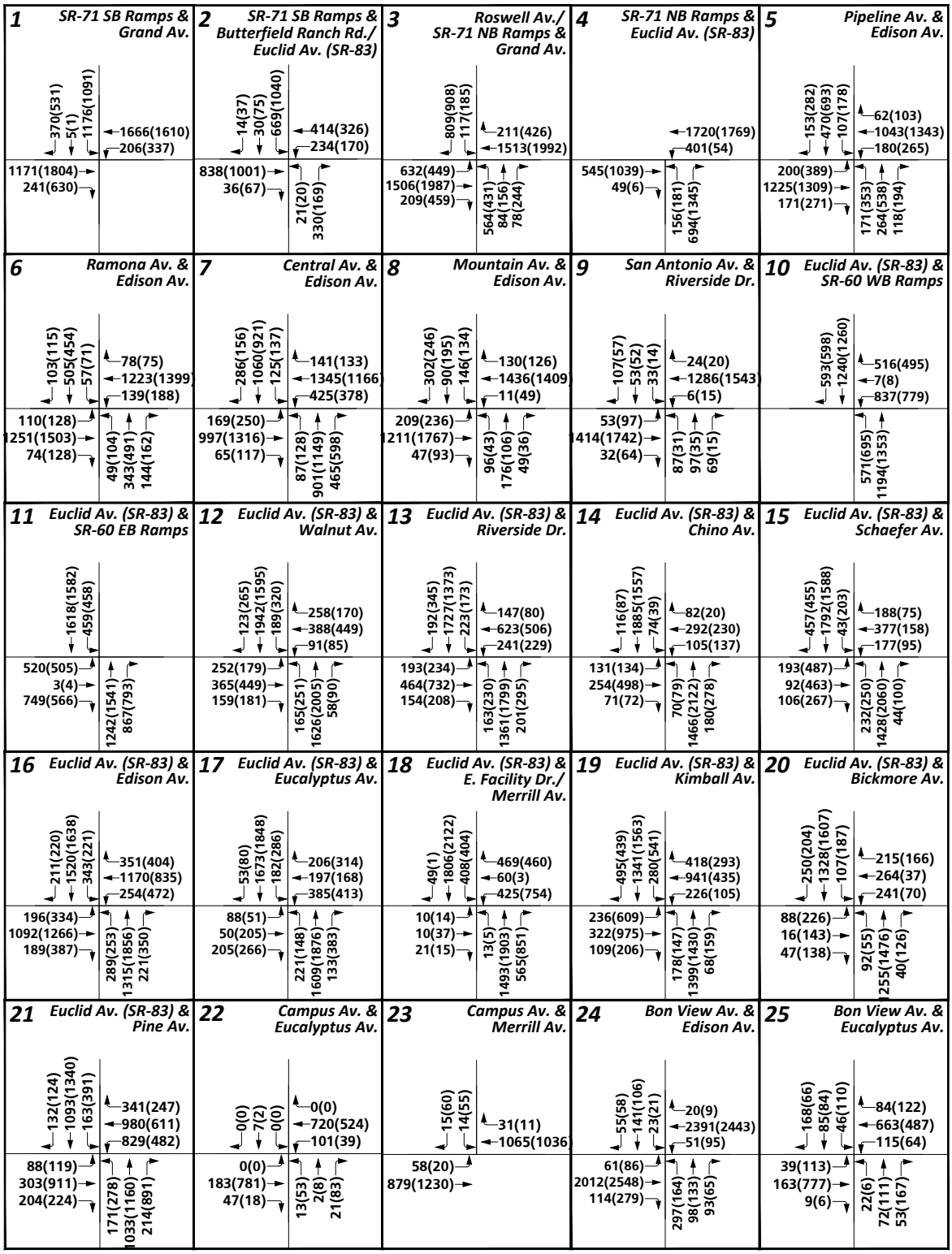


EXHIBIT 7-4 (1OF3): HORIZON YEAR (2040) WITH PROJECT TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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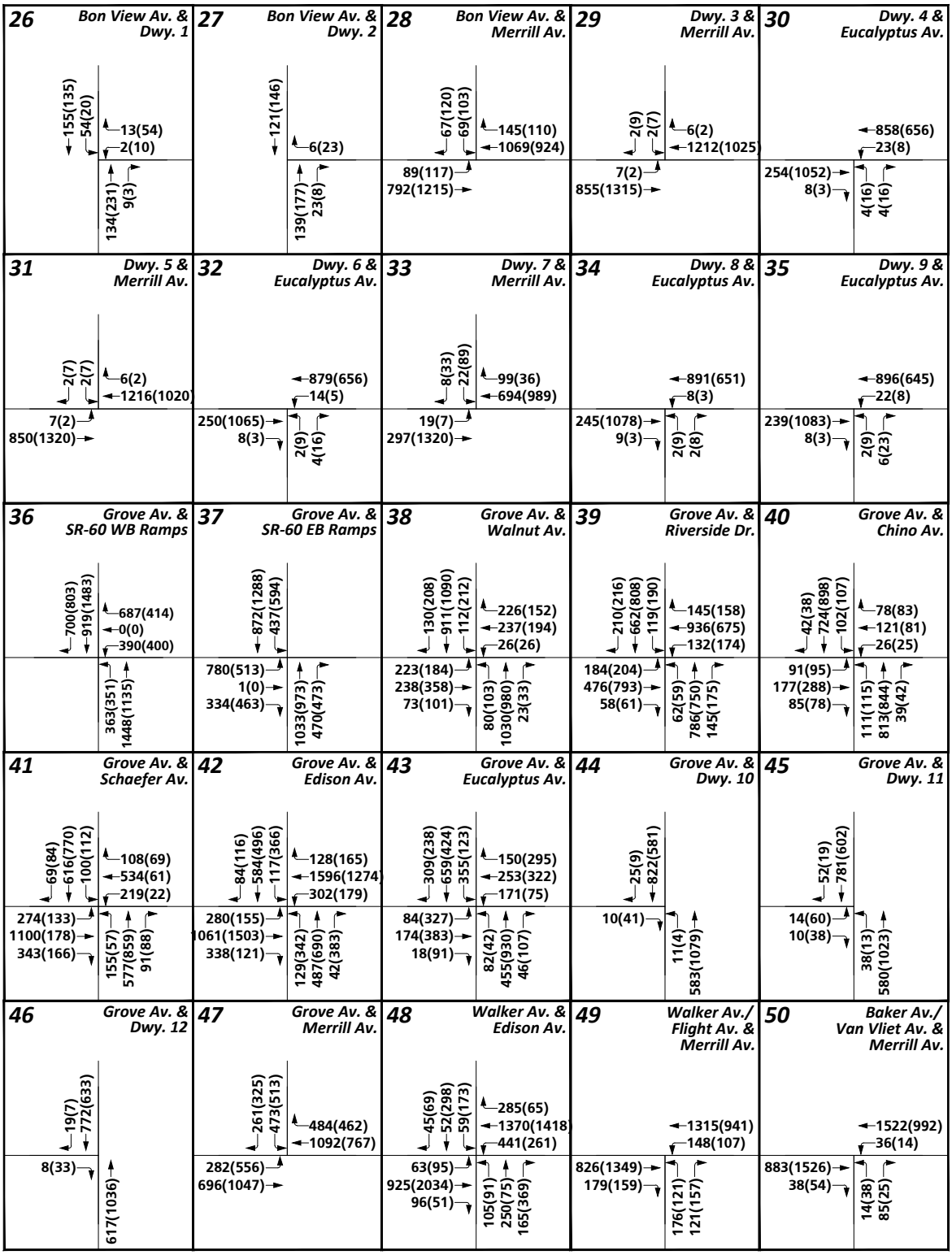
EXHIBIT 7-4 (2OF3): HORIZON YEAR (2040) WITH PROJECT TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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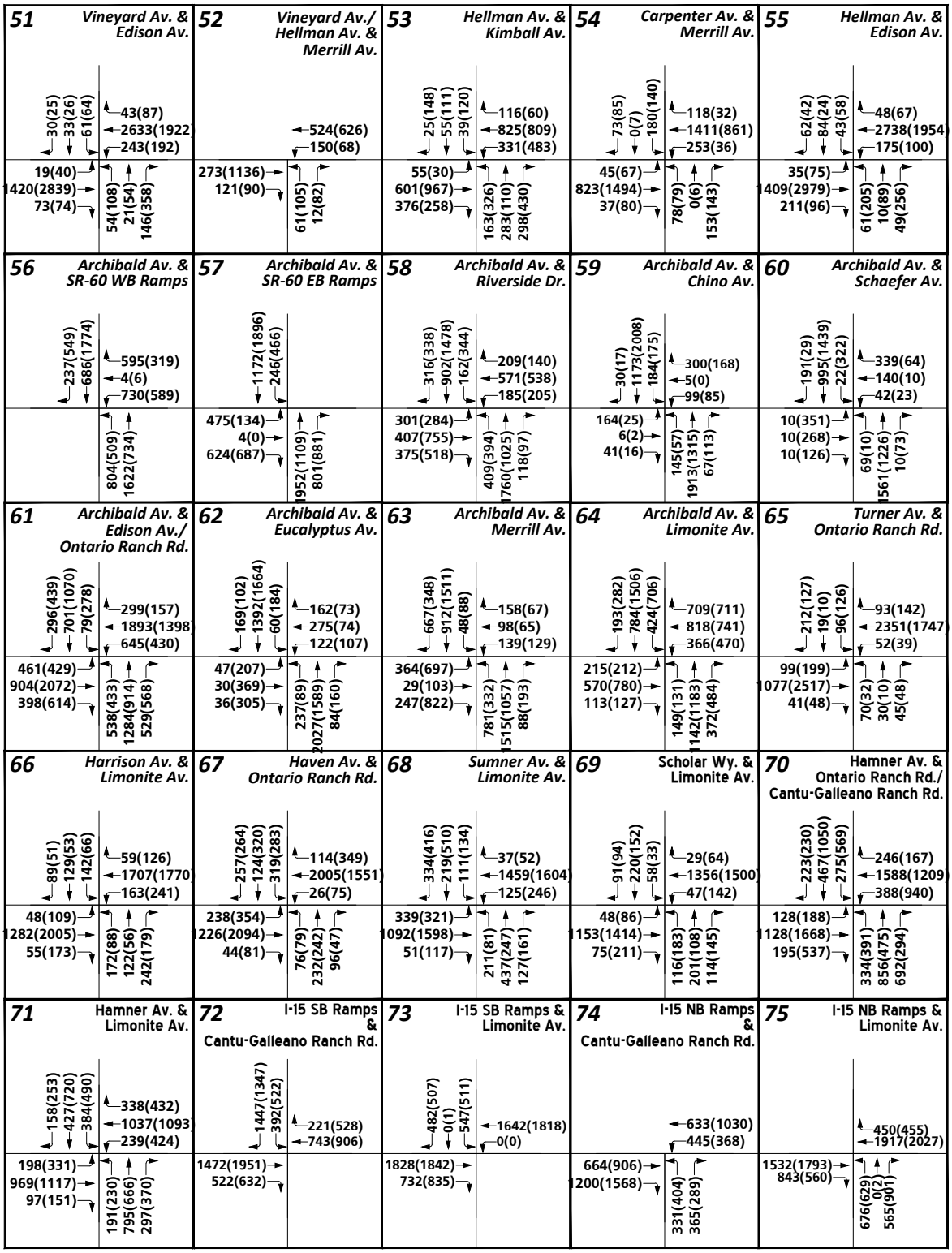
EXHIBIT 7-4 (3OF3): HORIZON YEAR (2040) WITH PROJECT TRAFFIC VOLUMES



LEGEND:

10(10) ***= AM(PM) PEAK HOUR INTERSECTION VOLUMES***

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EXHIBIT 7-5: HORIZON YEAR (2040) WITHOUT PROJECT SUMMARY OF LOS

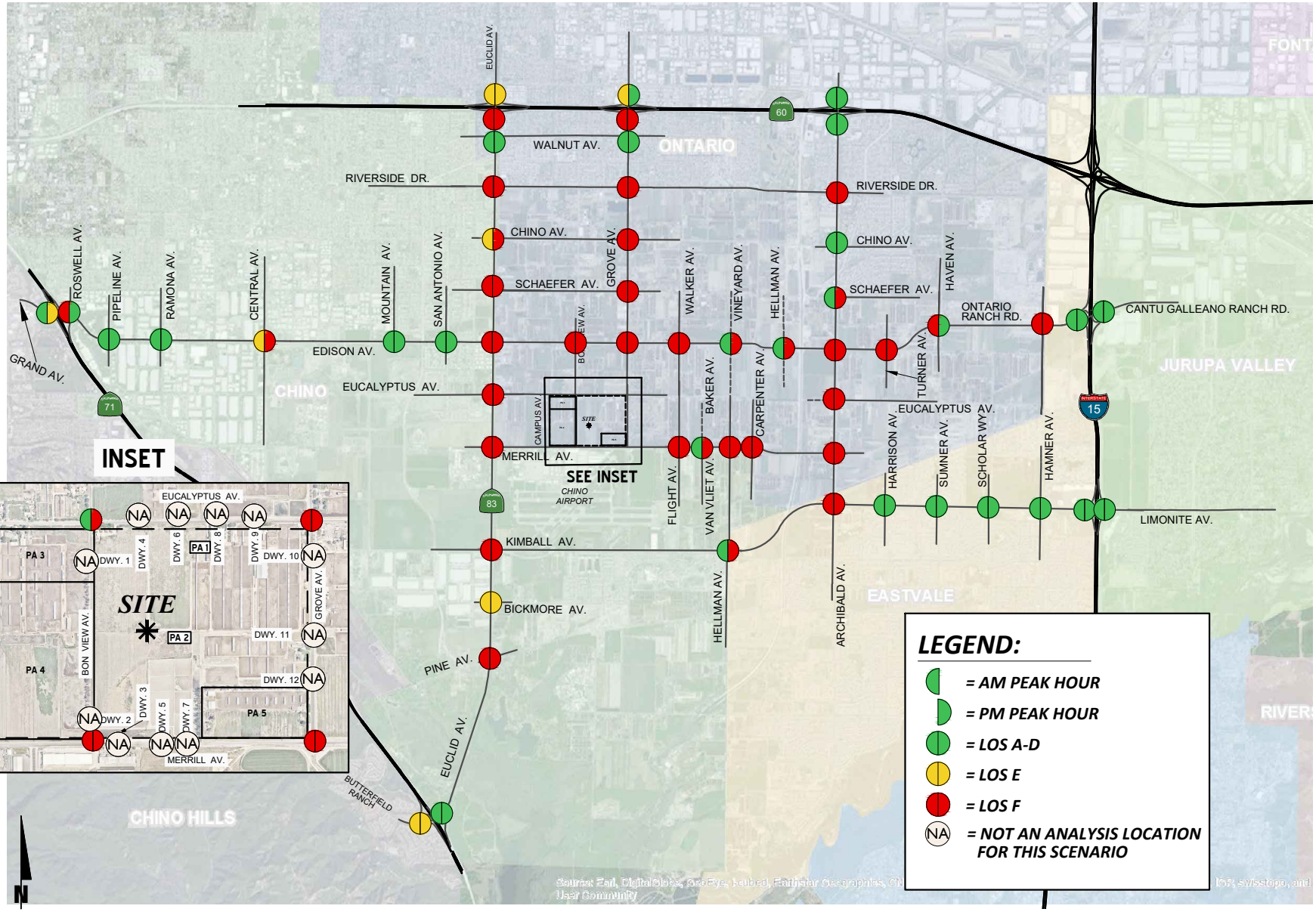

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EXHIBIT 7-6: HORIZON YEAR (2040) WITH PROJECT SUMMARY OF LOS

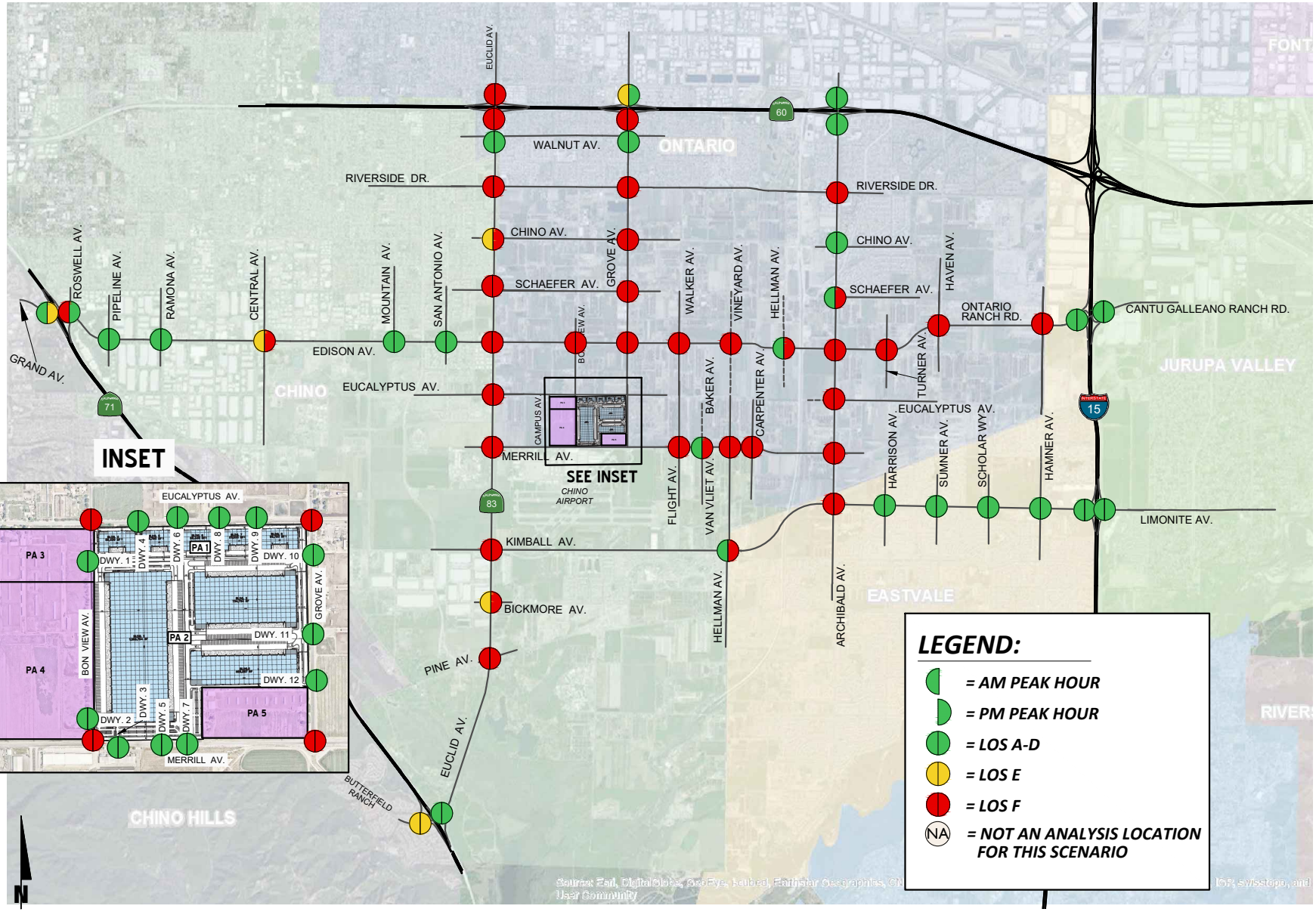

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Table 7-1

Intersection Analysis for Horizon Year (2040) Conditions

#	Intersection	Traffic Control[2]	2040 Without Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	2040 With Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard[3]
1	SR-71 SB Ramps & Grand Av.	TS	30.6	**79.3**	C	**E**	30.6	**79.3**	C	**E**	Chino Hills, Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.	TS	**58.9**	**68.0**	**E**	**E**	**59.8**	**68.0**	**E**	**E**	Chino Hills, Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.	TS	**80.1**	36.9	**F**	D	**84.3**	36.9	**F**	D	Chino, Caltrans / LOS D
4	SR-71 NB Ramps & Euclid Av. (SR-83)	TS	19.8	15.0	B	B	19.8	16.6	B	B	Chino, Caltrans / LOS D
5	Pipeline Av. & Edison Av.	TS	24.9	42.7	C	D	25.0	44.8	C	D	Chino / LOS D
6	Ramona Av. & Edison Av.	TS	34.2	48.3	C	D	34.6	51.4	C	D	Chino / LOS D
7	Central Av. & Edison Av.	TS	**60.8**	**94.2**	**E**	**F**	**63.7**	**102.8**	**E**	**F**	Chino / LOS D
8	Mountain Av. & Edison Av.	TS	34.6	25.8	C	C	36.3	27.1	D	C	Chino / LOS D
9	San Antonio Av. & Edison Av.	TS	15.9	11.5	B	B	16.0	11.8	B	B	Chino / LOS D
10	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	**79.0**	**75.2**	**E**	**E**	**84.3**	**100.4**	**F**	**F**	Ontario, Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	**106.9**	**88.3**	**F**	**F**	**129.1**	**106.9**	**F**	**F**	Ontario, Caltrans / LOS D
12	Euclid Av. (SR-83) & Walnut Av.	TS	59.2	63.2	E	E	69.7	75.2	E	E	Ontario, Caltrans / LOS E
13	Euclid Av. (SR-83) & Riverside Dr.	TS	**136.6**	**>200.0**	**F**	**F**	**156.5**	**>200.0**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.	TS	**62.0**	**135.5**	**E**	**F**	**78.3**	**151.7**	**E**	**F**	Chino, Ontario, Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.	TS	**163.5**	**176.9**	**F**	**F**	**191.5**	**>200.0**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.	TS	**86.2**	**162.1**	**F**	**F**	**100.9**	**172.7**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.	TS	**160.1**	**>200.0**	**F**	**F**	**186.7**	**>200.0**	**F**	**F**	Chino, Ontario, Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.	TS	**80.3**	**172.6**	**F**	**F**	**92.0**	**188.2**	**F**	**F**	Chino, Caltrans / LOS D
20	Euclid Av. (SR-83) & Bickmore Av.	TS	**59.3**	**71.4**	**E**	**E**	**71.0**	**81.5**	**E**	**F**	Chino, Caltrans / LOS D
21	Euclid Av. (SR-83) & Pine Av.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	Chino, Caltrans / LOS D
22	Campus Av. & Eucalyptus Av.	**CSS**	Future Intersection				26.6	**57.0**	D	**F**	Chino, Caltrans / LOS D
23	Campus Av. & Merrill Av.	**CSS**	Future Intersection				**>100.0**	**>100.0**	**F**	**F**	Chino, Caltrans / LOS D
24	Bon View Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
25	Bon View Av. & Eucalyptus Av.	AWS	35.4	**>100.0**	E	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
26	Bon View Av. & Driveway 1	**CSS**	Future Intersection				9.8	10.6	A	B	Ontario / LOS E
27	Bon View Av. & Driveway 2	**CSS**	Future Intersection				9.3	9.4	A	A	Ontario / LOS E
28	Bon View Av. & Merrill Av.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
29	Driveway 3 & Merrill Av.	**CSS**	Future Intersection				21.6	19.4	C	C	Ontario / LOS E
30	Driveway 4 & Eucalyptus Av.	**CSS**	Future Intersection				12.6	31.0	B	D	Ontario / LOS E
31	Driveway 5 & Merrill Av.	**CSS**	Future Intersection				21.7	20.1	C	C	Ontario / LOS E
32	Driveway 6 & Eucalyptus Av.	**CSS**	Future Intersection				11.9	25.5	B	D	Ontario / LOS E
33	Driveway 7 & Merrill Av.	**TS**	Future Intersection				13.5	11.8	B	B	Ontario / LOS E
34	Driveway 8 & Eucalyptus Av.	**CSS**	Future Intersection				12.6	30.7	B	D	Ontario / LOS E
35	Driveway 9 & Eucalyptus Av.	**CSS**	Future Intersection				11.6	25.6	B	D	Ontario / LOS E
36	Grove Av. & SR-60 WB Ramps	TS	**69.0**	36.3	**E**	D	**70.4**	42.5	**E**	D	Ontario, Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps	TS	**144.3**	**83.8**	**F**	**F**	**144.9**	**94.9**	**F**	**F**	Ontario, Caltrans / LOS D
38	Grove Av. & Walnut Av.	TS	36.8	34.0	D	C	37.8	34.8	D	C	Ontario / LOS E
39	Grove Av. & Riverside Dr.	TS	**160.9**	**166.1**	**F**	**F**	**171.1**	**184.8**	**F**	**F**	Ontario / LOS E
40	Grove Av. & Chino Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
41	Grove Av. & Schaefer Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
42	Grove Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
43	Grove Av. & Eucalyptus Av.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
44	Grove Av. & Driveway 10	**CSS**	Future Intersection				11.7	10.8	B	B	Ontario / LOS E
45	Grove Av. & Driveway 11	**CSS**	Future Intersection				23.6	18.2	C	C	Ontario / LOS E
46	Grove Av. & Driveway 12	**CSS**	Future Intersection				11.5	11.3	B	B	Ontario / LOS E
47	Grove Av. & Merrill Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
48	Walker Av. & Edison Av.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E

Intersection Analysis for Horizon Year (2040) Conditions

#	Intersection	Traffic Control[2]	2040 Without Project Delay[1] (secs.) AM	2040 Without Project Delay[1] (secs.) PM	2040 Without Project Level of Service AM	2040 Without Project Level of Service PM	2040 With Project Delay[1] (secs.) AM	2040 With Project Delay[1] (secs.) PM	2040 With Project Level of Service AM	2040 With Project Level of Service PM	Jurisdiction(s) / LOS Standard[3]
49	Walker Av./Flight Av. & Merrill Av.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.	CSS	46.0	**67.9**	E	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
51	Vineyard Av. & Edison Av.	CSS	35.9	**>100.0**	E	**F**	38.8	**>100.0**	E	**F**	Ontario / LOS E
52	Vineyard Av./Hellman Av. & Merrill Av.	CSS	**66.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
53	Hellman Av. & Kimball Av.	TS	43.8	**146.3**	D	**F**	45.5	**150.6**	D	**F**	Chino, Eastvale / LOS D
54	Carpenter Av. & Merrill Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	Chino, Ontario / LOS D
55	Hellman Av. & Edison Av.	CSS	41.0	**>100.0**	E	**F**	**>100.0**	**>100.0**	**F**	**F**	Ontario / LOS E
56	Archibald Av. & SR-60 WB Ramps	TS	22.7	31.6	C	C	28.7	31.8	C	C	Ontario, Caltrans / LOS D
57	Archibald Av. & SR-60 EB Ramps	TS	22.1	18.2	C	B	22.2	18.3	C	C	Ontario, Caltrans / LOS D
58	Archibald Av. & Riverside Dr.	TS	**98.7**	**141.4**	**F**	**F**	**104.6**	**146.8**	**F**	**F**	Ontario / LOS E
59	Archibald Av. & Chino Av.	TS	56.4	58.4	E	E	60.2	62.3	E	E	Ontario / LOS E
60	Archibald Av. & Schaefer Av.	TS	11.7	**142.0**	B	**F**	11.8	**144.6**	B	**F**	Ontario / LOS E
61	Archibald Av. & Ontario Ranch Rd.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	Ontario / LOS E
62	Archibald Av. & Eucalyptus Av.	TS	**92.8**	**149.5**	**F**	**F**	**100.2**	**175.0**	**F**	**F**	Ontario / LOS E
63	Archibald Av. & Merrill Av.	TS	**161.7**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	Ontario / LOS E
64	Archibald Av. & Limonite Av.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	Eastvale / LOS D
65	Turner Av. & Ontario Ranch Rd.	TS	**125.2**	**133.4**	**F**	**F**	**156.3**	**164.1**	**F**	**F**	Ontario / LOS E
66	Harrison Av. & Limonite Av.	TS	30.0	26.2	C	C	30.9	31.3	C	C	Eastvale / LOS D
67	Haven Av. & Ontario Ranch Rd.	TS	**113.7**	69.4	**F**	E	**127.8**	**83.8**	**F**	**F**	Ontario / LOS E
68	Sumner Av. & Limonite Av.	TS	30.6	40.1	C	D	32.9	44.3	C	D	Eastvale / LOS D
69	Scholar Way & Limonite Av.	TS	22.4	30.9	C	C	23.7	32.5	C	C	Eastvale / LOS D
70	Hamner Av. & Ontario Ranch Rd.	TS	**124.3**	**>200.0**	**F**	**F**	**137.2**	**>200.0**	**F**	**F**	Eastvale, Ontario / LOS D
71	Hamner Av. & Limonite Av.	TS	42.6	50.9	D	D	44.4	52.4	D	D	Eastvale / LOS D
72	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	19.2	22.3	B	C	19.4	47.0	C	D	Eastvale, Caltrans / LOS D
73	I-15 SB Ramps & Limonite Av.	TS	14.3	12.7	B	B	14.3	12.9	B	B	Eastvale, Caltrans / LOS D
74	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	36.4	18.0	D	B	36.7	36.3	D	D	Jurupa Valley, Caltrans / LOS D
75	I-15 NB Ramps & Limonite Av.	TS	14.4	14.7	B	B	15.9	14.9	B	B	Jurupa Valley, Caltrans / LOS D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[2] CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **CSS** = Improvement

7.5 TRAFFIC SIGNAL WARRANTS ANALYSIS

The following study area intersections are anticipated to meet peak hour or planning level (ADT) volume-based traffic signal warrants for Horizon Year (2040) Without Project traffic conditions (see Appendix 7.3), in addition to those previously warranted under Existing, E+P, and Opening Year Cumulative traffic conditions:

- Campus Avenue & Eucalyptus Avenue (#22)
- Campus Avenue & Merrill Avenue (#23)
- Van Vliet Avenue/Baker Avenue & Merrill Avenue (#50)
- Vineyard Avenue & Edison Avenue (#51)
- Vineyard Avenue/Hellman Avenue & Merrill Avenue (#52)
- Hellman Avenue & Edison Avenue (#55)

There are no additional study area intersections anticipated to meet planning level (ADT) volume-based traffic signal warrant for Horizon Year (2040) With Project traffic conditions (see Appendix 7.4), in addition to those previously warranted under Horizon Year (2040) Without Project traffic conditions.

7.6 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for Horizon Year (2040) Without and With Project traffic conditions are shown on Table 7-2. As shown on Table 7-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows under Horizon Year (2040) Without and With Project traffic conditions. Worksheets for Horizon Year (2040) Without and With Project traffic conditions off-ramp queuing analysis are provided in Appendices 7.5 and 7.6, respectively.

Table 7-2

Peak Hour Freeway Off-Ramp Queuing Summary for Horizon Year (2040) Conditions

Intersection	Movement	Available Stacking Distance (Feet)	2040 Without Project				2040 With Project			
			95th Percentile Queue (Feet)[3]		Acceptable?[1]		95th Percentile Queue (Feet)[3]		Acceptable?[1]	
			AM Peak	PM Peak	AM	PM	AM Peak Hour	PM Peak Hour	AM	PM
SR-71 SB Ramps & Grand Avenue	SBL/T	1,235	434	477	Yes	Yes	473	506 [2]	Yes	Yes
	SBL/T	1,235	440	478	Yes	Yes	478	506 [2]	Yes	Yes
	SBR	570	220	433 [2]	Yes	Yes	220	433 [2]	Yes	Yes
SR-71 SB Ramps & Euclid Avenue (SR-83)	SBL	1,100	232	470 [2]	Yes	Yes	232	470	Yes	Yes
	SBL/T	1,560	233	484 [2]	Yes	Yes	233	484	Yes	Yes
	SBR	255	0	0	Yes	Yes	0	0	Yes	Yes
SR-71 NB Ramps & Edison Avenue	NBL	1,300	307	315 [2]	Yes	Yes	307	315 [2]	Yes	Yes
	NBL/T	1,300	312	477 [2]	Yes	Yes	312	477 [2]	Yes	Yes
	NBR	815	13	167	Yes	Yes	13	167	Yes	Yes
SR-71 NB Ramps & Euclid Avenue (SR-83)	NBL	1,745	70	59	Yes	Yes	70	59	Yes	Yes
	NBR	420	163 [2]	1,215 [2]	Yes[3]	Yes[3]	254 [2]	1,258 [2]	Yes[3]	Yes[3]
Euclid Avenue (SR-83) & SR-60 WB Ramps	WBL	400	503 [2]	428 [2]	Yes[3]	No	503 [2]	428 [2]	Yes[3]	No
	WBL/T/R	1,430	537 [2]	447 [2]	Yes	Yes	537 [2]	447 [2]	Yes	Yes
	WBR	400	395 [2]	334 [2]	Yes	Yes	395 [2]	334 [2]	Yes	Yes
Euclid Avenue (SR-83) & SR-60 EB Ramps	EBL	900	518 [2]	489 [2]	Yes	Yes	518 [2]	489 [2]	Yes	Yes
	EBT/R	1,270	923 [2]	698 [2]	Yes	Yes	1,083 [2]	749 [2]	Yes	Yes
Grove Avenue & SR-60 WB Ramps	WBL/T	1,350	306	445	Yes	Yes	336	462	Yes	Yes
	WBR	250	868 [2]	426	Yes[3]	Yes[3]	868 [2]	432	Yes[3]	Yes[3]
Grove Avenue & SR-60 EB Ramps	EBL/T	1,400	1,101 [2]	719 [2]	Yes	Yes	1,101 [2]	719 [2]	Yes	Yes
	EBR	315	174	551	Yes	Yes[3]	216	569 [2]	Yes	Yes[3]
Archibald Avenue & SR-60 WB Ramps	WBL	1,389	537 [2]	273	Yes	Yes	573 [2]	288	Yes	Yes
	WBL/T/R	1,389	550 [2]	295 [2]	Yes	Yes	594 [2]	325	Yes	Yes
	WBR	250	402 [2]	110	Yes[3]	Yes	448	118	Yes[3]	Yes
Archibald Avenue & SR-60 EB Ramps	EBL	1,268	317	96	Yes	Yes	317	96	Yes	Yes
	EBL/T/R	1,268	293	256	Yes	Yes	302	256	Yes	Yes
	EBR	350	251	241	Yes	Yes	251	241	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,440	134	181	Yes	Yes	195	126	Yes	Yes
	SBL/R	560	502 [2]	442 [2]	Yes	Yes	506 [2]	532 [2]	Yes[3]	Yes
	SBR	460	454 [2]	412 [2]	Yes[3]	Yes	474 [2]	489 [2]	Yes[3]	Yes[3]
I-15 SB Ramps & Limonite Avenue	SBL	400	290	265	Yes	Yes	290	265	Yes	Yes
	SBL/T/R	400	290	268	Yes	Yes	290	268	Yes	Yes
	SBR	1,200	227	247	Yes	Yes	232	248	Yes	Yes
I-15 NB Ramps & Cantu Galleano	NBL	1,680	155 [2]	159 [2]	Yes	Yes	179 [2]	134 [2]	Yes	Yes
	NBR	440	59	56	Yes	Yes	58	56	Yes	Yes
I-15 NB Ramps & Limonite Avenue	NBL	450	232	215	Yes	Yes	262	226	Yes	Yes
	NBL/T/R	1,235	234	217	Yes	Yes	263	227	Yes	Yes
	NBR	400	199	349	Yes	Yes	197	348	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60, SR-71, or I-15 Freeway mainline.

7.8 IMPROVEMENTS

7.8.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

Improvement strategies have been identified at intersections that have been identified as deficient, in an effort to reduce each location's peak hour delay and improve the associated LOS grade to an acceptable LOS (LOS D/E or better). The effectiveness of the recommended improvement strategies to address Horizon Year (2040) traffic deficiencies are presented on Table 7-3. If not constructed by the Project, the Project Applicant shall contribute to these improvements through payment of City DIF fees or fair share contribution as identified on Table 1-2.

Worksheets for Horizon Year (2040) Without and With Project conditions, with improvements, HCM calculation worksheets are provided in Appendix 7.9 and Appendix 7.10, respectively.

7.8.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES

As shown previously on Table 7-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows for Horizon Year (2040) traffic conditions. As such, no improvements have been identified.

Table 7-3

Intersection Analysis for Horizon Year (2040) Conditions With Improvements

#	Intersection	Traffic Control[3]	Intersection Approach Lanes[1] Northbound L	T	R	Southbound L	T	R	Eastbound L	T	R	Westbound L	T	R	Delay[2] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard
1	SR-71 SB Ramps & Grand Av.																		
	Without Project[4]	TS	0	0	0	1	1	1	0	3	d	2	3	0	34.4	42.1	C	D	Chino Hills,
	With Project[4]	TS	0	0	0	1	1	1	0	3	d	2	3	0	35.0	42.5	D	D	Caltrans / LOS D
2	SR-71 SB Ramps & Butterfield Ranch Rd.																		
	Without Project	TS	1	0	1	**2**	1	1	0	2	0	1	2	1>>	53.0	53.2	D	D	Ontario,
	With Project	TS	1	0	1	**2**	1	1	0	2	0	1	2	1>>	53.7	53.2	D	D	Caltrans / LOS D
3	SR-71 NB Ramps & Edison Av.																		
	Without Project[4]	TS	1	1	1	1	0	2	1	3	1>>	0	4	0	53.5	40.9	D	D	Chino, Caltrans
	With Project[4]	TS	1	1	1	1	0	2	1	3	1>>	0	4	0	54.1	40.9	D	D	/ LOS D
7	Central Av. & Edison Av.																		
	Without Project	TS	1	2	**1>**	1	2	1	**2**	2	**1**	2	2	1	47.6	53.4	D	D	Chino / LOS D
	With Project	TS	1	2	**1>**	1	2	1	**2**	2	**1**	2	2	1	48.9	54.8	D	D	
10	Euclid Av. (SR-83) & SR-60 WB Ramps																		
	Without Project	TS	**2**	2	0	0	2	1	0	0	0	1	1	1	32.5	31.4	C	C	Ontario,
	With Project	TS	**2**	2	0	0	2	1	0	0	0	1	1	1	33.6	35.4	C	D	Caltrans / LOS D
11	Euclid Av. (SR-83) & SR-60 EB Ramps																		
	Without Project	TS	0	2	1	**2**	2	0	1	1	**1**	0	0	0	31.8	20.7	C	C	Ontario,
	With Project	TS	0	2	1	**2**	2	0	1	1	**1**	0	0	0	36.9	22.3	D	C	Caltrans / LOS D
13	Euclid Av. (SR-83) & Riverside Dr.																		
	Without Project	TS	**2**	**3**	**1**	**2**	**3**	1>	1	**2**	**1**	1	2	d	42.6	47.7	D	D	Chino, Ontario,
	With Project	TS	**2**	**3**	**1**	**2**	**3**	1>	1	**2**	**1**	1	2	d	43.4	50.1	D	D	Caltrans / LOS D
14	Euclid Av. (SR-83) & Chino Av.																		
	Without Project	TS	1	**3**	1	1	**3**	1	1	1	1	**1**	1	0	29.3	35.6	C	D	Chino, Ontario,
	With Project	TS	1	**3**	1	1	**3**	1	1	1	1	**1**	1	0	30.4	39.7	C	D	Caltrans / LOS D
15	Euclid Av. (SR-83) & Schaefer Av.																		
	Without Project	TS	**2**	**3**	1	**2**	**3**	1	**2**	1	1	1	1	0	43.5	46.4	D	D	Chino, Ontario,
	With Project	TS	**2**	**3**	1	**2**	**3**	1	**2**	1	1	1	1	0	46.9	54.3	D	D	Caltrans / LOS D
16	Euclid Av. (SR-83) & Edison Av.																		
	Without Project	TS	**2**	**3**	1	**2**	**3**	**1>**	**2**	**3**	1	**2**	**2**	**1>**	48.8	50.4	D	D	Chino, Ontario,
	With Project	TS	**2**	**3**	1	**2**	**3**	**1>**	**2**	**3**	1	**2**	**2**	**1>**	54.2	54.3	D	D	Caltrans / LOS D
17	Euclid Av. (SR-83) & Eucalyptus Av.																		
	Without Project	TS	1	**3**	1	1	**3**	1	1	1	1	**2**	1	**1**	21.5	49.3	C	D	Chino, Ontario,
	With Project	TS	1	**3**	1	1	**3**	1	1	1	1	**2**	1	**1**	22.8	53.9	C	D	Caltrans / LOS D
18	Euclid Av. (SR-83) & Merrill Av.																		
	Without Project	TS	1	**3**	**1>**	**2**	**3**	0	**1**	1	0	**2**	1	**1>**	28.4	43.8	C	D	Chino, Ontario,
	With Project	TS	1	**3**	**1>**	**2**	**3**	0	**1**	1	0	**2**	1	**1>**	33.9	53.6	C	D	Caltrans / LOS D
19	Euclid Av. (SR-83) & Kimball Av.																		
	Without Project	TS	1	**3**	1>	2	**3**	1>	2	2	**1**	**2**	2	**1>**	38.8	51.7	D	D	Chino, Caltrans
	With Project	TS	1	**3**	1>	2	**3**	1>	2	2	**1**	**2**	2	**1>**	40.0	52.6	D	D	/ LOS D
20	Euclid Av. (SR-83) & Bickmore Av.																		
	Without Project	TS	1	**3**	0	1	**3**	1	1	1	1	1	1	0	29.1	31.1	C	C	Chino, Caltrans
	With Project	TS	1	**3**	0	1	**3**	1	1	1	1	1	1	0	30.1	31.9	C	C	/ LOS D
21	Euclid Av. (SR-83) & Pine Av.																		
	Without Project	TS	**2**	**3**	**1>>**	**2**	**3**	**1**	1	**2**	1	2	**2**	**1**	35.3	52.6	D	D	Chino, Caltrans
	With Project	TS	**2**	**3**	**1>>**	**2**	**3**	**1**	1	**2**	1	2	**2**	**1**	36.2	54.6	D	D	/ LOS D
22	Campus Av. & Eucalyptus Av.																		
	Without Project	**TS**	**1**	0	**1**	0	0	0	0	**2**	0	**1**	**2**	0	8.1	10.9	A	B	Ontario / LOS E
	With Project	**TS**	**1**	0	**1**	0	0	0	0	**2**	0	**1**	**2**	0	9.3	11.3	A	B	
23	Campus Av. & Merrill Av.																		
	Without Project	**TS**	0	0	0	**1**	0	**1**	**1**	**2**	0	0	**2**	0	11.2	10.6	B	B	Chino, Ontario /
	With Project	**TS**	0	0	0	**1**	0	**1**	**1**	**2**	0	0	**2**	0	11.7	10.9	B	B	LOS D

Table 7-3

Intersection Analysis for Horizon Year (2040) Conditions With Improvements

#	Intersection	Traffic Control[3]	Intersection Approach Lanes[1] Northbound L	T	R	Southbound L	T	R	Eastbound L	T	R	Westbound L	T	R	Delay[2] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard
24	Bon View Av. & Edison Av.																		
	Without Project	TS	1	1	0	1	1	0	1	3	0	1	3	0	41.3	32.2	D	C	Ontario / LOS E
	With Project	TS	1	1	0	1	1	0	1	3	0	1	3	0	43.9	34.1	D	D	
25	Bon View Av. & Eucalyptus Av.																		
	Without Project	TS	0	1	0	0	1	0	1	2	0	1	1	0	10.7	9.3	B	A	Ontario / LOS E
	With Project	TS	0	1	0	0	1	0	1	2	0	1	1	0	12.6	11.5	B	B	
28	Bon View Av. & Merrill Av.																		
	Without Project	TS	0	0	0	0	1	0	1	2	0	0	2	0	10.4	10.4	B	B	Chino, Ontario /
	With Project	TS	0	0	0	0	1	0	1	2	0	0	2	1	11.0	12.3	B	B	LOS D
36	Grove Av. & SR-60 WB Ramps																		
	Without Project	TS	2	2	0	0	2	1	0	0	0	0	1	1	44.0	26.9	D	C	Ontario,
	With Project	TS	2	2	0	0	2	1	0	0	0	0	1	1	44.3	28.1	D	C	Caltrans / LOS D
37	Grove Av. & SR-60 EB Ramps																		
	Without Project	TS	0	2	0	2	2	0	1	1	1	0	0	0	35.0	32.8	D	C	Ontario,
	With Project	TS	0	2	0	2	2	0	1	1	1	0	0	0	35.0	35.3	D	D	Caltrans / LOS D
39	Grove Av. & Riverside Dr.																		
	Without Project	TS	1	2	0	1	2	0	1	2	0	1	2	0	53.9	52.7	D	D	Ontario / LOS E
	With Project	TS	1	2	0	1	2	0	1	2	0	1	2	0	54.7	53.2	D	D	
40	Grove Av. & Chino Av.																		
	Without Project	TS	1	2	0	1	2	0	1	1	0	1	1	0	17.8	19.2	B	B	Ontario / LOS E
	With Project	TS	1	2	0	1	2	0	1	1	0	1	1	0	18.0	19.5	B	B	
41	Grove Av. & Schaefer Av.																		
	Without Project	TS	1	2	0	1	2	0	1	2	0	1	2	0	56.2	19.9	E	B	Ontario / LOS E
	With Project	TS	1	2	0	1	2	0	1	2	0	1	2	0	60.3	20.2	E	C	
42	Grove Av. & Edison Av.																		
	Without Project	TS	1	2	0	1	2	0	1	3	0	1	3	0	49.6	70.4	D	E	Ontario / LOS E
	With Project	TS	1	2	0	1	2	0	1	3	0	1	3	0	54.0	79.2	D	E	
43	Grove Av. & Eucalyptus Av.																		
	Without Project	TS	1	2	0	1	2	0	1	2	0	1	2	0	20.7	20.7	C	C	Ontario / LOS E
	With Project	TS	1	2	0	1	2	0	1	2	0	1	2	0	28.6	49.8	C	D	
47	Grove Av. & Merrill Av.																		
	Without Project	TS	0	0	0	1	0	1	1	2	0	0	2	1>	19.1	16.0	B	B	Chino, Ontario /
	With Project	TS	0	0	0	1	0	1	1	2	0	0	2	1>	37.1	54.5	D	D	LOS D
48	Walker Av. & Edison Av.																		
	Without Project	TS	1	1	0	1	1	0	1	3	0	1	3	0	21.1	41.6	C	D	Ontario / LOS E
	With Project	TS	1	1	0	1	1	0	1	3	0	1	3	0	24.1	46.1	C	D	
49	Walker Av./Flight Av. & Merrill Av.																		
	Without Project	TS	1	1	0	1	1	0	1	2	0	1	2	0	20.6	21.2	C	C	Chino, Ontario /
	With Project	TS	1	1	0	1	1	0	1	2	0	1	2	0	25.0	27.4	C	C	LOS D
50	Van Vliet Av./Baker Av. & Merrill Av.																		
	Without Project	TS	0	1	0	0	1	0	1	2	0	1	2	0	12.5	8.4	B	A	Chino, Ontario /
	With Project	TS	0	1	0	0	1	0	1	2	0	1	2	0	13.1	8.7	B	A	LOS D
51	Vineyard Av. & Edison Av.																		
	Without Project	TS	1	1	0	1	1	0	1	3	0	1	3	0	15.0	36.5	B	D	Ontario / LOS E
	With Project	TS	1	1	0	1	1	0	1	3	0	1	3	0	19.2	73.0	B	E	
52	Vineyard Av./Hellman Av. & Merrill Av.																		
	Without Project	TS	1	1	1	1	1	1	1	2	0	1	2	1	13.6	40.4	B	D	Chino, Ontario /
	With Project	TS	1	1	1	1	1	1	1	2	0	1	2	1	13.9	52.5	B	D	LOS D
53	Hellman Av. & Kimball Av.																		
	Without Project[5]	TS	2	2	0	1	2	d	1	2	1>	2	2	1	23.4	32.5	C	C	Chino, Eastvale
	With Project[5]	TS	2	2	0	1	2	d	1	2	1>	2	2	1	23.9	37.4	C	D	/ LOS D

Table 7-3

Intersection Analysis for Horizon Year (2040) Conditions With Improvements

#	Intersection	Traffic Control[3]	Intersection Approach Lanes[1] Northbound L	T	R	Southbound L	T	R	Eastbound L	T	R	Westbound L	T	R	Delay[2] (secs.) AM	PM	Level of Service AM	PM	Jurisdiction(s) / LOS Standard
54	Carpenter Av. & Merrill Av.																		
	Without Project	**TS**	**1**	1	0	**1**	1	0	1	**2**	1	1	**2**	0	23.5	18.6	C	B	Chino, Ontario /
	With Project	**TS**	**1**	1	0	**1**	1	0	1	**2**	1	1	**2**	0	28.6	21.8	C	C	LOS D
55	Hellman Av. & Edison Av.																		
	Without Project	**TS**	**1**	**1**	0	**1**	**1**	0	**1**	**3**	0	**1**	**3**	0	18.0	39.0	B	D	Ontario / LOS E
	With Project	**TS**	**1**	**1**	0	**1**	**1**	0	**1**	**3**	0	**1**	**3**	0	19.9	50.5	B	D	
58	Archibald Av. & Riverside Dr.																		
	Without Project	TS	**2**	3	0	**2**	3	0	1	2	d	1	2	d	63.2	75.3	E	E	Ontario / LOS E
	With Project	TS	**2**	3	0	**2**	3	0	1	2	d	1	2	d	65.0	76.9	E	E	
60	Archibald Av. & Schaefer Av.																		
	Without Project	**TS**	**1**	3	0	**1**	**3**	0	**1**	**1**	0	**1**	**1**	**1**	10.9	39.0	B	D	Ontario / LOS E
	With Project	**TS**	**1**	3	0	**1**	**3**	0	**1**	**1**	0	**1**	**1**	**1**	11.2	42.2	B	D	
61	Archibald Av. & Ontario Ranch Rd.																		
	Without Project	TS	**2**	**3**	1>>	**2**	**3**	**1>**	2	**4**	1>>	2	**4**	1	73.0	67.6	E	E	Ontario / LOS E
	With Project	TS	**2**	**3**	1>>	**2**	**3**	**1>**	2	**4**	1>>	2	**4**	1	76.7	78.5	E	E	
62	Archibald Av. & Eucalyptus Av.																		
	Without Project	TS	**1**	**3**	**0**	1	**3**	0	**1**	**2**	0	**1**	**2**	**1**	26.7	32.0	C	C	Ontario / LOS E
	With Project	TS	**1**	**3**	**0**	1	**3**	0	**1**	**2**	0	**1**	**2**	**1**	29.6	33.0	C	C	
63	Archibald Av. & Merrill Av.																		
	Without Project	TS	**2**	3	1	2	**3**	**1>**	**2**	1	**1>>**	1	1	1	59.9	58.9	E	E	Ontario / LOS E
	With Project	TS	**2**	3	1	2	**3**	**1>**	**2**	1	**1>>**	1	1	1	79.1	77.6	E	E	
64	Archibald Av. & Limonite Av.																		
	Without Project	TS	**1**	**3**	1>	**2**	**3**	0	**2**	**2**	**1**	**2**	**2**	1>	36.6	48.1	D	D	Eastvale / LOS D
	With Project	TS	**1**	**3**	1>	**2**	**3**	0	**2**	**2**	**1**	**2**	**2**	1>	39.1	53.0	D	D	
65	Turner Av. & Ontario Ranch Rd.																		
	Without Project	TS	1	1	0	1	1	0	1	**3**	1	1	**3**	1	32.9	34.0	C	C	Ontario / LOS E
	With Project	TS	1	1	0	1	1	0	1	**3**	1	1	**3**	1	45.4	43.8	D	D	
67	Haven Av. & Ontario Ranch Rd.																		
	Without Project	TS	1	**2**	1	1	**2**	1	1	3	1	1	3	1	47.7	46.0	D	D	Ontario / LOS E
	With Project	TS	1	**2**	1	1	**2**	1	1	3	1	1	3	1	48.9	51.5	D	D	
70	Hamner Av. & Ontario Ranch Rd.																		
	Without Project[7]	TS	2	3	**1>**	2	**3**	**0**	2	4	**1>**	2	**3**	1	51.3	75.3	D	E	Eastvale,
	With Project[7]	TS	2	3	**1>**	2	**3**	**0**	2	4	**1>**	2	**3**	1	54.6	78.0	D	E	Ontario / LOS D

[1] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.
L = Left; T = Through; R = Right; > = Right-Turn Overlap Phasing; >> = Free Right Turn Lane; d = Defacto Right Turn Lane; **1** = Improvement

[2] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[3] CSS = Cross-street Stop; AWS = All-Way Stop; TS = Traffic Signal; **TS** = Improvement

[4] Improvement consists of modifying the traffic signal to extend the cycle length to 120 seconds. No other physical improvements are recommended.

[5] Assumes signalization of the intersection and the buildout of the east leg.

[6] Improvement includes modifying the coordinated cycle length from 90 seconds to 120 seconds.

[7] Improvement consists of modifying the traffic signal to extend the cycle length to 130 seconds.

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8 LOCAL AND REGIONAL FUNDING MECHANISMS

Transportation improvements within the City of Ontario are funded through a combination of construction of improvements, development impact fee programs or fair share contributions, such as the City of Ontario Development Impact Fee (DIF) program. Identification and timing of needed improvements is generally determined through local jurisdictions based upon a variety of factors.

8.1 CITY OF ONTARIO DEVELOPMENT IMPACT FEE PROGRAM

The City of Ontario has created its own local DIF program to impose and collect fees from new residential, commercial and industrial development for the purpose of funding roadways and intersections necessary to accommodate City growth as identified in the City's General Plan Circulation Element. The City's DIF includes regional improvements to comply with Measure "I." The fee schedule was last updated in January 2020 and is reviewed/adjusted annually based upon changes in the construction cost index (CCI). Under the City's DIF program, the City may grant to developers a credit against specific components of fees when those developers construct certain facilities and landscaped medians identified in the list of improvements funded by the DIF program.

The timing to use the DIF fees is established through periodic capital improvement programs which are overseen by the City's Public Works Department. Periodic traffic counts, review of traffic accidents, and a review of traffic trends throughout the City are also periodically performed by City staff and consultants. The City uses this data to determine the timing of implementing the improvements listed in its facilities list. The City also uses this data to ensure that the improvements listed on the facilities list are constructed before the LOS falls below the LOS performance standards adopted by the City. In this way, the improvements are constructed before the LOS falls below the City's LOS performance thresholds.

The Project Applicant will be subject to the City's DIF fee program and will pay the requisite City DIF fees at the rates then in effect pursuant to the City's ordinance. The Project Applicant's payment of the requisite DIF at the rates then in effect, pursuant to the City DIF Program, would satisfy the Project's proportional improvement requirements at potentially affected DIF-funded facilities.

TABLE 10-1: ESTIMATED FEE OBLIGATION

Fee Reference	Light Industrial ($ PER SQ. FT.)
Industrial: Regional and Local Streets	$3.002/SF
Business Park: Regional and Local Streets	$5.824/SF

* Ontario Ranch DIF rates effective as of January 1, 2020.

Fee Calculation

Program	Category	Unit Cost	Units/Sq.Ft.	Local Circulation
Local/Regional Impacts	Industrial	$3.00	4,337,356	$13,012,935
	Business Park	$5.82	1,075,235	$6,262,169
			Total Transportation Impact Fees	**$19,275,104**

8.2 MEASURE "I" FUNDS

In 2004, the voters of San Bernardino County approved the 30-year extension of Measure "I," a one-half of one percent sales tax on retail transactions, through the year 2040, for transportation projects including, but not limited to, infrastructure improvements, commuter rail, public transit, and other identified improvements. The Measure "I" extension requires that a regional traffic impact fee be created to ensure development is paying its fair share. A regional Nexus study was prepared by SBCTA and concluded that each jurisdiction should include a regional fee component in their local programs in order to meet the Measure "I" requirement. The regional component assigns specific facilities and cost sharing formulas to each jurisdiction and was most recently updated in November 2011. Revenues collected through these programs are used in tandem with Measure "I" funds to deliver projects identified in the Nexus Study. While Measure "I" is a self-executing sales tax administered by SBCTA, it bears discussion here because the funds raised through Measure "I" have funded in the past and will continue to fund new transportation facilities in San Bernardino County.

8.3 FAIR SHARE CONTRIBUTION

Project improvement may include a combination of fee payments to established programs, construction of specific improvements, payment of a fair share contribution toward future improvements or a combination of these approaches. Improvements constructed by development may be eligible for a fee credit or reimbursement through the program where appropriate (to be determined at the City's discretion).

When off-site improvements are identified with a minor share of responsibility assigned to proposed development, the approving jurisdiction may elect to collect a fair share contribution or require the development to construct improvements. Detailed fair share calculations, for each peak hour, has been provided on Table 8-2 for the applicable deficient study area intersections.

These fees are collected with the proceeds solely used as part of a funding mechanism aimed at ensuring that regional highways and arterial expansions keep pace with the projected population increases.

Table 8-2
Page 1 of 3

Project Fair Share Calculations for Intersections

#	Intersection		Existing	Total Project	2040 With Project Volume	Total New Traffic	Project % of New Traffic
1	SR-71 SB Ramps & Grand Av.						
		AM:	3,331	70	4,765	1,434	**4.9%**
		PM:	4,646	32	5,972	1,326	2.4%
2	SR-71 SB Ramps & Butterfield Ranch Rd.						
		AM:	1,961	9	2,577	616	**1.5%**
		PM:	2,069	10	2,894	825	1.2%
3	SR-71 NB Ramps & Edison Av.						
		AM:	3,579	85	5,638	2,059	4.1%
		PM:	5,195	101	7,135	1,940	**5.2%**
7	Central Av. & Edison Av.						
		AM:	3,950	94	5,973	2,023	4.6%
		PM:	4,139	110	6,338	2,199	**5.0%**
13	Euclid Av. (SR-83) & Riverside Dr.						
		AM:	3,264	117	5,614	2,350	5.0%
		PM:	3,525	131	6,114	2,589	**5.1%**
14	Euclid Av. (SR-83) & Chino Av.						
		AM:	2,462	127	4,640	2,178	5.8%
		PM:	2,873	141	5,153	2,280	**6.2%**
15	Euclid Av. (SR-83) & Schaefer Av.						
		AM:	2,480	136	5,034	2,554	**5.3%**
		PM:	3,136	151	6,092	2,956	5.1%
16	Euclid Av. (SR-83) & Edison Av.						
		AM:	2,786	238	6,955	4,169	5.7%
		PM:	3,641	271	8,006	4,365	**6.2%**
17	Euclid Av. (SR-83) & Eucalyptus Av.						
		AM:	2,522	67	4,975	2,453	**2.7%**
		PM:	2,906	71	6,007	3,101	2.3%
18	Euclid Av. (SR-83) & Merrill Av.						
		AM:	2,604	145	5,253	2,649	**5.5%**
		PM:	3,012	158	6,480	3,468	4.6%
19	Euclid Av. (SR-83) & Kimball Av.						
		AM:	3,275	105	5,936	2,661	3.9%
		PM:	3,825	118	6,812	2,987	**4.0%**
20	Euclid Av. (SR-83) & Bickmore Av.						
		AM:	1,831	96	3,875	2,044	**4.7%**
		PM:	1,843	108	4,356	2,513	4.3%
21	Euclid Av. (SR-83) & Pine Av.						
		AM:	3,350	96	5,483	2,133	**4.5%**
		PM:	3,583	108	6,698	3,115	3.5%
22	Campus Av. & Eucalyptus Av.						
		AM:	260	80	1,093	833	**9.6%**
		PM:	285	71	1,508	1,223	5.8%

Table 8-2
Page 2 of 3

Project Fair Share Calculations for Intersections

#	Intersection		Existing	Total Project	2040 With Project Volume	Total New Traffic	Project % of New Traffic
23	Campus Av. & Merrill Av.						
		AM:	742	151	2,062	1,320	11.4%
		PM:	929	182	2,412	1,483	**12.3%**
24	Bon View Av. & Edison Av.						
		AM:	965	188	5,168	4,203	4.5%
		PM:	1,030	220	5,786	4,756	**4.6%**
25	Bon View Av. & Eucalyptus Av.						
		AM:	404	263	1,518	1,114	**23.6%**
		PM:	468	319	2,113	1,645	19.4%
28	Bon View Av. & Merrill Av.						
		AM:	815	199	2,232	1,417	14.0%
		PM:	994	262	2,589	1,595	**16.4%**
36	Grove Av. & SR-60 WB Ramps						
		AM:	2,875	59	4,449	1,574	3.7%
		PM:	2,922	70	4,517	1,595	**4.4%**
37	Grove Av. & SR-60 EB Ramps						
		AM:	2,370	94	3,833	1,463	6.4%
		PM:	2,603	110	4,195	1,592	**6.9%**
39	Grove Av. & Riverside Dr.						
		AM:	2,124	94	3,820	1,696	5.5%
		PM:	2,342	110	4,152	1,810	**6.1%**
40	Grove Av. & Chino Av.						
		AM:	823	94	2,315	1,492	6.3%
		PM:	1,004	110	2,584	1,580	**7.0%**
41	Grove Av. & Schaefer Av.						
		AM:	718	94	4,092	3,374	2.8%
		PM:	980	110	2,489	1,509	**7.3%**
42	Grove Av. & Edison Av.						
		AM:	1,169	273	4,874	3,705	7.4%
		PM:	1,488	320	5,471	3,983	**8.0%**
43	Grove Av. & Eucalyptus Av.						
		AM:	626	547	2,756	2,130	**25.7%**
		PM:	816	637	3,358	2,542	25.1%
47	Grove Av. & Merrill Av.						
		AM:	1,080	384	3,288	2,208	17.4%
		PM:	1,208	493	3,670	2,462	**20.0%**
48	Walker Av. & Edison Av.						
		AM:	866	103	3,753	2,887	**3.6%**
		PM:	1,140	120	4,879	3,739	3.2%
49	Walker Av./Flight Av. & Merrill Av.						
		AM:	1,070	265	3,026	1,956	13.5%
		PM:	1,140	298	3,079	1,939	**15.4%**

Table 8-2
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Project Fair Share Calculations for Intersections

#	Intersection		Existing	Total Project	2040 With Project Volume	Total New Traffic	Project % of New Traffic
50	Van Vliet Av./Baker Av. & Merrill Av.						
		AM:	875	248	2,570	1,695	14.6%
		PM:	965	278	2,627	1,662	**16.7%**
51	Vineyard Av. & Edison Av.						
		AM:	0	231	4,776	4,776	**4.8%**
		PM:	0	270	5,789	5,789	4.7%
52	Vineyard Av./Hellman Av. & Merrill Av.						
		AM:	844	248	1,649	805	**30.8%**
		PM:	962	279	3,614	2,652	10.5%
53	Hellman Av. & Kimball Av.						
		AM:	1,128	77	3,168	2,040	**3.8%**
		PM:	1,178	90	3,852	2,674	3.4%
54	Carpenter Av. & Merrill Av.						
		AM:	1,123	171	3,170	2,047	8.4%
		PM:	1,111	189	3,032	1,921	**9.8%**
55	Hellman Av. & Edison Av.						
		AM:	0	222	4,925	4,925	**4.5%**
		PM:	0	260	5,945	5,945	4.4%
58	Archibald Av. & Riverside Dr.						
		AM:	3,540	87	5,714	2,174	4.0%
		PM:	4,021	97	6,117	2,096	**4.6%**
60	Archibald Av. & Schaefer Av.						
		AM:	1,512	96	3,399	1,887	**5.1%**
		PM:	1,592	108	3,941	2,349	4.6%
61	Archibald Av. & Ontario Ranch Rd.						
		AM:	2,966	278	8,026	5,060	**5.5%**
		PM:	3,034	315	8,802	5,768	5.5%
62	Archibald Av. & Eucalyptus Av.						
		AM:	2,117	72	4,641	2,524	**2.9%**
		PM:	1,999	75	4,923	2,924	2.6%
63	Archibald Av. & Merrill Av.						
		AM:	2,698	154	5,045	2,347	**6.6%**
		PM:	2,660	168	5,413	2,753	6.1%
64	Archibald Av. & Limonite Av.						
		AM:	2,721	142	5,855	3,134	**4.5%**
		PM:	2,803	164	7,333	4,530	3.6%
70	Hamner Av. & Ontario Ranch Rd.						
		AM:	3,332	156	6,521	3,189	4.9%
		PM:	4,169	178	7,718	3,549	**5.0%**

BOLD = Denotes highest fair share percentage.

[1] Fair share based on total traffic only.

9 REFERENCES

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APPENDIX I2

VEHICLE MILES TRAVELED ANALYSIS

URBAN CROSSROADS

urbanxroads.com

August 13, 2021

Mr. Kevin Thomas
Kimley Horn and Associates, Inc.
3880 Lemon Street, Suite 420
Riverside, CA 92501

SUBJECT: SOUTH ONTARIO LOGISTICS CENTER VEHICLE MILES TRAVELED (VMT) ANALYSIS

Dear Mr. Kevin Thomas:

The following VMT Analysis has been prepared for the proposed South Ontario Logistics Center Project (**Project**), which is located on the northeast corner of Bon View Avenue and Merrill Avenue, in the City of Ontario (San Bernardino County).

PROJECT OVERVIEW

The proposed Project is assumed to include the following mix of land uses, which represent a reasonable mix of industrial and business park uses that would be permitted by the Project:

- Industrial: 4,337,356 square feet of industrial building spaces
- Business Park designation includes the commercial retail as one of its uses, potential future retail uses in the business park planning areas would tend to shorten trips versus industrial uses. However, future tenants are not yet known. In the interest of providing a more conservative analysis the following assumption will be made: 1,075,235 square feet of a mix of uses including merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses (as would fall under ITE Land Use Code 130[1]).
- **Total of 5,412,591 square feet**

BACKGROUND

Changes to California Environmental Quality Act (CEQA) Guidelines were adopted in December 2018, which require all lead agencies to adopt VMT as a replacement for automobile delay-based level of service (LOS) as the measure for identifying transportation impacts for land use projects. This statewide mandate went into effect July 1, 2020. To aid in this transition, the Governor's Office of Planning and Research (OPR) released a Technical Advisory on Evaluating Transportation Impacts in CEQA (December of 2018) (**Technical Advisory**). (1) Based on OPR's Technical Advisory, the San Bernardino County Transportation Authority (SBCTA) prepared the SBCTA Countywide SB 743 VMT Implementation Study

[1] ITE Land Use Code 130 includes partial commercial retail in its rate.

(February 2020) to assist its member agencies with implementation tools necessary to adopt analysis methodology, impact thresholds and mitigation approaches for VMT. Included in this work effort, SBCTA in February 2020 also released to each of its member agencies Recommended Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment (**SBCTA Guidelines**) (2), which provides a template of specific procedures for complying with the new CEQA requirements for VMT analysis. Based on the SBCTA Guidelines, the City of Ontario adopted new transportation impact guidelines (June 2020) (**City Guidelines**) (3), which documents the City's VMT analysis methodology and impact thresholds. The VMT analysis presented in this report has been developed based on the recently adopted City Guidelines.

PROJECT SCREENING

Consistent with City Guidelines, projects that meet certain screening thresholds based on their location and project type may be presumed to result in a less than significant transportation impact. Consistent with the screening criteria recommended in OPR's Technical Advisory, the City of Ontario utilizes the following project screening thresholds[2]:

- Low VMT Area Screening
- Low Trip Generating Uses Screening
- Transit Priority Area (TPA) Screening
- Project Type Screening

A land use project need only meet one of the above screening criteria to result in a less than significant impact.

LOW VMT AREA SCREENING

City Guidelines state that "projects located within a low VMT-generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary."[3] The SBCTA screening tool was utilized to determine low areas of VMT. The screening tool uses the sub-regional San Bernardino Transportation Analysis Model (SBTAM) to measure VMT performance within individual traffic analysis zones (TAZ's) within the region. Parcels containing the proposed Project were selected and the screening tool was run for the Origin/Destination (OD) VMT per service population (SP) measure of VMT. Based on the Screening Tool results, the Project resides within TAZ 53653401 and that TAZ was shown to not be within a low VMT generating zone based on the OD method of calculating VMT.

The results of the screening tool for the OD VMT per SP calculations are provided in Attachment A.

The Low VMT Area screening threshold is not met.

[2] City of Ontario Vehicle Miles Traveled Analysis Thresholds for CEQA (SB 743); Page 1
[3] City Guidelines; Page 19

LOW TRIP GENERATING USES SCREENING

The City Guidelines indicate that small development projects generating fewer than 110 daily vehicle trips or less may be presumed to have a less than significant impact, subject to discretionary approval by the City. Trips generated by the Project's proposed land uses have been estimated based on trip generation rates collected by the Institute of Transportation Engineers (ITE) Trip Generation Manual, 10th Edition, 2017. (4) Based on information contained in the Project's LOS based traffic study[4], the Project is anticipated to generate more than 110 daily trips. (5)

The Low Trip Generating Uses screening threshold is not met.

TPA SCREENING

Consistent with guidance identified in the City Guidelines, projects located within a Transit Priority Area (TPA) (i.e., within ½ mile of an existing "major transit stop"[5] or an existing stop along a "high-quality transit corridor"[6]) may be presumed to have a less than significant impact absent substantial evidence to the contrary. However, the presumption may not be appropriate if a project:

- Has a Floor Area Ratio (FAR) of less than 0.75;
- Includes more parking for use by residents, customers, or employees of the project than required by the jurisdiction (if the jurisdiction requires the project to supply parking);
- Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the lead agency, with input from the Metropolitan Planning Organization); or
- Replaces affordable residential units with a smaller number of moderate- or high-income residential units.

The Project site is not located within ½ mile of an existing major transit stop, or along a high-quality transit corridor.

The TPA screening threshold is not met.

PROJECT TYPE SCREENING

The City Guidelines identify that local serving retail less than 50,000 square feet or other local serving essential services (e.g., day care centers, public schools, medical/dental office buildings, etc.) are presumed to have a less than significant impact absent substantial evidence to the contrary. In addition, small projects anticipated to generate low traffic volumes and by association low greenhouse gas (GHG)

[4] Urban Crossroads South Ontario Center Specific Plan Traffic Study, March 2021; Page 95
[5] Pub. Resources Code, § 21064.3 ("'Major transit stop' means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.").
[6] Pub. Resources Code, § 21155 ("For purposes of this section, a high-quality transit corridor means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.").

emissions are also assumed to cause a less than significant impact. The Project consists of industrial and business park uses, which do not typically consist of local-serving or essential services.

The Project Type screening threshold is not met.

PROJECT GENERATED VMT

The City Guidelines state that projects not screened through the steps above should complete VMT analysis and forecasting through the SBTAM model to determine if they have a significant VMT impact. The first step in the analysis is to calculate project generated VMT and compare it to the City's adopted impact threshold. SBTAM is a useful tool to calculate VMT as it considers interaction between different land uses based on socio-economic data such as population, employment and other factors. It was also the tool used to establish the City's impact threshold, so is the appropriate tool to conduct the analysis to ensure an apples-to-apples comparison of project generated VMT to the adopted threshold.

Project generated VMT has been calculated using the most current version of SBTAM, which was updated recently by SBCTA as part of the development of their recommended VMT guidelines. Adjustments in socio-economic data (SED) (i.e., population, households, and employment) have been made to a separate traffic analysis zone (TAZ) to reflect the Project's proposed land uses (i.e., employment). A separate TAZ is used to isolate project generated VMT from other land uses in the model. Table 1 summarizes the population and employment estimates for the Project.

TABLE 1: SED ESTIMATES

Land Use	% Mixture	Employees/TSF	Total TSF	Estimated Employment
Business Park	Non-Office (50%)	0.650	1,075.235	349
	Office (50%)	2.860		1,538
Industrial	Non-Office (90%)	0.650	4,337.356	2,537
	Office (10%)	2.860		1,240
Total			**5,412.591**	**5,664**

Because the tenant of the Project's buildings are not yet known, the number of jobs that the Project would generate cannot be precisely determined; therefore, for purposes of this analysis, employment estimates were calculated using employment density factors of 0.65 employees/thousand square feet (TSF) for non-office portions and 2.86 employees/TSF for office portions of industrial and business park uses consistent with the Ontario General Plan Buildout Methodology document (April 2015)[7]. Based on these employment generation rates; the Project is expected to generate approximately 5,664 jobs. Project employment was added to the Project's TAZ in both the base year model (2016) and the cumulative year model (2040). The base year model and cumulative year model were then run inclusive

[7] Source: http://www.ontarioplan.org/wp-content/uploads/sites/4/2016/01/Methodology-Revised.pdf

of the Project's employment estimate.

The City has chosen the OD method of calculating VMT for purposes of establishing their impact threshold. The OD method of calculating VMT includes all vehicle trips and trip purposes (i.e., passenger cars and heavy trucks). Project generated VMT using the OD trip matrix from SBTAM was calculated for both the base year model (2016) and cumulative year model (2040), and linear interpolation was used to determine the Project's baseline (2020) VMT. The VMT value was then normalized by dividing by the Project's SP, which in this case is the number of Project employees. Table 2 presents the key inputs for the calculation of project generated VMT per SP.

TABLE 2: PROJECT VMT PER SP

	Base Year (2016)	Cumulative (2040)	Baseline (2020)
Project generated VMT	221,751	204,705	218,910
SP	5,664	5,664	5,664
Project VMT per SP	39.15	36.14	38.65

The City of Ontario has selected a threshold based on the General Plan Buildout VMT performance in the City. More specifically, the City Guidelines state that a significant impact would occur if the project VMT per SP exceeds the Citywide average for SP under General Plan Buildout Conditions.

Table 3 presents a comparison between baseline project generated VMT per SP to the City's impact threshold. As shown, the baseline project generated VMT per SP is 38.65 or 6.77% above the City's threshold.

TABLE 3: PROJECT VMT IMPACT DETERMINATION

	Baseline (2020)
Project VMT per SP	38.65
General Plan Buildout VMT per SP	36.20
Percent Change	+6.77%
Potentially Significant?	Yes

PROJECT'S CUMULATIVE EFFECT ON VMT

Consistent with City Guidelines, projects that are found to have a potential impact using efficiency-based metrics (such as VMT per SP) should also provide an additional assessment to evaluate a project's effect on VMT. This analysis is performed using the boundary method, which includes all vehicle trips with one or both trip-ends within a specific geographic area of interest (i.e., City of Ontario). As shown on Table 4, the Project is anticipated to result in an increase in total VMT within the City of Ontario for General Plan Buildout conditions.

TABLE 4: CUMULATIVE NET CHANGE IN CITYWIDE VMT

	General Plan Buildout (2040) No Project	General Plan Buildout (2040) With Project
VMT	8,992,608	9,028,855

POTENTIAL VMT REDUCTION STRATEGIES

Consistent with SBCTA Guidelines, VMT reduction strategies should be considered to address project generated VMT that exceeds the City's threshold. Transportation demand management (TDM) strategies have been evaluated for the purpose of reducing VMT impacts determined to be potentially significant. The effectiveness of TDM strategies to reduce VMT has been determined based on the SB 743 Implementation Mitigation and TDM Strategy Assessment (November 11, 2019, Fehr & Peers) prepared for SBCTA (**SBCTA TDM Report**), which was based on a current assessment of the previously published Quantifying Greenhouse Gas Mitigation Measures (CAPCOA, 2010) for applicability to projects in the SBCTA region. The SBCTA TDM Report indicates that of the 50 transportation measures presented by CAPCOA, only 41 of those measures are applicable at a building and site level. The remaining 9 measures are functions of, or depend on, site location and/or actions by local and regional agencies or funders.[8]

Based on a review of the 41 transportation measures identified by CAPCOA, the SBCTA TDM Report identifies that only 7 of those measures may be effective at the project level. Land use context is a major factor relevant to the potential application and effectiveness of TDM measures. More specifically, the land use context of the Project is characteristically suburban[9]. Based on a review of the potentially relevant TDM measures presented in the SBCTA TDM Report, the following TDM measures were evaluated for their applicability to the Project based on its suburban context and their ability to reduce project generated VMT:

- *Measure 1: Increase Diversity of Land Uses (LUT-3).* Having different types of land uses near one another can decrease VMT since trips between land use types are shorter and may be accommodated by non-auto modes of transportation. For example, when residential areas are in the same neighborhood as retail and office buildings, a resident does not need to travel outside of the neighborhood to meet his/her trip needs.

  Remarks: The Project proposes the construction of 5,412,591 square feet of industrial and business park use. In order for the above measure to apply, at least 3 of the following land uses should be located on-site, or if not on-site then within ¼ mile or less of the Project: residential development, retail development, office development, park, or open space. Business Park land use designation allows for commercial retail use. However, at the time of this analysis future tenants are not known. Therefore, to perform a more conservative analysis industrial land use assumption was assumed in its entirety. As the proposed Project does not include a diverse mix of land uses on-site and is not located within a ¼ mile of 3 of the land uses listed above, this particular TDM measure is therefore not evaluated further as a means of providing a reduction in Project VMT.

[8] Measures obtained from SBCTA TDM report, p. 5.
[9] ***Suburban:*** Characterized by dispersed, low intensity, single use, automobile dependent land use patterns, usually outside of the central city (a suburb). (*Quantifying Greenhouse Gas Mitigation Measures,* p. 60).

It is, however, recognized that the Project would introduce additional employment opportunities, acting to generally improve the City and region jobs/housing balance. The resulting improved jobs/housing balance could reduce area commute VMT. This analysis, however, conservatively assumes no such VMT reduction.

- *Measure 2: Provide Pedestrian Network Improvements (SDT-1).* Providing on-site pedestrian access network to link areas of the Project to the off-site pedestrian network encourages people to walk for short trips instead of drive. This mode shift results in people driving less for nearby trips (typically less than ¼ mile and no greater than ½ mile) and thus a reduction in VMT.

  Remarks: Although there are existing sidewalks off-site along portions of Merrill Avenue, field observations conducted at the time the Project's level of service analysis (i.e., traffic study) was prepared indicate there is nominal pedestrian activity in the study area likely due to the lack of diversity of land uses. Similarly, as noted in the previous measure, the future tenant is not yet known. To provide a more conservative analysis industrial use was assumed in its entirety. Furthermore, given the industrial nature of the Project and surrounding uses, it is unlikely that there would be substantive pedestrian activity even if a pedestrian network were to be expanded. This measure is therefore not evaluated further as means of providing a reduction in Project VMT.

- *Measure 3: Provide Traffic Calming Measure (SDT-2).* Providing traffic calming measures encourages people to walk or bike instead of using a passenger car. This mode shift would result in a decrease in VMT. Traffic calming features may include marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, raised intersections, median islands, tight corner radii, roundabouts or mini-circles, on-street parking, planter strips with street trees, chicanes/chokers, and others.

  Remarks: Business Park allows for commercial retail as a use which gives this measure the potential for reducing VMT. However, to provide a more conservative analysis industrial use is assumed. Given the industrial nature of the Project and similar characteristics of surrounding uses, there is limited opportunity for pedestrian and bicycle activity. this measure is therefore not evaluated further as means of providing a reduction in Project VMT.

- *Measure 4: Implement Car-Sharing Program (TRT-9).* Implementing a car-sharing program would allow individuals to have on-demand access to a shared fleet of vehicles on an as-needed basis. User costs are typically determined through mileage or hourly rates, with deposits and/or annual membership fees.

  Remarks: It is possible that employers within the Project site could implement car-sharing programs. This may provide car access for employees on an as-needed basis, and thereby alleviate some of the costs and responsibilities of individual car ownership. However, this would not necessarily result in a reduction of VMT, but would rather transfer the VMT source from individually-owned autos to employee-subsidized autos. The potential reduction in VMT is also extremely limited with a maximum reduction in VMT between 0.4 – 0.7 percent as noted by CAPCOA (Quantifying Greenhouse Gas Mitigation Measures, p. 245), therefore, this measure is not evaluated further as a means of providing a reduction in Project VMT.

- *Measure 5: Increase Transit Service Frequency and Speed (TST-4).* This measure serves to reduce transit-passenger travel time through more reduced headways and increased speed and reliability. This makes transit service more attractive and may result in a mode shift from auto to transit which reduces VMT.

  Remarks: The study area is currently served by Omnitrans, a public transit agency serving various jurisdictions within San Bernardino County. No bus routes currently provide proximate service (within one-quarter mile) of the Project site. Transit service is reviewed and updated periodically to address ridership, budget and community demand needs. Changes in land use can affect these periodic adjustments which may lead to

either enhanced or reduced service where appropriate. It is recommended that the Applicant work in conjunction with the Lead Agency and Omnitrans to coordinate potential bus service to the Project site. Since implementation of this strategy would require agency implementation it is not applicable for individual development projects. This measure is therefore not evaluated further as means of providing a reduction in Project VMT.

- *Measure 6: Encourage Telecommuting and Alternative Work Schedule (TRT-6).* Encouraging telecommuting and alternative work schedules reduces the number of commute trips and therefore VMT traveled by employees. Alternative work schedules could take the form of staggered starting times, flexible schedules, or compressed work weeks.

  Remarks: The effectiveness of this measure is dependent on the ultimate building tenant(s) which are unknown at this time. This measure could provide for a potential reduction in Project VMT. CAPCOA notes that implementation of this measure could reduce commute VMT by 0.07 – 5.50 percent (Quantifying Greenhouse Gas Mitigation Measures, p. 236).

- *Measure 7: Provide Ride-Sharing Programs (TRT-3).* This strategy focuses on encouraging carpooling and vanpooling, but its ultimate implementation is limited similarly as Measure 6 above.

  Remarks: The effectiveness of this measure is dependent on the ultimate building tenant(s) which are unknown at this time. This measure could provide for a potential reduction in Project VMT. CAPCOA notes that implementation of this measure could reduce commute VMT by 1.0 – 15.0 percent (Quantifying Greenhouse Gas Mitigation Measures, p. 227).

The effectiveness of the above-noted TDM measures would be dependent building occupancies, which are unknown at this time. Beyond Project tenancy considerations, land use context is a major factor relevant to the potential application and effectiveness of TDM measures. More specifically, the land use context of the Project is characteristically suburban. Of itself, the Project's suburban context acts to reduce the range of feasible TDM measures and moderates their potential effectiveness. Relevant discussion in this regard is presented in *WRCOG SB 743 Implementation Pathway Document Package* (Fehr + Peers [for WRCOG]) March 2019*,* excerpted in pertinent part below:

> The Technical Advisory relies on the *Quantifying Greenhouse Gas Mitigation Measures*, (CAPCOA) 2010 resource document to help justify the 15 percent reduction in VMT threshold stating, " . . . fifteen percent reduction in VMT are achievable at the project level in a variety of place types . . . ". A more accurate reading of the CAPCOA document is that a fifteen percent is the maximum reduction when combining multiple mitigation strategies for the *suburban center*[10] place type. For *suburban*[11] place types 10 percent is the maximum and requires a project to contain a diverse land use mix, workforce housing, and project-specific transit. It is also important to note that the maximum percent

[10] ***Suburban Center:*** A project typically involving a cluster of multi-use development within dispersed, low-density, automobile dependent land use patterns (a suburb). The center may be an historic downtown of a smaller community that has become surrounded by its region's suburban growth pattern in the latter half of the 20th Century. The suburban center serves the population of the suburb with office, retail and housing which is denser than the surrounding suburb (*Quantifying Greenhouse Gas Mitigation Measures,* p. 60).

[11] ***Suburban:*** A project characterized by dispersed, low-density, single-use, automobile dependent land use patterns, usually outside of the central city . . . (*Quantifying Greenhouse Gas Mitigation Measures,* p. 60).

> reductions were not based on data or research comparing the actual performance of VMT reduction strategies in these place types. Instead, the percentages were derived from a limited comparison of aggregate citywide VMT performance for Sebastopol, San Rafael, and San Mateo where VMT performance ranged from 0 to 17 percent below the statewide VMT/capita average based on data collected prior to 2002. Little evidence exists about the long-term performance of similar TDM strategies in different land use contexts. As such, VMT reductions from TDM strategies cannot be guaranteed in most cases (*WRCOG SB 743 Implementation Pathway Document Package*, pp. 65 – 66).

It is also recognized that as the Project area and City develop as envisioned under the City of Ontario Policy Plan, new residential, commercial/retail, and industrial development would be implemented. These actions could collectively alter transportation patterns, improve the City's jobs/housing ratio, diminish VMT/SP, and support implementation of new or alternative TDM measures. There is no means however to quantify any VMT reductions that could result. Additionally, the effectiveness of the TDM strategies that have potential to reduce the Project VMT/SP are dependent on as yet unknown final Project building tenant(s); and as noted above, "VMT reductions from TDM strategies cannot be guaranteed in most cases." Further, the identified TDM measures are not likely to reduce Project truck VMT. Pointedly, CAPCOA provides no TDM measures targeted at truck traffic.

CONCLUSION

In summary, the Project was found to exceed the City's adopted VMT threshold by 6.77%. Reductions in commute VMT through feasible TDM measures such as those described previously will be provided by the Project. Inclusion of such VMT reduction measures in areas that are characteristically suburban[12] in context are noted to be limited to a maximum VMT reduction of 10%.[13] However, as future Project design features and building tenants are not yet known, reductions in VMT related to the above TDM measures cannot be accurately estimated or guaranteed. Therefore, the Project's transportation impact based on VMT should conservatively be considered **significant and unavoidable**.

If you have any questions, please contact me directly at aevatt@ubanxroads.com.

Respectfully submitted,

URBAN CROSSROADS, INC.

[12] Suburban: A project characterized by dispersed, low-density, single-use, automobile dependent land use patterns, usually outside of the central city (a suburb).

[13] California Air Pollution Control Officers Association: "Quantifying Greenhouse Gas Mitigation Measures" August 2010; page 55.

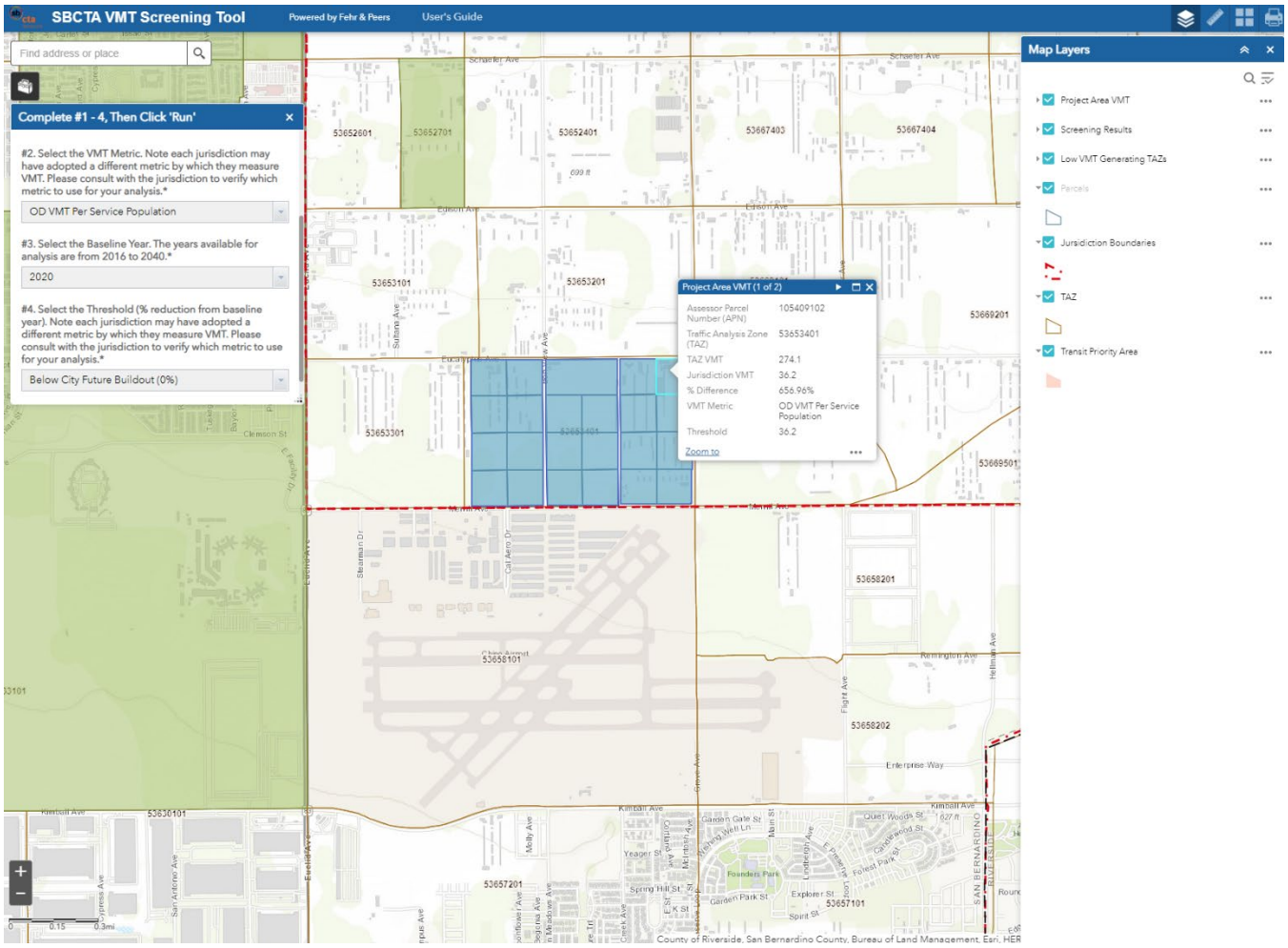
Aric Evatt, PTP
President

Robert Vu, PE
Transportation Engineer

REFERENCES

1. **Office of Planning and Research.** *Technical Advisory on Evaluating Transportation Impacts in CEQA.* State of California : s.n., December 2018.
2. **San Bernardino County Transportation Authority.** *Recommended Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment.* February 2020.
3. **City of Ontario.** *SB 743 VMT Thresholds.* City of Ontario : s.n., June 2020.
4. **Institute of Transportation Engineers.** *Trip Generation Manual.* 10th Edition. 2017.
5. **Urban Crossroads, Inc.** *South Ontario Logistics Center Traffic Impact Analysis.* January 2021.

ATTACHMENT A
SCREENING RESULTS


SBCTA VMT Screening Tool
Powered by Fehr & Peers
User's Guide
Find address or place
Complete #1 - 4, Then Click 'Run'
#2. Select the VMT Metric. Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
OD VMT Per Service Population
#3. Select the Baseline Year. The years available for analysis are from 2016 to 2040.*
2020
#4. Select the Threshold (% reduction from baseline year). Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
Below City Future Buildout (0%)
Map Layers
Project Area VMT
Screening Results
Low VMT Generating TAZs
Parcels
Jurisdiction Boundaries
TAZ
Transit Priority Area
Project Area VMT (1 of 2)
Assessor Parcel Number (APN) 105409102
Traffic Analysis Zone (TAZ) 53653401
TAZ VMT 274.1
Jurisdiction VMT 36.2
% Difference 656.96%
VMT Metric OD VMT Per Service Population
Threshold 36.2
Zoom to
53652601
53652701
53652401
53667403
53667404
53653101
53653201
53653301
53653401
53669201
53669501
53658201
53658101
53658202
53657201
53657101
53830101
Schaefer Ave
Edison Ave
Eucalyptus Ave
Merrill Ave
Clemson St
Kimball Ave
Remington Ave
Enterprise Way
Garden Park St
Spring Hill St
Yeager St
Explorer St
Spirit St
Foothill Blvd
County of Riverside, San Bernardino County, Bureau of Land Management, Esri, HER

APPENDIX I3

SB330 TRANSPORTATION EVALUATION

February 2, 2021

Mr. Kevin Thomas
Kimley Horn and Associates, Inc.
3880 Lemon Street, Suite 420
Riverside, CA 92501

SUBJECT: SOUTH ONTARIO LOGISTICS CENTER SPECIFIC PLAN SB330 TRANSPORTATION EVALUATION

Dear Mr. Kevin Thomas:

The following transportation evaluation has been prepared for the proposed South Ontario Logistics Center Specific Plan (SOLC SP) development (**Project**), which is located on the northeast corner of Bon View Avenue and Merrill Avenue in the City of Ontario (San Bernardino County). The purpose of this evaluation is to qualitatively assess the potential impacts to transportation associated with the programmatic review of the reallocation of 1,352 low to moderate density housing units associated with the proposed Project.

PROJECT OVERVIEW

The proposed Project includes 5,412,591 square feet of industrial, merchant wholesale, professional services, professional office, warehouse/storage, and research and development uses. The Project requires a General Plan Amendment (GPA) that would change existing land use designations from 159.04 acers of "Low Medium Density Residential" and 63.14 acres of "Business Park" to 181.04 acers of "General Industrial" and 41.14 acres of "Business Park".

BACKGROUND

The Project's Environmental Impact Report (EIR) must include the evaluation of "replacement housing" in accordance with Senate Bill (SB) 330, the Housing Crisis Act of 2019 (Government Code Section 6300). SB330 requires that where a development project results in the reduction in the number of housing units allowed under existing zoning, the City must concurrently rezone other parcels such that there is no "net loss" of the total allowable housing development within the City. The City in its evaluation of the proposed Project has determined that there would be a net loss of 1,352 low to moderate density housing units.

To address the reallocation of the 1,352 low to moderate density housing units, the City is considering the potential rezone of a portion of Grove Avenue bounded by Bon View Avenue to the west, Riverside Avenue to the north, Baker Avenue to the east and Schaefer Avenue to the south to higher residential densities (Grove Avenue Corridor), which would capture the displaced 1,352 units consistent with SB330 requirements. In support of this effort, the Project's EIR must evaluate the potential environmental

impacts associated with rezoning this area for higher density residential uses. Since there is no specific development proposal at this time, the environmental effects of the rezoning are evaluated at a programmatic level.

TRANSPORTATION EVALUATION

Due to the adoption of SB743 in 2013, all cities within the State of California are required to adopt vehicle miles traveled (VMT) as the measure of a transportation impact under the California Environmental Quality Act (CEQA) as of July 1st, 2020. To aid in this transition, the Governor's Office of Planning and Research (OPR) released a Technical Advisory on Evaluating Transportation Impacts in CEQA (December of 2018) (**Technical Advisory**). (1) The City of Ontario has also adopted VMT analysis guidelines and thresholds in June 2020 (**City Guidelines**). (2) This evaluation has been based on information contained in the Technical Advisory and the adopted City Guidelines.

VMT

As noted previously, a specific development project is not currently proposed for the reallocation of 1,352 dwelling units displaced by the proposed Project. However, information cited in both the Technical Advisory and City Guidelines describe that a project's land use context, location and design characteristics all play a role in the resulting amount of VMT generated by an individual land use project. As the proposed Project would include the reallocation of 1,352 low to moderate density residential dwelling units to a mixed-use corridor with higher density residential that would offer improved access to transit, there are numerous aspects of the proposed change that would reduce VMT compared to the "No Project" condition.

The Technical Advisory and City Guidelines each provide evidence that land use projects located within a transit priority area (TPA) or close to a high-quality transit corridor would tend to generate low VMT when compared to typical suburban residential areas characterized by dispersed, low-density, single-use, automobile dependent land use patterns. In addition to proximity to transit, higher density projects located within walking distance of a diverse mix of land uses (e.g., shopping, office, government services, etc.) also generates lower VMT when compared to typical dispersed suburban development. The proximity of complementary land uses combined with safe and convenient bike and pedestrian networks are proven to reduce the need for automobile dependent travel and therefore a reduction in VMT. The Project's reallocation of 1,352 low to moderate density residential dwelling units to a higher density transit-oriented corridor that includes a diverse mix of uses would result in lower net VMT when compared to standard low to moderate density residential development.

OTHER TRANSPORTATION CONSIDERATIONS

In addition, future land use development projects associated with the reallocation of the 1,352 units along the Grove Avenue Corridor will be required to follow standard development review process. In other words, future implementing projects associated with the reallocated 1,352 dwelling units along the Grove Avenue Corridor will need to evaluate site access driveways, parking, operational safety, and other factors as directed by the City Traffic Engineer.

CONCLUSION

In summary, the proposed Project includes the reallocation of 1,352 low to moderate density residential units to the Grove Avenue Corridor. The reallocated units will be located in a planned higher density transit-oriented corridor that includes a diverse mix of uses, and due to these factors, is anticipated to generate lower VMT as compared to the lower density development plan assumed for the Project's current location. As such, the Project's potential transportation impact based on VMT is less than significant.

If you have any questions, please contact me directly at cso@ubanxroads.com.

Respectfully submitted,

URBAN CROSSROADS, INC.

Charlene So, PE
Associate Principal

REFERENCES

1. **Office of Planning and Research.** *Technical Advisory on Evaluating Transportation Impacts in CEQA.* State of California : s.n., December 2018.
2. **City of Ontario.** *SB 743 VMT Thresholds.* City of Ontario : s.n., June 2020.

APPENDIX J
WATER SUPPLY ASSESSMENT

APPENDIX J1

WATER SUPPLY ASSESSMENT

2nd DRAFT - Water Supply Assessment

South Ontario Logistics Center

Specific Plan

for City of Ontario

Prepared for:
Ontario Municipal Utilities Company
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1425 S. Bon View Avenue
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909.395.2695

Prepared by:
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3880 Lemon Street, Suite 420
Riverside, CA 92501

August 2021

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Introduction

This document prepared for the City of Ontario is a Water Supply Assessment (WSA) intended to meet the requirements of Senate Bill (SB) 610. The water demand for the South Ontario Logistics Center Specific Plan ("proposed project") is calculated and the adequacy of water supplies to meet the proposed project is evaluated.

SB 610 established the primary legal standards for assessing the sufficiency of water supplies for new development projects. These statutes require as part of the environmental review conducted for a qualifying project pursuant to the California Environmental Quality Act (CEQA), the public water supplier or land use agency – in this case the City of Ontario – must prepare a "water supply assessment" of the reliability of water supplies for the project, considering normal, single dry, and multiple dry years over a 20-year horizon. The basic requirement is that a WSA must "include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the water system's existing and planned future uses, including agricultural and manufacturing uses."[1]

References used in preparing this document include the following:

- City of Ontario 2015 Urban Water Management Plan (UWMP).
- City of Ontario 2012 Water Master Plan
- Chino Basin Desalter Authority 2015 UWMP
- Inland Empire Utilities Agency 2015 UWMP
- San Antonio Water Company 2015 UWMP

Site Location and Project Description

The proposed Project is located on a 222.18-acre site in the southwest portion of the City of Ontario, within San Bernardino County. The proposed Project site is bound by Eucalyptus Avenue to the north, existing right-of-way for the future Campus Avenue extension to the west, Merrill Avenue to the south, and Grove Avenue to the east (refer to Exhibit 1, Vicinity Map).

The proposed Project site is currently occupied by agricultural uses, including a dairy farm and row crops, and vacant land. There are several residential structures located throughout the Project site. Dairy farming and agriculture have been the primary uses of the property since the 1930s or earlier. The Project also includes dairy barns, a storage structure, feed storage barns, and numerous livestock corrals. There are large existing retention ponds that collect agricultural waste. There are potable water wells located throughout the proposed Project site and above ground fuel storage tanks along with various mechanical systems for dairy production practices. The remainder of the proposed Project site is used as irrigated cropland with berms located along the site perimeter. To the north, east, and west of the proposed Project site exists mostly rural farmland, and to the south is the Chino Airport.

[1] California Water Code Section 10910(c)(3).

The Project includes a General Plan Amendment, Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s) to allow development of approximately 5.4 million square feet (SF) of industrial and business park land uses on the 222.18-acre site, as described further below. The Project is proposed in two phases. Phase I, comprised of Planning Areas 1 and 2, would allow approximately 3,172,780 SF of industrial and business park uses. The Development Plan for Phase I currently proposes the construction of eight industrial concrete tilt-up industrial/warehouse buildings totaling 2,926,955 SF of industrial/warehouse and ancillary office space. Phase II, which is comprised of Planning Areas 3, 4 and 5, has no specific development proposals that have been identified. The total maximum allowable development in the Specific Plan, which is 5,412,591 SF of industrial and business park land uses and associated onsite and off-site infrastructure improvements. The Specific Plan Land Use Plan Concept assigns land uses within the project site as summarized in **Table 1**.

Table 1 – Proposed Project Land Use

Planning Area[1]	Maximum Floor Area Ratio[2]	Site Acreage	Maximum Building Square Footage
Phase 1			
Planning Area 1: Business Park	0.6	23.0	601,128 SF
Planning Area 2: General Industrial	0.55	107.34	2,571,652 SF
Subtotal		130.34	3,172,780 SF
Phase 2			
Planning Area 3: Business Park	0.6	18.14	474,107 SF
Planning Area 4: General Industrial	0.55	56.3	1,348,835 SF
Planning Area 5: General Industrial	0.55	17.4	416,869 SF
Subtotal		91.84	2,239,811 SF
TOTAL		222.18	5,412,591 SF

a. Provided the GPA application submitted in conjunction with this Specific Plan to designate PAs 1 and 3 as Business Park and PAS 2,4, and 5 as General Industrial is approved
b. The Project EIR as proposed is reviewing square footages and will be addressing the maximum allowable SF, per The Ontario Plan (TOP) thresholds.

Land designations per the City of Ontario's latest general plan document entitled The Ontario Plan (2010).

The proposed project is anticipated to be implemented in 2 Phases – "1," and "2," in addition to SB 330 sites. Phase 1 and 2 are both planned for 2023, with SB 330 sites also anticipated to start in 2023. Project phasing would ultimately respond to market demands and would be contingent on the availability of supporting infrastructure.

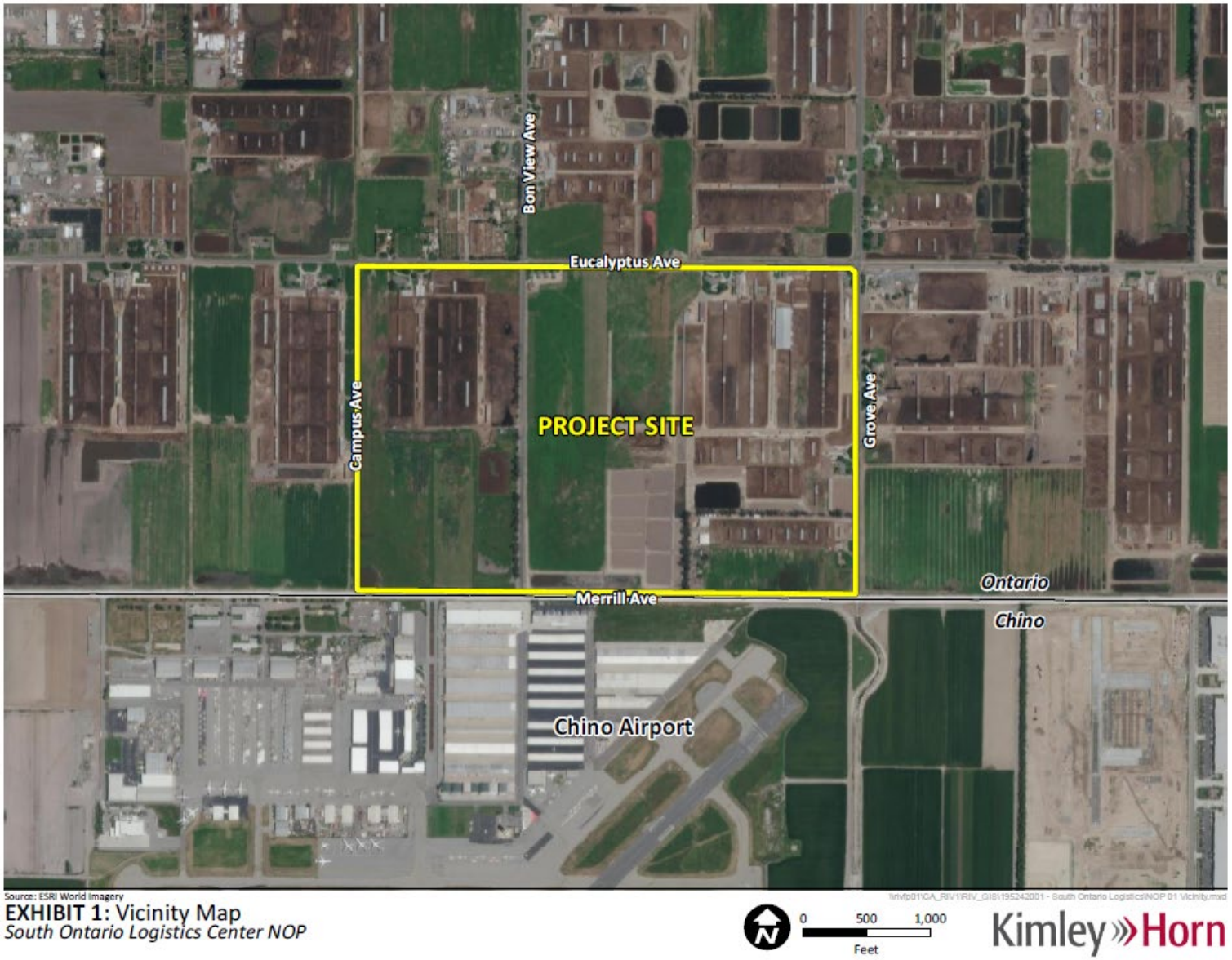
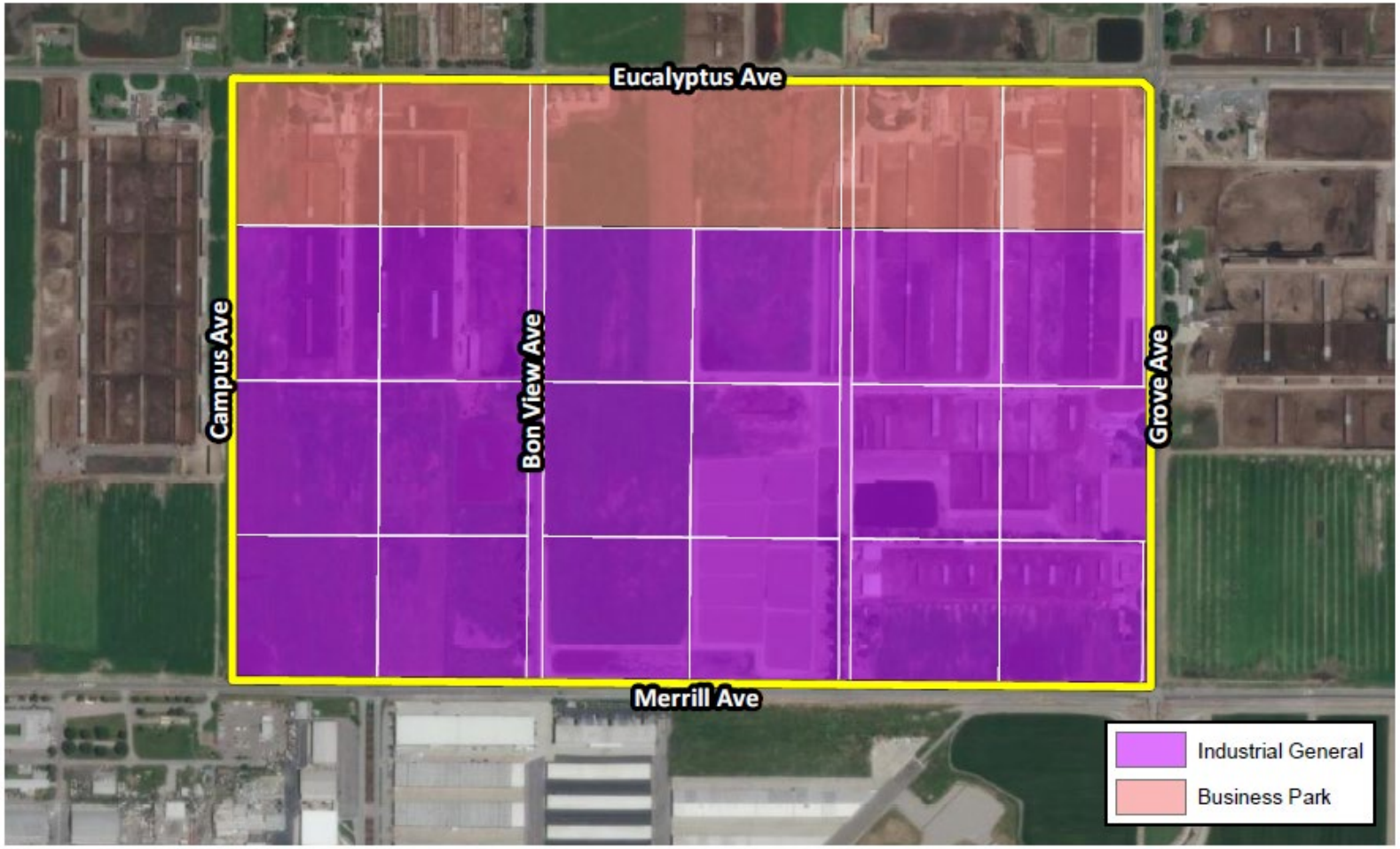


Figure 1 – Vicinity Map



Proposed Land Use

Source: Ontario General Plan, ESRI World Imagery

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EXHIBIT 2: Proposed General Plan Land Uses
South Ontario Logistics Center NOP

0 500 1,000
Feet

Kimley»Horn

Figure 2 – Proposed Land Use Map

The Ontario Municipal Utilities Company (OMUC) provides water service to residents, businesses, and other users in the City of Ontario, including the project site. Two small areas in the north central and northeastern sections of the City are served by the Cucamonga Valley Water District (CVWD). As of 2015, OMUC provided water to a population of approximately 168,777 people. The primary source of water is groundwater from Chino Groundwater Basin (Chino Basin). Other water supplies include treated groundwater from the Chino Basin Desalter Authority (CDA), recycled water from Inland Empire Utilities Agency (IEUA), imported water from the Water Facilities Authority (WFA), and purchased water from the San Antonio Water Company (SAWCo).

The City currently owns and operates:

- 17 active wells
- Two wells on standby
- Three of the active wells (Wells 41, 44, and 52) currently undergo treatment at two separate treatment plants

As of 2015, there were 33,720 water meters throughout the City.

Total potable and recycled water demand within the OMUC service area averaged 43,663 acre-feet per year (AFY) between 2005 and 2015. Potable water demands averaged 38,470 AFY and recycled water demands averaged 5,193 AFY (including agricultural demands), between 2005 and 2015. Despite growth within the City between 2005 and 2015, potable demands have steadily decreased in the last 10 years primarily due to increasing recycled water use and conservation efforts. In 2015, the City's total demand was 37,151 AFY. Potable water demands were 29,943 AFY and recycled water demands were 7,208 AFY (including agricultural demands). The total demands in the year 2040 are projected to be 73,640 AFY. Potable water demands are projected to be 57,093 AFY and recycled water demands are projected to be 16,547 AFY (including agricultural demands).

The passage of SB X7-7 (also known as the Water Conservation Act of 2009) resulted in increased efforts to reduce potable water usage by requiring all California urban water suppliers to achieve a 20% reduction in demands (from a historical baseline) by 2020. Using a 10-year base period of 1995 to 2004, the City's baseline water usage is 245 gallons per capita per day (GPCD). The City's interim 2015 water use target is 220 GPCD, and the 2020 target is 196 GPCD.[2]

It is required that every urban water supplier assess the reliability to provide water service to its customers under normal, single dry, and multiple dry years. As discussed in the City's Urban Water Management Plan (UWMP), the City is capable of meeting the water demands of its customers in normal, single dry, and multiple dry years between 2015 and 2040.

Legal Requirements

SB 610 established the primary legal standards for assessing the sufficiency of water supplies for new development projects. Affected land developments are those that meet certain size thresholds. The proposed project meets the threshold for a proposed industrial, manufacturing, processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area. The proposed project also meets the threshold for a

[2] City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.

proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space. Therefore, the proposed project, as described in Section 1.2, meets the criteria for preparation of a WSA.

The basic requirement is that a WSA must "include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the water system's existing and planned future uses, including agricultural and manufacturing uses." If the water demand for a proposed project is accounted for in an adopted UWMP, as is the case here, the WSA preparer may incorporate that information into the WSA.

The WSA also requires additional analysis if any portion of the water purveyor's water supplies include groundwater. A description of any groundwater basin or basins from which the proposed project will be supplied in addition to a detailed description and analysis of the amount and location of groundwater pumped by the public water system for the past five years should be provided. The WSA should also include an analysis of the sufficiency of the groundwater from the basin or basins from which the proposed project will be supplied to meet the projected water demand associated with the proposed project.

Upon adoption, the WSA is incorporated into the CEQA document being prepared for the project, and the lead agency must determine, based on the entire record, whether projected water supplies will be sufficient to satisfy demands for the project, in addition to existing and future uses.[3]

Water Demand Analysis

This section evaluates whether the proposed project was included in the projection of future water demands for the City of Ontario, as described in the 2015 UWMP. As per Section 10910 (c) (2) of the California Water Code:

"if the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g)."

City of Ontario Water Demands

The primary source of water for the proposed project would be existing water supplies used by the City to provide service to its customers. This section analyzes the water demands of existing and planned future City customers.

Current and projected potable and recycled water demands by customer class are presented in Tables 2 and 3. The City's total 2015 demand was 37,151 AFY. Potable water demand was 29,943 AFY and recycled water demand was 7,208 AFY (including agricultural demands). The projected 2040 potable water demand is 57,093 AFY and recycled water demand (including agricultural demands) is 16,547 AFY for a total of 73,640 AFY.

[3] California Water Code Section 10910 (b) and (c).

Table 2 – Current and Projected Potable Water Demands for the City of Ontario (AFY)

Use Type	2015	2020	2025	2030	2035	2040
Single Family	10,941	11,488	12,063	13,271	14,864	16,557
Multi-Family	4,839	6,050	7,563	9,832	13,273	17,699
Commercial	6,584	7,271	7,635	8,398	9,406	10,277
Industrial	1,471	1,839	2,298	2,988	3,884	5,138
Landscape	4,564	4,792	5,032	5,535	6,365	7,422
Other	1,338	-	-	-	-	-
Sales/Transfers/Exchanges to other agencies	206	-	-	-	-	-
Total	29,943	31,440	34,591	40,024	47,792	57,093

AFY = Acre-feet/year
Source: City of Ontario 2015 UWMP, 2016.

Table 3 – Current and Projected Recycled Water Demands for the City of Ontario (AFY)

Use Type	2015	2020	2025	2030	2035	2040
Recycled Water Demand	7,208	7,929	9,118	10,942	13,677	16,574

AFY = Acre-feet/year
Source: City of Ontario 2015 UWMP, 2016.

Proposed Project Water Demand

The proposed project consists of an approximately 222.18-acre development within the boundaries of the proposed South Ontario Logistics Center Specific Plan. The proposed project plans for new industrial and business uses. Buildout of the Specific Plan would generate 5,412,591 SF of building space. The proposed development would connect to the City's water main for domestic water use. Recycled water would be used for landscape irrigation.

The proposed Project site is currently occupied by agricultural uses, including a dairy farm and row crops, and vacant land. There are several residential structures located throughout the Project site. Dairy farming and agriculture have been the primary uses of the property since the 1930s or earlier. The Project also includes dairy barns, a storage structure, feed storage barns, and numerous livestock corrals. There are large existing retention ponds that collect agricultural waste. There are three potable water wells located throughout the proposed Project site and two above ground fuel storage tanks along with various mechanical systems for dairy production practices. The remainder of the proposed Project site is used as irrigated cropland with berms located along the site perimeter. To the north, east, and west of the proposed Project site exists mostly rural farmland, and to the south is the Chino Airport.

Water use for the proposed project was calculated using domestic water demand rates and recycled water irrigation demand rates, as specified in the UWMP. **Table 4** shows the total water demand estimate for the proposed development.

Table 4 – Water Demand Estimate for the Proposed Development

Land Use	Acres	Domestic Water Demand Rate[a] (gpd/ac)	Total Domestic Water Usage (gal/day)	Recycled Water Demand Rate[b] (gpd/ac)	Total Recycled Water Usage (gal/day)
Phase 1					
PA 1: Business Park	23.00	1,800	41,400	1,340	30,820
PA 2: Industrial	107.34	1,400	150,276	890	95,533
Phase 2					
PA 3: Business Park	18.14	1,800	32,652	1,340	24,308
PA 4: Industrial	56.30	1,400	78,820	890	50,107
PA 5: Industrial	17.40	1,400	24,360	890	15,486
Total	**222.18**	**-**	**327,508**	**-**	**216,253**

Source: City of Ontario 2015 UWMP, 2016.
a. Table 2 of the Ultimate Citywide Water Demand Estimate Technical Memorandum (Appendix B of the UWMP) was used to establish the domestic water demand rate.
b. Table 2 of the Ultimate Citywide Water Demand Estimate Technical Memorandum (Appendix B of the UWMP) was used to establish the recycled water demand rate.

As shown in **Table 4**, the total domestic water demand within the South Ontario Logistics Center Specific Plan area is estimated to be 327,508 gal/day (366.9 AFY). The total recycled water demand is estimated to be 216,253 gal/day (242.2 AFY). The total water demand would be **543,761 gal/day** or **609.1 AFY**.

Proposed Project with Respect to 2015 Urban Water Management Plan

In order to evaluate water supply reliability, California statutes require the consideration of water supplies and demands in three types of water conditions: normal, single dry, and multiple dry water years.[4] The 2015 UWMP indicates that the City is capable of meeting the water demands of its customers in normal, single dry, and multiple dry years between 2020 and 2040.

The 2015 UWMP projected water demands are based on future land uses as specified in the City's latest 2010 General Plan. Based on the projected future land use for the project site in the UWMP, the water demand was estimated, as shown in **Table 5**.

Table 5 – Water Demand Estimate for the Project Site Based on Projected Future Land Use in 2015 UWMP

Land Use	Acres	Domestic Water Demand Rate[a] (gpd/ac)	Total Domestic Water Usage (gal/day)	Recycled Water Demand Rate[b] (gpd/ac)	Total Recycled Water Usage (gal/day)
Business Park	63.14	1,800	113,652	1,340	84,608
Low Medium Density Residential	158.89	3,960	629,204	625	99,306
Total	**222.03**	**-**	**742,856**	**-**	**183,914**

Comparing Project water demand in **Table 4** with water demand assumed in the 2015 UWMP as shown in **Table 5** shows that the total domestic water demand within the site area will decrease, compared to

[4] Department of Water Resources, 2005. *California Water Plan, Bulletin 160-05, Volume III* ("Each district has different assumptions and policies that guide their planning").

planned land use as depicted in the 2015 UWMP. Water usage per the 2015 UWMP is estimated to be 742,856 gal/day (832.1 AFY). The total recycled water demand is estimated to be 183,914 gal/day (206.0 AFY). Therefore, the total water demand per the 2015 UWMP would be **926,770 gal/day** or **1,038 AFY,** compared to a total water demand of the Project (shown in **Table 4**) of **543,761 gal/day** or **609.1 AFY**.

Therefore, implementation of the proposed project will not obstruct the City's ability to meet water demands of its customers in normal, single dry, and multiple dry years, because the Project will not use any additional water that was not accounted for.

In addition to evaluating changes in water demand for the SOLC Specific Plan Project site in comparison to the 2015 UWMP (**Tables 4 and 5** above), this WSA also evaluates a related aspect of the Project, the change in water demand associated with increasing residential density within the Grove Avenue Corridor SB 330 Replacement Sites study area. Per SB 330, in order for the City to approve the SOLC Specific Plan, the City must also "upzone" an area in the City to offset the loss in residentially zoned land. The City has evaluated the Specific Plan and has determined that it would result in the "loss" of approximately 1,352 low to moderate density housing units (due to the proposed rezoning and associated General Plan Amendment and Zone Change).[5] The City would offset residential density "lost" from the Project site and rezone an area along the Grove Avenue Corridor, referred to as the "SB 330 Replacement Site" (refer to **Figure 3**, SB 330 Replacement Site). To accomplish the required additional residential density in the SB 330 Replacement Site, the City proposes to adopt an Overlay District to allow up to an additional 1,352 DU in this area. The additional density is assumed to be spread evenly across the 473-acre SB 330 Replacement Site. This area is currently zoned with a mix of low density, low-medium density and medium density residential allowing an estimated 3,690 DU, in addition to 18 acres of Neighborhood Commercial and 44 acres of General Commercial. For the purposes of SB 330 compliance, the proposed Overlay District would allow an additional 1,352 DU (as determined by the City's density determinations to be 8.5 dwelling units per acre [du/ac.] for 159.04 acres of Low-Medium Density Residential), or an overall increase of approximately 37% in dwelling units for this 473-acre area. The City has determined that the Project would displace 1,352 DU of residential capacity as part of the SOLC Specific Plan approval. Therefore, the City has identified an additional density of 1,352 DU within the Grove Avenue Corridor, with an assumed average density of Medium Density Residential. As shown in **Table 6**, for the SB 330 site, the additional daily water usage will be a net increase of **398,840 gal/day**.

Table 6 – SB 330 Water Demands **Land Use**	**Units**	**Domestic Water Demand Rate (gpd/du)**	**Domestic Water Usage (gal/day)**	**Recycled Water Demand Rate (gpd/du)**	**Total Recycled Water Usage (gal/day)**	**Total Water Usage (gal/day)**
Medium Density Residential	1,352	268	362,336	27	36,504	398,840

[5] City of Ontario. (2020). Email correspondence with Rudy Zeledon, Planning Director. December 10 2020.

Table 7 – Water Demand Summary

Land Use	Total Domestic Water Usage (gal/day)	Total Recycled Water Usage (gal/day)	Total Water Usage (gal/day)
Projected in 2015 UWMP			
Project Site	742,856	183,914	926,770
SB 330 Site	-	-	-
Subtotal	**742,856**	**183,914**	**926,770**
Proposed Project			
Project Site	327,508	216,253	543,761
SB 330 Site	362,336	36,504	398,840
Subtotal	**689,844**	**252,757**	**942,601**
Net Difference			
(gal/day)	**-53,012**	**68,843**	**15,831**
(%)	**-7.1%**	**37.4%**	**1.7%**

As shown in **Table 7** above, the implementation of the Project, and the rezoning of lower-density land for the SB 330 site for the Project, will result in a slight decrease in domestic water demand, an increase in recycled water demand, and an overall slight increase in total water demand (of 1.7%, or 15,831 gallons/day), compared to the 2015 UWMP. Therefore, implementation of the Project would result in a nominal increase in water demand and will not obstruct the City's ability to meet water demands.

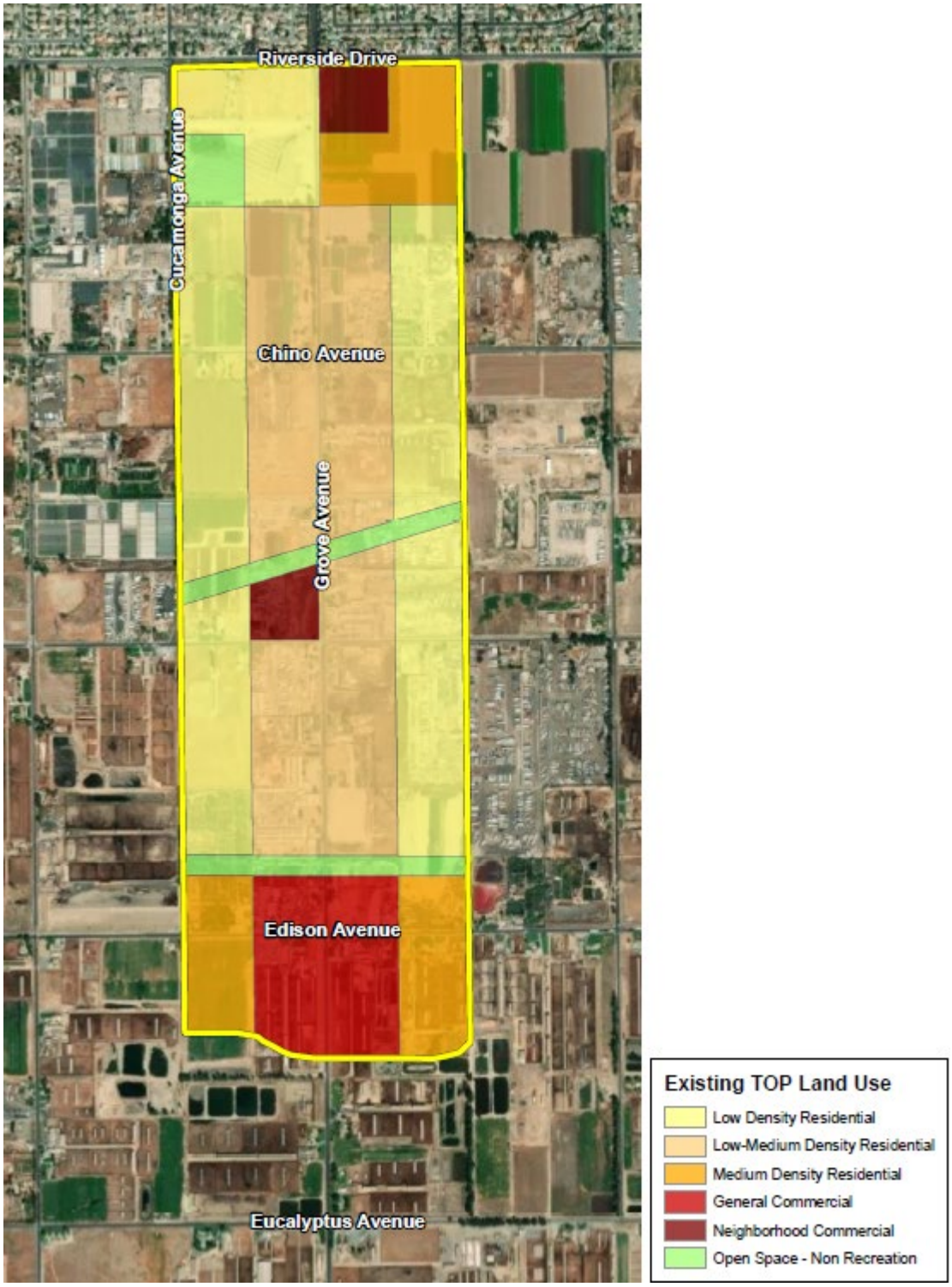

Figure 3 – SB 330 Replacement Site

Water Supply Analysis

This section identifies the sources of water used by the City of Ontario and evaluates the water supplies that could be used by the City and the proposed project during normal, single-dry, and multiple-dry years through the year 2040.

Water sources used by the City include groundwater from Chino Groundwater Basin (Chino Basin), treated groundwater from the Chino Basin Desalter Authority (CDA), recycled water from Inland Empire Utilities Agency (IEUA), imported water from the Water Facilities Authority (WFA), and purchased water from the San Antonio Water Company (SAWCo).

The City of Ontario owns and operates 19 groundwater wells within the Chino Basin, of which 17 wells are currently active and two are on standby. Groundwater from the Chino Basin is used by the City of Ontario either directly by pumping into its distribution system or by treating the groundwater (Wells 41, 44 and 52) at one of its two plants and then pumping the treated groundwater into the City of Ontario's distribution system. The ultimate capacity of Ontario's existing and future wells is projected to be 105.8 million gallons per day (mgd) or 132,219 AFY.[6] Additional information on the City's groundwater resources and groundwater rights is provided in Section 2.5.

In addition to its well production, the City of Ontario also purchases treated Chino Basin groundwater from the CDA. The CDA was formed in 2002 as a Joint Powers Authority consisting of Inland Empire Utilities Agency; Jurupa Community Services District; Cities of Chino, Chino Hills, Norco, Ontario, and Santa Ana River Water Company. Western Municipal Water District joined in 2010.

As part of the Chino Basin Watermaster requirements in the Optimum Basin Management Program (OBMP), the member agencies of the CDA are required to extract 40,000 AFY of groundwater from the southern portion of the Basin, treat it to potable water standards, and deliver it to the member agencies. The CDA currently owns and operates two desalters (Chino I and Chino II Desalters) that consist of groundwater extraction wells connected to pumps and pipelines that direct water to advanced treatment facilities. The final product is a high-quality drinking water, which is sold to member agencies through "take or pay" contracts. The City has 1,500 AFY capacity rights in the Chino I Desalter and 3,500 AFY capacity rights in the existing Chino II Desalter. When the current expansion of the Chino II Desalter is completed, the City's total deliveries will increase to 8,533 AFY.[7]

Recycled water is provided to the City of Ontario by IEUA, which owns and operate four regional water recycling plants that produce disinfected and filtered tertiary treated recycled water in compliance with California Title 22 regulations. IEUA provides recycled water to Ontario and other local agencies through a distribution system consisting of pipelines, booster pump stations, pressure regulating station, and reservoirs.[8]

The City has been obtaining recycled water from IEUA since 1972. Currently, recycled water is used in the City for agricultural irrigation, landscape irrigation, golf course irrigation, and industrial uses. Based on the City's current Recycled Water Master Plan and the 2015 UWMP, the City has enough recycled water rights

[6] City of Ontario, 2012. Water Master Plan. Prepared by AKM Consulting Engineers.
[7] City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.
[8] Inland Empire Utilities Agency, 2016. 2015 Urban Water Management Plan. Prepared by Arcadis.

to meet future recycled water demands. In 2015, there were 12,131 AF of recycled water available to the City and 7,208 AF of recycled water were used.

The City also obtains treated imported water from the WFA, which is a wholesale water supplier to the cities of Chino, Chino Hills, Ontario, Upland, and the Monte Vista Water District.[9] The WFA purchases imported water from IEUA, which in turn purchases untreated water from the Metropolitan Water District (MWD). The MWD obtains its water from the State Water Project (SWP) and has projected 100% water supply reliability over the next 20 years, as per its 2015 UWMP.[10] The WFA obtains the raw water from a connection to MWD's Rialto Feeder Pipeline, which starts at MWD's Silverwood Lake Reservoir in the San Bernardino Mountains. The City owns 31.4 percent of the plant capacity (25.4 mgd, 28,500 AFY). The maximum capacity available to the City is 19,924 AFY, which equals the total capacity of 28,000 AFY less the Dry Year Yield (DYY) shift obligation of 8,076 AFY.[11]

SAWCo leases groundwater rights to the Cities of Fontana, Ontario, Chino and Upland, and the Cucamonga Valley Water District, the Monte Vista Water District, the Jurupa Community Services Water District and Three Valleys Municipal Water District.[12] The City of Ontario owns 295 shares of the SAWCo. In the past, the City received its water from SAWCo by a stored groundwater transfer. However, in 2015, SAWCo made a connection to the WFA and is now able to deliver water to the City through that connection. SAWCo water supplies are a mix of surface water from San Antonio Creek, groundwater from the San Antonio Tunnel, and three groundwater basins: Chino Basin, Cucamonga Basin, and Six Basins.[13]

Actual water supplies provided to the City for the year 2020 are summarized in **Table 8**.

Table 8 – Water Supply Sources for the City of Ontario in 2020

Water Supplier	Water Source	Amount (AFY)
City of Ontario	Groundwater	18,395
Chino Basin Desalter Authority (CDA)	Purchased/Imported Water	6,636
Water Facilities Authority (WFA)	Purchased/Imported Water	66,513
San Antonio Water Company (SAWCo)	Purchased/Imported Water	565
Inland Empire Utilities Authority (IEUA)	Recycled Water	4,907
IEUA – Agriculture Deliveries	Recycled Water	2,905
Total		39,921
Source: City of Ontario, FY 2019/2020		

It is required that every urban water supplier assess the reliability to provide water service to its customers under normal, dry, and multiple dry water years. The City depends on a combination of imported and local supplies to meet its water demands and has taken numerous steps to ensure that it has adequate supplies. Water supplies available to the City are projected to meet full-service demands. The UWMP states that the City will be able to meet demand with projected supplies between 2020 and 2040 during normal years, single dry years, and multiple dry years (see **Table 9**).[14]

[9] Inland Empire Utilities Agency, 2016. 2015 Urban Water Management Plan. Prepared by Arcadis.
[10] Metropolitan Water District of Southern California, 2016. 2015 Urban Water Management Plan.
[11] City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.
[12] San Antonio Water Company, 2016. 2015 Urban Water Management Plan. Prepared by Civiltec Engineering Inc.
[13] San Antonio Water Company, 2016. 2015 Urban Water Management Plan. Prepared by Civiltec Engineering Inc.
[14] City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.

Table 9 – Normal, Single Dry, and Multiple Dry Year Supply and Demand (AFY)

		2020	2025	2030	2035	2040
Normal Year:						
Supply Totals		39,369	43,710	50,966	61,470	73,640
Demand Totals		39,369	43,710	50,966	61,470	73,640
Difference		0	0	0	0	0
Single Dry Year:						
Supply Totals		39,369	43,710	50,966	61,470	73,640
Demand Totals		35,432	39,339	45,869	55,323	66,276
Difference		3,937	4,371	5,097	6,147	7,364
Multiple Dry Year:						
First Year	Supply Totals	39,369	43,710	50,966	61,470	73,640
	Demand Totals	35,432	39,339	45,869	55,323	66,276
	Difference	3,937	4,371	5,097	6,147	7,364
Second Year	Supply Totals	39,369	43,710	50,966	61,470	73,640
	Demand Totals	33,464	37,154	43,321	52,250	62,594
	Difference	5,905	6,557	7,645	9,221	11,046
Third Year	Supply Totals	39,369	43,710	50,966	61,470	73,640
	Demand Totals	31,495	34,968	40,773	49,176	58,912
	Difference	7,874	8,742	10,193	12,294	14,728

Source: City of Ontario 2015 UWMP, 2016

The City will increase its total water supply from 37,151 AF of water delivered in 2015, to 73,640 AFY in 2040. The increased water supply will come from full utilization of the City's groundwater rights in the Chino Basin allowed under the Judgment (including increased groundwater recharge of stormwater and recycled water), and continued expansion of recycled water use and expansion of desalter water. The increase in imported water is assumed to be available in wet and normal years. With the ability for the City to store water in the Chino Basin, in its local and supplemental storage accounts as well as the DYY Program storage account, the City has the capability and water supply available to reduce imported water deliveries in dry years and increase groundwater production to meet future demands.[15]

Groundwater Analysis

Since most of the potable water supplied by the City of Ontario comes from groundwater, SB610 requires a groundwater analysis to be included as part of the WSA. The Water Code requires that the WSA include:

- Groundwater information from the 2015 UWMP
- Groundwater basin description: Including the legal rights to pump
- Historic Use of Groundwater: from the 2015 UWMP
- Projected Use of Groundwater
- Sufficiency of Groundwater from Chino Basin: The City of Ontario's legal right to pump water in an amount necessary to meet all of its demands has been adjudicated and will ensure the long-term reliability of the groundwater source as the safe yield of the aquifer has been determined. The construction of Wells 45, 46, and 47, as part of the DYY Storage Program, increases the City's

[15] City of Ontario, 2016. 2015 Urban Water Management Plan. Prepared by Ontario Municipal Utilities Company.

groundwater pumping capacity to meet peak demands. The City also has stored water in the Chino Basin and participates in an ongoing groundwater recharge program, using stormwater, dry-weather runoff, and recycled water, that ensures the safe yield of the Chino Basin is not exceeded. The ongoing expansion of the groundwater desalter program and recycled water program will reduce the City's dependence on groundwater pumping. In addition, the City participates in water conservation efforts through the California Urban Water Conservation Council (CUWCC), adopts ordinances pertaining to water shortage contingency planning, conservation pricing, and various public outreach programs to encourage its customers to reduce their water consumption.

Groundwater Information from the 2015 UWMP

The 2015 UWMP adopted by the City in June 2016 contains a description of the Chino Groundwater Basin, the City's current and projected water supplies and demands, the reliability of the water supply, water shortage plans, the Optimum Basin Management Plan, and the adjudication judgment administered by the Chino Basin Watermaster. In addition, Appendix B of the UWMP prepared by AKM explains the methods and calculations by which the future water demand of the City was estimated, based on the land use designations in the General Plan.

Groundwater Basin Description

The City of Ontario obtains its groundwater from the Chino Groundwater Basin. The Chino Basin encompasses about 235 square miles of the upper Santa Ana River watershed and lies within portions of San Bernardino, Riverside, and Los Angeles counties. The Chino Basin has approximately 6 million-acre feet of water in storage and an estimated 1 million acre-feet of storage capacity. The Chino Basin is divided into five management zones, based on similar hydrologic conditions, as shown in **Figure 4**, Chino Groundwater Basin Management Zones. The City of Ontario is located approximately in the center of the Chino Basin.

Groundwater quality in Chino Basin is generally good with better quality in the northern portion of the basin where recharge occurs. Salinity (TDS) and nitrate-nitrogen concentrations are higher in the southern portion of the basin. The Chino Basin has been extensively studied by the Chino Basin Watermaster. Reports are available at this website: http://www.cbwm.org/.

The Chino Basin Watermaster began development of the Optimum Basin Management Program (OBMP) in 1998 and completed it in 2000. The purpose of the program is to address both water quality and water supply considerations. The southern portion of the Chino Basin requires brackish groundwater treatment to control the outflow of salts and nitrates into the Santa Ana River. As such, one of the main benefits of the CDA is to remove salts and nitrates to clean up the Chino Basin. CDA operates 28 groundwater extraction wells that prevent brackish groundwater from flowing into the Santa Ana River.

The OBMP and its implementation agreement, the Peace Agreement, was approved by the Court in October 2000. One of the stipulations of the OBMP requires member agencies to extract approximately 40,000 AFY of groundwater from the southern portion of the Chino Basin, treat it to potable water standards, and then deliver it to the member agencies. When the Chino II Desalter expansion is complete, CDA is expected to meet this requirement. The City of Ontario purchased 3,543 AF from CDA in 2005, which is approximately 10 percent of the City's total supply. Upon completion of the Chino II Desalter expansion, the City's capacity rights will be 8,533 AFY.

Legal Right to Pump from the Chino Basin

Water rights to the Chino Basin were adjudicated in 1978 by the Superior Court of the State of California for San Bernardino County. Since that time, the Chino Basin has been sustainably managed, as required by the Judgment, under the direction of the court appointed Watermaster. The original Watermaster was the Chino Basin Municipal Water District (now IEUA). Since 1998, the Watermaster has been the Chino Basin Watermaster.

Multiple cities and water purveyors pump groundwater from the Chino Basin for all or part of their municipal and industrial water supplies. Agricultural users also pump groundwater from the Basin. The safe yield of the Chino Basin is 131,000 AFY as of 2021. The safe yield quantity of 131,000 AFY is allocated among three pools of right holders as follows:

- Overlying agricultural pool (dairymen, farmers, and the State of California): 82,800 AFY
- Overlying non-agricultural pool (businesses and industries): 7,366 AFY
- Appropriative pool (local cities, public water districts, and private water companies): 40,834 AFY

The Judgment states that all Chino Basin users can pump a sufficient quantity of water from the Basin to meet their requirements. If pumping by a party exceeds its share of the safe yield, assessments are levied by the Chino Basin Watermaster to replace overproduction. The Judgment also recognizes that there is a substantial amount of available unused groundwater storage capacity in the Chino Basin that can be used for storage and the conjunctive use of supplemental and basin waters. The Chino Basin Watermaster has the authority to reallocate shares of unallocated safe yield water on an annual basis, as per the latest 2019 Watermaster Resolution No. 2019-03.[16] (add source – Watermaster Resolution 2019-03). The Watermaster publishes an annual report that summarizes the status and management of the Chino Basin. A copy of the Chino Basin Judgment and latest Watermaster Annual Report can be found at www.cbwm.org.

The City of Ontario is a member of both the overlying non-agricultural pool and the appropriative pool and is therefore subject to the regulations imposed by the Chino Basin Watermaster. Per the Judgment, the City of Ontario has water rights of 20.742% of the safe yield of the appropriative pool (i.e., approximately 8,470 AFY). In addition, as of 2020 the City holds groundwater rights of 3,920.6 AFY from the overlying non-agricultural pool.

The City of Ontario also participates in the Dry Year Yield Storage Program (DYY Program), which is a cooperative conjunctive use program involving Metropolitan Water District of Southern California (MWD), IEUA, Chino Basin Watermaster, Three Valleys Municipal Water District (TVMWD), and some of the Chino Basin groundwater producers. Under the DYY Program, MWD is allowed to store up to 100,000 AF of water in the Chino Basin when surplus water is available and the Chino Basin groundwater producers can extract 33,000 AFY for three years in dry, drought, or emergency periods. The City authorized execution of an agreement with IEUA to participate in the DYY program in 2003. Participation obligates the City to reduce its use of imported water compared to a baseline by a fixed amount, known as the "shift obligation." The City's shift obligation is 8,076 AFY. During years when MWD calls for extraction, the City's WFA purchases would be reduced by up to 8,076 AFY compared to the previous year. Because Jurupa Community Services District (JCSD) does not have an imported water connection, it has entered

[16] Chino Basin Water Master, 2019. Watermaster Resolution No. 2019-03.

into an agreement with the City for meeting its shift obligation. Under this agreement, JCSD conveys groundwater to the City in an amount equal to its shift obligation. The current shift obligation is 2,000 AFY. This program allows the City to be less reliant upon imported water supplies and the additional groundwater capacity allows the City to increase the percentage of groundwater supply used to meet peak demands.

In addition to the appropriative pool and overlying non-agricultural pool water rights, as well as the contract obligations through the DYY Program, the following is a summary of other groundwater rights for Chino Basin:

Land Use Conversions

As of 2020, the City has rights to 4,254 AFY from the Chino Basin due to conversions from agricultural to non-agricultural land uses. This amount is expected to increase to 16,602 AFY as agricultural land uses are converted in the future. (However, annual adjustments may be made to the rights obtained through land use conversions.)

Annual Early Transfers

The Watermaster can approve an "Early Transfer" of unused agricultural pool water to the appropriative pool. The Early Transfer water is annually allocated among the appropriative pool members in accordance with their pro-rata share of the initial safe yield. For the 2020-2021 fiscal year, the Early Transfer of water for the City was 5,177 AF. The total Agricultural Pool Reallocation to the City of Ontario for Fiscal Year 2020-2021 was 10,468 AF.

Increased Groundwater Recharge

The City is entitled to water rights due to increased groundwater recharge with stormwater and recycled water credits in accordance with the OBMP. Stormwater recharge credit is assigned based on operating safe yield percentage. Recycled water recharge credit is assigned based on the wastewater contribution percentage. Based on an estimated total recharge of 35,000 AFY (20,000 AFY of recycled water and 15,000 AFY of stormwater) in 2035, the City of Ontario would be entitled to approximately 9,600 AFY in the future.

Groundwater From San Antonio Water Company

The City owns 295 shares of the San Antonio Water Company (SAWCo), which provides 600 AFY to the City. SAWCo supplies a mixture of water from San Antonio Creek, groundwater from the San Antonio Tunnel, and three groundwater basins: Chino Basin, Cucamonga Basin, and Six Basins. In the past, the City received its water from SAWCo by a stored groundwater transfer; however, in 2015, SAWCo made a connection to the WFA and is now able to deliver water to the City.

Fontana Recycled Water Rights

The City also has a long-term contract to purchase up to 3,000 AFY of recharged recycled water rights from the City of Fontana, which does not operate its own water system.

City Groundwater Storage

The City has rights to store water in the Chino Basin (appropriative and overlying non-agricultural) and has been increasing its storage in recent years. The City holds water in both an excess carry over accounts and supplemental accounts. Excess carry over storage accounts hold un-pumped operating safe yield groundwater rights. Supplemental accounts hold both imported water and recycled water that has been recharged into the Chino Basin. As of 2020, the City has a total of 96,544 AF in storage. This consists of 39,261 AF in excess carry over storage accounts and 57,283 AF in supplemental accounts. As of 2015, there is enough water in the City's storage accounts to meet more than two years of total demands, should other water supply sources be unavailable. Based on the City's projected increase in additional local supplies (desalter water and recycled water), the City's groundwater storage accounts are projected to continue to grow at a rate of 2,000 AFY to 5,000 AFY, further increasing the City's local resource reliability and reducing dependence on imported water.

The various groundwater rights held by the City of Ontario are summarized in **Table 10**.

Table 10 – City of Ontario Groundwater Rights Summary

	Current (AFY)	Future Groundwater Produced (AFY)
Dry Year Storage Program	8,076	8,076
Appropriative Pool	8,470	8,470
Overlying Non-Agricultural Pool	3,920	At least 3,920
Land Use Conversions	4,254	16,602
Annual Early Transfer	5,177	20.742 % of Ag Early Transfer
Groundwater Recharge Credits	Unknown	9,600 (in 2035)
Fontana Recycled Water Rights	Max. 3,000	At least 3,000
SAWC Groundwater	600	At least 600
Groundwater Storage Accounts	Excess Carry Over Account: 39,261 Supplemental Account: 57,283	33,500 to 40,500 38,700 to 60,700

Source: Chino Basin Watermaster Assessment Year 2020-2021 (Production Year 2019-2020)

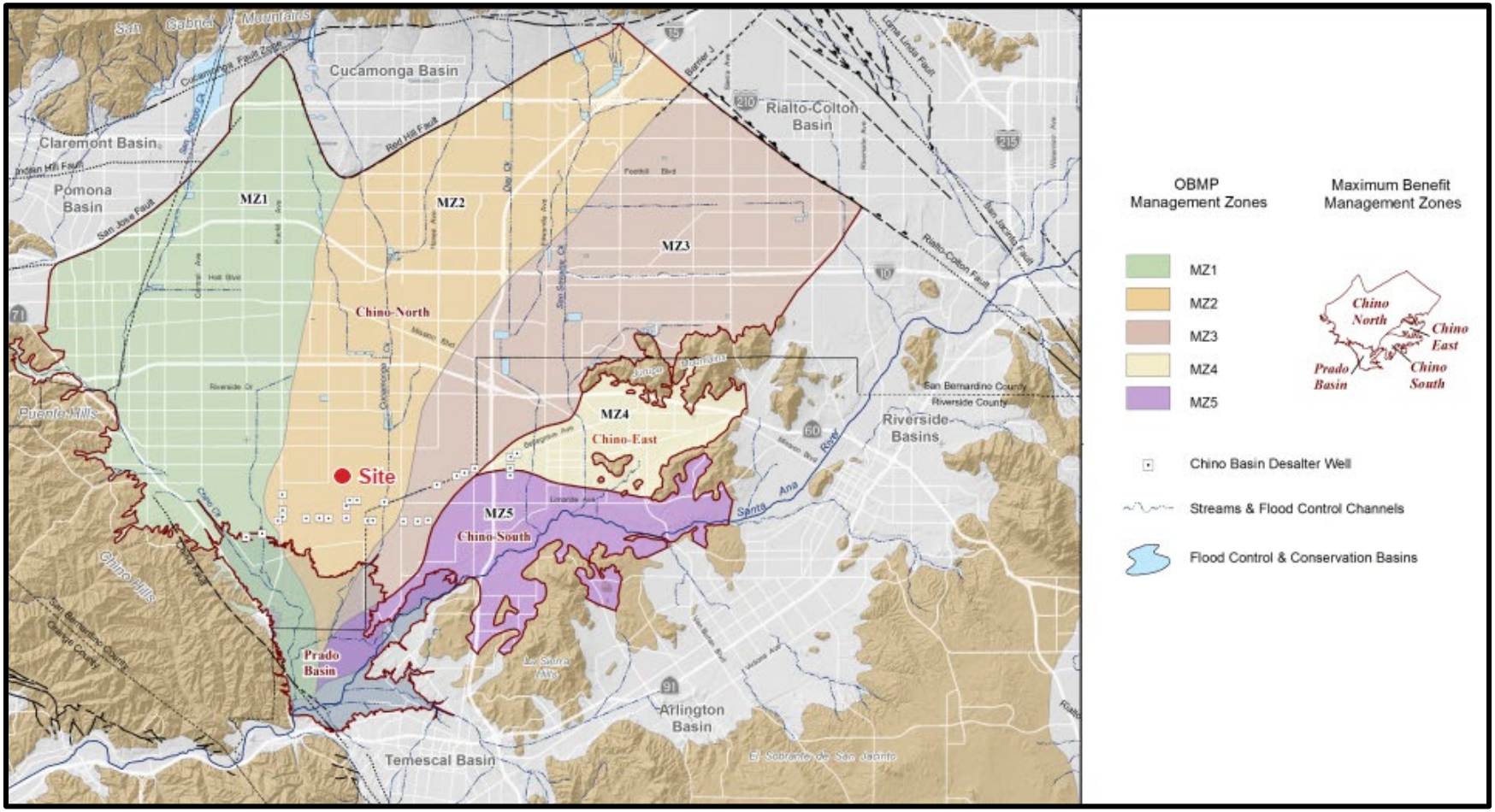

Figure 4 – Chino Groundwater Basin Management Zone

Historic Use of Groundwater

The City owns and operates 19 groundwater wells, of which 17 are currently active and two are on standby. The City's 2012 Potable Water Master Plan includes nine new groundwater wells that will primarily supply the South Ontario Logistics Center area. The amount of groundwater pumped by the City of Ontario from the Chino Basin since 2000 is listed below in **Table 11**. A map of the location of the groundwater wells and pressure zones is shown on **Figure 5**, Ontario Ultimate Water System.

Table 11 – Historic Groundwater Production

Calendar Year	Groundwater produced (AFY)
2011	20,442
2012	20,226
2013	19,967
2014	20,274
2015	19,544
Average	**20,091**
Source: City of Ontario 2015 UWMP, 2016.	

Projected Use of Groundwater

The proposed project will receive water from the City of Ontario, using groundwater extracted from the Chino Basin, treated groundwater from the CDA, recycled water from the IEUA, and imported water from the WFA.

Groundwater from the Chino Basin will be directly pumped by the City of Ontario into its distribution system or by treating the groundwater extracted at Wells 41, 44 and 52 through ion-exchange facilities before pumping it into the distribution system. The City's current well capacity is 39,638 gallons per minute (gpm). When the nine future wells come on line, the capacity of the City's groundwater system will be greater than 72,315 gpm, this includes the nine future wells.

The City of Ontario also purchases treated groundwater from the CDA. The City currently has an entitlement of 5,000 AFY from the CDA. Once the CDA Desalter II expansion is complete, the City will have an additional entitlement of 3,533 AFY for a total of 8,533 AFY.

Sufficiency of Groundwater from Chino Basin

According to the 2015 UWMP, the City's water supply (including conservation measures) will be sufficient to supply all of its needs to residential, commercial, and industrial customers through the year 2040 during normal, single dry, and multiple dry years. The City of Ontario's legal right to pump water in an amount necessary to meet all of its demands has been adjudicated and will ensure the long-term reliability of the groundwater source as the safe yield of the aquifer has been determined.

Approximately two-thirds of the City's water supply is groundwater pumped through its own wells located in the Chino Basin. The construction of Wells 45, 46, and 47, as part of the DYY Storage Program, increases the City's groundwater pumping capacity to meet peak demands. The City also has 96,544 AF of stored water in the Chino Basin as of 2020 and participates in an ongoing groundwater recharge program, using

stormwater, dry-weather runoff, and recycled water, that ensures the safe yield of the Chino Basin is not exceeded. The ongoing expansion of the groundwater desalter program and recycled water program will reduce the City's dependence on groundwater pumping. In addition, the City participates in water conservation efforts through the California Urban Water Conservation Council (CUWCC), adopts ordinances pertaining to water shortage contingency planning, conservation pricing, and various public outreach programs to encourage its customers to reduce their water consumption.

The Cities of Chino, Chino Hills, Ontario, Upland, and the Monte Vista Water District submitted the Water Supply Reliability Certification and supporting documentation to the State Water Resources Control Board in June 2016. This was submitted under the requirements of the State Water Resources Control Board's (SWRCB's) May 18, 2016 Emergency Regulation. The results are summarized in **Tables 12 and 13**.

Table 12 – Water Supplies Available to the City of Ontario for Water Years 2017-2019

	WY 2017 (AF)	WY 2018 (AF)	WY 2019 (AF)
Water Facilities Authority	13,044	13,448	11,840
Chino Desalter Authority	8,533	8,533	8,533
San Antonio Water Company	545	545	545
Groundwater Rights (Appropriative Pool)	30,137	17,726	17,726
Groundwater Rights (Non-Agricultural Pool)	4,656	2,328	2,328
Recycled Groundwater Recharge	2,684	2,792	2,357

Source: Monte Vista Water District, 2016. Documentation to Support Water Supply Reliability Certification and Data Submission.
AF = Acre Feet
[1]Does not include agreement with the City of Fontana to purchase up to 3,00 AFY of Fontana's recycled water groundwater recharge rights.

Table 13 – Chino Basin Carryover Water Supplies for City of Ontario WY 2019

	WY 2019 (AF)
Annual Share of Safe Yield	12,664
Projected Annual Demands	35,809
Projected WY 2018 Supplies	58,036
WY 2018 Excess Supplies	22,227
WY 2019 Carryover Supplies	12,664

Source: Monte Vista Water District, 2016. Documentation to Support Water Supply Reliability Certification and Data Submission.
AF = Acre Feet

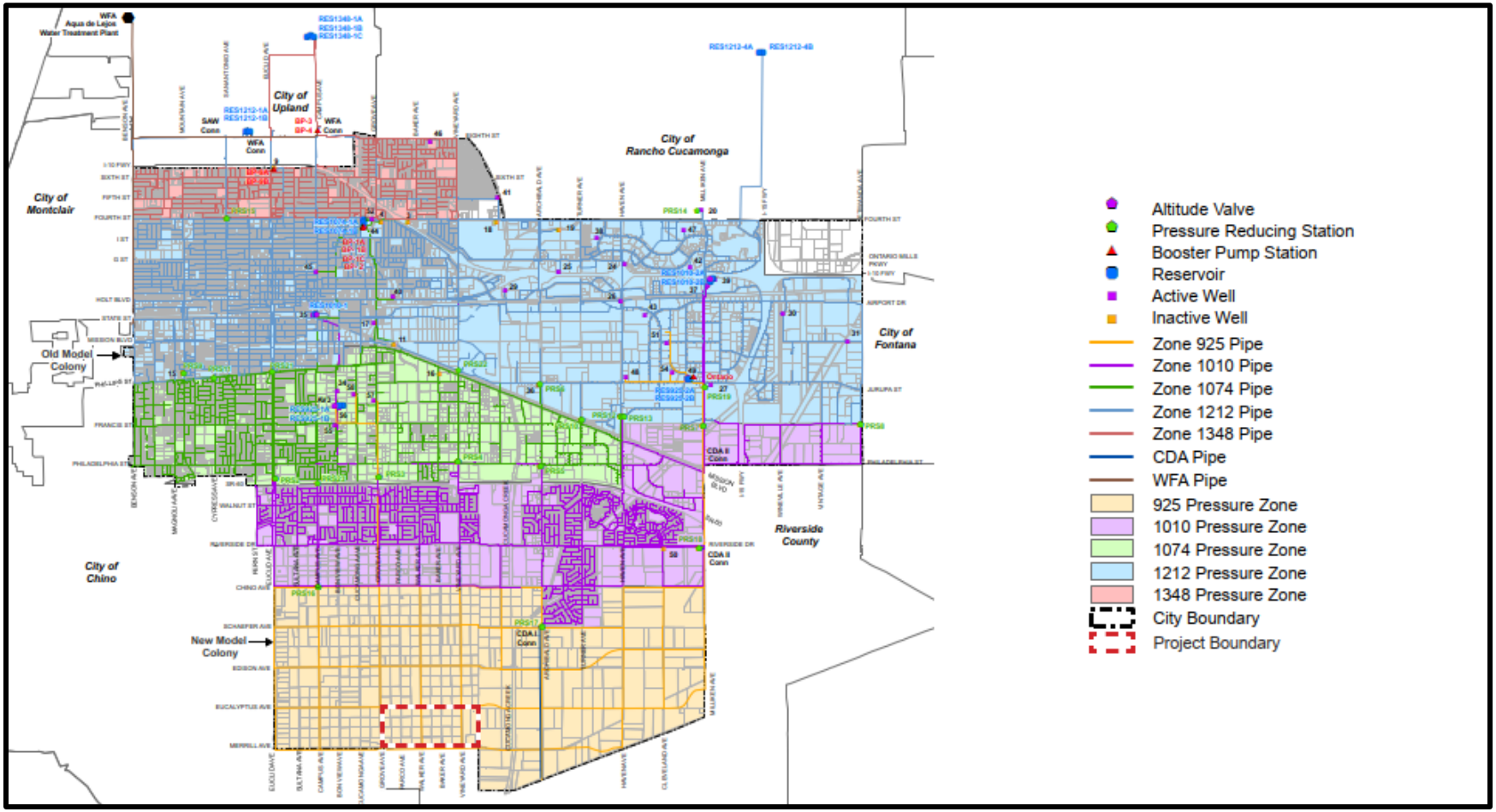

Figure 5 – Ontario Ultimate Water System

In addition, as of 2020 the Chino Basin has approximately 487,048 AF of groundwater that is currently stored and available for safe production through existing groundwater production wells. This quantity of additional available supply is not included in the City's total supply projections. The amount of Chino Basin groundwater available for the City of Ontario is shown in **Table 14**.

Table 14 – Chino Basin Stored Groundwater Available to the City of Ontario

	Local Excess Carry Over Storage (AF)	Local Supplemental Storage (AF)	Total
Appropriative Pool	39,261	57,283	96,544
Non-Agricultural Pool	3,461	-	3,461
Total	42,722	57,283	100,005

Source: Chino Basin Watermaster 2020-21 Assessment Package
AF = Acre Feet.

In summary, there are sufficient groundwater supplies available to the City, based on the analysis provided above as well as the programs overseen by the Chino Basin Watermaster. The ongoing efforts by the City to implement water conservation programs and the use of recycled water will further reduce its reliance on groundwater resources.

Water Shortage Contingency Planning

To prepare for water shortages, the City adopted Ordinance No. 3027 on September 1, 2015, in response to the Emergency Conservation Regulations mandated by the State Water Resources Control Board. Under this ordinance, the Water Conservation Plan was updated with more stringent prohibitions and penalties. The Water Conservation Plan establishes a voluntary conservation stage that is always in effect and mandatory water shortage stages 1 through 4, which enforce water conservation routines following a water crisis.

Depending on the City's customer's initiative to voluntarily conserve water at times of crisis, the City can determine when and how quickly to implement the mandatory conservation phases. The severity of the water shortage will influence which methods will be implemented. When conservation goals are not met simply through voluntary reduction in water use or when supplies are reduced by 10 percent, Stage 1 prohibitions are implemented. Stage 2 occurs when there is a 10 percent to 20 percent reduction in supplies. A reduction in supplies by more than 20 percent results in Stage 3 prohibitions. Severe water supply interruptions, resulting in a reduction in supplies by 50 percent, caused by earthquakes, wide-spread fires, or other natural disasters, prompt Stage 4 prohibitions. A Stage 4 water shortage will target the implementation of all consumption reduction methods.

Water Efficiency Strategies

There are many water efficiency strategies that have been implemented in the City of Ontario that would also reduce water demands for the South Ontario Logistics Center. Since the City is located within an inland arid region where approximately 60 to70 percent of water is used outdoors, there is a heightened focus on outdoor water use efficiency programs. The City offers outdoor rebates and incentives through various programs, such as: irrigation tune-up program, turf removal programs, landscape evaluations, landscape workshops and smart irrigation controller upgrades.

The City also offers an assortment of indoor rebate programs for residential, commercial, industrial, institutional and customers, such as: high efficiency/ultralow flush toilets, high efficiency clothes washer, waterless urinals, water brooms, pre-rinse nozzles, conductivity controllers, rotating nozzles and weather-based irrigation control.

Furthermore, the City along with other IEUA member agencies implements a Regional Water Use Efficiency Business Plan. The Business Plan references SB X7-7, and the State Water Resources Control Board's Emergency Conservation Regulations as the legislative drivers that help guide the development of water reduction goals. The Business Plan describes in detail how the region, and the City, will achieve the water reduction goals. Below is a summary of how the City will achieve the water reduction goals.

Water Use Efficiency Active Programs – offers customers incentives/rebates through a portfolio of indoor and outdoor programs in order to use water efficiently

Water Use Efficiency Passive Policy Initiative – water savings would result from the implementation of current and future building code standards, plumbing code standards and landscape ordinances

Recycled Water – the continued expansion of recycled water use will reduce demands for potable water supply

Summary

A Water Supply Assessment (WSA) was prepared to assess the water demand and supply conditions with implementation of the proposed project. The Project proposes to revise current General Plan land use designations from Business Park and Low Medium Density Residential (as shown in Table 5) to Industrial and Business Park. In addition, the Project requires upzoning land within the Grove Corridor SB330 Replacement Site to offset the "loss" of 1,352 DU of residential zoning within the SOLC Specific Plan area. As shown in **Table 7**, the Project (including upzoning within the SB 330 Replacement Site area) would result in a slight decrease in domestic water demand, an increase in recycled water demand, and an overall slight increase in total water demand of 1.7% or 15,831 gallons/day. This nominal increase in water demand will not affect the City's ability to supply water to the Project or to the City.

According to the City's UWMP, the City has adequate supplies to serve 100 percent of its customers during normal, dry year, and multiple dry year demand through 2040 accounting for projected population increases and corresponding increases in water demand. This WSA concludes that the City will have sufficient water supplies available during normal, single dry, and multiple dry years through the year 2040 to meet all projected water demands associated with its existing and future customers, including the proposed project. In the unlikely event of a water shortage, implementation of the City's Water Conservation Plan and water efficiency strategies would ensure that sufficient water supplies were available to serve its customers, including the project and existing and future users.

Table 15 – Projected Future Land Use in 2015 UWMP

APN	Acres	Land Use
1054-071-01	9.5	Low Medium Density Residential
1054-071-02	9.62	Low Medium Density Residential
1054-081-03	18	Low Medium Density Residential
1054-091-01	9.14	Low Medium Density Residential
1054-091-02	8.73	Low Medium Density Residential
1054-101-01	9.62	Low Medium Density Residential
1054-101-02	9.21	Low Medium Density Residential
1054-231-01	9.61	Low Medium Density Residential
1054-231-02	9.5	Business Park
1054-241-01	9.5	Low Medium Density Residential
1054-241-02	9.62	Low Medium Density Residential
1054-321-01	8.89	Business Park
1054-321-02	8.51	Business Park
1054-311-01	9	Business Park
1054-311-02	9.14	Business Park
1054-051-01	9.14	Low Medium Density Residential
1054-051-02	9	Low Medium Density Residential
1054-061-01	9.6	Low Medium Density Residential
1054-061-02	9.5	Low Medium Density Residential
1054-251-01	9.6	Low Medium Density Residential
1054-251-02	9.5	Low Medium Density Residential
1054-301-01	9.1	Business Park
1054-301-02	9	Business Park